

# SUPERYACHT CHANDLERS





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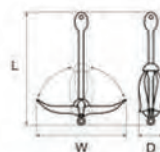
**FOLDING GRAPNEL ANCHOR**

Galvanized Steel folding grapnel anchor.

For: rocks - stones - sand.

Often used as a secondary anchor.

Cod.	L mm	W mm	D mm	Kg	UM
0104015	310	290	80	1.5	PZ
0104025	360	330	85	2.5	PZ
0104032	400	350	95	3.2	PZ
0104040	450	400	105	4	PZ
0104060	545	465	120	6	PZ
0104080	580	540	130	8	PZ
0104110	655	595	130	10	PZ

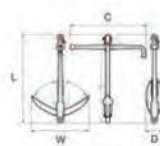
**FISHERMAN ANCHOR FOLDING ARMS**

Galvanized Steel folding fluke traditional anchor.

For: rocks - stones - sand.

Often used as a secondary anchor.

Cod.	L mm	W mm	C mm	D mm	Kg	UM
0106505	520	350	470	110	5	PZ
0106510	660	515	575	160	10	PZ
0106515	755	595	655	190	15	PZ
0106520	800	570	740	190	20	PZ
0106525	820	640	820	208	25	PZ

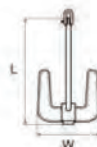
**HALL ANCHOR COMPACT**

Galvanized Steel compact anchor.

For: sand - mud.

Often used as a secondary anchor.

Cod.	L mm	W mm	Kg	UM
0104503	310	160	2,8	PZ
0104504	325	185	3,7	PZ
0104506	385	205	6,3	PZ
0104508	495	230	8	PZ
0104510	495	245	10	PZ

**DANFORTH TYPE ANCHOR**

Galvanized Steel "Danforth" type traditional anchor.

For: sand - mud.

Cod.	L mm	W mm	Kg	UM
0105004	540	400	4	PZ
0105006	520	460	6	PZ
0105008	685	510	8	PZ
0105010	700	510	10	PZ
0105012	720	520	12	PZ
0105015	740	610	15	PZ
0105020	760	660	20	PZ
0105025	770	660	25	PZ
0105030	820	700	30	PZ
0105040	840	710	40	PZ
0105050	860	750	50	PZ



**BRUCE TYPE ANCHOR**

Galvanized Steel 3 pointer "Bruce" type anchor.  
For: sand - mud.

Cod.	H mm	L mm	W mm	Kg	UM
0107502	190	350	240	2	PZ
0107505	240	470	330	5	PZ
0107507	265	530	380	7,5	PZ
0107510	285	560	395	10	PZ
0107515	315	620	405	15	PZ
0107520	370	700	500	20	PZ
0107530	445	820	540	30	PZ
0107550	470	980	660	50	PZ

**BRUCE S/STEEL TYPE ANCHOR**

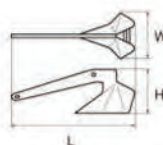
Mirror-polished Stainless Steel AISI 316 3 pointer "Bruce" type anchor.  
For: sand - mud.

Cod.	H mm	L mm	W mm	Kg	UM
0107602	190	350	230	2	PZ
0107605	210	465	315	5	PZ
0107607	280	530	360	7,5	PZ
0107610	295	580	410	10	PZ
0107615	340	655	435	15	PZ
0107620	350	670	460	20	PZ
0107630	410	815	560	30	PZ
0107650	470	980	660	50	PZ

**TORO ANCHOR**

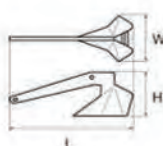
Galvanized Steel quick penetrating anchor.  
For: sand - mud.

Cod.	L mm	W mm	Kg	Barca a motore	Barca a vela	UM
0108704	515	230	4	<6,5 m	<6 m	PZ
0108706	595	265	6	<8,7 m	<7,8 m	PZ
0108710	695	310	10	<11,6 m	<10 m	PZ
0108716	810	360	16	<15 m	<13 m	PZ
0108720	880	390	20	<16 m	<14,5 m	PZ
0108725	940	415	25	<18 m	<16 m	PZ
0108732	1050	435	32	<20 m	<17,5 m	PZ
0108740	1100	490	40	<21,5 m	<19 m	PZ

**TORO S/STEEL ANCHOR**

Stainless Steel AISI 316 quick penetrating anchor.  
For: sand - mud.

Cod.	L mm	W mm	Kg	Barca a motore	Barca a vela	UM
0108804	515	230	4	<6,5 m	<6 m	PZ
0108806	595	265	6	<8,7 m	<7,8 m	PZ
0108810	695	310	10	<11,6 m	<10 m	PZ
0108816	810	360	16	<15 m	<13 m	PZ
0108820	880	390	20	<16 m	<14,5 m	PZ
0108825	940	415	25	<18 m	<16 m	PZ
0108832	1050	435	32	<20 m	<17,5 m	PZ
0108840	1100	490	40	<21,5 m	<19 m	PZ

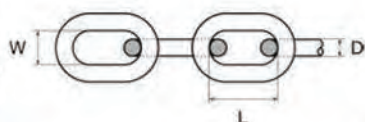


**CALIBRATED GALVANIZED STEEL CHAIN**

High quality calibrated Hot-dip Galvanized Steel chain for windlasses. Production controlled high breaking load. Bundle: 30,50,75 or 100 meters.



DIN766



HI QUALITY



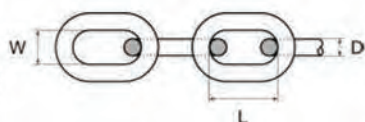
Cod.	D mm	L mm	W mm	Breaking Load Kg	Kg	L meters	UM
011000630	6	18,5	8	2000	24	30	CF
011000650	6	18,5	8	2000	40	50	CF
011000675	6	18,5	8	2000	60	75	CF
0110006100	6	18,5	8	2000	80	100	CF
011000730	7	22	9	3000	33	30	CF
011000750	7	22	9	3000	55	50	CF
011000775	7	22	9	3000	82,5	75	CF
0110007100	7	22	9	3000	110	100	CF
011000830	8	24	10	4000	43,5	30	CF
011000850	8	24	10	4000	72,5	50	CF
011000875	8	24	10	4000	108,75	75	CF
0110008100	8	24	10	4000	145	100	CF
011001030	10	28	14	6500	72	30	CF
011001050	10	28	14	6500	120	50	CF
011001075	10	28	14	6500	180	75	CF
0110010100	10	28	14	6500	240	100	CF
011001130	10	30	15	6500	69	30	CF
011001150	10	30	15	6500	115	50	CF
011001175	10	30	15	6500	172,5	75	CF
0110011100	10	30	15	6500	230	100	CF
011001250	12	36	16	9000	165	50	CF
011001275	12	36	16	9000	247,5	75	CF
0110012100	12	36	16	9000	330	100	CF
011001375	13	36	18	11000	300	75	CF
0110013100	13	36	18	11000	400	100	CF
011001675	16	45	22	17000	442,5	75	CF
0110016100	16	45	22	17000	590	100	CF

**CALIBRATED G70 GALVANIZED STEEL CHAIN**

High resistance G70 superior quality hot-dip Galvanized Steel chain for windlasses. Production controlled minimum breaking load. Bundle: 30, 50, 75 or 100 meters.



DIN766



HI QUALITY



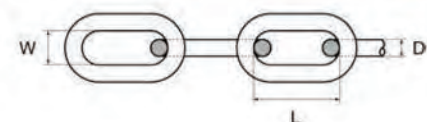
Cod.	D mm	L mm	W mm	Breaking Load Kg	Kg	L meters	UM
011070830	8	24	10	6000	43,5	30	CF
011070850	8	24	10	6000	72,5	50	CF
011070875	8	24	10	6000	108,75	75	CF
0110708100	8	24	10	6000	145	100	CF
011071050	10	28	14	9500	120	50	CF
011071075	10	28	14	9500	180	75	CF
0110710100	10	28	14	9500	240	100	CF
011071150	10	30	15	9500	115	50	CF
011071175	10	30	15	9500	172,50	75	CF
0110711100	10	30	15	9500	230	100	CF
011071250	12	36	16	13290	165	50	CF
011071275	12	36	16	13290	247,50	75	CF
0110712100	12	36	16	13290	330	100	CF

**LONG LINK GALVANIZED STEEL CHAIN**

Controlled high quality long link hot-dip Galvanized Steel chain. Bundle: 50 meters.



HI QUALITY

**GALVANIZED STEEL CHAIN SEGMENTS**

High quality Hot Dip Galvanized Steel long link chain segments.

Cod.	D mm	L meters	UM
011100602	6	2	PZ
011100802	8	2	PZ

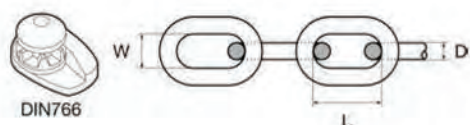


HI QUALITY



# CALIBRATED STAINLESS STEEL CHAIN

Controlled breaking load high quality calibrated  
Stainless Steel 316 chain.  
Bundle: 30,50,75 or 100 meters.



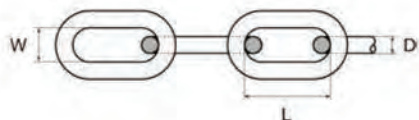
Cod.	D mm	L mm	W mm	Breaking Load Kg	Kg	L meters	UM
011500615	6	18,5	8	1600	11,3	15	CF
011500630	6	18,5	8	1600	22,5	30	CF
011500650	6	18,5	8	1600	37,5	50	CF
011500675	6	18,5	8	1600	56,25	75	CF
011500715	7	22	9	2500	15,8	15	CF
011500730	7	22	9	2500	31,5	30	CF
011500750	7	22	9	2500	52,5	50	CF
011500775	7	22	9	2500	78,8	75	CF
011500815	8	24	10	3200	21	15	CF
011500830	8	24	10	3200	42	30	CF
011500850	8	24	10	3200	70	50	CF
011500875	8	24	10	3200	105	75	CF
0115008100	8	24	10	3200	140	100	CF
011501015	10	28	14	5000	34,5	15	CF
011501030	10	28	14	5000	69	30	CF
011501050	10	28	14	5000	115	50	CF
011501075	10	28	14	5000	172,5	75	CF
0115010100	10	28	14	5000	230	100	CF
011501115	10	30	15	5000	33,8	15	CF
011501130	10	30	15	5000	67,5	30	CF
011501150	10	30	15	5000	112,5	50	CF
011501175	10	30	15	5000	168,8	75	CF
0115011100	10	30	15	5000	225	100	CF
011501215	12	36	16	7240	48	15	CF
011501250	12	36	16	7240	160	50	CF
011501275	12	36	16	7240	240	75	CF
0115012100	12	36	16	7240	320	100	CF
011501315	13	36	18	8000	58,5	15	CF
011501350	13	36	18	8000	195	50	CF
011501375	13	36	18	8000	292,5	75	CF
0115013100	13	36	18	8000	390	100	CF



# LONG LINK STAINLESS STEEL CHAIN

Long link Stainless Steel 316 chain in 50  
and 25 meters coils.

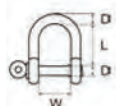
Cod.	D mm	L mm	W mm	Kg	L meters	UM
011520250	2	33	5	3	50	MT
011520350	3	26	6	4,5	50	MT
011520425	4	32	8	6,75	25	MT
011520525	5	35	9	10,75	25	MT



### D SHACKLE

Galvanized Steel D shackle.

Cod.	D mm	L mm	W mm	UM
0123506	6	25	13	PZ
0123508	8	32	16	PZ
0123510	10	38	19	PZ
0123512	12	49	24	PZ
0123514	14	53	28	PZ
0123516	16	61	33	PZ
0123520	20	72	38	PZ
0123522	22	92	43	PZ
0123525	25	97	51	PZ
0123528	28	120	57	PZ



### BOW SHACKLE

Galvanized Steel Bow shackle.

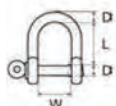
Cod.	D mm	L mm	W mm	UM
0123406	6	27	13	PZ
0123408	8	30	16	PZ
0123410	10	38	19	PZ
0123412	12	51	24	PZ
0123414	14	60	28	PZ
0123416	16	67	33	PZ
0123420	20	78	38	PZ
0123422	22	96	42	PZ
0123425	25	109	47	PZ
0123428	28	120	57	PZ



### TITAN D SHACKLE

Forged Hi-dipped Galvanized Steel Dee shackle for high loads. Yellow coloured pin. Working load stamped on the shackle.

Cod.	D mm	D Pin mm	Working Load Kg	Breaking Load Kg	UM
0123806	6	8	500	3000	PZ
0123808	8	10	750	4500	PZ
0123810	10	11	1000	6000	PZ
0123812	11	13	1500	9000	PZ
0123814	13	16	2000	12000	PZ
0123816	16	19	3250	19500	PZ
0123820	19	22	4750	28500	PZ
0123822	22	25	6500	39000	PZ
0123825	25	29	8500	51000	PZ
0123830	29	32	9500	57000	PZ
0123832	32	35	12000	72000	PZ



TITAN

### TITAN BOW SHACKLE

Forged Hi-dipped Galvanized Steel Bow shackle for high loads. Yellow coloured pin. Working load stamped on the shackle.

Cod.	D mm	D Pin mm	Working Load Kg	Breaking Load Kg	UM
0123706	6	8	500	3000	PZ
0123708	8	10	750	4500	PZ
0123710	10	11	1000	6000	PZ
0123712	11	13	1500	9000	PZ
0123714	13	16	2000	12000	PZ
0123716	16	19	3250	19500	PZ
0123720	19	22	4750	28500	PZ
0123722	22	25	6500	39000	PZ
0123725	25	29	8500	51000	PZ
0123730	29	32	9500	57000	PZ
0123732	32	35	12000	72000	PZ



TITAN

### D SHACKLE

Stainless Steel D shackle.

Cod.	D mm	L mm	W mm	UM
0120004	4	16	8	PZ
0120005	5	20	10	PZ
0120006	6	24	12	PZ
0120008	8	32	16	PZ
0120010	10	40	20	PZ
0120012	12	48	24	PZ
0120014	14	56	28	PZ
0120016	16	64	32	PZ



### BOW SHACKLE

Stainless Steel Bow shackle.

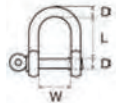
Cod.	D mm	L mm	W mm	UM
0120505	5	25	10	PZ
0120506	6	30	12	PZ
0120508	8	40	16	PZ
0120510	10	50	20	PZ
0120512	12	60	24	PZ
0120514	14	70	28	PZ



### D SHACKLE CAPTIVE PIN

Stainless Steel captive pin D shackle.

Cod.	D mm	L mm	W mm	UM
0120104	4	15	8	PZ
0120105	5	20	10	PZ
0120106	6	24	12	PZ
0120108	8	32	16	PZ
0120110	10	40	20	PZ



### BOW SHACKLE CAPTIVE PIN

Stainless Steel 316 captive pin Bow Shackle.

Cod.	D mm	L mm	W mm	UM
0120545	5	25	10	PZ
0120546	6	30	12	PZ
0120548	8	40	16	PZ
0120550	10	50	20	PZ



# GALVANIZED STEEL EYE-EYE SWIVEL

Galvanized Steel Eye-Eye swivel.

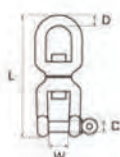


Cod.	D mm	L mm	W mm	UM
0122711	10	117	25	PZ
0122713	13	154	32	PZ
0122716	16	192	39	PZ
0122719	19	231	41	PZ



# GALVANIZED STEEL EYE-JAW SWIVEL

Galvanized Steel Eye-Jaw swivel.

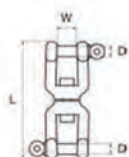


Cod.	D mm	L mm	W mm	UM
0122910	10	118	19	PZ
0122913	13	152	22	PZ
0122916	16	193	32	PZ
0122919	19	235	38	PZ



# GALVANIZED STEEL JAW-JAW SWIVEL

Galvanized Steel Jaw-Jaw swivel.



Cod.	D mm	L mm	W mm	UM
0122810	10	118	19	PZ
0122813	13	152	22	PZ
0122816	16	192	32	PZ
0122819	19	235	36	PZ



# STAINLESS STEEL EYE-EYE SWIVEL

Stainless Steel Eye-Eye swivel.

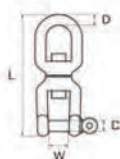


Cod.	D mm	L mm	W mm	UM
0121705	5	60	13	PZ
0121706	6	65	15	PZ
0121708	8	94	20	PZ
0121710	10	118	23	PZ



# STAINLESS STEEL EYE-JAW SWIVEL

Stainless Steel Eye-Jaw swivel.

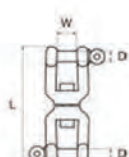


Cod.	D mm	L mm	W mm	UM
0121905	5	60	11	PZ
0121906	6	67	12	PZ
0121908	8	98	15	PZ
0121910	10	118	18	PZ



# STAINLESS STEEL JAW-JAW SWIVEL

Stainless Steel Jaw-Jaw swivel.



Cod.	D mm	L mm	W mm	UM
0121805	5	60	11	PZ
0121806	6	66	12	PZ
0121808	8	94	15	PZ
0121810	10	118	18	PZ



**STANDARD CARABINER**

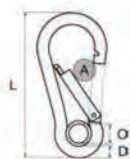
Stainless Steel 316 Standard Carabiner.



Cod.	D mm	L mm	A mm	UM
0211150	5	50	8	PZ
0211160	6	60	9	PZ
0211170	7	70	9	PZ
0211180	8	80	10	PZ
0211110	10	100	12	PZ
0211112	11	120	16	PZ
0211114	12	140	20	PZ
0211116	13	160	26	PZ

**STANDARD EYE CARABINER**

Stainless Steel 316 Standard Carabiner with eye.



Cod.	D mm	L mm	A mm	O mm	UM
0211350	5	50	8	7.5	PZ
0211360	6	60	9	9	PZ
0211370	7	70	9	10	PZ
0211380	8	80	10	11.5	PZ
0211310	10	100	12	14	PZ
0211312	11	120	16	16.5	PZ
0211314	12	140	20	18	PZ
0211316	13	160	26	20	PZ

**MTM STANDARD CARABINER**

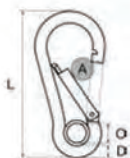
Highest marine 316 Stainless Steel Standard Carabiner. Outstanding quality control and finish for the most rugged use in sea water..Supplied on elegant presentation card.

Working Load (WL) tested and guaranteed.  
Breaking Load (BL) is 4 times Working Load.

Cod.	D mm	L mm	A mm	WL kg	BL Kg	UM
0211150C	5	50	8	90	360	PZ
0211160C	6	60	9	130	520	PZ
0211180C	8	80	10	180	720	PZ
0211110C	10	100	12	280	1120	PZ

**MTM STANDARD CARABINER EYE**

Highest marine 316 Stainless Steel Standard Carabiner with eye. Outstanding quality control and finish for the most rugged use in sea water. Supplied on elegant presentation card.

Working Load (WL) tested and guaranteed.  
Breaking Load (BL) is 4 times Working Load.

Cod.	D mm	L mm	A mm	O mm	WL Kg	BL Kg	UM
0211350C	5	50	8	7.5	90	360	PZ
0211360C	6	60	9	9	130	520	PZ
0211380C	8	80	10	11.5	180	720	PZ
0211310C	10	100	12	14	280	1120	PZ

**SIDE CARABINER**

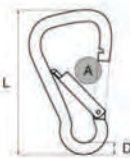
Stainless Steel 316 side wide opening carabiner. It prevents ropes from tangling.



Cod.	D mm	L mm	A mm	UM
0211791	8	80	22	PZ
0211792	10	100	24	PZ
0211793	11	120	26	PZ

**WIDE CARABINER**

Stainless Steel 316 wide opening carabiner.



Cod.	D mm	L mm	A mm	UM
0211891	8	85	18	PZ
0211892	10	100	19	PZ
0211893	11	125	26	PZ

**WIDE LOCK CARABINER**

Stainless Steel 316 wide opening screw lock carabiner.



Cod.	D mm	L mm	A mm	UM
0211860	6	60	10	PZ
0211880	8	80	14	PZ
0211810	10	100	20	PZ
0211812	11	120	24	PZ

**EYE WIDE LOCK CARABINER**

Stainless Steel 316 wide opening screw lock carabiner with eye.



Cod.	D mm	L mm	A mm	O mm	UM
0212060	6	60	10	9	PZ
0212080	8	80	14	11	PZ
0212010	10	100	20	14	PZ
0212012	11	120	24	18	PZ

### HOLLOW CLEAT

316 Stainless Steel mirror polished round rod shaped cleat.  
4 mounting holes hollow base.

Cod.	L mm	Wheelbase mm	UM
1112012	125	54	PZ
1112015	150	57	PZ
1112020	200	71	PZ
1112025	250	93	PZ
1112030	300	99	PZ



### SILHOUETTE CLEAT

316 Stainless Steel mirror polished flat anvil shaped cleat.  
4 mounting holes hollow base.

Cod.	L mm	Wheelbase mm	UM
1112412	125	40	PZ
1112415	150	52	PZ
1112420	200	57	PZ
1112425	250	54	PZ



### THIN CLEAT

316 Stainless Steel flat shaped mirror polished cleat.  
2 through mounting holes narrow base.  
It can be mounted in tight spaces.

Cod.	L mm	Wheelbase mm	UM
1112510	100	30	PZ
1112512	125	41	PZ
1112515	150	45	PZ
1112520	200	55	PZ
1112525	250	70	PZ



### FLAT CLEAT

Stainless Steel 316 mirror polished compact cleat.  
2 through mounting holes narrow base.  
It can be mounted in tight spaces.

Cod.	L mm	Wheelbase mm	UM
1113015	150	29	PZ
1113020	200	35	PZ
1113025	250	46	PZ



### SKANDIA CLEAT

Stainless Steel 316 flat anvil shaped mirror polished cleat.  
2 hidden metric stud holes narrow base.  
It can be mounted in tight spaces.

Cod.	L mm	Wheelbase mm	Stud Holes ø	UM
1112615	150	48	M8	PZ
1112620	205	69	M8	PZ
1112626	265	82	M10	PZ
1112631	310	79	M14	PZ



### DUNE CLEAT

316 Stainless Steel flat anvil shaped mirror polished cleat.  
2 hidden metric stud holes hollow base.

Cod.	L mm	Wheelbase mm	Stud Holes ø	UM
1112915	150	45	M6	PZ
1112920	200	59	M8	PZ
1112925	250	75	M10	PZ



### SILVER GATE CLEAT

316 Stainless Steel mirror polished gate shaped cleat.  
2 hidden metric stud holes hollow base.

Cod.	L mm	Wheelbase mm	Stud Holes ø	UM
1113103	160	53	M8	PZ
1113104	200	65	M8	PZ
1113105	250	80	M10	PZ



### DOUBLE SHAFT BOLLARD

316 Stainless Steel mirror polished double shaft bollard.  
2 hidden metric stud holes base.

Cod.	L mm	Wheelbase mm	Stud Holes ø	UM
1111020	200	76	M12	PZ
1111024	240	88	M12	PZ
1111030	300	128	M14	PZ
1111035	350	160	M14	PZ



### BOW POST

316 Stainless Steel through pin square bow cleat.  
4 mounting holes base.

Cod.	Base mm	UM
1112710	95 x 95	PZ
1112715	120 x 100	PZ



### LIGHT WEIGHT CLEAT

316 Stainless Steel flag-holder/cover-holder type cleat.  
2 mounting holes base.

Cod.	L mm	Wheelbase mm	UM
1113506	67	10	PZ
1113511	112	21	PZ



### SMOOTH CLEAT

Flat anvil shaped Anodized Aluminum cleat. 4 mounting holes hollow base.

Cod.	L mm	Wheelbase mm	UM
1112815	150	33	PZ
1112820	200	51	PZ
1112825	250	67	PZ



### CLASSIC YACHT CLEAT

Outstanding quality and finishing flat anvil shaped HS Anodized Aluminum cleat. 4 mounting holes hollow base.

Cod.	L mm	Wheelbase mm	UM
1111812	125	39	PZ
1111816	160	44	PZ
1111822	210	59	PZ
1111828	260	70	PZ
1111835	330	88	PZ



### LOW CLEAT

Low profile flat anvil shaped Anodized Aluminum cleat. 2 through mounting holes narrow base. It can be mounted in tight space.

Cod.	L mm	Wheelbase mm	UM
1111616	160	37	PZ
1111622	220	43	PZ



### CLOSED BASE CLEAT

Compact and elegant flat anvil shaped HS Anodized Aluminum cleat. Used on sailboats or when there is little space at the sides. 2 through mounting holes narrow base.

Cod.	L mm	Wheelbase mm	UM
1111650	80	20	PZ
1111651	100	26	PZ
1111652	125	32	PZ
1111653	150	38	PZ
1111654	200	52	PZ
1111655	250	60	PZ



### DOUBLE SHAFT BOLLARD

Classic double shaft Anodized Aluminum cleat. 2 hidden metric stud holes base.

Cod.	L mm	Wheelbase mm	Stud Holes ø	UM
1112216	160	89	M6	PZ
1112220	200	112	M10	PZ
1112225	250	147	M10	PZ



### NEW DOUBLE SHAFT BOLLARD

Outstanding quality and finishing classic double shaft Anodized Aluminum cleat. 2 hidden metric stud holes base.

Cod.	L mm	Wheelbase mm	Stud Holes ø	UM
1111213	130	75	M6	PZ
1111216	160	82	M8	PZ
1111223	230	118	M10	PZ
1111233	330	159	M14	PZ



### CLASSIC DOUBLE SHAFT BOLLARD

Chromed Bronze double shaft Classic mooring bollard cleat. 2 hidden metric stud holes base.

Cod.	L mm	Wheelbase mm	Stud Holes ø	UM
1101010	100	45	M6	PZ
1101013	140	63	M8	PZ
1101017	175	90	M10	PZ
1101020	200	106	M12	PZ



### NEW CLASSIC DOUBLE SHAFT BOLLARD

Chromed Bronze double shaft mooring bollard cleat. 2 hidden metric stud holes base.

Cod.	L mm	Wheelbase mm	Stud Holes ø	UM
1101216	160	88	M10	PZ
1101220	200	105	M12	PZ
1101225	250	136	M14	PZ



### WOODEN LEDGE CLEAT

Chromed Bronze double shaft Wooden ledge cleat. 2 hidden metric stud holes narrow base.

Cod.	L mm	Wheelbase mm	Stud Holes ø	UM
1101413	220	88	M8	PZ
1101417	260	109	M8	PZ
1101421	320	141	M10	PZ



### POP-UP CHROMED BRONZE CLEAT

Pop-Up Chromed Bronze mooring cleat. The bollard appears and disappears with a single hand's press. Recessed cylinder wheelbase 55 mm.

Cod.	L mm	UM
1114515	150	PZ



### POP-UP STAINLESS STEEL CLEAT

Pop-Up Stainless Steel mooring cleat. The bollard appears and disappears with a single hand's press. Recessed cylinder wheelbase 45/55/78 mm.

Cod.	L mm	Screws Wheelbase mm	UM
1114712	125	98	PZ
1114715	150	127	PZ
1114720	200	152	PZ



### FOLDABLE STAINLESS STEEL CLEAT

Foldable polished Stainless Steel mooring cleat. Does not require recess hole, can be lowered folding it.

Cod.	L mm	Largh mm	Screws Wheelbase mm	UM
1114912	120	40	67	PZ
1114917	155	54	86	PZ
1114921	215	74	118	PZ



### LONG D SHACKLE

Stainless Steel 316 Long Dee Shackle.

Cod.	D mm	L mm	W mm	UM
<b>0120804</b>	4	32	8	PZ
<b>0120805</b>	5	40	10	PZ
<b>0120806</b>	6	48	12	PZ
<b>0120808</b>	8	64	16	PZ
<b>0120810</b>	10	80	20	PZ



### LONG D SHACKLE CAPTIVE PIN

Stainless Steel 316 captive pin Long Dee Shackle.

Cod.	D mm	L mm	W mm	UM
<b>0120704</b>	4	32	8	PZ
<b>0120705</b>	5	40	10	PZ
<b>0120706</b>	6	48	12	PZ
<b>0120708</b>	8	64	16	PZ



### WIDE D SHACKLE

Stainless Steel 316 Wide Dee Shackle.

Cod.	D mm	L mm	W mm	UM
<b>0121106</b>	6	36	24	PZ
<b>0121108</b>	8	36	28	PZ
<b>0121110</b>	10	60	40	PZ
<b>0121112</b>	12	72	48	PZ



### TWISTED D SHACKLE

Stainless Steel 316 Twisted Dee Shackle.

Cod.	D mm	L mm	W mm	UM
<b>0121005</b>	5	30	10	PZ
<b>0121006</b>	6	36	12	PZ
<b>0121008</b>	8	40	16	PZ
<b>0121010</b>	10	50	20	PZ



### LONG D SHACKLE KEY PIN

Stainless Steel 316 captive key pin Long Dee Shackle.

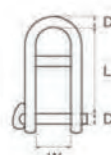
Cod.	D mm	L mm	W mm	UM
<b>0120905</b>	5	40	13	PZ
<b>0120906</b>	6	45	16	PZ
<b>0120908</b>	8	64	22	PZ



### LONG D SHACKLE KEY PIN B

Stainless Steel 316 captive key pin Long Dee Shackle with bar.

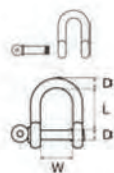
Cod.	D mm	L mm	W mm	UM
<b>0120915</b>	5	40	13	PZ
<b>0120916</b>	6	45	16	PZ
<b>0120918</b>	8	64	22	PZ



**MTM D SHACKLE**

Highest marine 316 Stainless Steel Dee Shackle.  
Outstanding quality control and finish for the most rugged use in sea water.  
Supplied on elegant presentation card.  
Working Load (WL) tested and guaranteed.  
Breaking Load (BL) is 4 times Working Load.

Cod.	D mm	L mm	W mm	WL Kg	BL kg	UM
0120005C	5	20	10	230	920	PZ
0120006C	6	24	12	330	1320	PZ
0120008C	8	32	16	600	2400	PZ
0120010C	10	40	20	930	3720	PZ
0120012C	12	48	24	1400	5600	PZ
0120014C	14	56	28	1800	7200	PZ

**MTM BOW SHACKLE**

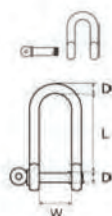
Highest marine 316 Stainless Steel Bow Shackle. Outstanding quality control and finish for the most rugged use in sea water. Supplied on elegant presentation card.  
Working Load (WL) tested and guaranteed.  
Breaking Load (BL) is 4 times Working Load.

Cod.	D mm	L mm	W mm	WL Kg	BL Kg	UM
0120506C	6	30	12	330	1320	PZ
0120508C	8	40	16	600	2400	PZ
0120510C	10	50	20	930	3720	PZ
0120512C	12	60	24	1400	5600	PZ
0120514C	14	70	28	1800	7200	PZ

**MTM LONG D SHACKLE**

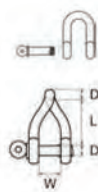
Highest marine 316 Stainless Steel Long Dee Shackle. Outstanding quality control and finish for the most rugged use in sea water. Supplied on elegant presentation card.  
Working Load (WL) tested and guaranteed.  
Breaking Load (BL) is 4 times Working Load.

Cod.	D mm	L mm	W mm	WL Kg	BL Kg	UM
0120805C	5	40	10	230	920	PZ
0120806C	6	48	12	330	1320	PZ
0120808C	8	64	16	600	2400	PZ
0120810C	10	80	20	930	3720	PZ

**MTM TWISTED D SHACKLE**

Highest marine 316 Stainless Steel Twisted Dee Shackle. Outstanding quality control and finish for the most rugged use in sea water. Supplied on elegant presentation card.  
Working Load (WL) tested and guaranteed.  
Breaking Load (BL) is 4 times Working Load.

Cod.	D mm	L mm	W mm	WL Kg	BL Kg	UM
0121005C	5	30	10	230	920	PZ
0121006C	6	36	12	330	1320	PZ
0121008C	8	40	16	600	2400	PZ
0121010C	10	50	20	930	3720	PZ

**MTM EXTRA WIDE D SHACKLE**

Highest marine 316 Stainless Steel Wide Dee Shackle. Outstanding quality control and finish for the most rugged use in sea water. Supplied on elegant presentation card.  
Working Load (WL) tested and guaranteed.  
Breaking Load (BL) is 4 times Working Load.

Cod.	D mm	L mm	W mm	WL Kg	BL Kg	UM
0121106C	6	36	24	330	1320	PZ
0121108C	8	36	28	600	2400	PZ
0121110C	10	60	40	930	3720	PZ
0121112C	12	72	48	1400	5600	PZ

**MTM KEY PIN LONG D SHACKLE**

Highest marine captive key pin 316 Stainless Steel Long Dee Shackle.  
Outstanding quality control and finish for the most rugged use in sea water.  
Supplied on elegant presentation card.  
Working Load (WL) tested and guaranteed.  
Breaking Load (BL) is 4 times Working Load.

Cod.	D mm	L mm	W mm	WL Kg	BL Kg	UM
0120905C	5	40	13	230	920	PZ
0120906C	6	45	16	330	1320	PZ
0120908C	8	64	22	600	2400	PZ

**MTM KEY PIN LONG D SHACKLE B**

Highest marine captive key pin 316 Stainless Steel Long Dee Shackle with bar.  
Outstanding quality control and finish for the most rugged use in sea water.  
Supplied on elegant presentation card.  
Working Load (WL) tested and guaranteed.  
Breaking Load (BL) is 4 times Working Load.

Cod.	D mm	L mm	W mm	WL Kg	BL Kg	UM
0120915C	5	40	13	230	920	PZ
0120916C	6	45	16	330	1320	PZ
0120918C	8	64	22	600	2400	PZ

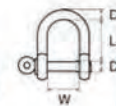


### WICHARD D SHACKLE

Wichard Stainless Steel 316 self-locking Dee Shackle.  
Breaking load (BL) tested and guaranteed.



Cod.	D mm	L mm	W mm	BL Kg	UM
3521004	4	13	8	700	PZ
3521005	5	16	10	1000	PZ
3521006	6	20	12	1600	PZ
3521008	8	26	16	2700	PZ
3521010	10	33	20	4300	PZ
3521012	12	39	24	6000	PZ



### WICHARD CAPTIVE PIN D SHACKLE

Wichard standard Stainless Steel 316 self-locking captive pin Dee Shackle.  
Breaking load (BL) tested and guaranteed.



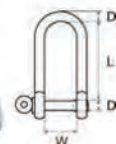
Cod.	D mm	L mm	W mm	BL Kg	UM
3521024	4	13	8	1000	PZ
3521025	5	16	10	1500	PZ
3521026	6	20	12	2200	PZ
3521028	8	26	16	3600	PZ
3521030	10	33	20	5200	PZ

### WICHARD LONG D SHACKLE

Wichard Stainless Steel 316 self-locking Long Dee Shackle.  
Breaking load (BL) tested and guaranteed.



Cod.	D mm	L mm	W mm	BL Kg	UM
3521104	4	22	8	700	PZ
3521105	5	29	10	1000	PZ
3521106	6	33	12	1600	PZ
3521108	8	45	16	2700	PZ
3521110	10	55	20	4300	PZ



### WICHARD CAPTIVE PIN LONG D SHACKLE

Wichard Stainless Steel 316 self-locking captive pin Long Dee Shackle.  
Breaking load (BL) tested and guaranteed.



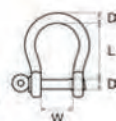
Cod.	D mm	L mm	W mm	BL Kg	UM
3521124	4	31	8	1000	PZ
3521125	5	39	10	1500	PZ
3521126	6	46	12	2200	PZ
3521128	8	62	16	3600	PZ

### WICHARD BOW SHACKLE

Wichard Stainless Steel 316 self-locking Bow Shackle.  
Breaking load (BL) tested and guaranteed.



Cod.	D mm	L mm	W mm	BL Kg	UM
3521204	4	18	8	700	PZ
3521205	5	23	10	1000	PZ
3521206	6	28	12	1600	PZ
3521208	8	37	16	2700	PZ
3521210	10	47	20	4300	PZ
3521212	12	55	24	6000	PZ



### WICHARD CAPTIVE PIN BOW SHACKLE

Wichard Stainless Steel 316 self-locking captive pin Bow Shackle.  
Breaking load (BL) tested and guaranteed.



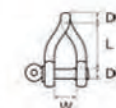
Cod.	D mm	L mm	W mm	BL Kg	UM
3521224	4	18	8	1000	PZ
3521225	5	23	10	1500	PZ
3521226	6	28	12	2200	PZ
3521228	8	37	16	3700	PZ
3521230	10	47	20	5200	PZ

### WICHARD TWISTED D SHACKLE

Wichard Stainless Steel 316 self-locking Twisted Shackle.  
Breaking load (BL) tested and guaranteed.



Cod.	D mm	L mm	W mm	BL Kg	UM
3521305	5	26	10	1100	PZ
3521306	6	30	12	1500	PZ
3521308	8	40	16	3000	PZ



### WICHARD CAPTIVE PIN TWISTED D SHACKLE

Wichard Stainless Steel 316 self-locking captive pin Twisted Shackle.  
Breaking load (BL) tested and guaranteed.



Cod.	D mm	L mm	W mm	BL Kg	UM
3521325	5	38	10	1500	PZ
3521326	6	44	12	2100	PZ
3521328	8	59	16	3700	PZ

### WICHARD ALLEN HEAD SHACKLE

Wichard Stainless Steel 316 self-locking Allen Head Shackle.  
Breaking load (BL) tested and guaranteed.



Cod.	D mm	L mm	W mm	BL Kg	UM
3521506	6	19	12	1600	PZ
3521508	8	26	16	2700	PZ
3521510	10	33	20	4300	PZ

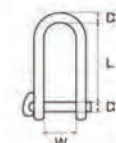


### WICHARD KEY PIN LONG D SHACKLE

Wichard Stainless Steel 316 key pin Long Dee Shackle.  
Breaking load (BL) tested and guaranteed.



Cod.	D mm	L mm	W mm	BL Kg	UM
3520905	5	37	12	1100	PZ
3520906	6	45	16	1500	PZ
3520908	8	59	21	2300	PZ

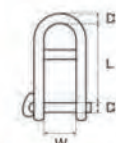


### WICHARD KEY PIN LONG D SHACKLE B

Wichard Stainless Steel 316 key pin Long Dee Shackle with bar.  
Breaking load (BL) tested and guaranteed.



Cod.	D mm	L mm	W mm	BL Kg	UM
3520915	5	37	12	1100	PZ
3520916	6	45	16	1500	PZ
3520918	8	59	21	2300	PZ



**STAMPED D SHACKLE**

Stainless Steel 316 stamped D shackle.

Cod.	D mm	L mm	W mm	UM
0121515	4	15	10	PZ
0121517	5	17	12	PZ
0121524	4	20	10	PZ
0121525	5	24	16	PZ
0121526	5	25	13.5	PZ
0121540	5	36	16	PZ
0121541	5	37.5	21	PZ

**STAMPED RING D SHACKLE**

Stainless Steel 316 stamped D shackle with ring.

Cod.	D mm	L mm	W mm	UM
0121502	4	15	10	PZ
0121503	4	24	12	PZ
0121504	5	17	12	PZ
0121505	5	25	16	PZ
0121506	5	37	22	PZ

**STAMPED TWISTED T SHACKLE**

Stainless Steel 316 stamped Twisted shackle.

Cod.	D mm	L mm	W mm	UM
0121552	5	22	12	PZ
0121555	5	33	12	PZ
0121557	6	36	14	PZ

**KEY PIN STAMPED D SHACKLE**

Stainless Steel 316 key pin stamped D shackle.

Cod.	D mm	L mm	W mm	UM
0121562	4	22	11	PZ
0121563	5	36	15	PZ
0121564	6	40	15	PZ

**KEY PIN STAMPED D SHACKLE B**

Stainless Steel 316 key pin stamped D shackle with bar.

Cod.	D mm	D1 mm	L mm	L1 mm	W mm	UM
0121573	5	3	21	12	15	PZ
0121574	6	3	25	12	15	PZ
0121575	8	3	26	12	20	PZ

**STAMPED HS NARROW D SHACKLE**316 Stainless Steel stamped narrow HS D shackle.  
Tested working load (WL) and breaking load (BL).

Cod.	D mm	L mm	W mm	WL Kg	BL Kg	UM
0121614	4	20	10	150	600	PZ
0121615	5	20	11	250	1000	PZ
0121616	5	22	15	275	1100	PZ
0121617	6	25	17	325	1300	PZ

**STAMPED HS WIDE D SHACKLE**Stainless Steel 316 stamped wide HS D shackle.  
Tested working load (WL) and breaking load (BL).

Cod.	D mm	L mm	W mm	WL Kg	BL Kg	UM
0121624	4	16	8	150	600	PZ
0121625	5	20	8	250	1000	PZ
0121626	5	22	12	275	1100	PZ
0121627	6	25	13	325	1300	PZ

**STAMPED HS SCREW D SHACKLE**Stainless Steel 316 stamped HS D shackle with screw.  
Tested working load (WL) and breaking load (BL).

Cod.	D mm	L mm	W mm	WL Kg	BL Kg	UM
0121664	4	16	10	125	600	PZ
0121665	5	20	10	250	1000	PZ
0121666	6	25	15	325	1300	PZ

**STAMPED HS RING D SHACKLE**Stainless Steel 316 stamped HS D shackle with ring extra.  
Tested working load (WL) and breaking load (BL).

Cod.	D mm	L mm	W mm	WL Kg	BL Kg	UM
0121507	5	17	8	187	750	PZ
0121508	5	21	9	187	750	PZ
0121509	5	36	14	250	1000	PZ
0121510	5	36	18	250	1000	PZ



### STANDARD CARABINER

Cod.	D mm	L mm	A mm	UM
0211150	5	50	8	PZ
0211160	6	60	9	PZ
0211170	7	70	9	PZ
0211180	8	80	10	PZ
0211110	10	100	12	PZ
0211112	11	120	16	PZ
0211114	12	140	20	PZ
0211116	13	160	26	PZ



### STANDARD EYE CARABINER

316 Stainless Steel Standard Carabiner with eye.

Cod.	D mm	L mm	A mm	O mm	UM
0211350	5	50	8	7.5	PZ
0211360	6	60	9	9	PZ
0211370	7	70	9	10	PZ
0211380	8	80	10	11.5	PZ
0211310	10	100	12	14	PZ
0211312	11	120	16	16.5	PZ
0211314	12	140	20	18	PZ
0211316	13	160	26	20	PZ



### SIDE CARABINER

316 Stainless Steel side wide opening carabiner. It prevents ropes from tangling.

Cod.	D mm	L mm	A mm	UM
0211791	8	80	22	PZ
0211792	10	100	24	PZ
0211793	11	120	26	PZ



### WIDE CARABINER

316 Stainless Steel wide opening carabiner.

Cod.	D mm	L mm	A mm	UM
0211891	8	85	18	PZ
0211892	10	100	19	PZ
0211893	11	125	26	PZ



### WIDE LOCK CARABINER

316 Stainless Steel wide opening screw lock carabiner.

Cod.	D mm	L mm	A mm	UM
0211860	6	60	10	PZ
0211880	8	80	14	PZ
0211810	10	100	20	PZ
0211812	11	120	24	PZ



### EYE WIDE LOCK CARABINER

316 Stainless Steel wide opening screw lock carabiner with eye.

Cod.	D mm	L mm	A mm	O mm	UM
0212060	6	60	10	9	PZ
0212080	8	80	14	11	PZ
0212010	10	100	20	14	PZ
0212012	11	120	24	18	PZ



### WIDE CARABINER

Highest marine 316 Stainless Steel Standard Carabiner. Outstanding quality control and finish for the most rugged use in sea water. Supplied on elegant presentation card. Working Load (WL) tested and guaranteed. Breaking Load (BL) is 4 times Working Load.

Cod.	D mm	L mm	A mm	WL Kg	BL Kg	UM
0211150C	5	50	8	90	360	PZ
0211160C	6	60	9	130	520	PZ
0211180C	8	80	10	180	720	PZ
0211110C	10	100	12	280	1120	PZ



### EYE WIDE LOCK CARABINER

Highest marine 316 Stainless Steel Standard Carabiner with eye. Outstanding quality control and finish for the most rugged use in sea water. Supplied on elegant presentation card. Working Load (WL) tested and guaranteed. Breaking Load (BL) is 4 times Working Load.

Cod.	D mm	L mm	A mm	O mm	WL Kg	BL Kg	UM
0211350C	5	50	8	7.5	90	360	PZ
0211360C	6	60	9	9	130	520	PZ
0211380C	8	80	10	11.5	180	720	PZ
0211310C	10	100	12	14	280	1120	PZ



### KONG STANDARD CARABINER

316 Stainless Steel Carabiner with antigrip hooking system.  
Avoids tangling of lines.

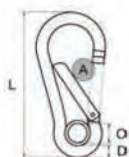
Cod.	D mm	L mm	A mm	UM
0211605	5	50	7	PZ
0211606	6	60	8	PZ
0211607	7	72	10	PZ
0211608	8	80	10	PZ
0211610	10	103	15,5	PZ
0211612	10,5	121	17	PZ
0211613	13	160	30	PZ



### KONG STANDARD CARABINER EYE

316 Stainless Steel Carabiner with eye and antigrip hooking system.  
Avoids tangling of lines.

Cod.	D mm	L mm	A mm	O mm	UM
0211615	5	50	7	6	PZ
0211616	6	60	8	7	PZ
0211617	7	72	10	9	PZ
0211618	8	80	10	10	PZ
0211620	10	103	15,5	12	PZ
0211622	10,5	121	17	15	PZ
0211623	13	160	30	22	PZ



### KONG SIDE CARABINER

316 Stainless Steel Carabiner with wide side opening.  
Antigrip hooking system.  
Avoids tangling of lines.

Cod.	D mm	L mm	A mm	UM
0211781	8	80	22	PZ
0211711	10	100	24	PZ
0211712	11	120	26	PZ



### KONG SIDE CARABINER EYE

316 Stainless Steel Carabiner with wide side opening and eye.  
Antigrip hooking system. Avoids tangling of lines.

Cod.	D mm	L mm	A mm	O mm	UM
0211981	8	80	24	11	PZ
0211911	10	100	24	14	PZ
0211912	11	120	26	18	PZ



### KONG WIDE CARABINER

Stainless Steel 316 Carabiner with wide opening.  
Antigrip hooking system.  
Avoids tangling of lines.

Cod.	D mm	L mm	A mm	UM
0212150	5	52	9	PZ
0212160	6	65	12	PZ
0212180	8	85	18	PZ
0212110	10	100	19	PZ
0212112	11	125	26	PZ



### KONG WIDE CARABINER EYE

316 Stainless Steel Carabiner with wide opening and eye.  
Antigrip hooking system.  
Avoids tangling of lines.

Cod.	D mm	L mm	A mm	O mm	UM
0212350	5	52	9	8	PZ
0212360	6	65	12	9	PZ
0212380	8	85	18	11	PZ
0212310	10	100	19	14	PZ
0212312	11	125	26	18	PZ



### KONG OUT LOCK CARABINER

316 Stainless Steel Carabiner with outward opening and sliding lock.  
Antigrip hooking system. Avoids tangling of lines.

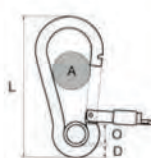
Cod.	D mm	L mm	A mm	UM
0211780	8	80	20	PZ
0211710	10	100	24	PZ



### KONG OUT LOCK CARABINER EYE

316 Stainless Steel Carabiner with outward opening, sliding lock and eye.  
Antigrip hooking system. Avoids tangling of lines.

Cod.	D mm	L mm	A mm	O mm	UM
0211980	8	80	20	11,5	PZ
0211910	10	100	24	14	PZ



### SWIVEL EYE STANDARD SNAP

316 Stainless Steel swiveling eye snap.

Cod.	L mm	O mm	UM
<b>0211565</b>	68	13	PZ
<b>0211585</b>	85	18	PZ



### SWIVEL EYE FLAT SNAP

316 Stainless Steel swiveling eye flat snap.

Cod.	L mm	O mm	UM
<b>0211660</b>	56	10	PZ
<b>0211690</b>	88	18	PZ



### SWIVEL STANDARD EYE BOLT SNAP

316 Stainless Steel bolt snap hook with swivel eye.

Cod.	L mm	O mm	UM
<b>0211506</b>	64	10	PZ
<b>0211508</b>	80	13	PZ



### SWIVEL SQUARE EYE BOLT SNAP

316 Stainless Steel bolt snap hook with swivel belt loop.

Cod.	L mm	O mm	UM
<b>0211516</b>	61	13	PZ
<b>0211518</b>	81	21	PZ



### FIXED EYE SNAP

316 Stainless Steel fixed eye snap.

Cod.	L mm	O mm	UM
<b>0211453</b>	53	10	PZ
<b>0211473</b>	73	16	PZ



### BELT SNAP

316 Stainless Steel snap with belt loop.

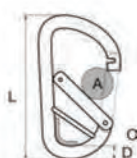
Cod.	A mm	C mm	UM
<b>0211450</b>	48	25	PZ



### SECURITY SPRING HOOK SNAP

Security spring hook snap with belt/line eyelet for safety harnesses and boson's wraps on sailboats. Rugged 316 Stainless Steel construction.

Cod.	D mm	L mm	A mm	O mm	UM
<b>0212580</b>	8	80	14	16	PZ
<b>0212510</b>	10	100	20	20	PZ



### FLAT SECURITY SPRING HOOK SNAP

Security spring hook snap with belt/line eyelet for safety harnesses and boson's wraps on sailboats. With lock lever and composite protection. Rugged 316 Stainless Steel construction.

Cod.	L mm	A mm	O mm	UM
<b>0212611</b>	100	16	24	PZ



**OPEN END JIB SNAP HOOK**

Stainless Steel 316 open end spring gate jib snap hook.  
Used for attaching the jib onto the bow eye bolt, it is sewn on a belt or spliced on a line and then beated again.

Cod.	L mm	O mm	UM
0222252	52	8	PZ
0222265	65	10	PZ

**CLOSED END JIB SNAP HOOK**

Stainless Steel 316 closed end spring gate jib snap hook.  
Used for attaching the jib onto the bow eye bolt, it is sewn on a belt or spliced on a line.

Cod.	L mm	O mm	UM
0222350	50	7	PZ
0222370	70	9	PZ
0222310	100	14	PZ

**FIXED EYE SPI SNAP SHACKLE**

Stainless Steel 316 open end spring gate jib snap hook.  
Used for attaching the jib onto the bow eye bolt, it is sewn on a belt or spliced on a line and then beated again.

Cod.	L mm	O mm	UM
0222550	55	9	PZ
0222560	75	12	PZ
0222590	99	15	PZ

**SWIVEL EYE SPI SNAP SHACKLE**

Stainless Steel 316 swivel spi snap shackle.  
Used for the spinnaker's or jib's sheets and halyards. The sheet/halyard may be spliced or knotted. The swiveling allows the spinnaker's studs to fit into the correct position when hoisting. Also used for attaching high and low sheets onto the spinnaker pole.

Cod.	L mm	O mm	UM
0222670	70	12	PZ
0222690	90	16	PZ
0222613	127	22	PZ

**CLEVIS PIN SWIVEL EYE SPI SNAP SHACKLE**

Stainless Steel 316 swivel snap shackle with clevis pin.  
Used for the spinnaker's or jib's sheets and halyards. In case of spliced halyards, the shackle pin can be easily replaced if worn out. The swiveling allows the spinnaker's studs to fit into the correct position when hoisting. Also used for attaching low and high sheets onto the spinnaker pole.

Cod.	L mm	O mm	UM	€
0222770	74	12	PZ	6.10
0222790	94	14	PZ	9.60
0222713	138	22	PZ	18.30

**MTM OPEN END JIB SNAP HOOK**

Highest marine 316 Stainless Steel open end jib snap hook.  
Outstanding quality control and finish for the most rugged use in sea water. Supplied on elegant presentation card.  
Working Load (WL) tested and guaranteed.  
Breaking Load (BL) is 4 times Working Load.

Cod.	L mm	O mm	WL Kg	BL Kg	UM
0222252C	50	9	90	360	PZ
0222265C	65	9	120	480	PZ

**MTM CLOSED END SNAP HOOK**

Highest marine grade 316 Stainless Steel closed end snap.  
Outstanding quality control and finish for the most rugged use in sea water. Supplied on elegant presentation card.  
Working Load (WL) tested and guaranteed.  
Breaking Load (BL) is 4 times Working Load.

Cod.	L mm	O mm	WL Kg	BL Kg	UM
0222350C	50	7	65	260	PZ
0222370C	70	9	125	500	PZ
0222310C	100	14	225	900	PZ

**MTM FIXED BAIL SNAP SHACKLE**

Highest marine grade 316 Stainless Steel fixed bail snap.  
Outstanding quality control and finish for the most rugged use in sea water. Supplied on elegant presentation card.

Working Load (WL) tested and guaranteed.  
Breaking Load (BL) is 4 times Working Load.

Cod.	L mm	O mm	WL Kg	BL Kg	UM
0222560C	70	20	450	1800	PZ
0222590C	100	20	830	3320	PZ

**MTM SWIVEL SNAP SHACKLE**

Highest marine grade 316 Stainless Steel swivel snap.  
Outstanding quality control and finish for the most rugged use in sea water. Supplied on elegant presentation card.

Working Load (WL) tested and guaranteed.  
Breaking Load (BL) is 4 times Working Load.

Cod.	L mm	O mm	WL Kg	BL Kg	UM
0222670C	70	12	160	640	PZ
0222690C	90	16	220	880	PZ
0222613C	127	22	400	1600	PZ

**MTM CLEVIS PIN SWIVEL EYE SPI SNAP SHACKLE**

Highest marine 316 Stainless Steel swivel eye spi snap shackle with clevis pin. Outstanding quality control and finish for the most rugged use in sea water. Supplied on elegant presentation card.

Working Load (WL) tested and guaranteed.  
Breaking Load (BL) is 4 times Working Load.

Cod.	L mm	O mm	WL Kg	BL Kg	UM	€
0222770C	74	12	160	640	PZ	7.60
0222790C	94	12	220	880	PZ	11.20
0222713C	138	22	400	1600	PZ	21.30



### HEX HEAD MACHINE SCREWS DIN 933

Stainless Steel DIN 933 A2 metric hex head machine screw.



Cod.	mm	Pezzi / CF	UM
609330052010	5x20	100	PZ
609330053010	5x30	100	PZ
609330053505	5x35	50	PZ
609330054005	5x40	50	PZ
609330055005	5x50	50	PZ
609330062005	6x20	50	PZ
609330063005	6x30	50	PZ
609330063505	6x35	50	PZ
609330064005	6x40	50	PZ
609330065005	6x50	50	PZ
609330066005	6x60	50	PZ
609330067002	6x70	20	PZ
609330068002	6x80	20	PZ
609330610002	6x100	20	PZ
609330082005	8x20	50	PZ
609330083005	8x30	50	PZ
609330084005	8x40	50	PZ
609330085005	8x50	50	PZ
609330086002	8x60	20	PZ
609330087002	8x70	20	PZ
609330088002	8x80	20	PZ
609330810001	8x100	10	PZ
609330103002	10x30	20	PZ
609330104002	10x40	20	PZ
609330105002	10x50	20	PZ
609330106002	10x60	20	PZ
609330107002	10x70	20	PZ
609330108002	10x80	20	PZ
609331010001	10x100	10	PZ
609330128001	12x80	10	PZ
609331210001	12x100	10	PZ
609331212001	12x120	10	PZ

### PAN HEAD MACHINE SCREWS DIN 84

Stainless Steel DIN 84 A2 metric round head machine screw.



Cod.	mm	Pezzi / CF	UM
600840031410	3x14	100	PZ
600840032010	3x20	100	PZ
600840032510	3x25	100	PZ
600840033010	3x30	100	PZ
600840042010	4x20	100	PZ
600840042510	4x25	100	PZ
600840043010	4x30	100	PZ
600840043510	4x35	100	PZ
600840044010	4x40	100	PZ
600840045010	4x50	100	PZ
600840052010	5x20	100	PZ
600840052510	5x25	100	PZ
600840053010	5x30	100	PZ
600840053505	5x35	50	PZ
600840054005	5x40	50	PZ
600840055005	5x50	50	PZ
600840056005	5x60	50	PZ
600840062005	6x20	50	PZ
600840063005	6x30	50	PZ
600840064005	6x40	50	PZ
600840065005	6x50	50	PZ
600840066005	6x60	50	PZ
600840068002	6x80	20	PZ
600840610002	6x100	20	PZ
600840083005	8x30	50	PZ
600840084005	8x40	50	PZ
600840085005	8x50	50	PZ
600840086002	8x60	20	PZ
600840088002	8x80	20	PZ
600840810001	8x100	10	PZ

### SLOTTED FLAT HEAD MACHINE SCREWS DIN 963

Stainless Steel DIN 963 A2 metric slotted head machine screw.



Cod.	mm	Pezzi / CF	UM
609630031410	3x14	100	PZ
609630032010	3x20	100	PZ
609630032510	3x25	100	PZ
609630033010	3x30	100	PZ
609630042010	4x20	100	PZ
609630042510	4x25	100	PZ
609630043010	4x30	100	PZ
609630043510	4x35	100	PZ
609630044010	4x40	100	PZ
609630045010	4x50	100	PZ
609630052010	5x20	100	PZ
609630052510	5x25	100	PZ
609630053010	5x30	100	PZ
609630053505	5x35	50	PZ
609630054005	5x40	50	PZ
609630055005	5x50	50	PZ
609630056005	5x60	50	PZ
609630062005	6x20	50	PZ
609630063005	6x30	50	PZ
609630064005	6x40	50	PZ
609630065005	6x50	50	PZ
609630066005	6x60	50	PZ
609630068002	6x80	20	PZ
609630610002	6x100	20	PZ
609630083005	8x30	50	PZ
609630084005	8x40	50	PZ
609630085005	8x50	50	PZ
609630086002	8x60	20	PZ
609630088002	8x80	20	PZ
609630810001	8x100	10	PZ

### SLOTTED OVAL HEAD MACHINE SCREWS DIN 964

Stainless Steel DIN 964 A2 metric slotted oval head machine screw.



Cod.	mm	Pezzi / CF	UM
609640031410	3x14	100	PZ
609640032010	3x20	100	PZ
609640032510	3x25	100	PZ
609640033010	3x30	100	PZ
609640042010	4x20	100	PZ
609640042510	4x25	100	PZ
609640043010	4x30	100	PZ
609640043510	4x35	100	PZ
609640044010	4x40	100	PZ
609640045010	4x50	100	PZ
609640052010	5x20	100	PZ
609640052510	5x25	100	PZ
609640053010	5x30	100	PZ
609640053505	5x35	50	PZ
609640054005	5x40	50	PZ
609640055005	5x50	50	PZ
609640056005	5x60	50	PZ
609640062005	6x20	50	PZ
609640063005	6x30	50	PZ
609640064005	6x40	50	PZ
609640065005	6x50	50	PZ
609640066005	6x60	50	PZ
609640068002	6x80	20	PZ
609640610002	6x100	20	PZ
609640083005	8x30	50	PZ
609640084005	8x40	50	PZ
609640085005	8x50	50	PZ
609640086002	8x60	20	PZ
609640088002	8x80	20	PZ
609640810001	8x100	10	PZ

### SOCKET HEAD MACHINE SCREWS DIN 912

Stainless Steel DIN 912 A2 metric socket head machine screw.



Cod.	mm	Pezzi / CF	UM
609120052005	5x20	50	PZ
609120052505	5x25	50	PZ
609120053005	5x30	50	PZ
609120053505	5x35	50	PZ
609120054005	5x40	50	PZ
609120055005	5x50	50	PZ
609120056005	5x60	50	PZ
609120062005	6x20	50	PZ
609120062505	6x25	50	PZ
609120063005	6x30	50	PZ
609120064005	6x40	50	PZ
609120065005	6x50	50	PZ
609120066002	6x60	20	PZ
609120068002	6x80	20	PZ
609120610001	6x100	10	PZ
609120082002	8x20	20	PZ
609120083002	8x30	20	PZ
609120084002	8x40	20	PZ
609120085002	8x50	20	PZ
609120086002	8x60	20	PZ
609120088001	8x80	10	PZ
609121010001	10x100	10	PZ

### HEX HEAD PARTLY THREADED MACHINE BOLTS DIN 931

Stainless Steel DIN 931 A2 metric hex head partly threaded machine screw.



Cod.	mm	Pezzi / CF	UM
609310065002	6x50	20	PZ
609310066002	6x60	20	PZ
609310067002	6x70	20	PZ
609310068002	6x80	20	PZ
609310610001	6x100	10	PZ
609310612001	6x120	10	PZ
609310086001	8x60	10	PZ
609310087001	8x70	10	PZ
609310088001	8x80	10	PZ
609310810001	8x100	10	PZ
609310812001	8x120	10	PZ
609310815001	8x150	10	PZ
609310108001	10x80	10	PZ
609311010001	10x100	10	PZ
609311015001	10x150	10	PZ
609311020001	10x200	10	PZ
609310128001	12x80	10	PZ
609311210001	12x100	10	PZ
609311215001	12x150	10	PZ
609311220001	12x200	10	PZ

**HEX NUTS DIN 934**

Stainless Steel DIN 934 A2 hex nut.



Cod.	mm	Pezzi / CF	UM
620093400310	M3	100	PZ
620093400410	M4	100	PZ
620093400510	M5	100	PZ
620093400610	M6	100	PZ
620093400810	M8	100	PZ
620093401005	M10	50	PZ
620093401205	M12	50	PZ
620093401402	M14	20	PZ
620093401602	M16	20	PZ
620093401801	M18	10	PZ

**NYLOCK NUTS DIN 985**

Stainless Steel DIN 985 A2 nylock nut.



Cod.	mm	Pezzi / CF	UM
620098500405	M4	50	PZ
620098500505	M5	50	PZ
620098500605	M6	50	PZ
620098500805	M8	50	PZ
620098501005	M10	50	PZ
620098501202	M12	20	PZ
620098501401	M14	10	PZ

**CAP NUTS DIN 1587**

Stainless Steel DIN 1587 A2 cap nut.



Cod.	mm	Pezzi / CF	UM
620158700405	M4	50	PZ
620158700505	M5	50	PZ
620158700605	M6	50	PZ
620158700802	M8	20	PZ
620158701002	M10	20	PZ
620158701202	M12	20	PZ
620158701401	M14	10	PZ

**WING NUTS DIN 315**

Stainless Steel DIN 315 A2 wing nut.



Cod.	mm	Pezzi / CF	UM
620031500505	M5	50	PZ
620031500605	M6	50	PZ
620031500802	M8	20	PZ
620031501002	M10	20	PZ
620031501201	M12	10	PZ

**FLAT WASHERS DIN 125**

Stainless Steel DIN 125 A2 flat washer.



Cod.	mm	Pezzi / CF	UM
625011250310	D.3	100	PZ
625011250410	D.4	100	PZ
625011250510	D.5	100	PZ
625011250610	D.6	100	PZ
625011250810	D.8	100	PZ
625011251010	D.10	100	PZ
625011251205	D.12	50	PZ
625011251405	D.14	50	PZ
625011251602	D.16	20	PZ
625011251802	D.18	20	PZ

**FENDER WASHERS**

Stainless Steel A2 fender washer.



Cod.	mm	Pezzi / CF	UM
625000039010	3x9	100	PZ
625000041210	4x12	100	PZ
625000051510	5x15	100	PZ
625000061810	6x18	100	PZ
625000082410	8x24	100	PZ
625000103005	10x30	50	PZ
625000123602	12x36	20	PZ
625000144202	14x42	20	PZ

**LOCK WASHERS DIN 127**

Stainless Steel DIN 127 A2 lock washer.



Cod.	mm	Pezzi / CF	UM
625011270310	D.3	100	PZ
625011270410	D.4	100	PZ
625011270510	D.5	100	PZ
625011270610	D.6	100	PZ
625011270810	D.8	100	PZ
625011271010	D.10	100	PZ
625011271205	D.12	50	PZ
625011271405	D.14	50	PZ
625011271602	D.16	20	PZ
625011271802	D.18	20	PZ

**1 METER THREADED ROD DIN 975**

Stainless Steel DIN 975 A2 1 meter threaded rod.



Cod.	mm	UM
6300997504	M4	PZ
6300997505	M5	PZ
6300997506	M6	PZ
6300997508	M8	PZ
6300997510	M10	PZ
6300997512	M12	PZ
6300997514	M14	PZ
6300997516	M16	PZ
6300997518	M18	PZ

**COTTER PINS DIN 94**

Stainless Steel DIN 94 A4 cotter pins.



Cod.	mm	Pezzi / CF	UM
650094152010	1,5x20	100	PZ
650094152510	1,5x25	100	PZ
650094022010	2x20	100	PZ
650094022510	2x25	100	PZ
650094023010	2x30	100	PZ
650094252010	2,5x20	100	PZ
650094252510	2,5x25	100	PZ
650094253010	2,5x30	100	PZ
650094253510	2,5x35	100	PZ
650094032010	3x20	100	PZ
650094032510	3x25	100	PZ
650094033010	3x30	100	PZ
650094033510	3x35	100	PZ
650094034010	3x40	100	PZ
650094035010	3x50	100	PZ
650094043010	4x30	100	PZ
650094044005	4x40	50	PZ
650094045005	4x50	50	PZ
650094054005	5x40	50	PZ
650094055005	5x50	50	PZ
650094056005	5x60	50	PZ
650094065005	6x50	50	PZ
650094066005	6x60	50	PZ

**BLIND RIVETS**

Stainless Steel A2 blind rivets.



Cod.	mm	Pezzi / CF	UM
6600000326	3,2 x 6	100	PZ
6600000329	3,2 x 8	100	PZ
66000003211	3,2 x 10	100	PZ
66000003212	3,2 x 12	100	PZ
6600000389	4 x 8	100	PZ
66000003811	4 x 10	100	PZ
66000003812	4 x 12	100	PZ
66000003814	4 x 14	100	PZ
66000003816	4 x 16	100	PZ
6600000489	4,8 x 8	100	PZ
66000004811	4,8 x 10	100	PZ
66000004812	4,8 x 12	100	PZ
66000004814	4,8 x 14	100	PZ
66000004816	4,8 x 16	100	PZ
66000004818	4,8 x 18	100	PZ

### HEX HEAD MACHINE SCREWS DIN 933

Stainless Steel DIN 933 A4 metric hex head machine screw.



Cod.	mm	Pezzi / CF	UM
709330052010	5x20	100	PZ
709330053010	5x30	100	PZ
709330054005	5x40	50	PZ
709330055005	5x50	50	PZ
709330062005	6x20	50	PZ
709330063005	6x30	50	PZ
709330064005	6x40	50	PZ
709330065005	6x50	50	PZ
709330066005	6x60	50	PZ
709330068002	6x80	20	PZ
709330610002	6x100	20	PZ
709330083005	8x30	50	PZ
709330084005	8x40	50	PZ
709330085005	8x50	50	PZ
709330086002	8x60	20	PZ
709330088002	8x80	20	PZ
709330810001	8x100	10	PZ
709330104002	10x40	20	PZ
709330105002	10x50	20	PZ
709330106002	10x60	20	PZ
709330108002	10x80	20	PZ
709330100001	10x100	10	PZ

### SLOTTED FLAT HEAD MACHINE SCREWS DIN 963

Stainless Steel DIN 963 A4 metric slotted head machine screw.



Cod.	mm	Pezzi / CF	UM
709630032010	3x20	100	PZ
709630032510	3x25	100	PZ
709630033010	3x30	100	PZ
709630042010	4x20	100	PZ
709630042510	4x25	100	PZ
709630043010	4x30	100	PZ
709630044010	4x40	100	PZ
709630045010	4x50	100	PZ
709630052010	5x20	100	PZ
709630053010	5x30	100	PZ
709630054005	5x40	50	PZ
709630055005	5x50	50	PZ
709630056005	5x60	50	PZ
709630063005	6x30	50	PZ
709630064005	6x40	50	PZ
709630065005	6x50	50	PZ
709630066005	6x60	50	PZ
709630068002	6x80	20	PZ
709630610002	6x100	20	PZ
709630083005	8x30	50	PZ
709630084005	8x40	50	PZ
709630085005	8x50	50	PZ
709630086002	8x60	20	PZ
709630088002	8x80	20	PZ
709630810001	8x100	10	PZ

### FLAT HEAD TAPPING SCREWS PHILLIPS DIN 7982

Stainless Steel DIN 7982 A4 flat head tapping screw phillips.



Cod.	mm	Pezzi / CF	UM
707982351310	3,5x13	100	PZ
707982351610	3,5x16	100	PZ
707982351910	3,5x19	100	PZ
707982352210	3,5x22	100	PZ
707982352510	3,5x25	100	PZ
707982391310	3,9x13	100	PZ
707982391610	3,9x16	100	PZ
707982391910	3,9x19	100	PZ
707982392210	3,9x22	100	PZ
707982392510	3,9x25	100	PZ
707982393210	3,9x32	100	PZ
707982393810	3,9x38	100	PZ
707982421610	4,2x16	100	PZ
707982421910	4,2x19	100	PZ
707982422210	4,2x22	100	PZ
707982422510	4,2x25	100	PZ
707982423210	4,2x32	100	PZ
707982423810	4,2x38	100	PZ
707982481610	4,8x16	100	PZ
707982481910	4,8x19	100	PZ
707982482210	4,8x22	100	PZ
707982482510	4,8x25	100	PZ
707982483210	4,8x32	100	PZ
707982483805	4,8x38	50	PZ
707982485005	4,8x50	50	PZ
707982552205	5,5x22	50	PZ
707982553205	5,5x32	50	PZ
707982553805	5,5x38	50	PZ
707982555005	5,5x50	50	PZ
707982632505	6,3x25	50	PZ
707982633205	6,3x32	50	PZ
707982633802	6,3x38	20	PZ
707982635002	6,3x50	20	PZ
707982636002	6,3x60	20	PZ

### PAN HEAD TAPPING SCREW PHILLIPS DIN 7981

Stainless Steel DIN 7981 A4 pan head tapping screw phillips.



Cod.	mm	Pezzi / CF	UM
707981351310	3,5x13	100	PZ
707981351610	3,5x16	100	PZ
707981351910	3,5x19	100	PZ
707981352210	3,5x22	100	PZ
707981352510	3,5x25	100	PZ
707981391310	3,9x13	100	PZ
707981391610	3,9x16	100	PZ
707981391910	3,9x19	100	PZ
707981392210	3,9x22	100	PZ
707981392510	3,9x25	100	PZ
707981393210	3,9x32	100	PZ
707981393810	3,9x38	100	PZ
707981421610	4,2x16	100	PZ
707981421910	4,2x19	100	PZ
707981422210	4,2x22	100	PZ
707981422510	4,2x25	100	PZ
707981423210	4,2x32	100	PZ
707981423810	4,2x38	100	PZ
707981481610	4,8x16	100	PZ
707981481910	4,8x19	100	PZ
707981482210	4,8x22	100	PZ
707981482510	4,8x25	100	PZ
707981483210	4,8x32	100	PZ
707981483805	4,8x38	50	PZ
707981485005	4,8x50	50	PZ
707981552205	5,5x22	50	PZ
707981553205	5,5x32	50	PZ
707981553805	5,5x38	50	PZ
707981555005	5,5x50	50	PZ
707981632505	6,3x25	50	PZ
707981633205	6,3x32	50	PZ
707981633802	6,3x38	20	PZ
707981635002	6,3x50	20	PZ
707981636002	6,3x60	20	PZ

### HEX NUTS DIN 934

Stainless Steel DIN 934 A4 hex nut.



Cod.	mm	Pezzi / CF	UM
720093400410	M4	100	PZ
720093400510	M5	100	PZ
720093400610	M6	100	PZ
720093400810	M8	100	PZ
720093401005	M10	50	PZ

### NYLOCK NUTS DIN 985

Stainless Steel DIN 985 A4 nylock nut.



Cod.	mm	Pezzi / CF	UM
720098500405	M4	50	PZ
720098500505	M5	50	PZ
720098500605	M6	50	PZ
720098500805	M8	50	PZ
720098501005	M10	50	PZ

### FLAT WASHERS DIN 125

Stainless Steel DIN 125 A4 flat washer.



Cod.	mm	Pezzi / CF	UM
725011250410	D.4	100	PZ
725011250510	D.5	100	PZ
725011250610	D.6	100	PZ
725011250810	D.8	100	PZ
725011251010	D.10	100	PZ

### FENDER WASHERS

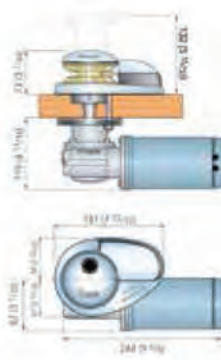
Stainless Steel A4 fender washer.



Cod.	mm	Pezzi / CF	UM
725000041210	4x12	100	PZ
725000051510	5x15	100	PZ
725000061810	6x18	100	PZ
725000082410	8x24	100	PZ
725000103005	10x30	50	PZ

## CUSTOM LINE CL1 WINDLASS

Anchor windlass with Bronze and Stainless Steel traction parts.  
Stainless Steel base and case (Inner Composite Structure). Manual Free-Fall chain system.  
IP67 watertight motor. Complete with control box and handle.  
The custom line economic series windlasses are without chaincounter sensor.



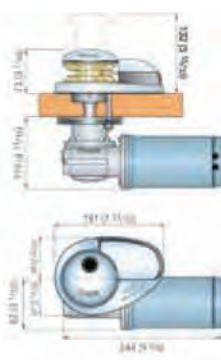
Quick

Cod.	Ref	V	Catena ø mm	Kg	Carico di lavoro Kg	Carico di lavoro max Kg	Per imbarcazioni	UM
1202402	CL1 500W	12	6	7,6	65	200	Da 6 a 9 metri	PZ

## PRINCE DP1 WINDLASS

Anchor windlass with Bronze and Stainless Steel traction parts.  
Endowed with chaincounter sensor and Manual Free-Fall chain system.  
Stainless Steel base and case (Inner Composite Structure). IP67 watertight motor.  
Complete with control box and handle.

(The D letter in Ref column indicates Drum equipped winch)



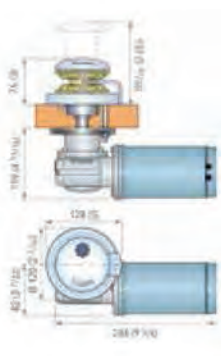
Quick

Cod.	Ref	V	Catena ø mm	Kg	Carico di lavoro Kg	Carico di lavoro max Kg	Per imbarcazioni	UM
1202404	DP1 500W	12	6	7,6	65	200	Da 6 a 9 metri	PZ
1202406	DP1 500W - D	12	6	7,6	65	200	Da 6 a 9 metri	PZ

## RIDER 1 WINDLASS

Anchor windlass with Bronze and Stainless Steel traction parts.  
Endowed with chaincounter sensor and Manual Free-Fall chain system.  
Anodized Aluminum base. IP67 watertight motor. Complete with control box and handle.  
Windlass without chain pipe, thus it can be mounted in any position, vertical or horizontal angle, even in the chain locker.

(The D letter in Ref column indicates Drum equipped winch)



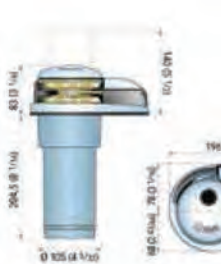
Quick

Cod.	Ref	V	Catena ø mm	Kg	Carico di lavoro Kg	Carico di lavoro max Kg	Per imbarcazioni	UM
1203504	Rider 500W	12	6	7,4	65	200	Da 6 a 9 metri	PZ
1203514	Rider 500W - D	12	6	8,5	65	200	Da 6 a 9 metri	PZ

## PRINCE DP2E WINDLASS

Rope and Chain anchor windlass with Bronze and Stainless Steel traction parts.  
Endowed with chaincounter sensor and Manual Free-Fall chain system.  
Anodized Aluminum base and case (Inner Composite Structure). IP67 watertight motor. Easy and quick to install from top.  
Complete with control box and handle.

(The D letter in Ref column indicates Drum equipped winch)



Quick

Cod.	Ref	V	Catena ø mm	Cima ø mm	Kg	Carico di lavoro Kg	Carico di lavoro max Kg	Per imbarcazioni	UM
1201815	DP2E 500W	12	6	12	8,3	65	200	Da 6 a 9 metri	PZ
1201825	DP2E 500W - D	12	6	12	9,1	65	200	Da 6 a 9 metri	PZ
1201816	DP2E 800W	12	6	12	8,3	95	290	Da 7 a 10 metri	PZ
1201818	DP2E 800W	12	8	12	8,3	95	290	Da 7 a 10 metri	PZ
1201828	DP2E 800W - D	12	8	12	9,1	95	290	Da 7 a 10 metri	PZ

**STAINLESS STEEL STANDARD MOORING SHOCK ABSORBER**

Stainless Steel spring mooring shock absorbers.

Cod.	ø mm	L mm	Per imbarcazioni	UM
<b>3136027</b>	55	270	Fino a 7 m	PZ
<b>3136032</b>	62	320	Fino a 8 m	PZ
<b>3136039</b>	75	340	Fino a 10 m	PZ
<b>3136043</b>	80	470	Fino a 12 m	PZ

**STAINLESS STEEL NO SQUEAKING MOORING SHOCK ABSORBER**

No squeaking Stainless Steel spring mooring shock absorbers.

Cod.	Filo ø mm	L mm	Per imbarcazioni	UM
<b>3136505</b>	5	300	Fino a 6 m	PZ
<b>3136506</b>	6	300	Fino a 8 m	PZ
<b>3136507</b>	7	400	Fino a 10 m	PZ
<b>3136509</b>	9	470	Fino a 12 m	PZ
<b>3136511</b>	11	470	Fino a 14 m	PZ

**FROM 6 TO 8 METERS MPP/T MOORING SHOCK ABSORBER**

High performance Stainless Steel and outstanding breaking load mooring shock absorber. Corrosion resistant, it is absolutely silent thanks to the low-noise anti-friction patented inserts.

Cod.	Filo ø	Forza ammortizzante	Carico di rottura	Per imbarcazioni	UM
<b>3136705</b>	5 mm	120 Kg	2000 Kg	Da 6 a 8 m	PZ

**FROM 7 TO 9 METERS MPP/T MOORING SHOCK ABSORBER**

High performance Stainless Steel and outstanding breaking load mooring shock absorber. Corrosion resistant, it is absolutely silent thanks to the low-noise anti-friction patented inserts. The Mollaflex Bayer elastomer inserts ensures more absorbing safety in high load conditions and they continue to work even if spring brakes, avoiding damage to the boat.

Cod.	Filo ø	Forza ammortizzante	Carico di rottura	Per imbarcazioni	UM
<b>3136707</b>	7 mm	270 Kg	3000 Kg	Da 7 a 9 m	PZ



**SIDERMARINE**  
SISTEMI DI ANCORAMENTO PER YACHT

**FROM 8 TO 12 METERS MPP/T MOORING SHOCK ABSORBER**

High performance Stainless Steel and outstanding breaking load mooring shock absorbers. Corrosion resistant, they are absolutely silent thanks to the low-noise anti-friction patented inserts. The Mollaflex Bayer elastomer inserts ensures more absorbing safety in high load conditions and they continue to work even if spring brakes, avoiding damage to the boat.

Cod.	Filo ø	Forza ammortizzante	Carico di rottura	Per imbarcazioni	UM
<b>3136708</b>	8 mm	325 Kg	4000 Kg	Da 8 a 11 m	PZ
<b>3136709</b>	9 mm	445 Kg	6000 Kg	Da 9 a 12 m	PZ



**SIDERMARINE**  
SISTEMI DI ANCORAMENTO PER YACHT

**FROM 11 TO 25 METERS MPP/T MOORING SHOCK ABSORBER**

High performance Stainless Steel and outstanding breaking load mooring shock absorbers. Corrosion resistant, they are absolutely silent thanks to the low-noise anti-friction patented inserts. The Mollaflex Bayer elastomer inserts ensures more absorbing safety in high load conditions and they continue to work even if spring brakes, avoiding damage to the boat.

Cod.	Filo ø	Forza ammortizzante	Carico di rottura	Per imbarcazioni	UM
<b>3136710</b>	10 mm	610 Kg	10000 Kg	Da 11 a 16 m	PZ
<b>3136712</b>	12 mm	975 Kg	20000 Kg	Da 16 a 25 m	PZ



**SIDERMARINE**  
SISTEMI DI ANCORAMENTO PER YACHT

**FROM 25 TO 35 METERS MPP/T MOORING SHOCK ABSORBER**

High performance Stainless Steel and outstanding breaking load mooring shock absorbers. Corrosion resistant, they are absolutely silent thanks to the low-noise anti-friction patented inserts. The Mollaflex Bayer elastomer inserts ensures more absorbing safety in high load conditions and they continue to work even if spring brakes, avoiding damage to the boat.

Cod.	Filo ø	Forza ammortizzante	Carico di rottura	Per imbarcazioni	UM
<b>3136715</b>	15 mm	2020 Kg	35000 Kg	Da 25 a 35 m	PZ





**SIDERMARINE**  
SISTEMI DI ANCORAMENTO PER YACHT

armare  
ropes



STANDARD COLOURS

-  Plain White
-  Plain Black
-  Plain Blue Navy

SPECIAL COLOURS

-  Plain Grey
-  Plain Bordeaux
-  Plain English Green
-  Plain Hemp

SEA KING

For the mooring of all types of boats up to maxi yachts.  
The best choice for permanent moorings and on mooring posts. 3 strand rope with balanced torsion and double twist construction.



Cod.	ø mm	Breaking Loads kg	Weight gr/m	Roll Length m
ARM N012 03	3	300	9	300
ARM N012 04	4	470	16	300
ARM N012 05	5	600	22	300
ARM N012 06	6	700	28	200
ARM N012 08	8	1.270	48	200
ARM N012 10	10	1.680	70	200
ARM N012 12	12	2.800	103	200
ARM N012 14	14	3.600	140	200
ARM N012 16	16	4.300	185	100
ARM N012 18	18	5.400	230	100
ARM N012 20	20	6.700	290	100
ARM N012 22	22	8.300	320	100/200
ARM N012 24	24	9.700	437	100/200
ARM N012 26	26	11.100	500	100/200
ARM N012 28	28	12.050	565	100/200
ARM N012 30	30	13.400	650	100/200
ARM N012 32	32	15.400	740	100/200
ARM N012 36	36	19.000	900	100/200
ARM N012 40	40	23.500	1.150	100/200

SQUARE LINE

For the mooring of all types of boats up to maxi yachts.  
Anchoring, temporary and long moorings of medium and small boats.  
Balanced twist 8 strand braid  
Polyester HT.

Cod.	ø mm	Breaking Loads kg	Weight gr/m	Roll Length m
ARM N011 10	10	1.600	71	200
ARM N011 12	12	2.020	92	200
ARM N011 14	14	2.700	125	200
ARM N011 16	16	3.200	150	100
ARM N011 18	18	3.860	170	100
ARM N011 20	20	4.200	205	100
ARM N011 22	22	4.650	230	100
ARM N011 24	24	5.300	280	100
ARM N011 26	26	6.230	340	100
ARM N011 28	28	8.050	420	100
ARM N011 30	30	8.960	470	100
ARM N011 32	32	9.500	520	100
ARM N011 36	36	12.000	586	100
ARM N011 40	40	13.500	650	100
ARM N011 44	44	15.400	800	100
ARM N011 48	48	19.000	985	100
ARM N011 52	52	23.500	1.280	100

STANDARD COLOURS

-  Plain White
-  Plain Black
-  Plain Blue Navy

SPECIAL COLOURS

-  Plain Grey
-  Plain Bordeaux
-  Plain English Green
-  Plain Hemp



armare  
ropes

**armare**  
ropes



#### STANDARD COLOURS

-  Plain Light Grey
-  Plain Yellow

#### SECUR LINE

Emergency anchoring and mooring rope, long mooring line from boat to land, towing line. Balanced twist 8 strand braid made with 100% Dyneema® SK75 and PU coating.

Cod.	ø mm	Breaking Loads kg	Weight gr/m	Roll Length m
ARM N037 10	10	10.000	60	200
ARM N037 12	12	12.500	80	200
ARM N037 14	14	15.000	96	200
ARM N037 16	16	18.000	110	200
ARM N037 20	20	23.000	147	100
ARM N037 24	24	28.000	192	100
ARM N037 28	28	34.000	230	100
ARM N037 32	32	39.000	250	100
ARM N037 36	36	45.000	300	100
ARM N037 40	40	50.000	350	100
ARM N037 44	44	55.000	400	100

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ropes



SPECTRA LINE

#### STANDARD COLOURS

-  Plain White
-  Plain Light Blue
-  Plain Blue Navy
-  Plain Grey
-  Plain Red
-  Plain Hemp

#### SPEEDCRUISE

The new Line for halyards, sheets and afterguys on cruising boats. This article is superior to the quality of the regular polyester double braids, thanks to the core which is braided with Spectra. and High Modulus Polyethylene. Good Breaking load and a fairly low elongation, but also flexibility, suppleness, lightness and low water absorption. The double braid construction, without the intermediate braid, makes it easy to splice.

Cod.	ø mm	Breaking Loads kg	Weight gr/m	Roll Length m
ARM N036 6	6	1.100	26	200
ARM N036 8	8	1.850	47	200
ARM N036 10	10	2.900	73	200
ARM N036 12	12	4.800	95	200
ARM N036 14	14	6.100	134	100
ARM N036 16	16	8.400	172	100
ARM N036 18	18	10.500	222	100
ARM N036 20	20	12.100	278	100
ARM N036 22	22	14.300	315	100

#### FENDER BRAID

For all boats. Fender braid and other on board uses. 24 plait HT Polyester braid.

Cod.	ø mm	Breaking Loads kg	Roll Length m
ARM N021 08	8	1.500	100
ARM N021 10	10	1.900	100
ARM N021 12	12	2.150	100
ARM N021 14	14	2.630	100
ARM N021 16	16	3.450	100

**armare**  
ropes



#### STANDARD COLOURS

-  Plain White
-  Plain Black
-  Plain Blue Navy

#### SPECIAL COLOURS

-  Plain Grey
-  Plain Bordeaux
-  Plain English Green
-  Plain Hemp



### STANDARD COLOURS

-  Plain White
-  Plain Black
-  Plain Light Blue
-  Plain Grey
-  Plain Red
-  Plain Green
-  Plain Yellow



### DYNEFORCE 75

Halyards, sheets, afterguys, tackles, strops and many other applications. 12 plait with 100% Dyneema® SK75 impregnated with polyurethane coating and special heat treatment HSP.

Cod.	ø mm	Breaking Loads kg	Weight gr/m	Roll Length m
ARM N023 015	1,5	300	2	200
ARM N023 02	2	500	2	200
ARM N023 03	3	860	5	200
ARM N023 04	4	1.810	8	200
ARM N023 05	5	2.760	14	200
ARM N023 06	6	3.800	19	200
ARM N023 07	7	5.800	28	100
ARM N023 08	8	7.220	35	100
ARM N023 09	9	8.550	41	100
ARM N023 10	10	10.500	56	100
ARM N023 12	12	14.160	79	100
ARM N023 14	14	17.100	105	100
ARM N023 15	16	20.950	130	100
ARM N023 18	18	24.500	157	100
ARM N023 20	20	29.260	191	100
ARM N023 22	22	34.200	231	100

### STAR

Halyards, sheets, topping lifts, tackles and control lines on cruising boats. Large diameters are ideal for maxi sail yachts. Prestretched double braid. HT Polyester core. HT Polyester cover.

Cod.	ø mm	Breaking Loads kg	Weight gr/m	Roll Length m
ARM N001 03	3	250	10	200
ARM N001 04	4	450	15	200
ARM N001 05	5	650	23	200
ARM N001 06	6	900	30	200
ARM N001 07	7	1.200	39	200
ARM N001 08	8	1.550	49	200
ARM N001 10	10	2.450	75	150
ARM N001 12	12	3.300	103	150
ARM N001 14	14	4.500	148	100
ARM N001 16	16	6.000	198	100
ARM N001 18	18	7.400	240	100
ARM N001 20	20	9.100	280	100
ARM N001 22	22	10.000	338	100
ARM N001 24	24	12.500	410	100
ARM N001 26	26	14.700	495	100

### STANDARD COLOURS

-  Plain White
-  White-Black Markers
-  White-Light Blue Markers
-  White-Red Markers
-  White-Yellow Markers
-  White-Green Markers

### PLAIN COLOURS

-  Plain Blue Navy
-  Plain Light Blue
-  Plain Red
-  Plain Yellow
-  Plain Green
-  Plain Black
-  Plain Grey
-  Plain Anthracite
-  Plain Hemp

### SPECIAL COLOURS

-  Grey-Light Blue
-  Grey-Red
-  Grey-Yellow



**armare**  
ropes

**STANDARD COLOURS**

-  Plain White
-  Plain Black
-  Plain Light Blue
-  Plain Grey
-  Plain Red
-  Plain Green
-  Plain Yellow

**DYNEFORCE 78**

Strops, control lines, tackles, lashing, tapered halyards, backstays and many uses on board. 12 plait with 100% Dyneema® SK78 impregnated with polyurethane coating and special heat treatment HSP. 100% Dyneema® SK78.

Cod.	ø mm	Breaking Loads kg	Weight gr/m	Roll Length m
ARM N032 03	3	900	4	200
ARM N032 04	4	1.900	8	200
ARM N032 05	5	3.140	14	200
ARM N032 06	6	4.480	19	200
ARM N032 07	7	6.720	28	100
ARM N032 08	8	8.000	35	100
ARM N032 09	9	9.740	41	100
ARM N032 10	10	12.210	56	100
ARM N032 12	12	16.690	76	100
ARM N032 14	14	20.160	105	100
ARM N032 16	16	24.800	130	100
ARM N032 18	18	28.000	157	100
ARM N032 20	20	33.600	191	100
ARM N032 22	22	37.200	228	100

**SAGOLA**

For all boats, dinghies, wind-surfing and kite-surfing. HT polyester braid.

Cod.	ø mm	Breaking Loads kg	Weight gr/m	Roll Length m
ARM N016 006	0,6	29	0,8	300
ARM N016 008	0,8	46	1,1	300
ARM N016 01	1	50	1,6	200
ARM N016 015	1,5	79	2,1	200
ARM N016 02	2	132	3,2	200
ARM N016 025	2,5	143	4,4	200
ARM N016 03	3	192	5,5	200
ARM N016 035	3,5	271	8,6	200
ARM N016 04	4	320	16	200
ARM N016 05	5	400	22	200
ARM N016 06	6	500	30	200

White and  
plain  
colours with  
markers

White and  
plain  
colours with  
markers


**armare**  
ropes

**STANDARD COLOURS**


Plain White



White\_Red Markers



White\_Green Markers



White\_Light Blue Markers



Plain Black



Plain Blue



Azure\_Yellow Markers



Red\_Yellow Markers



Green\_Yellow Markers



Yellow\_Light Blue Markers

### ELASTIC

Technical use: sail makers, tapestry workers, shops.  
On board use: awings, covers, bindings, falls etc.  
100% HT Polyester sock.  
100% Latex core.

Cod.	ø mm	Roll Length m
ARM N014 03	3	100
ARM N014 04	4	100
ARM N014 05	5	100
ARM N014 06	6	100
ARM N014 08	8	100
ARM N014 10	10	100



**armare**  
ropes

### STANDARD COLOURS



**armare**  
ropes

### WAXED BRIDE MINIROLLS

For biding and sewing.



Cod.	ø mm	Roll Length m
ARM N026 01	1	20
ARM N026 015	1,5	15

Colours: base colour choice between white - black - red - blue navy - brown - green - light blue - hemp - grey - yellow - bordeaux.

**armare**  
ropes



On stainless-steel  
thimble



On stainless-steel  
thimble, leather  
pant



Loop



Loop with leather  
pant



Loop with leather  
protection



Loop with leather  
protection and pant

### STORM LINE SPLICED

### LEATHER COLOURS



### STANDARD COLOURS



### SPECIAL COLOURS





#### HEAVING LINE BAGS

Black leather sewn around a core of lead shots. Nickel-plated brass eyelet. Weight 400 g.

Cod. OSC 2313001



#### HEAVING LINE BAGS

Made of blue nylon, braided around the lead's core, weight 300 g.

Cod. OSC 2313000

**armare**  
ropes



#### HEAT CUTTER

Marlin spikes  
Splicing kit  
Power: 60 W  
Working voltage: 220 V - 50 HZ  
Double insulation  
CE Marked  
Weight: 1 Kg

Cod. ARM N300



#### MARLIN SPIKERS

Splicing set, made with the best stainless steel and a solid, smooth wooden handle.

Marline spikes for the following types of ropes:

- 3 strand rope (Sea King)
- 8 strand rope (Square Line)
- 12 strand rope (Round Line)

Available in two sizes:

- Length: cm. 17,5 – for ropes up to 16 mm dia.
- Length: cm. 26,5 – for ropes up to 30 mm dia.

Cod. ARM N301



#### SPLICING KIT

The splicing kit, for the correct splicing on braids and double braids, is made with 316 polished stainless-steel. It can be used for the splicing of ropes from diameter 4 mm to 18 mm.

The kit is supplied with instructions.

Cod. ARM N302



#### SAIL MAKERS NEEDLES

5 original English needles for binding and sewing. Optimal for mending sails and hand sewing on ropes and leather.

Cod. ARM N303



#### MARLOW KIT FOR LINE SPLICING

Includes drawing instructions, a set of needles, fid, whipping twine, tape.

Cod. OSC 1029100

### LIROS SOFT SHACKLES

Soft shackles that replaces metal shackles and carabiners for connecting sheets, halyards and blocks, used also in industrial applications. Simple, fast and safe to open with Liros lanyard, avoids injuries and deck damage. Made of high-strength Dyneema SK78, they are coloured according to breaking load in order to be easily identified.

Cod.	ø mm	Colour	Max Working Load Kg	Breaking Load Kg	UM
3109004	6	WHITE	500	1000	PZ
3109005	8	BLACK	750	1500	PZ
3109006	10	RED	1000	2000	PZ
3109008	12	BLUE	2000	4000	PZ
3109010	14	YELLOW	3000	6000	PZ



### LIROS BRAIDED POLYESTER LINES SPOOLS

Multicolour box of braided Polyester line spools. Extremely resistant, very flexible, UV resistant, will not stiffen up.

Cod.	ø mm	Pack	UM
3106532	2	10 x 30 m	CF
3106533	3	10 x 15 m	CF
3106534	4	5 x 10 m	CF



### LIROS BRAIDED POLYESTER LINES SPOOLS

Multicolour box of 16 plaited cover and braided Polyester core line spools. High abrasion resistant, high grip on cleats and low stretch. Ideal for use as mini-sheets, lanyards, bindings and other purposes.

Cod.	ø mm	Pack	UM
3105112	2	10 x 30 m	CF
3105113	3	10 x 15 m	CF



### LIROS OPTISAIL SPOOLS

16 Plaited Polyester cover and braided Dyneema SK78 core line spools. Extremely strong, low stretch (<1,5%), best knot holding.

Cod.	ø mm	Meters	UM
3106612	1,2	20	PZ



### POLYESTER MULTICOLOUR SPOOLS

Multicolor Polyester braid mini-spools. Ideal for use as mini-sheets, lanyards, bindings and other purposes.

Cod.	Colour	ø mm	L meters	Accessories	UM
3105032	YELLOW	2	30		PZ
3105013	YELLOW	3	15		PZ
3105232	RED	2	30		PZ
3105213	RED	3	15		PZ
3105432	BLUE	2	30		PZ
3105413	BLUE	3	15		PZ
3105632	GREEN	2	30		PZ
3105613	GREEN	3	15		PZ
3105031				10 Spools Display	PZ



### DYNEEMA MULTICOLOUR SPOOLS

Multicolor hi-tech Dyneema-core braid mini-spools. Ideal for use as mini-sheets, halyards, lanyards, and other purposes.

Cod.	Colour	ø mm	L meters	Accessories	UM
3107001	BLUE	1	40		PZ
3107002	BLUE	2	30		PZ
3107003	BLUE	3	15		PZ
3107011	RED	1	40		PZ
3107012	RED	2	30		PZ
3107013	RED	3	15		PZ
3107021	YELLOW	1	40		PZ
3107022	YELLOW	2	30		PZ
3107023	YELLOW	3	15		PZ
3105031				10 Spools Display	PZ



# **MAJONI MINI FENDERS**

Fenders with two eyelets.



Cod.	Ref	ø mm	L mm	Colour	UM
<b>3800011</b>	SK1	90	300	WHITE/BLUE	PZ
<b>3800012</b>	KF1	90	300	WHITE	PZ
<b>3800112</b>	KF1	90	300	BLUE	PZ
<b>3801100</b>	SF0	120	420	WHITE/BLUE	PZ
<b>3801200</b>	KF2	120	420	WHITE	PZ
<b>3801300</b>	KF2	120	420	BLUE	PZ



# **ANGLE FENDER**

Special fender with angled fitting ideal for low freeboards.



Cod.	ø mm	L mm	UM
<b>3800020</b>	150	360	PZ



# **MAJONI CENTER HOLE FENDERS**

Majoni center hole fenders.



Cod.	ø mm	L mm	UM
<b>3801800</b>	100	300	PZ
<b>3801801</b>	150	430	PZ
<b>3801802</b>	200	550	PZ
<b>3801803</b>	250	680	PZ
<b>3801804</b>	300	800	PZ



# **G-TYPE POLYFORM FENDERS**

Fenders with two eyelets.



Cod.	Ref	ø mm	L mm	UM
<b>3800202</b>	G2	117	407	PZ
<b>3800203</b>	G3	145	515	PZ
<b>3800204</b>	G4	170	585	PZ
<b>3800205</b>	G5	215	705	PZ



# **MAJONI BLUE HEAD FENDERS**

Fenders with two eyelets.



Cod.	Ref	ø mm	L mm	UM
<b>3801101</b>	SF1	150	580	PZ
<b>3801112</b>	SF2A	180	600	PZ
<b>3801102</b>	SF2	210	620	PZ
<b>3801103</b>	SF3	240	700	PZ
<b>3801104</b>	SF4	300	900	PZ
<b>3801105</b>	SF5	300	820	PZ
<b>3801106</b>	SF6	350	1100	PZ



# **F-TYPE POLYFORM FENDERS**

Fenders with two reinforced eyelets.



Cod.	Ref	ø mm	L mm	UM
<b>3801001</b>	F1	145	610	PZ
<b>3801022</b>	F02	190	660	PZ
<b>3801002</b>	F2	220	610	PZ
<b>3801003</b>	F3	215	745	PZ
<b>3801004</b>	F4	215	1050	PZ
<b>3801005</b>	F5	300	770	PZ
<b>3801006</b>	F6	300	1095	PZ



### LIROS SOFT SHACKLES

Soft shackles that replaces

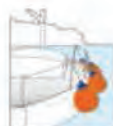


Cod.	Ref	ø mm	L mm	Buoyancy Kg	UM
3802000	A0	230	280	6,5	PZ
3802001	A1	310	390	16	PZ
3802002	A2	400	510	36	PZ
3802003	A3	490	620	65	PZ
3802004	A4	600	730	116	PZ
3802005	A5	760	940	230	PZ
3802006	A6	940	1190	430	PZ



### A RED POLYFORM FENDERS

Heavy Duty pear fenders with reinforced eyelet.



Cod.	Ref	ø mm	L mm	Buoyancy Kg	UM
3802200	A0	230	280	6,5	PZ
3802201	A1	310	390	16	PZ
3802202	A2	400	510	36	PZ
3802203	A3	490	620	65	PZ
3802204	A4	600	730	116	PZ
3802205	A5	760	940	230	PZ
3802206	A6	940	1190	430	PZ



### A WHITE MAJONI FENDERS

Heavy Duty pear fenders with reinforced eyelet.

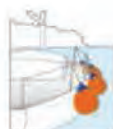


Cod.	Ref	ø mm	L mm	Buoyancy Kg	UM
3802102	WB-A2	350	480	21	PZ
3802103	WB-A3	450	620	45	PZ
3802104	WB-A4	550	730	83	PZ
3802105	WB-A5	650	880	139	PZ
3802106	WB-A6	850	1050	314	PZ



### A RED MAJONI FENDERS

Heavy Duty pear fenders with reinforced eyelet.



Cod.	Ref	ø mm	L mm	Buoyancy Kg	UM
3802302	RB-A2	350	480	21	PZ
3802303	RB-A3	450	620	45	PZ
3802304	RB-A4	550	730	83	PZ
3802305	RB-A5	650	880	139	PZ
3802306	RB-A6	850	1050	314	PZ



## F-TYPE BIG BOAT POLYFORM FENDERS

Fenders with two reinforced eyelets for big boats.

Cod.	Ref	ø mm	L mm	UM
3801007	F7	380	1030	PZ
3801008	F8	380	1475	PZ
3801011	F11	600	1455	PZ
3801013	F13	800	1950	PZ



## F-TYPE BIG BOAT POLYFORM FENDERS

Mega Fender inflatable fenders designed to protect large boats and mega yachts. Great lightness and great ease of handling, while their particular valve and their high flexibility allow to be easy deflated and to be rapidly stored (can fit in tight spaces). Very sturdy, made of Kevlar thread with strengthened strips. Traction Stainless Steel strap rings.

Cod.	Sizes (L x ø) cm	UM
3803500	56 x 23	PZ
3803502	76 x 23	PZ
3803504	91 x 36	PZ
3803510	107 x 46	PZ
3803512	114 x 46	PZ
3803514	147 x 46	PZ
3803520	74 x 61	PZ
3803522	107 x 61	PZ
3803524	147 x 61	PZ
3803526	165 x 66	PZ
3803528	168 x 61	PZ
3803530	244 x 61	PZ
3803532	191 x 97	PZ
3803540	125 x 90	PZ
3803545	150 x 125	PZ
3803547	210 x 90	PZ

Fendress



## MEGA FENDER COVERS

Strong fleece Fendress fender covers for Mega Fender fenders. Protects Mega Fenders eliminating wear, scuff marks and squeaks. Soft and tough, they don't stain the sides and they last longer.

Fendress

Cod.	Colour	Fender (L x ø) cm	UM
3813500	BLUE NAVY	56 x 23	PZ
3813500DG	DARK GREY	56 x 23	PZ
3813500BK	BLACK	56 x 23	PZ
3813502	BLUE NAVY	76 x 23	PZ
3813502DG	DARK GREY	76 x 23	PZ
3813502BK	BLACK	76 x 23	PZ
3813504	BLUE NAVY	91 x 36	PZ
3813504DG	DARK GREY	91 x 36	PZ
3813504BK	BLACK	91 x 36	PZ
3813510	BLUE NAVY	107 x 46	PZ
3813510DG	DARK GREY	107 x 46	PZ
3813510BK	BLACK	107 x 46	PZ
3813512	BLUE NAVY	114 x 46	PZ
3813512DG	DARK GREY	114 x 46	PZ
3813512BK	BLACK	114 x 46	PZ
3813514	BLUE NAVY	147 x 46	PZ
3813514DG	DARK GREY	147 x 46	PZ
3813514BK	BLACK	147 x 46	PZ
3813520	BLUE NAVY	74 x 61	PZ
3813520DG	DARK GREY	74 x 61	PZ
3813520BK	BLACK	74 x 61	PZ
3813522	BLUE NAVY	107 x 61	PZ
3813522DG	DARK GREY	107 x 61	PZ
3813522BK	BLACK	107 x 61	PZ

Cod.	Colour	Fender (L x ø) cm	UM
3813524	BLUE NAVY	147 x 61	PZ
3813524DG	DARK GREY	147 x 61	PZ
3813524BK	BLACK	147 x 61	PZ
3813526	BLUE NAVY	165 x 66	PZ
3813526DG	DARK GREY	165 x 66	PZ
3813526BK	BLACK	165 x 66	PZ
3813528	BLUE NAVY	168 x 61	PZ
3813528DG	DARK GREY	168 x 61	PZ
3813528BK	BLACK	168 x 61	PZ
3813530	BLUE NAVY	244 x 61	PZ
3813530DG	DARK GREY	244 x 61	PZ
3813530BK	BLACK	244 x 61	PZ
3813532	BLUE NAVY	191 x 97	PZ
3813532DG	DARK GREY	191 x 97	PZ
3813532BK	BLACK	191 x 97	PZ
3813540	BLUE NAVY	125 x 90	PZ
3813540DG	DARK GREY	125 x 90	PZ
3813540BK	BLACK	125 x 90	PZ
3813545	BLUE NAVY	150 x 125	PZ
3813545DG	DARK GREY	150 x 125	PZ
3813545BK	BLACK	150 x 125	PZ
3813547	BLUE NAVY	210 x 90	PZ
3813547DG	DARK GREY	210 x 90	PZ
3813547BK	BLACK	210 x 90	PZ



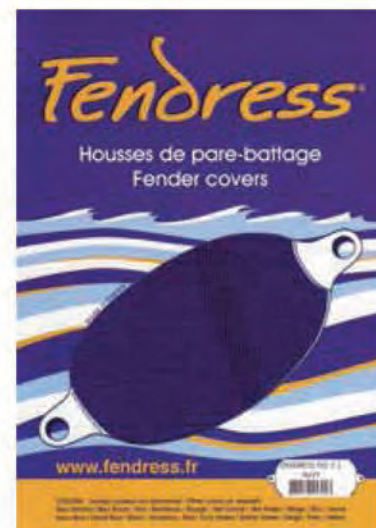
**F-TYPE FENDRESS FENDERCOVERS**

Plush fleece handmade Fendress fender covers.

Premium protection for your fenders, while eliminating fender squeak and scuffy marks.

Soft and tough, these fender covers protect efficiently your gel-coat paint and make your fenders last longer.

- "Fendress Covers" are 100% Acrylic handmade premium quality resistant, non abrasive loop knit. Soft, plush fleece fender covers offer the ultimate protection for your topsides.
- "Fendress Covers" are UV and sea water resistant, protecting efficiently your gel-coat paint from scuffy marks and abrasions. The tensile and rugged fleece fabric ...



Cod.	Type	Colour	Buoy ø	Buoy Length	UM
3811001	F1	BLUE NAVY	14<>16 cm	58<>62 cm	PZ
3811012	F02	BLUE NAVY	19<>21 cm	64<>68 cm	PZ
3811002	F2	BLUE NAVY	21<>24 cm	60<>64 cm	PZ
3811003	F3	BLUE NAVY	21<>24 cm	72<>78 cm	PZ
3811004	F4	BLUE NAVY	21<>23 cm	100<>108 cm	PZ
3811005	F5	BLUE NAVY	29<>32 cm	74<>78 cm	PZ
3811006	F6	BLUE NAVY	29<>32 cm	106<>110 cm	PZ
3811007	F7	BLUE NAVY	36<>40 cm	100<>108 cm	PZ
3811018	F8	BLUE NAVY **	36<>40 cm	140<>150 cm	PZ
3811020	F10	BLUE NAVY **	47<>52 cm	120<>130 cm	PZ
3811021	F11	BLUE NAVY **	58<>62 cm	140<>150 cm	PZ
3811023	F13	BLUE NAVY **	78<>82 cm	190<>200 cm	PZ

**A-TYPE FENDRESS FENDERCOVERS**

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- "Fendress Covers" are UV and sea water resistant, protecting efficiently your gel-coat paint from scuffy marks and abrasions. The tensile and rugged fleece fabric ...



Cod.	Type	Colour	Buoy ø	Buoy Length	UM
3811101	A1	BLUE NAVY	28<>31 cm	36<>39 cm	PZ
3811102	A2	BLUE NAVY	38<>41 cm	48<>51 cm	PZ
3811103	A3	BLUE NAVY	46<>50 cm	58<>62 cm	PZ
3811104	A4	BLUE NAVY	54<>60 cm	68<>73 cm	PZ
3811105	A5	BLUE NAVY	68<>76 cm	90<>95 cm	PZ
3811106	A6	BLUE NAVY **	84<>90 cm	115<>120 cm	PZ
3811107	A7	BLUE NAVY **	100<>110 cm	135<>145 cm	PZ





### BRASS PIPE-TO-HOSE M

Brass male pipe-to-hose.

Cod.	G Thread (") x mm	UM
1430005	1/8x8	PZ
1430006	1/4x6	PZ
1430008	1/4x8	PZ
1430010	1/4x10	PZ
1430011	3/8x10	PZ
1430013	3/8x13	PZ
1430014	3/8x18	PZ
1430015	3/8x15	PZ
1430210	1/2x10	PZ
1430213	1/2x13	PZ
1430016	1/2x15	PZ
1430017	1/2x16	PZ
1430018	1/2x18	PZ
1430020	1/2x20	PZ
1430022	3/4x20	PZ
1430025	3/4x25	PZ
1430030	1x30	PZ
1430035	1x35	PZ
1430038	1 1/4x38	PZ
1430040	1 1/4x40	PZ
1430042	1 1/2x38	PZ



### BRASS PIPE-TO-HOSE F

Brass female pipe-to-hose.

Cod.	G Thread (") x mm	UM
1431010	1/4x10	PZ
1431015	3/8x15	PZ
1431020	1/2x20	PZ
1431025	3/4x25	PZ
1431030	1x30	PZ
1431040	1 1/4x40	PZ
1431045	1 1/2x45	PZ
1431050	2x50	PZ



### BRASS ELBOW M-F

Brass male-female elbow.

Cod.	G Thread (") x mm	UM
1432001	1/4	PZ
1432002	3/8	PZ
1432003	1/2	PZ
1432004	3/4	PZ
1432005	1	PZ
1432006	1 1/4	PZ
1432007	1 1/2	PZ
1432008	2	PZ
1432009	2 1/2	PZ
1432010	3	PZ



### BRASS ELBOW F-F

Brass female-female elbow.

Cod.	G Thread (") x mm	UM
1432501	1/4	PZ
1432502	3/8	PZ
1432503	1/2	PZ
1432504	3/4	PZ
1432505	1	PZ
1432506	1 1/4	PZ
1432507	1 1/2	PZ
1432508	2	PZ
1432509	2 1/2	PZ
1432510	3	PZ



### BRASS DOUBLE NIPPLE

Brass double nipple.

Cod.	G Thread (") x mm	UM
1433001	1/4	PZ
1433002	3/8	PZ
1433003	1/2	PZ
1433004	3/4	PZ
1433005	1	PZ
1433006	1 1/4	PZ
1433007	1 1/2	PZ
1433008	2	PZ
1433009	2 1/2	PZ
1433010	3	PZ



### BRASS DOUBLE REDUCING NIPPLE

Brass reducing double nipple.

Cod.	G Thread (") x mm	UM
1434501	1/4x1/8	PZ
1434502	3/8x1/4	PZ
1434503	1/2x3/8	PZ
1434504	3/4x1/2	PZ
1434505	1x3/4	PZ
1434506	1 1/4x1	PZ
1434507	1 1/2x1 1/4	PZ
1434508	2x1 1/2	PZ



### BRASS HEX PIPE BUSHING M-F

Brass male to female hex pipe bushing.

Cod.	G Thread (") x mm	UM
1435001	1/4x1/8	PZ
1435002	3/8x1/4	PZ
1435003	1/2x3/8	PZ
1435004	3/4x1/2	PZ
1435005	1x3/4	PZ
1435006	1 1/4x1	PZ
1435007	1 1/2x1 1/4	PZ
1435008	2x1 1/2	PZ



### BRASS SQUARE HEAD PLUG

Brass square head plug.

Cod.	G Thread (") x mm	UM
1435501	1/4	PZ
1435502	3/8	PZ
1435503	1/2	PZ
1435504	3/4	PZ
1435505	1	PZ
1435506	1 1/4	PZ
1435507	1 1/2	PZ
1435508	2	PZ



### BRASS COUPLINGS F

Brass female coupling.

Cod.	G Thread (") x mm	UM
1433501	1/4	PZ
1433502	3/8	PZ
1433503	1/2	PZ
1433504	3/4	PZ
1433505	1	PZ
1433506	1 1/4	PZ
1433507	1 1/2	PZ
1433508	2	PZ
1433509	2 1/2	PZ
1433510	3	PZ



### BRASS TEES

Brass Tees.

Cod.	G Thread (") x mm	UM
1434001	1/4	PZ
1434002	3/8	PZ
1434003	1/2	PZ
1434004	3/4	PZ
1434005	1	PZ
1434006	1 1/4	PZ
1434007	1 1/2	PZ
1434008	2	PZ
1434009	2 1/2	PZ
1434010	3	PZ



# BALL VALVES

Full flow Brass ball valve.

Cod.	G(")	UM
1420001	1/4	PZ
1420002	3/8	PZ
1420003	1/2	PZ
1420004	3/4	PZ
1420005	1	PZ
1420006	1 1/4	PZ
1420007	1 1/2	PZ
1420008	2	PZ
1420009	2 1/2	PZ
1420010	3	PZ



# 3 WAY BALL VALVES

3 Way Brass ball valve.

Cod.	G(")	UM
1423001	1/4	PZ
1423002	3/8	PZ
1423003	1/2	PZ
1423004	3/4	PZ



# CHECK VALVES

Brass check valve.

Cod.	G(")	UM
1422101	1/4	PZ
1422102	3/8	PZ
1422103	1/2	PZ
1422104	3/4	PZ
1422105	1	PZ
1422106	1 1/4	PZ
1422107	1 1/2	PZ
1422108	2	PZ



# MUSHROOM HEAD LONG

Long threaded Brass mushroom head.

Cod.	G(")	L mm	UM
1411005	1	207	PZ
1411006	1 1/4	207	PZ
1411007	1 1/2	207	PZ



# INTAKE STRAINERS

Brass intake strainer.

Cod.	G(")	UM
1415002	3/8	PZ
1415003	1/2	PZ
1415004	3/4	PZ
1415005	1	PZ
1415006	1 1/4	PZ
1415007	1 1/2	PZ
1415008	2	PZ
1415009	2 1/2	PZ
1415010	3	PZ



# MUSHROOM HEAD

Threaded Brass mushroom head.

Cod.	G(")	UM
1410002	3/8	PZ
1410003	1/2	PZ
1410004	3/4	PZ
1410005	1	PZ
1410006	1 1/4	PZ
1410007	1 1/2	PZ
1410008	2	PZ
1410009	2 1/2	PZ
1410010	3	PZ



# CHROMED BRASS MUSHROOM HEAD

Chromed Brass threaded mushroom head.

Cod.	G(")	UM
1410902	3/8	PZ
1410903	1/2	PZ
1410904	3/4	PZ
1410905	1	PZ
1410906	1 1/4	PZ
1410907	1 1/2	PZ
1410908	2	PZ



# CHROMED BRASS COCKPIT DRAIN HEAD

Chromed Brass threaded cockpit drain head.

Cod.	G(")	UM
1411902	3/8	PZ
1411903	1/2	PZ
1411904	3/4	PZ
1411905	1	PZ
1411906	1 1/4	PZ
1411907	1 1/2	PZ
1411908	2	PZ



# CHROMED BRASS BARBED MUSHROOM HEAD

Chromed Brass barbed mushroom head.

Cod.	G(")	mm	UM
1411102	3/8	15	PZ
1411103	1/2	18	PZ
1411104	3/4	24	PZ
1411105	1	30	PZ
1411106	1 1/4	39	PZ
1411107	1 1/2	45	PZ
1411108	2	57	PZ



# HEX PIPE NUT

Brass plain hex pipe nut.

Cod.	G Thread (") x mm	UM
1436001	1/4	PZ
1436002	3/8	PZ
1436003	1/2	PZ
1436004	3/4	PZ
1436005	1	PZ
1436006	1 1/4	PZ
1436007	1 1/2	PZ
1436008	2	PZ



# FLANGED PIPE NUTS

Brass flanged pipe nuts.

Cod.	G Thread (") x mm	UM
1436402	3/8	PZ
1436403	1/2	PZ
1436404	3/4	PZ
1436405	1	PZ
1436406	1 1/4	PZ
1436407	1 1/2	PZ
1436408	2	PZ



# WASHERS

Brass washer.

Cod.	G(")	UM
1436602	3/8	PZ
1436603	1/2	PZ
1436604	3/4	PZ
1436605	1	PZ
1436606	1 1/4	PZ
1436607	1 1/2	PZ
1436608	2	PZ



# BRASS WASHER WITH GROUND CONNECTION

Brass washer with ground cable connection. Prevents galvanic current corrosion of brass strainers and drain heads.

Cod.	G(")	UM
1436502	3/8	PZ
1436503	1/2	PZ
1436504	3/4	PZ
1436505	1	PZ
1436506	1 1/4	PZ
1436507	1 1/2	PZ
1436508	2	PZ
1436509	2 1/2	PZ
1436510	3	PZ



### STAINLESS STEEL PIPE-TO-HOSE M

Stainless Steel male pipe to hose.

Cod.	G Thread (") x mm	UM
1438015	3/8x15	PZ
1438016	1/2x15	PZ
1438020	1/2x20	PZ
1438022	3/4x20	PZ
1438025	3/4x25	PZ
1438030	1x30	PZ
1438036	1 1/4x35	PZ
1438040	1 1/4x40	PZ
1438045	1 1/2x45	PZ
1438050	2x50	PZ



### STAINLESS STEEL PIPE-TO-HOSE F

Stainless Steel female pipe to hose.

Cod.	G Thread (") x mm	UM
1438115	3/8x15	PZ
1438120	1/2x20	PZ
1438125	3/4x25	PZ
1438130	1x30	PZ
1438140	1 1/4x40	PZ
1438145	1 1/2x45	PZ
1438150	2x50	PZ



### STAINLESS STEEL ELBOW 90° M-F

Stainless Steel male-female 90° elbow.

Cod.	G Thread (") x mm	UM
1438202	3/8	PZ
1438203	1/2	PZ
1438204	3/4	PZ
1438205	1	PZ
1438206	1 1/4	PZ
1438207	1 1/2	PZ
1438208	2	PZ



### STAINLESS STEEL ELBOW 90° F-F

Stainless Steel female-female 90° elbow.

Cod.	G Thread (") x mm	UM
1438302	3/8	PZ
1438303	1/2	PZ
1438304	3/4	PZ
1438305	1	PZ
1438306	1 1/4	PZ
1438307	1 1/2	PZ
1438308	2	PZ



### STAINLESS STEEL ELBOW 45° F-F

Stainless Steel female-female 45° elbow.

Cod.	G Thread (") x mm	UM
1438402	3/8	PZ
1438403	1/2	PZ
1438404	3/4	PZ
1438405	1	PZ
1438406	1 1/4	PZ
1438407	1 1/2	PZ
1438408	2	PZ



### STAINLESS STEEL NIPPLE M-M

Stainless Steel male to male nipple.

Cod.	G Thread (") x mm	UM
1438502	3/8	PZ
1438503	1/2	PZ
1438504	3/4	PZ
1438505	1	PZ
1438506	1 1/4	PZ
1438507	1 1/2	PZ
1438508	2	PZ



### STAINLESS STEEL THREADED PIPE COUPLING

Stainless Steel threaded pipe coupling.

Cod.	G Thread (") x mm	UM
1438602	3/8	PZ
1438603	1/2	PZ
1438604	3/4	PZ
1438605	1	PZ
1438606	1 1/4	PZ
1438607	1 1/2	PZ
1438608	2	PZ



### STAINLESS STEEL TEE

Stainless Steel tee.

Cod.	G Thread (") x mm	UM
1438702	3/8	PZ
1438703	1/2	PZ
1438704	3/4	PZ
1438705	1	PZ
1438706	1 1/4	PZ
1438707	1 1/2	PZ
1438708	2	PZ



### STAINLESS STEEL HEX PIPE BUSHING M-F

Stainless Steel male-female hex pipe bushing.

Cod.	G Thread (") x mm	UM
1438802	3/8x1/4	PZ
1438803	1/2x3/8	PZ
1438804	3/4x1/2	PZ
1438805	1x3/4	PZ
1438806	1 1/4x1	PZ
1438807	1 1/2x1 1/4	PZ
1438808	2x1 1/2	PZ



### STAINLESS STEEL HEX HEAD PLUG

Stainless Steel hex head plug.

Cod.	G Thread (") x mm	UM
1438902	3/8	PZ
1438903	1/2	PZ
1438904	3/4	PZ
1438905	1	PZ
1438906	1 1/4	PZ
1438907	1 1/2	PZ
1438908	2	PZ



### STAINLESS STEEL BALL VALVE

Stainless Steel ball valve.

Cod.	G Thread (") x mm	UM
1420301	1/4	PZ
1420302	3/8	PZ
1420303	1/2	PZ
1420304	3/4	PZ
1420305	1	PZ
1420306	1 1/4	PZ
1420307	1 1/2	PZ
1420308	2	PZ



### STAINLESS STEEL THREADED MUSHROOM HEAD

Stainless Steel threaded mushroom head.

Cod.	G Thread (") x mm	UM
1439302	3/8	PZ
1439303	1/2	PZ
1439304	3/4	PZ
1439305	1	PZ
1439306	1 1/4	PZ
1439307	1 1/2	PZ
1439308	2	PZ



### STAINLESS STEEL BARBED MUSHROOM HEAD

Stainless Steel barbed mushroom head.

Cod.	G (")	mm	UM
1439402	3/8	15	PZ
1439403	1/2	18	PZ
1439404	3/4	24	PZ
1439405	1	30	PZ
1439406	1 1/4	39	PZ
1439407	1 1/2	45	PZ
1439408	2	57	PZ



### STAINLESS STEEL INTAKE STRAINERS

Stainless Steel intake strainer.

Cod.	G Thread (") x mm	UM
1439502	3/8	PZ
1439503	1/2	PZ
1439504	3/4	PZ
1439505	1	PZ
1439506	1 1/4	PZ
1439507	1 1/2	PZ
1439508	2	PZ



### BRONZE PIPE-TO-HOSE M

Bronze male pipe-to-hose.

Cod.	G Thread (") x mm	UM
1430103	3/8x10	PZ
1430104	3/8x13	PZ
1430105	3/8x15	PZ
1430107	1/2x13	PZ
1430109	1/2x16	PZ
1430111	1/2x20	PZ
1430114	3/4x20	PZ
1430115	3/4x25	PZ
1430116	1x25	PZ
1430117	1x30	PZ
1430121	1 1/4x35	PZ
1430122	1 1/4x38	PZ
1430123	1 1/4x40	PZ
1430124	1 1/2x38	PZ
1430125	1 1/2x40	PZ
1430126	1 1/2x45	PZ
1430128	2x50	PZ



### BRONZE ELBOW M-F

Bronze male-female elbow.

Cod.	G Thread (") x mm	UM
1432022	3/8	PZ
1432023	1/2	PZ
1432024	3/4	PZ
1432025	1	PZ
1432026	1 1/4	PZ
1432027	1 1/2	PZ
1432028	2	PZ



### BRONZE ELBOW F-F

Bronze female-female elbow.

Cod.	G Thread (") x mm	UM
1432522	3/8	PZ
1432523	1/2	PZ
1432524	3/4	PZ
1432525	1	PZ
1432526	1 1/4	PZ
1432527	1 1/2	PZ
1432528	2	PZ



### BRONZE DOUBLE NIPPLE

Bronze double nipple.

Cod.	G Thread (") x mm	UM
1433022	3/8	PZ
1433023	1/2	PZ
1433024	3/4	PZ
1433025	1	PZ
1433026	1 1/4	PZ
1433027	1 1/2	PZ
1433028	2	PZ



### BRONZE DOUBLE REDUCING NIPPLE

Bronze double reducing nipple.

Cod.	G Thread (") x mm	UM
1434523	1/2x3/8	PZ
1434524	3/4x1/2	PZ
1434525	1x3/4	PZ
1434526	1 1/4x1	PZ
1434527	1 1/2x1 1/4	PZ
1434528	2x1 1/2	PZ



### BRONZE HEX PIPE BUSHING M-F

Bronze male to female hex pipe bushing.

Cod.	G Thread (") x mm	UM
1435023	1/2x3/8	PZ
1435024	3/4x1/2	PZ
1435025	1x3/4	PZ
1435026	1 1/4x1	PZ
1435027	1 1/2x1 1/4	PZ
1435028	2x1 1/2	PZ



### BRONZE TEE

Bronze Tee.

Cod.	G Thread (") x mm	UM
1434022	3/8	PZ
1434023	1/2	PZ
1434024	3/4	PZ
1434025	1	PZ
1434026	1 1/4	PZ
1434027	1 1/2	PZ
1434028	2	PZ



### BRONZE COUPLINGS F

Bronze female coupling.

Cod.	G Thread (") x mm	UM
1433522	3/8	PZ
1433523	1/2	PZ
1433524	3/4	PZ
1433525	1	PZ
1433526	1 1/4	PZ
1433527	1 1/2	PZ
1433528	2	PZ



### BRONZE SQUARE HEAD PLUG

Bronze square head plug.

Cod.	G Thread (") x mm	UM
1435522	3/8	PZ
1435523	1/2	PZ
1435524	3/4	PZ
1435525	1	PZ
1435526	1 1/4	PZ
1435527	1 1/2	PZ
1435528	2	PZ



### BRONZE BALL VALVE

Full flow Bronze ball valve.  
Stainless Steel lever.

Cod.	G(")	UM
1420102	3/8	PZ
1420103	1/2	PZ
1420104	3/4	PZ
1420105	1	PZ
1420106	1 1/4	PZ
1420107	1 1/2	PZ
1420108	2	PZ



### BRONZE NON-BLOCK BALL VALVE

Full flow non-block Bronze ball valve.  
It doesn't get blocked even after long time of non-use.

Cod.	G(")	UM
1420122	3/8	PZ
1420123	1/2	PZ
1420124	3/4	PZ
1420125	1	PZ
1420126	1 1/4	PZ
1420127	1 1/2	PZ
1420128	2	PZ



### BRONZE INTAKE STRAINER

Bronze intake strainer. To be completed with 1410023/28 mushroom heads.

Cod.	G(")	UM
1415043	1/2	PZ
1415044	3/4	PZ
1415045	1	PZ
1415046	1 1/4	PZ
1415047	1 1/2	PZ
1415048	2	PZ



### BRONZE MUSHROOM HEAD

Threaded Bronze mushroom head.

Cod.	G(")	UM
1410023	1/2	PZ
1410024	3/4	PZ
1410025	1	PZ
1410026	1 1/4	PZ
1410027	1 1/2	PZ
1410028	2	PZ



### ARMO HOSE

Helical steel wire reinforced nontoxic PVC hose.  
For water intake and drain.

Cod.	Inner ø mm	Outer ø mm	Coil m	UM
140001030	10	16	30	MT
140001230	12	18	30	MT
140001430	14	20.4	30	MT
140001630	16	22.4	30	MT
140001830	18	24.4	30	MT
140002030	20	27	30	MT

Cod.	Inner ø mm	Outer ø mm	Coil m	UM
140002530	25	33	30	MT
140002830	28	36	30	MT
140003030	30	38.4	30	MT
140003530	35	44	30	MT
140003815	38	47	15	MT
140004015	40	49	15	MT
140004515	45	55	15	MT
140005015	50	60	15	MT
140006015	60	72	15	MT



### OCEAN ANTI-TORSION HOSE

Braid-reinforced nontoxic PVC anti-torsion hose for boat  
washing and water inlet.  
Temperature range: -10°/+60°C

Cod.	Inner ø mm	Outer ø mm	Coil m	UM
140611225	12/13	17	25	MT
140611625	15/16	21	25	MT
140612025	19/20	25	25	MT
140612525	25	32	25	MT



### SANITATION HOSE

Helical steel wire reinforced nontoxic PVC hose.  
For water intake and drain, sanitation and toilets.

Cod.	Inner ø mm	Outer ø mm	Coil m	UM
140011430	14	21	30	MT
140011630	16	23	30	MT
140012030	20	27	30	MT

Cod.	Inner ø mm	Outer ø mm	Coil m	UM
140012530	25	33	30	MT
140013030	30	38	30	MT
140013530	35	44	30	MT
140013815	38	48	15	MT
140014015	40	50	15	MT
140014515	45	54	15	MT
140015015	50	61	15	MT



### WC SANIPOMP HOSE (NO SMELL)

Helical steel wire reinforced nontoxic Rubber hose.  
Ideal for toilets and sanitation systems,  
it blocks unpleasant odors.

Cod.	Inner ø mm	Outer ø mm	Coil m	UM
140032010	20	29	10	MT
140032510	25	35	10	MT
140033810	38	48	10	MT



### R.I.NA. FUEL HOSE

Self-extinguishing rubber hose for fuel supply and intake.  
R.I.Na. CE0474 certified.

Cod.	Inner ø mm	Outer ø mm	Coil m	UM
140200620	6	16	20	MT
140200820	8	17	20	MT
140201020	10	19	20	MT
140201320	12	22	20	MT

Cod.	Inner ø mm	Outer ø mm	Coil m	UM
140201520	16	26	20	MT
140201920	19	30	20	MT
140202520	25	37	20	MT
140203020	30	42	20	MT
140203810	38	52	10	MT
140204010	40	54	10	MT
140205010	50	65	10	MT



### R.I.NA. HELIX WIRED FUEL HOSE

Self-extinguishing rubber double Steel helix wired  
hose for fuel supply and intake.  
R.I.Na. and CE ISO7840:2013A1 certified.

Cod.	Inner ø mm	Outer ø mm	Coil m	UM
140213810	38	48	10	MT
140215010	51	61	10	MT



### R.I.NA. DIP - 100°C SMOOTH ENGINE EXHAUST HOSE

Steel helix wire flexible Rubber smooth exhaust hose.  
For engine water and engine exhaust gas up to 100°C.  
Standards:  
SAE J 2006: 03 R2-ISO 13363:04-Type 2 Class B.  
Approved:  
R.I.Na.-LLOYD'S REGISTER nr.96/00126 (E3).

Cod.	Inner ø mm	Outer ø mm	Coil m	UM
140334010	40	49	10	MT
140334510	45	54	10	MT
140335010	51	61	10	MT
140336010	60	70	10	MT



### R.I.NA. DIP - 100°C SMOOTH ENGINE EXHAUST HOSE

Steel helix wire flexible corrugated Rubber exhaust hose.  
For engine water and engine exhaust gas up to 100°C.  
Standards:  
SAE J 2006:2003 R2-ISO 13363:2004-Type 2 Class B.  
Approved:  
LLOYD'S REGISTER N.96/00127 - R.I.Na. N.DIP 075110CS.

Cod.	Inner ø mm	Outer ø mm	Coil m	UM
140354010	40	48	10	MT
140354510	45	53	10	MT
140355010	50	60	10	MT
140356010	60	70	10	MT
140357510	75	85	10	MT

Cod.	Inner ø mm	Outer ø mm	Coil m	UM
140358010	80	90	10	MT
140359010	90	100	10	MT
140360005	102	115	5	MT
140360010	102	115	10	MT
140361005	110	122	5	MT
140361010	110	122	10	MT
140361205	127	139	5	MT
140361210	127	139	10	MT
140361505	152	164	5	MT
140361510	152	164	10	MT





#### S/STEEL GERMANY TYPE CLAMP 9

Full strip DIN 3017 thin clamp.  
Stainless Steel strip, housing and screw.  
Smooth edges, does not damage clamped hoses.

Cod.	Dia. Range mm	Band mm	UM
1400805	8/12	9	PZ
1400806	10/16	9	PZ
1400810	12/22	9	PZ
1400814	16/27	9	PZ
1400820	20/32	9	PZ
1400824	25/40	9	PZ
1400830	30/45	9	PZ
1400835	35/50	9	PZ
1400840	40/60	9	PZ



#### S/STEEL GERMANY TYPE CLAMP 12

Full strip DIN 3017 standard clamp.  
Stainless Steel strip, housing and screw.  
Smooth edges, does not damage clamped hoses.

Cod.	Dia. Range mm	Band mm	UM
1401410	12/22	12	PZ
1401414	16/27	12	PZ
1401418	20/32	12	PZ
1401421	25/40	12	PZ
1401427	35/50	12	PZ
1401440	40/60	12	PZ
1401450	50/70	12	PZ
1401460	60/80	12	PZ
1401470	70/90	12	PZ
1401480	80/100	12	PZ
1401490	90/110	12	PZ



#### S/STEEL HY-TORQUE CLAMP HD

Heavy duty very sturdy construction clamp with 3 times superior fastening torque. Stainless Steel strip, housing and screw.

Cod.	Dia. Range mm	Band mm	UM
1401825	27/51	15.8	PZ
1401832	33/57	15.8	PZ
1401845	46/70	15.8	PZ
1401857	59/83	15.8	PZ
1401870	71/95	15.8	PZ
1401883	84/108	15.8	PZ
1401895	90/114	15.8	PZ
1401908	103/127	15.8	PZ
1401912	117/140	15.8	PZ
1401913	130/152	15.8	PZ
1401914	141/165	15.8	PZ
1401916	157/178	15.8	PZ
1401917	168/216	15.8	PZ
1401918	181/254	15.8	PZ
1401923	238/311	15.8	PZ



#### S/STEEL T-BOLT COLLAR HD

Professional heavy duty bolt collar with 5 times superior fastening torque. Stainless Steel strip, nut and screw.

Cod.	Dia. Range mm	UM
1401529	29/31	PZ
1401532	32/35	PZ
1401536	36/39	PZ
1401540	40/43	PZ
1401544	44/47	PZ
1401548	48/51	PZ
1401552	52/55	PZ
1401556	56/59	PZ
1401560	60/63	PZ
1401562	64/67	PZ
1401568	68/73	PZ
1401570	74/79	PZ
1401580	80/85	PZ
1401586	86/91	PZ
1401590	92/97	PZ
1401595	98/103	PZ
1401596	104/112	PZ
1401597	113/121	PZ
1401598	122/130	PZ
1401599	131/139	PZ
1401601	140/148	PZ
1401602	149/161	PZ
1401603	162/174	PZ
1401604	175/187	PZ
1401605	188/200	PZ



#### CLAMP CHOCKS

Rubber seal clamp chock to hold and fix all type of hoses, pipes and wires. 304 Stainless Steel strip.

Cod.	Dia. Range mm	Band mm	UM
1400508	8	16	PZ
1400510	10	16	PZ
1400512	12	16	PZ
1400514	14	16	PZ
1400516	16	16	PZ
1400518	18	16	PZ
1400520	20	16	PZ
1400522	22	16	PZ
1400525	25	16	PZ
1400530	30	16	PZ
1400535	35	16	PZ
1400540	40	16	PZ
1400550	50	16	PZ
1400560	60	16	PZ



### FLEX FUEL HOSE

Flexible fuel hose.

Cod.	Inner ø mm	L m	UM
4036000	8	25	MT



### EXTRAFLEX FUEL HOSE

High quality and durable fuel hose, remains flexible for long time.

Cod.	Inner ø mm	L m	UM
4036003	8	50	MT



### GREYFLEX FUEL HOSE

"Like Genuine" grey flexible and tough fuel hose.

Cod.	Inner ø mm	L m	UM
4036002	8 (5/16)	15	MT
4036005	10 (3/8)	15	MT



### MTM EXTRA FLOW FUEL BULB

MTM Extra Flow great quality and durable fuel primer bulb.

Cod.	Fittings ø mm	UM
4037500	8	PZ
4037501	10	PZ



### CAN FUEL BULB

Can primer bulb.

Cod.	Fittings ø mm	UM
4037000	8	PZ



### GREYFLEX FUEL HOSE

"Like Genuine" grey flexible and tough fuel hose.

Cod.	Fittings ø mm	UM
4037005	8	PZ
4037007	10	PZ



### SPRING CLAMPS

Spring clamps for outboard tubing.

Cod.	UM
4038000	PZ



### S/STEEL GERMANY TYPE CLAMP 9

Full strip DIN 3017 thin clamp. Stainless Steel strip, housing and screw. Smooth edges, does not damage clamped hoses.

Cod.	Dia. Range mm	Band mm	UM
1400805	8/12	9	PZ
1400806	10/16	9	PZ



### CAN STANDARD FUEL LINE

8 mm Flex fuel line with primer bulb.

Cod.	L m	UM
4037020	2	CF
4037030	3	CF



### CAN EXTRA FUEL LINE

8 mm Extra-Soft fuel line with primer bulb.

Cod.	L m	UM
4037022	2	CF



### GREY FUEL LINE

10 mm Grey fuel line with primer bulb.

Cod.	L m	UM
4037524	2.10	CF



### GREY FUEL LINE M

Grey fuel line with primer bulb and Mercury connectors.

Cod.	L m	UM
4037540	2.10	CF



### GREY FUEL LINE Y

Grey fuel line with primer bulb and Yamaha connectors.

Cod.	L m	UM
4037542	2.10	CF



### GREY FUEL LINE J/E

Grey fuel line with primer bulb and Johnson/Evinrude connectors.

Cod.	L m	UM
4037543	2.10	CF



### GREY FUEL LINE H

Grey fuel line with primer bulb and Honda connectors.

Cod.	L m	UM
4037544	2.10	CF



### "UN" FUEL CANS

Plastic fuel cans built in compliance with "UN" European Rules.  
Endowed with flexible spout.

Cod.	Lt	Base cm	Height cm	UM
4020005	5	26 x 14	24	PZ
4020010	10	30 x 17	26	PZ
4020022	20	35 x 19	38	PZ



### METAL MILITARY FUEL CANS

Metal Military fuel cans.  
Built according to the most severe safety rules.

Cod.	Lt	Accessories	UM
4021010	10		PZ
4021020	20		PZ
4021001		Flexible Spout	PZ



### MR.FUNNEL

Special no-water filter with a specific net to filter out water and dirt.  
Essential for safe and clean refuelling.

Cod.					UM
4039010	F3	135	225	13	PZ
4039011	F5	200	250	19	PZ



### BW-C BILGE PUMP

BW-C compact submersible bilge pump.

Cod.	Ref	Capacity Lt/min	Port ø mm	V	UM
1821005	WB-550	35	20	12	PZ
1821011	WB-1100	69	30	12	PZ



### BW-M BILGE PUMP

BW-M medium capacity submersible bilge pump.

Cod.	Ref	Capacity Lt/min	Port ø mm	V	UM
1821015	WB-1500	95	30	12	PZ
1821016	WB-1500	95	30	24	PZ
1821020	WB-2000	126	30	12	PZ
1821021	WB-2000	126	30	24	PZ



### BW-L BILGE PUMP

BW-L big capacity submersible bilge pump.

Cod.	Ref	Capacity Lt/min	Port ø mm	V	UM
1821037	WB-3700	233	38	12	PZ
1821038	WB-3700	233	38	24	PZ
1821047	WB-4700	297	50	12	PZ
1821048	WB-4700	297	50	24	PZ



### JOHNSON CRT BILGE PUMP

Johnson Cartridge submersible great quality and long life bilge pump. Easy to open and clean.

Cod.	Ref	Capacity Lt/min	Port ø mm	V	UM
1822005	L450	40	20	12	PZ
1822007	L550	50	20	12	PZ
1822010	L650	63	20	12	PZ
1822012	L750	73	30	12	PZ



### JOHNSON DURA BILGE PUMP

Johnson Dura great capacity and long life submersible bilge pump. Designed and built with great reliability and long life materials.

Cod.	Ref	Capacity Lt/min	Port ø mm	V	UM
1822016	1600	100	30	12	PZ
1822018	1600	100	30	24	PZ
1822022	2200	132	30/38	12	PZ
1822024	2200	132	30/38	24	PZ



### JOHNSON HEAVY DUTY BILGE PUMP

Johnson Heavy Duty great capacity and long life submersible bilge pump. Designed and built with great reliability and long life materials.

Cod.	Ref	Capacity Lt/min	Port ø mm	VV	UM
1822042	L4000	252	38/45 (1" 1/2 - 2")	12	PZ
1822044	L4000	252	38/45 (1" 1/2 - 2")	24	PZ



### JOHNSON EXTRA FLAT BILGE PUMP

Johnson submersible low-profile bilge pump for tight and narrow bilges. Easy to open and clean. 72 mm height only.

Cod.	Ref	Capacity Lt/min	Port ø mm	V	UM
1822101	L550 LB	35	20	12	PZ
1822102	L750 LB	47	30	12	PZ



### SEAFLO BILGE PUMP

SeaFlo corrosion free components submersible bilge pump. Easy to open and clean. Complete with 19 mm (3/4") fittings kit.

Cod.	Ref	Capacity Lt/min	Port ø mm	V	UM
1821203	SF-350-12V	22	20	12	PZ
1821206	SF-600-12V	38	20	12	PZ
1821208	SF-800-12V	50	20	12	PZ



### ATTWOOD TSUNAMI BILGE PUMP

Attwood Tsunami bilge pump with 3 YEARS WARRANTY. Quick opening filter base for easy cleaning.

Cod.	Ref	Capacity Lt/min	Port ø mm	V	UM
1821805	T500	32	20 (3/4")	12	PZ
1821808	T800	50	20 (3/4")	12	PZ
1821812	T1200	76	30 (1" 1/8)	12	PZ



### ATTWOOD HD BILGE PUMP

Attwood HD heavy duty submersible bilge pump with 3 YEARS OF WARRANTY. Stainless Steel motor shaft and molded seals to prevent infiltrations.

Cod.	Ref	Capacity Lt/min	Port ø mm	V	UM
1821817	HD1700	107	30 (1" 1/8)	12	PZ
1821820	HD2000	126	30 (1" 1/8)	12	PZ
1821822	HD2000	126	30 (1" 1/8)	24	PZ



### RULE C BILGE PUMP

Rule compact submersible bilge pump.

Cod.	Ref	Capacity Lt/min	Port ø mm	V	UM
1821503	360	23	20	12	PZ
1821505	500	32	20	12	PZ
1821511	1100	69	30	12	PZ



### RULE L BILGE PUMP

Rule L great capacity and resistance submersible bilge pump.

Cod.	Ref	Capacity Lt/min	Port ø mm	V	UM
1821515	1500	95	30	12	PZ
1821516	1500	95	30	24	PZ
1821520	2000	126	30	12	PZ
1821524	2000	126	30	24	PZ
1821530	3700	233	38	12	PZ
1821534	3700	233	38	24	PZ



### EL-MARINE FLOATING SWITCH

Bilge pump switch with floating lever.  
Universal power supply 6-12-24-32 V.

Cod.	UM
1823000	PZ



### BW FLOATING SWITCH

Bilge pump switch with floating lever.  
Universal power supply 6-12-24-32 V.

Cod.	UM
1823006	PZ



### RULE FLOATING SWITCH

Rule Bilge pump switch with floating lever.  
Universal power supply 6-12-24-32 V.

Cod.	UM
1823606	PZ



### ATTWOOD FLAT FLOATING SWITCH

Attwood extra flat bilge pump switch with floating lever.  
Universal 12/24V power supply.

Cod.	UM
1823002	PZ



### JOHNSON FLOATING SWITCH

Johnson no Mercury Bilge pump switch with floating lever.  
Universal power supply 6-12-24-32 V.

Cod.	UM
1823005	PZ



### EL-MARINE CAGE FLOATING SWITCH

Bilge pump switch with floating lever and guard cover.  
Universal power supply 6-12-24-32 V.

Cod.	UM
1823004	PZ



### LAGUNA ELECTRONIC DIGITAL SWITCH

12/24V Laguna digital electronic switch that detects water in the bilge and automatically activates with programmed delay that avoids false starts due to splashing water or dirt. Completely sealed and corrosion resistant.

Cod.	V	UM
1823018	12/24	PZ



### JOHNSON ULTIMA ELECTRONIC SWITCH

Johnson universal electronic switch for 12/24V bilge pumps.  
Watertight, wear resistant, with no moving components.  
Dim: 85 x 67 x 29 mm

Cod.	A	V	UM
1823515	20	12/24	PZ



### ATTWOOD S3 ELECTRONIC SWITCH

Attwood S3 electronic switch that detects any type of liquid in the bilge but won't expose the pump to continuous cycling because identifies false starts due to splashing water or dirt. Outstanding lifetime with 5 YEARS OF WARRANTY because built without moving parts.

Cod.	Color	V	UM
1823058	Bianco	12	PZ
1823059	Nero	24	PZ



### QUICK ELECTRONIC SWITCHES

Wear resistant Quick electronic switch for bilge pumps with no moving components. It detects the presence of water with digital filter avoiding false switch-on/off. Can be manually activated from remote switch. Universal 12/24V power supply, IP68 protection. Idle current consumption: 7,5 mA.

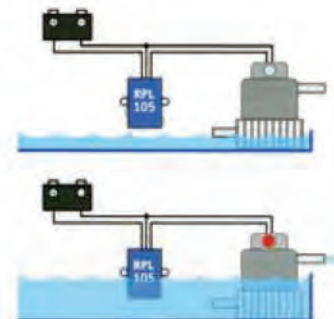
Cod.	Ah	Dimensions mm	UM
1823010	10	75 x 90 x 38	PZ
1823015	15	75 x 90 x 38	PZ
1823020	20	75 x 90 x 38	PZ



### BINDINO ELECTRONIC SWITCH

Bindino automatic bilge pump switch. Controls the presence of water adjusting its parameters according to bilge liquid, preventing unnecessary activations of the pump. Universal 12/24V power supply, complete with led indicator. IP68 protection.

Cod.	Ref	Dimensions mm	UM
1823016	RPL105	53 x 78 x 35	PZ



**JOHNSON SELF-PRIMING PUMPS**

Johnson Nitrile impeller and Bronze head multipurpose self-priming pumps.  
For fresh water, salt water, oil or diesel pouring and bilge pumping.

Cod.	Ref	Lt/min	ø Ports Int" - Ext mm	Dim mm	V	Spare	UM
<b>1825802</b>	F3B-19	22	3/8 - 20	170 x 100 x 82	12		PZ
<b>1825805</b>	F38B-19	36	1/2 - 25	180 x 120 x 90	12		PZ
<b>1825806</b>	F38B-19	36	1/2 - 25	180 x 120 x 90	24		PZ
<b>1825812</b>	F4B-19	50	1/2 - 25	202 x 120 x 90	12		PZ
<b>1825814</b>	F4B-19	50	1/2 - 25	202 x 120 x 90	24		PZ
<b>1816134</b>						1825802 Impeller	PZ
<b>1816135</b>						1825805/06/12/14 Impeller	PZ
<b>1825852</b>						1825802 Service kit	PZ
<b>1825855</b>						1825805/06 Service Kit	PZ

**JABSCO WATER PUPPY 2000 SELF-PRIMING PUMP**

Jabco Nitrile impeller and Bronze pump head self-priming pump.  
For fresh water, salt water and bilge pumping.

Cod.	Lt/min	ø Ports Int" - Ext mm	Dim mm	V	Spare	UM
<b>1825700</b>	32	1/2 - 25	194 x 86 x 89	12		PZ
<b>1825724</b>	32	1/2 - 25	194 x 86 x 89	24		PZ
<b>1815135</b>					Impeller	PZ

**OCEAN DECK SELF-PRIMING PUMPS**

Ocean Nitrile impeller self-priming pumps.  
For fresh water, salt water and bilge pumping.

Cod.	Head	Lt/min	ø Ports Int" - Ext mm	Dim mm	V	Spare	UM
<b>1825500</b>	Bronze	32	1/2	160 x 120 x 80	12		PZ
<b>1825501</b>	Plastic	32	1/2 - 25	160 x 120 x 80	12		PZ
<b>1825600</b>	Bronze	45	1/2 - 25	180 x 120 x 80	12		PZ
<b>1825624</b>	Bronze	45	1/2 - 25	180 x 120 x 80	24		PZ
<b>1814135</b>						Impeller	PZ

**MARCO SELF-PRIMING PUMPS**

Marco UP1 Nitrile impeller and Bronze head self-priming pumps.  
Waterproof casing and watertight wire seal. For fresh water, salt water and bilge pumping.

Cod.	Ref	Lt/min	ø Ports Int" - Ext mm	Dim mm	V	Spare	UM
<b>1825400</b>	UP1-J	28	3/8 - 20	152 x 95 x 82	12		PZ
<b>1825401</b>	UP1-N	35	1/2 - 25	179 x 120 x 94	12		PZ
<b>1825402</b>	UP1-N	35	1/2 - 25	179 x 120 x 94	24		PZ
<b>1825403</b>	UP1-M	45	1/2 - 25	194 x 120 x 98	12		PZ
<b>1825404</b>	UP1-M	45	1/2 - 25	194 x 120 x 98	24		PZ
<b>1816133</b>						1825400 Impeller	PZ
<b>1816135</b>						1825401/02/03/04 Impeller	PZ



MATERIALS		
Components	NM, NMS	B-NM, B-NMS
Pump casing Lantern bracket NM Casing cover for NMS	Cast iron GJL 200EN 1561	Bronze G-Cu Sn 10 EN 1982
Lantern bracket NMS	Cast iron GJL 200 EN 1561	
Impeller	Cast iron GJL 200 EN 1561   Bronze G-Cu Sn 10 EN 1982	
	Brass P- Cu Zn 40 Pb 2 UNI 5705 for NM 32/12-16-20, NM 40/20, B-NM 32/125-160-200, B-NM 40/200	
Shaft	AISI 303 up to 2.2 kW	Cr Ni Mo steel AISI 316
	AISI 430 from 3 kW to 75 kW	
Mechanical seal	Carbon - Ceramic - NBR	
Counter-flanges	Steel Fe 430B UNI 7070	



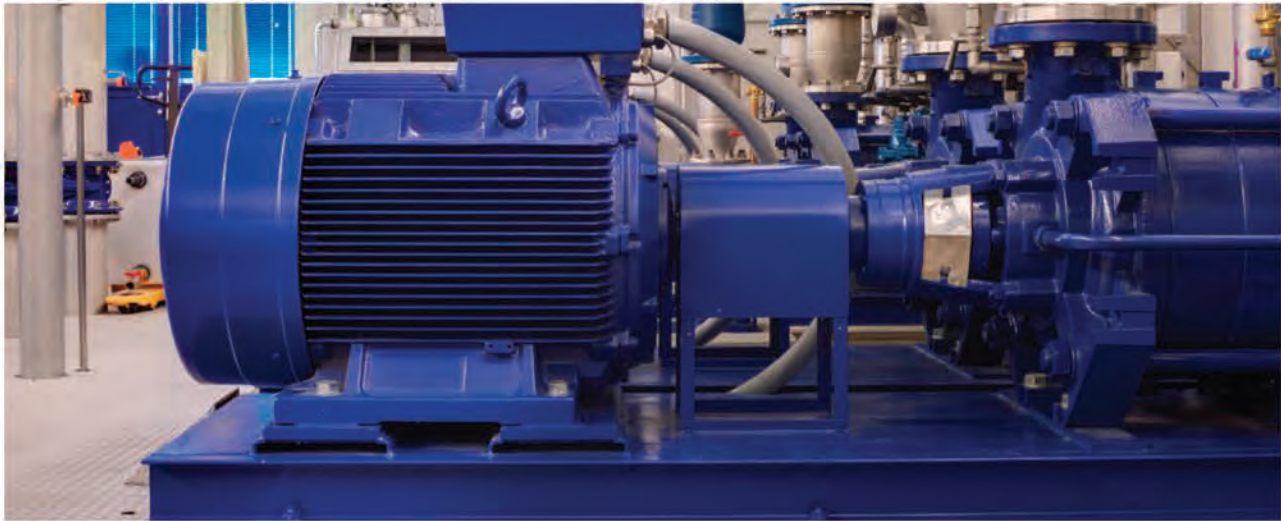
SINGLE AND TWIN IMPELLER CENTRIFUGAL PUMPS - NM , NM S MOTOR

2-pole induction motor, 50 Hz (n ≈ 2900 rpm).  
NM, NMS: three-phase 230/400 V Δ} 10% up to 3 kW;  
400/690 V Δ} 10% from 4 to 75 kW.  
Insulation class F. Protection IP 54 (IP 55 for NMS).  
Classification scheme IE2 for three-phase motor from 0,75 kW.  
Constructed in accordance with: EN 60034-1;  
EN 60034-30



Performance n ≈ 2900 rpm			
B-NM	NM	P2	
		kW	HP
CAL B-NM 32/12F	MM CAL NM 32/12FE	0,55	0,75
CAL B-NM 32/12D	MM CAL NM 32/12DE	0,75	1
CAL B-NM 32/12A	MM CAL NM 32/12AE	1,1	1,5
CAL B-NM 32/12S	MM CAL NM 32/12SE	1,5	2
CAL B-NM 32/16B	MM CAL NM 32/16BE	1,5	2
CAL B-NM 32/16A/A	MM CAL NM 32/16A/A	2,2	3
CAL B-NM 32/20D/A	MM CAL NM 32/20D/A	2,2	3
CAL B-NM 32/20C/A	MM CAL NM 32/20C/A	3	4
CAL B-NM 32/20A/A	MM CAL NM 32/20A/A	4	5,5

Performance n ≈ 2900 rpm			
B-NM	NM	P2	
		kW	HP
CAL B-NM 40/12F	CAL NM 40/12F/A	1,1	1,5
CAL B-NM 40/12C	CAL NM 40/12C/A	1,5	2
CAL B-NM 40/12A/A	CAL NM 40/12A/B	2,2	3
CAL B-NM 40/16C/A	CAL NM 40/16C/B	2,2	3
CAL B-NM 40/16B/A	CAL NM 40/16B/B	3	4
CAL B-NM 40/16A/A	CAL NM 40/16A/B	4	5,5
CAL B-NM 40/20D/A	CAL NM 40/20D/A	4	5,5
CAL B-NM 40/20C/A	CAL NM 40/20C/A	4	5,5
CAL B-NM 40/200B/A	CAL NM 40/20B/A	5,5	7,5
	CAL NM 40/20AR/A	5,5	7,5
CAL B-NM 40/200A/A	CAL NM 40/20A/A	7,5	10
CAL B-NM 4025C/B	CAL NM 40/25C/B	9,2	12,5
CAL B-NM 4025B/B	CAL NM 40/25B/B	11	15
CAL B-NM 4025A/B	CAL NM 40/25A/B	15	20



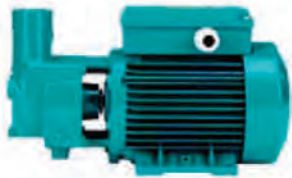
Performance n ≈ 2900 rpm			
B-NM	NM	P2	
		kW	HP
CAL B-NM 50/12F/A	CAL NM 50/12F/B	2,2	3
CAL B-NM 50/12D/A	CAL NM 50/12D/B	3	4
CAL B-NM 50/12A/A	CAL NM 50/12A/B	4	5,5
CAL B-NM 50/12S/A	CAL NM 50/12S/B	4	5,5
CAL B-NM 50/160B/B	CAL NM 50/16B/B	5,5	7,5
CAL B-NM 50/160A/B	CAL NM 50/16A/B	7,5	10
CAL B-NM 50/200B/B	CAL NM 50/20B/B	9,2	12,5
CAL B-NM 50/200A/B	CAL NM 50/20A/B	11	15
CAL B-NM 50/200S/B	CAL NM 50/20S/B	15	20
CAL B-NM 5025/C/B	CAL NM 50/25C/B	11	15
CAL B-NM 5025/B/B	CAL NM 50/25B/B	15	20
CAL B-NM 5025/A/B	CAL NM 50/25A/B	18,5	25
CAL B-NM 5025/65E/A	CAL NM 50M/E/A	11	15
CAL B-NM 5025/65D/A	CAL NM 50M/D/A	15	20
CAL B-NM 5025/65C/A	CAL NM 50M/C/A	18,5	25

Performance n ≈ 2900 rpm			
B-NM - B-NMS	NM - NMS	P2	
		kW	HP
	CAL NM 65/12E/A	4	5,5
CAL B-NM 65/125C/A	CAL NM 65/12C/A	5,5	7,5
CAL B-NM 65/125A/A	CAL NM 65/12A/A	7,5	10
CAL B-NM 65/160E/A	CAL NM 65/16E/A	5,5	7,5
CAL B-NM 65/160D/A	CAL NM 65/16D/A	7,5	10
CAL B-NM 65/160C/A	CAL NM 65/16C/A	9,2	12,5
CAL B-NM 65/160B/A	CAL NM 65/16B/A	11	15
CAL B-NM 65/160A/A	CAL NM 65/16A/A	15	20
CAL B-NM 65/200C/A	CAL NM 65/20C/A	15	20
CAL B-NM 65/200B/A	CAL NM 65/20B/A	18,5	25
CAL B-NM 65/200A/A	CAL NM 65/200A/A	22	30
CAL B-NM 65/250C/A	CAL NM 65/250C/A	22	30
CAL B-NM 65/250B/A	CAL NM 65/250B/A	30	40
CAL B-NMS 65/250A	CAL NMS 65/250A	37	50

Performance n ≈ 2900 rpm			
B-NM - B-NMS	NM - NMS	P2	
		kW	HP
CAL B-NM 80/160E/A	CAL NM 80/16E/A	7,5	10
CAL B-NM 80/160D/A	CAL NM 80/16D/A	9,2	12,5
CAL B-NM 80/160C/A	CAL NM 80/16C/A	11	15
CAL B-NM 80/160B/A	CAL NM 80/16B/A	15	20
CAL B-NM 80/160A/A	CAL NM 80/16A/A	18,5	25
CAL B-NMS 80/200B	CAL NM 80/200B/A	22	30
CAL B-NMS 80/200A	CAL NM 80/200A/A	30	40
CAL B-NMS 80/250E	CAL NM 80/250E/A	22	30
CAL B-NMS 80/250D	CAL NM 80/250D/A	30	40
CAL B-NMS 80/250C	CAL NMS 80/250C	37	50
CAL B-NMS 80/250B	CAL NMS 80/250B	45	60
CAL B-NMS 80/250A	CAL NMS 80/250A	55	75
CAL B-NMS 100/200E	CAL NM 100/200E/A	18,5	25
CAL B-NMS 100/200D	CAL NM 100/200D/A	22	30
CAL B-NMS 100/200C	CAL NM 100/200C/A	30	40
CAL B-NMS 100/200B	CAL NMS 100/200B	37	50
CAL B-NMS 100/200A	CAL NMS 100/200A	45	60
CAL B-NMS 100/250B	CAL NMS 100/250B	55	75
CAL B-NMS 100/250A	CAL NMS 100/250A	75	100

MATERIALS	
Component	Material
Pump casing Union coupling	ABS (Acrylonitrile-Butadiene-Styrene)
Diffuser cover Impeller	Glass reinforced thermoplastic: PPO-GF30, NORYL*
Diffuser-wall with wear-ring	Cr-Ni-Mostainless steel 1.4401 EN 10088 (AISI 316)
Mechanical seal	Ceramic alumina, Carbon, FPM

Performance n ≈ 2800 rpm		
3~	230 V (A)	400 V (A)
CAL SPA 11	2,8	1,6
CAL SPA 21/A	3	1,7
CAL SPA 31/A	3,7	2,2
CAL SPA 41	4,7	2,7



SELF-PRIMING PUMPS - CA

MOTOR

2-pole induction motor, 50 Hz (n = 2900 rpm).  
CA: three-phase 230/400 V Δ}10%.  
CAM: single-phase 230 V Δ}10%, with thermal protector.  
Capacitor inside the terminal box.  
Insulation class F.  
Protection IP 54.  
Classification scheme IE2 for three-phase motors from 0,75 kW.  
Constructed in accordance with:  
EN 60034-1; EN 60034-30.  
EN 60335-1, EN 60335-2-41.

SWIMMING-POOL AND WHIRPOOL PUMPS - SPA

MOTOR

2-pole induction motor, 50 Hz (n = 2800 rpm).  
SPA: three-phase 230/400 V Δ} 10%.  
SPAM: single-phase 230 V Δ} 10%, with thermal protector.  
Capacitor inside the terminal box.  
Insulation class F.  
Protection IP X5.  
Classification scheme IE2 for three-phase motors from 0,75 kW.  
Constructed in accordance with:  
EN 60034-1; EN 60034-30.  
EN 60335-1, EN 60335-2-41.



MATERIALS		
Components	CA	B - CA
Pump casing Lantern bracket	Cast iron GJL 200 EN 1561	Bronze G-Cu Sn 10 EN 1982
Impeller	Brass P- Cu Zn Pb 2 UNI 5705	
Shaft	Chrome steel 1.4104 EN 10088 AISI 430	Cr-Ni-Mo steel 1.4401 EN 10088 AISI 316
Mechanical seal	Carbon - Ceramic - NBR	

Performance n ≈ 2800 rpm		
3~	230 V (A)	400 V (A)
CAL CA 60E CAL B-CA 60E	1,7	1
CAL CA 80E CAL B-CA 80/A	2,8 2,3	1,6 1,3
CAL CA 90/A CAL B-CA 90/A	3	1,7
CAL CA 91/A CAL B-CA 91/A	3,7	2,2

**ACB 61G****ACB 80****ACB 61G - AC B 80 - ACB 90 SELF - PRIMING EL /PUMPS**

Bilge, chain washing, fire-fighting, intake diesel oil, water supply and all application with high air content liquids, etc.

Bilge, fire-fighting, chain washing, intake diesel oil, plants water supply, mixtures with high air content liquids handling, etc

**Construction Features:**

Body pump: BRONZE

Impeller: BRONZE

Shaft: STAINLESS STEEL AISI 316

Mechanical seal. HIGH QUALITY IN CERAMIC, GRAPHITE INOX

**Motors:**

Insulation: "F" class

Protections: "IP 22" D.C.; "IP 44/55" A.C.

Voltages: 12 - 24V D.C.; 1~230V; ~230/400V; A.C. 50Hz

EL/PUMP	INST. POWER (kW)	VOLTAGE (V)	RPM
GNN ACB 61 G	0.18	12 - 24 C.C. - D.C.	3200
GNN ACB 61RG	0.25	12 - 24 C.C. - D.C.	3400
GNN ACB 80	0.37	12 - 24 C.C. - D.C.	3000
GNN ACB 90	0.44	24 C.C. - D.C.	2800
GNN ACB 60	0.15	230 1~, 230/400 3~ C.A. 50Hz	2800
GNN ACB 80	0.37	230 1~, 230/400 3~ C.A. 50Hz	2800
GNN ACB 90	0.55	230 1~, 230/400 3~ C.A. 50Hz	2800

**ACB 431****ACB 331****ACB 331 - AC B 332 - ACB 431 - ACB 531 SELF - PRIMING EL / PUMPS**

Bilge, fire-fighting, chain washing, intake diesel oil, plants water supply, mixtures with high air content liquids handling, etc

**Construction Features:**

Body pump: BRONZE

Impeller: BRONZE

Shaft: STAINLESS STEEL AISI 316

Mechanical seal. HIGH QUALITY ON CERAMIC, GRAPHITE INOX

**Motors:**

Insulation: "F" class

Protections: "IP 22" for D.C. ; "IP 44/55" for A.C.

Voltages: 24V D.C.

230V 1~; 208/360V 230/400V 3~ A.C. 50/60Hz

EL/PUMP	INST. POWER (kW)	VOLTAGE (V)	RPM
GNN ACB 331/1	0.9	24 C.C.-D.C.	1500
GNN ACB 331/2	1.1	24 C.C.-D.C.	1500
GNN ACB 332	1.5	24 C.C.-D.C.	1500
GNN ACB 431	1.5	24 C.C.-D.C.	1500
GNN ACB 331/B	1.5	230 1~, 230/400 3~ C.A. 50Hz	1450
GNN ACB 331/A	1.8	230 1~, 230/400 3~ C.A. 60Hz	1750
GNN ACB 332/B	2.2	230 1~, 230/400 3~ C.A. 50Hz	1450
GNN ACB 431/C	3.0	230/400 3~ C.A. 50Hz	1450
GNN ACB 431/B	2.2	230 1~, 230/400 3~ C.A. 50Hz	1450
GNN ACB 431/A	3.0	230/400 3~ C.A. 60Hz	1750
GNN ACB 531	4	230 1~, 230/400 3~ C.A. 50Hz	1450

EL/PUMP	INST. POWER(kW)	ABSOR.(A)	VOLTAGE (V)	RPM
GNN CP 20/1 G	0.15	27 13	12 24 c.c. - d.c.	2600
GNN CP 20/2 G	0.30	32 18	24 c.c. - d.c.	2800
GNN CP 25/1 A	0.20	29 16	12 24 c.c. - d.c.	1900
GNN CP 25/2 A	0.40	24	24 c.c. - d.c	2200
GNN CP 30 G	0.50	28	24 c.c. - d.c.	1500
GNN CP 32 A	0.60	34	24 c.c. - d.c.	2200
GNN CP 40	0.75	45	24 c.c. - d.c.	1500
GNN CP 40/160	1.5	62	24 c.c. - d.c.	1400
GNN CP 40/100	1.5	65	24 c.c. - d.c.	1400
GNN CP 20 G	0.37		230 1~ 230/400 3~ C.A. 50Hz	2800
GNN CP 30 G	0.37		230 1~ 230/400 3~ C.A. 50Hz	1450
GNN CP 30 G	0,55		230 1~ 230/400 3~ C.A. 60Hz	1750
GNN CP 32 A *	0.37		230 1~ 230/400 3~ C.A. 50Hz	1450
GNN CP 40	0.75		230 1~ 230/400 3~ C.A. 50Hz	1450
GNN CP 40/160	1.5		230 1~ 230/400 3~ C.A. 50Hz	1450
GNN CP 40/100	1.5		230 1~ 230/400 3~ C.A. 50Hz	1450
GNN CP 40/140	2.2		230 1~ 230/400 3~ C.A. 50Hz	1450
GNN CP 50/180	3.0		230 1~ 230/400 3~ C.A. 50Hz	1450
GNN CP 50/160	4.0		230 1~ 230/400 3~ C.A. 50Hz	1450
GNN CP 50/190	4.0		230 1~ 230/400 3~ C.A. 50Hz	1450

CP SELF - PRIMING EL /PUMPS

Intake diesel oil, intake liquids (sea and fresh water), grey water discharge (galley and showers), bilge, etc.

Construction Features:  
Body pump: BRONZE  
Impeller: BRONZE  
Shaft: STAINLESS STEEL AISI 316  
Mechanical seal. HIGH QUALITY IN CERAMIC, GRAPHITE INOX

Motors:  
Insulation: "F" class  
Protections: "IP 22" for D.C. ; "IP 44/55" for A.C.  
Voltages: 12 V D.C.; 24 V D.C.;  
230V 1~; 230/400 V 3~ A.C. 50Hz (60Hz on request)



# RACOR SPIN-ON DIESEL FILTERS

Racor diesel filters with AQUABLOC technology.  
High capacity evaluated (99% effectiveness in separating water from diesel).  
Comes with 30 micron cartridge. Can replace Griffin Spin-on filters.

Cod.	Filter	Ref Griffin	Max Flow Rate Lt/h	Dim mm	Primer Pump	Accessories	UM
4120042	120A	G57A	57	81 x H165	No		PZ
4120053	230R	GP114	114	102 x H229	Yes		PZ
4120054	245R	GP169	170	102 x H267	Yes		PZ
4139001						8mm Hose Barb	PZ
4139002						10mm Hose Barb	PZ
4139006						8mm Elbow Hose Barb	PZ
4139007						10mm Elbow Hose Barb	PZ



# RACOR SPIN-ON DIESEL FILTER ELEMENTS

Racor and Griffin Spin-on filters interchangeable cartridge spares with AQUABLOC technology.

Cod.	Cartridge	Micron	For Filter	UM
4121201	Racor R12P	30	Racor 120A / Griffin G57A	PZ
4121202	Racor R12T	10	Racor 120A / Griffin G57A	PZ
4121212	Racor R20P	30	Racor 230R / Griffin G114	PZ
4121213	Racor R20T	10	Racor 230R / Griffin G114	PZ
4121216	Racor R25T	10	Racor 245R / Griffin G169	PZ
4121224	Racor R24P	30	Racor 220R	PZ
4121225	Racor R24T	10	Racor 220R	PZ



# RACOR MARINE MA DIESEL FILTERS

Superior quality Racor diesel filters with AQUABLOC multilevel filtration elements (99% of effectiveness in separating water from diesel). All filters are base-equipped with 30 micron cartridge and protection shield. Can replace Griffin GTB-S4MA type filters.

Cod.	Filter	Ref Griffin	Max Flow Rate Lt/h	Dim mm	Accessories	UM
4125005	500 MA	GTB228S4MA	227	147 x H292		PZ
4125009	900 MA	GTB341S4MA	341	152 x H432		PZ
4125010	1000 MA	GTB681S4MA	681	152 x H559		PZ
4125252					12V Water Alarm	PZ
4125254					24V Water Alarm	PZ
4125250					Water Sensor	PZ



# RACOR TURBINE GENUINE FILTER CARTRIDGES

Racor and Griffin filters genuine Racor cartridges with AQUABLOC technology.

Cod.	Cartridge	Micron	For Filter	UM
4125205	Racor 2010PM	30	Racor 500 / Griffin GTB228	PZ
4125215	Racor 2010TM	10	Racor 500 / Griffin GTB228	PZ
4125209	Racor 2040PM	30	Racor 900 / Griffin GTB341	PZ
4125219	Racor 2040TM	10	Racor 900 / Griffin GTB341	PZ
4125210	Racor 2020PM	30	Racor 1000 / Griffin GTB681	PZ
4125220	Racor 2020TM	10	Racor 1000 / Griffin GTB681	PZ



ENGINE SYSTEM SHELL RIMULA OILS

Available in 1lt and 5lt bottles, 20lt pails, 55lt and 200lt drums, 1m3 tanks.



Rimula R4 L/X

Viscosity Grades	Key Benefits	Specifications and Approvals
•15W-40	• Low emissions • Extra Life - Improved Protection	API: CJ-4, CI-4+, CI-4, CH-4, CG-4, CF-4, CF; ACEA E9, E7; JASO DH-2; Caterpillar: ECF-2, ECF-3; Cummins: CES 20081, 77, 72, 71; DDC: 93K218; Deutz: DQC-III-05; MACK: EO-O Premium Plus; MAN: M3275; Mercedes Benz Approval: 228.3, 228.31; MTU: Catagory 2; Renault Trucks: RLD-3; Volvo: VDS-4, VDS-3

HYDRAULIC SYSTEM SHELL TELLUS OILS

Available in 1lt and 5lt bottles, 20lt pails, 55lt and 200lt drums, 1m3 tanks.



Tellus S2 V

Benefits	Technology	ISO viscosity grades	Specifications and approvals
• Extra protection • Versatile application	Mineral, zinc-based	HV/15, 22, 32, 46, 68, 100	Approved by Denison Hydraulics, Cincinnati Machine, Eaton (Vickers) and many other equipment manufacturers Industry standards: ISO 11158, ASTM D6158-05, DIN 51524-3

GEAR SYSTEM SHELL OMALA OILS

Available in 1lt and 5lt bottles, 20lt pails, 55lt and 200lt drums, 1m3 tanks.



Omala S2 G

Benefits	Technology	ISO viscosity grades	Specifications and approvals
• Extra protection • Standard applications	Conventional (EP)	68, 100, 150, 220, 320, 460, 680, 1000	Approved by or meets David Brown, Cincinnati Machine, and many other equipment manufacturers Industry standards: ANSI/AGMA 9005-E02 (EP); ISO 12925-1 CKD; DIN 51517-3 (CLP); US Steel 224

Omala S4 Wheel

Benefits	Technology	ISO viscosity grades	Specifications and approvals
• Extra protection • Geared wheel hubs	Synthetic (EP)	220, 320, 460, 680	Approved by or meets GE (approved GEK-30375H – ISO 320-680) and David Brown Industry standards: ANSI/AGMA 9005-E02 (EP); ISO 12925-1 CKD; DIN 51517-3 (CLP); US Steel 224

AIR COMPRESSOR SHELL CORENA OILS

Available in 1lt and 5lt bottles, 20lt pails, 55lt and 200lt drums, 1m3 tanks.



Corena S4 R

Benefits	Technology	ISO viscosity grades	Specifications and approvals
• Extra long life and improved efficiency • Severe applications • Rotary air compressors	Synthetic, advanced ashless	32, 46, 68	Approved by: Shell Corena S4 R 68 is approved by ABB for use in VTR turbochargers with a maximum oil-drain interval of 5,000 hours (HZTL 90617, list 3a) Industry standards: ISO 6743-3A DAJ
• Extra long life and improved efficiency • Severe applications •Reciprocating air compressors	Synthetic, advanced additive system	68, 100	Approved by: Shell Corena S4 R 68 is approved by ABB for use in VTR turbochargers with a maximum oil-drain interval of 5,000 hours (HZTL 90617, list 3a) Industry standards: ISO 6743-3A DAJ
• Long life • Improved efficiency • Rotary air compressors	Conventional, advanced additive system	32, 46, 68	Industry standards: ISO 6743-3A DAH, DAJ
• Reliable protection • Standard life applications • Rotary air compressors	Conventional, detergent	46, 68	Industry standards: ISO 6743-3A DAH
• Reliable protection • Standard life applications • Reciprocating air compressors	Conventional	68,100, 150	Industry standards: ISO 6743-3A DAA (normal duty)

Corena S4 P

Corena S3 R

Corena S2 R

Corena S3 R

# BATTERIES

## EXIDE PREMIUM



Code	Performance		Dimensions				Technical Features		
	Capacity Ah	CCA A (En)	BOX Type	L(mm)	W(mm)	H (mm)	Pole +	Pole Type	Base Connections
EXD EA386	38	300	B19	187	127	220	R	3 (small)	Korean B1
EXD EA387	38	300	B19	187	127	220	L	3 (small)	Korean B1
EXD EA456	45	390	B24	237	127	227	R	3 (small)	Korean B1
EXD EA457	45	390	B24	237	127	227	L	3 (small)	Korean B1
EXD EA472	47	450	LB1	207	175	175	0	R	B13
EXD EA530	53	540	L01	207	175	190	R	1	B13
EXD EA602	60	600	LB2	242	175	175	R	1	B13
EXD EA640	64	640	L02	242	175	190	R	1	B13
EXD EA654	65	580	D23	230	173	222	R	1	Korean B1
EXD EA655	65	580	D23	230	173	222	L	1	Korean B1
EXD EA722	72	720	LB3	278	175	175	R	1	B13
EXD EA754	75	630	D26	270	173	222	R	1	Korean B1
EXD EA755	75	630	D26	270	173	222	L	1	Korean B1
EXD EA770	77	760	L03	278	175	190	R	1	B13
EXD EA852	85	800	LB4	315	175	175	R	1	B13
EXD EA1000	100	900	L05	353	175	190	R	1	B13
EXD EA1005	100	850	D31	306	173	222	R	1	Korean B1

# BATTERIES

## EXIDE EXCELL



Code	Performance		Dimensions				Technical Features		
	Capacity Ah	CCA A (En)	BOX Type	L(mm)	W(mm)	H (mm)	Pole +	Pole Type	Base Connections
EXD EB356	35	240	B19	187	127	220	R	3	B00
EXD EB357	35	240	B19	187	127	220	R	3	B00
EXD EB440	44	400	L00	175	175	190	R	1	B13
EXD EB440A	44	360	L01	207	175	190	R	1	B13
EXD EB442	44	420	LB1	207	175	175	R	1	B13/B14
EXD EB450	45	330	E02	220	135	225	R	1	B01
EXD EB451	45	330	E02	220	135	225	L	1	B01
EXD EB454	45	300	B24	237	127	227	R	1	B00
EXD EB455	45	300	B24	237	127	227	L	1	B00
EXD EB456	45	300	B24	237	127	227	R	3	B00
EXD EB457	45	300	B24	237	127	227	L	3	B00
EXD EB500	50	450	L01	207	175	190	R	1	B13
EXD EB501	50	450	L01	207	175	190	L	1	B13
EXD EB504	50	360	D20	200	173	222	R	1	Korean B1
EXD EB505	50	360	D20	200	173	222	L	1	B00
EXD EB542	54	520	LB2	242	175	175	R	1	B13/B14
EXD EB604	60	390	D23	230	173	222	R	1	B00
EXD EB605	60	390	D23	230	173	222	L	1	B00
EXD EB620	62	540	L02	242	175	190	R	1	B13
EXD EB621	62	540	L02	242	175	190	L	1	B13
EXD EB704	70	540	D26	270	173	222	R	1	B09
EXD EB705	70	540	D26	270	173	222	L	1	B09
EXD EB712	71	670	LB3	278	175	175	R	1	B13/B14
EXD EB740	74	680	L03	278	175	190	R	1	B13
EXD EB741	74	680	L03	278	175	190	L	1	B13
EXD EB800	80	700	L04	315	175	190	R	1	B13
EXD EB802	80	700	LB4	315	175	175	R	1	B13
EXD EB852	85	760	LB5	353	175	175	R	1	B13
EXD EB950	95	800	L05	353	175	190	R	1	B13
EXD EB1000	100	720	LH4	313	175	295	R	1	B13
EXD EB1004	100	720	D31	306	173	222	R	1	Korean B1
EXD EB1005	100	720	D31	306	173	222	L	1	Korean B1



BATTERIES  
EXIDE CLASSIC



Code	Performance		Dimensions				Technical Features		
	Capacity Ah	CCA A (En)	BOX Type	L(mm)	W(mm)	H (mm)	Pole +	Pole Type	Base Connections
EXD EC400	40	320	L00	175	175	190	R	1	B13
EXD EC440	44	360	L01	207	175	190	R	1	B13
EXD EC550	55	460	LB2	242	175	190	R	1	B13
EXD EC700	70	640	L03	278	175	190	R	1	B13
EXD EC900	90	720	L05	278	175	190	R	1	B13

BATTERIES  
EXIDE CLASSIC



Code	Volt	Capacity at 20 h (ah)	CCA	Pole (+)	Length(mm)	Width(mm)	Hight(mm)	Weight(kg)
EXD EK700	12	70	760	R	278	175	190	20,90
EXD EK800	12	80	800	R	315	175	190	23,90
EXD EK900	12	90	900	R	353	175	190	26,80

BATTERIES  
EXIDE GEL



Code	Volt	Capacity at 20 h (ah)	CCA	Pole (+)	Length(mm)	Width(mm)	Hight(mm)	Weight(kg)
EXD G 60	12	60	510	R	278	175	190	21,2
EXD G 80	12	80	640	R	353	175	190	26,8
EXD G 85	12	85	510	L	330	171	236	30,0
EXD G 110	12	110	760	L	286	269	230	38,7
EXD G 120	12	120	850	L	513	189	223	40,7
EXD G 120S	12	120	750	R	345	175	290	40,5
EXD G 140	12	140	1000	L	513	223	225	47,8
EXD G 210	12	210	1200	L	518	276	242	70,0
EXD G 180/6	6	196	900	R	244	190	275	29,0
EXD G 200/6	6	200	950	R	244	190	275	32,0

**BATTERIES**  
YUMICRON 12V BATTERIES



Code	Battery Type	Capacity AH (10H-R)	Dimensions – Inches (+/- 1/16 in)			Dimensions – Millimeters (+/- 2 mm)		
			L	W	H	L	W	H
YUA YB16CL-B	YB16CL-B	19	6 7/8	4	6 7/8	175	100	175
YUA YB30CL-B	YB30CL-B	30	6 5/8	5 3/16	7 9/16	168	132	192.2
YUA YB2.5L-C	YB2.5L-C	2.5	3 3/16	2 3/4	4 1/8	80	70	105
YUA YB2.5L-C-1	YB2.5L-C-1	2.5	3 3/16	2 3/4	4 1/8	80	70	105
YUA YB3L-A	YB3L-A	3	3 7/8	2 1/4	4 3/8	98	56	110
YUA YB3L-B	YB3L-B	3	3 7/8	2 1/4	4 3/8	98	56	110
YUA YB4L-A	YB4L-A	4	4 3/4	2 3/4	3 5/8	120	70	92
YUA YB4L-B	YB4L-B	4	4 3/4	2 3/4	3 5/8	120	70	92
YUA YB5L-B	YB5L-B	5	4 3/4	2 3/8	5 1/8	120	60	130
YUA YB7-A	YB7-A	8	5 5/16	3	5 1/4	135	75	133
YUA YB7B-B	YB7B-B	7	6	2 3/8	5 1/8	150	60	130
YUA YB7C-A	YB7C-A	8	5 1/8	3 9/16	4 1/2	130	90	114
YUA YB7L-B	YB7L-B	8	5 5/16	3	5 1/4	135	75	133
YUA YB9A-A	YB9A-A	9	5 5/16	3	6 1/8	135	75	155
YUA YB9L-A2	YB9L-A2	9	5 5/16	3	5 1/2	135	75	139
YUA YB9-B	YB9-B	9	5 5/16	3	5 1/2	135	75	139
YUA YB9L-B	YB9L-B	9	5 5/16	3	5 1/2	135	75	139
YUA YB10A-A2	YB10A-A2	11	5 5/16	3 9/16	6 1/8	135	90	155
YUA YB10L-A2	YB10L-A2	11	5 5/16	3 9/16	5 3/4	135	90	145
YUA YB10L-B	YB10L-B	11	5 5/16	3 9/16	5 3/4	135	90	145
YUA YB10L-B2	YB10L-B2	11	5 5/16	3 9/16	5 3/4	135	90	145
YUA YB12A-A	YB12A-A	12	5 5/16	3 3/16	6 5/16	134	80	160
YUA YB12A-A W/S *	YB12A-A W/S *	12	5 5/16	3 3/16	6 5/16	134	80	160
YUA YB12A-A W/TA **	YB12A-A W/TA **	12	5 5/16	3 3/16	6 5/16	134	80	160
YUA YB12AL-A	YB12AL-A	12	5 5/16	3 3/16	6 5/16	134	80	160
YUA YB12AL-A2*	YB12AL-A2*	12	5 5/16	3 3/16	6 5/16	134	80	160
YUA YB12A-B	YB12A-B	12	5 5/16	3 3/16	6 5/16	134	80	160
YUA YB12B-B2	YB12B-B2	12	6 5/16	3 9/16	5 1/8	160	90	130
YUA YB12C-A	YB12C-A	12	5 5/16	3 9/16	6 7/8	134	80	175
YUA YB14-A2	YB14-A2	14	5 5/16	3 1/2	6 9/16	134	89	166
YUA YB14A-A1	YB14A-A1	14	5 5/16	3 1/2	6 15/16	134	89	176
YUA YB14A-A2	YB14A-A2	14	5 5/16	3 1/2	6 15/16	134	89	176
YUA YB14L-A1	YB14L-A1	14	5 5/16	3 1/2	6 9/16	134	89	166
YUA YB14L-A2	YB14L-A2	14	5 5/16	3 1/2	6 9/16	134	89	166
YUA YB14L-A2 W/S *	YB14L-A2 W/S *	14	5 5/16	3 1/2	6 9/16	134	89	166
YUA YB14L-B2	YB14L-B2	14	5 5/16	3 1/2	6 9/16	134	89	166
YUA YB14-B2	YB14-B2	14	5 5/16	3 1/2	6 9/16	134	89	166
YUA SYB14L-A2	SYB14L-A2	14	5 5/16	3 1/2	6 9/16	134	89	166
YUA YB16AL-A2	YB16AL-A2	16	8 1/8	2 13/16	6 7/16	207	71.5	164
YUA HYB16A-AB	HYB16A-AB	16	6	3 5/8	7 1/16	151	91	180
YUA YB16-B	YB16-B	19	6 7/8	4	6 1/8	175	100	155
YUA YB16-B-CX	YB16-B-CX	19	6 7/8	4	6 1/8	175	100	155
YUA YB16HL-A-CX	YB16HL-A-CX	19	6 7/8	4	6 1/8	175	100	155
YUA YB16L-B	YB16L-B	19	6 7/8	4	6 1/8	175	100	155
YUA YB16B-A	YB16B-A	16	6 5/16	3 9/16	6 3/8	160	90	161
YUA YB16B-A1*	YB16B-A1*	16	6 5/16	3 9/16	6 3/8	160	90	161
YUA YB16C-B	YB16C-B	19	6 7/8	4	6 7/8	175	100	175
YUA YB16CL-B	YB16CL-B	19	6 7/8	4	6 7/8	175	100	175
YUA YB18-A	YB18-A	18	7 1/8	3 9/16	6 3/8	180	90	162
YUA YB18L-A	YB18L-A	18	7 1/8	3 9/16	6 3/8	180	90	162

BATTERIES



**BATTERY CHARGERS**  
 IVO SMART BATTERY CHARGER


MODEL	IVO Smart 12/10	IVO Smart 12/15-2	IVO Smart 24/6
Code	MST 43011000	MST 43011500	MST 43020600
Charge current	10A	15A	6A
Number of outlets	1	2 equal outlets	1
Charge characteristic	IUoUo / 3-stage / automatical / DIN 41772		
Charge voltage Absorption (25ÅÄC)	14.25V	14.25V	28.5V
Charge voltage Float / wet (25ÅÄC)	13.25V	13.25V	26.5V
Charge voltage Float / gel (25ÅÄC)	13.8V	13.8V	27.6V
Input voltage range AC*	180-250V AC	180-250V AC	180-250V AC
Max. absorption time	6 hours (adjustable)	6 hours (adjustable)	6 hours (adjustable)
Frequency	50/60Hz	50/60Hz	50/60Hz
Full load consumption (230V AC)	170VA	212VA	170VA
Power factor / cos phi	1	1	1
DC consumption with connected battery	<10mA	<10mA	<10mA
Automatic voltage compensation	none	auto sense	none
Diode compensation	0.6V / remove jumper		
Temperature range	0°C to +60°C, fully safeguarded against overheating and short circuiting		
Cooling	natural	variofan	natural
Battery capacity (recommendation)	25-200 Ah	50-250 Ah	6-120 Ah
Suitable as power supply without battery	yes	yes	yes
Dimensions, hxxwxd. in mm	50x180x121	50x206x121	50x180x121
Protection degree	IP65	IP21	IP65
AC cable 1.5 metre	2x 0.75 mm2	3x 0.75 mm2	2x 0.75 mm2
DC cable 1.5 metre	2.5 mm2	4 mm2	2.5 mm2
Weight	1 kg	1 kg	1 kg
Harmonised standards	generic emission and disturbances standard: EN 55014-1:1993, generic harmonic current emissions: EN61000-3-3:1995, generic & safety accreditations immunity standard: EN 55014-2:1997, electrostatic discharge: EN 61000-4-2:1995, electrical fast transients: EN 61000-4-4:1995, surge transient: EN61000-4-5:1995, conducted radio freq. disturbances: EN61000-4-6:1996, voltage dips: EN 61000-4-11:1994		



CHARGE MASTER



CHARGE MASTER 12V MODEL	12/10-1	12/15-2	12/25-3	12/35-3	12/50-3	12/70-3	12/100-3
Code	MST 43011000	MST 43011500	MST 44010250	MST 44010350	MST 44010500	MST 44010700	MST 44011000
Nominal output voltage	12 V	12 V	12 V	12 V	12 V	12 V	12 V
Total charge current	10 A at 14.25 V	15 A at 14.25 V	25 A at 13.25 V	35 A at 14.4 V	50 A at 14.4 V	70 A at 14.4 V	100 A at 14.4 V
Number of battery outlets	1	2	3	3	3	3	3
Charge current second output	n.a.	15 A	25 A	35 A	50 A	10 A	10 A
Charge current third output	n.a.	n.a.	25 A	35 A	50 A	10 A	10 A
Recommended battery capacity	25-100 Ah	30-150 Ah	50-250 Ah	70-350 Ah	100-500 Ah	140-700 Ah	200-1000 Ah
Nominal input voltage	230 V (180-265 V) – 50/60 Hz		120/230 V (90-265 V) – 50/60 Hz		120/230 V (90-265 V) – 50/60 Hz		
AC connection	socket	socket	2 mtr AC cable	connector strips	connector strips	connector strips	connector strips
Supplies your system without battery	no		yes		yes		
Display/read-out	1 LED		LED display		LED display	LCD display	
Dimensions, hwxwd	180x121x50 mm 7.1x4.8x2 inch	206x121x50 mm 8.1x4.8x2 inch	234x132x60 mm 9.2x5.2x2.4 inch	291x210x131 mm 11.5x8.3x5.2 inch	291x210x131 mm 11.5x8.3x5.2 inch	362x277x150 mm 14.3x11x5.9 inch	
Weight	1 kg / 2.2 lbs		1.8 kg / 4 lbs	4 kg / 9 lbs	4 kg / 9 lbs	7 kg / 16 lbs	
Fastening	screw	screw	screw	with the supplied mounting bracket or 4x screw f or wall mounting or 4x screw for floor installation			
Approvals	CE, E-mark, ABYC A-31		CE, E-mark, ABYC A-31, SAE J1171/ISO 8846 ignition protected		CE, E-mark, ABYC A-31, SAE J1171/ISO 8846 ignition protected		

CHARGE MASTER 24V MODEL	24/6-1	24/12-3	24/20-3	24/30-3	24/40-3	24/60-3	24/80-3	24/100-3
Code	MST 43020600	MST 44020120	MST 44020200	MST 44020300	MST 44020400	MST 44020600	MST 44020800	MST 44021000
Nominal output voltage	24 V	24 V	24 V	24 V	24 V	24 V	24 V	24 V
Total charge current	6 A at 28.5 V	12 A at 26.5 V	20 A at 28.8 V	30 A at 28.8 V	40 A at 28.8 V	60 A at 28.8 V	80 A at 28.8 V	100 A at 28.8 V
Number of battery outlets	1	3	3	3	3	3	3	3
Charge current second output	n.a.	12 A	20 A	30 A	10 A	10 A	10 A	10 A
Charge current third output	n.a.	12 A	20 A	30 A	10 A	10 A	10 A	10 A
Recommended battery capacity	25-70 Ah	24-120 Ah	40-200 Ah	60-300 Ah	80-400 Ah	120-600 Ah	160-800 Ah	200-1000 Ah
Nominal input voltage	230 V (180-265 V) 50/60 Hz	120/230 V (90-265 V) – 50/60 Hz			120/230 V (90-265 V) – 50/60 Hz			
AC connection	socket	2 mtr AC cable	connector strips	connector strips	connector strips	connector strips	connector strips	connector strips
Supplies your system without battery	no	yes	yes	yes	yes	yes	yes	yes
Display/read-out	1 LED	LED display			LCD display			
Dimensions, hwxwd	180x121x50mm 7.1x4.8x2 inch	234x132x60mm 9.2x5.2x2.4 in.	291x210x131 11.5x8.3x5.2 inch		362x277x150 14.3x11x5.9 inch		432x277x150 17x11x5.9 inch	
Weight	1 kg / 2.2 lbs	1.8 kg / 4 lbs	4 kg / 9 lbs		7 kg / 16 lbs		8 kg / 18 lbs	
Fastening	4x screw	4x screw	with the supplied mounting bracket or 4x screw for wall mounting or 4x screw for floor installation					
Approvals	CE, E-mark, ABYC A-31	CE, E-mark, ABYC A-31, SAE J1171/ISO 8846 ignition protected			CE, E-mark, ABYC A-31, SAE J1171/ISO 8846 ignition protected			

## "MASS SINE" SINE WAVE INVERTERS



MODEL	Mass Sine 12/800	Mass Sine 12/1200	Mass Sine 12/2000	Mass Sine 24/800	Mass Sine 24/1500
230 V code	MST 24010800	MST 24011200	MST 24012000	MST 24020800	MST 24021500
120 V* code	n.a.	n.a.	MST 25012000*	n.a.	n.a.
Nominal battery voltage	12 V	12 V	12 V	24 V	24 V
P30 power Tamb= 25 °C, cos phi 1	800 VA	1200 VA	2000 VA	800 VA	1500 VA
Nom. power Tamb= 40 °C, cos phi 1	650 VA	1000 VA	1800 VA	650 VA	1200 VA
Peak load	1600 VA	2400 VA	4000 VA	1600 VA	2900 VA
Max. efficiency	92%	92%	92%	92%	92%
Dimensions, hxxwxd	313x187x82 mm 12.3x7.4x3.2 inch	340x261x144 mm 13.4x10.3x5.7 inch	420x318x130 mm 16.5x12.5x5.1 inch	325x220x111 mm 12.8x8.7x4.4 inch	340x261x144 mm 13.4x10.3x5.7 inch
Weight	3.9 kg / 8.6 lbs	6 kg / 13.2 lbs	9.4 kg / 20.7 lbs	3.9 kg / 8.6 lbs	6 kg / 13.2 lbs
Minimum battery capacity	>100 Ah	>150 Ah	>200 Ah	>50 Ah	>150 Ah
Input current (nominal load)	68 A	130 A	200 A	34 A	70 A
No load power consumption 'stand-by'	65 mA/0.8 W	43 mA/0.5 W	50 mA/0.6 W	35 mA/0.8 W	25 mA/0.6 W
No load power consumption 'low energy' (208 V)	410 mA/4.9 W	420 mA/4.5 W	420 mA/5 W	200 mA/4.9 W	180 mA/4.5 W
No load power consumption 'high power' (230 V)	470 mA/5.6 W	450 mA/5 W	480 mA/6 W	240 mA/5.6 W	200 mA/5 W
Min. DC cable size	25 mm <sup>2</sup>	50 mm <sup>2</sup>	70 mm <sup>2</sup>	16 mm <sup>2</sup>	25 mm <sup>2</sup>

MODEL	Mass Sine 24/2500	Mass Sine 24/5000	Mass Sine 24/10kVa	Mass sine 24/15kVa
230 V code	MST 24022500	MST 24011200	MST 24012000	MST 24020800
120 V* code	MST 25022500*	n.a.	n.a.	n.a.
Nominal battery voltage	24 V	24 V	24 V	24 V
P30 power Tamb= 25 °C, cos phi 1	2500 VA	5000 VA	10 kVA	1500 VA
Nom. power Tamb= 40 °C, cos phi 1	2000 VA	4000 VA	8 kVA	1300 VA
Peak load	5000 VA	10000 VA	20 kVA	3000 VA
Max. efficiency	92%	90%	92%	92%
Dimensions, hxxwxd	420x318x130 mm 16.5x12.5x5.1 inch	475.5x318x254 mm 18.7x10.3x10 inch	2xC4 + C5 enclosure C4= 460.5x318x143 mm / C5= 475.5x318x254 mm	3xC4 + C5 enclosure
Weight	9.7 kg / 21.4 lbs	19 kg / 41.9 lbs	44 kg / 97 lbs	55 kg / 121.3 lbs
Minimum battery capacity	>200 Ah	>400 Ah	>500 Ah	>800 Ah
Input current (nominal load)	120 A	240 A	4x 120 A	6x 120 A
No load power consumption 'stand-by'	25 mA/0.6 W	n.a.	<10 W, 412 mA	<10 W, 412 mA
No load power consumption 'low energy' (208 V)	225 mA/5.4 W	n.a.	n.a.	n.a.
No load power consumption 'high power' (230 V)	250 mA/6 W	250 mA/6 W	150 W	180 W
Min. DC cable size	50 mm <sup>2</sup>	2x 50 mm <sup>2</sup>	4x 50 mm <sup>2</sup>	6x 50 mm <sup>2</sup>

\* 15% load reduction for the 120 V/60 Hz Mass Sine models.



# BAR ANODES

400 mm Bar anodes.

Cod.	ø mm	L mm	Kg	UM
5145010	10	400	0.22	PZ
5145012	12	400	0.33	PZ
5145014	14	400	0.44	PZ
5145016	16	400	0.60	PZ
5145018	18	400	0.75	PZ
5145020	20	400	0.95	PZ
5145025	25	400	1.45	PZ
5145030	30	400	2.10	PZ
5145035	35	400	2.90	PZ
5145040	40	400	3.70	PZ
5145045	45	400	4.65	PZ
5145050	50	400	5.75	PZ
5145060	60	400	8.25	PZ



# FLAT ROUND FLANGE ANODES

Flange rudder/hull anodes.

Cod.	ø mm	UM
5110005	50	PZ
5110007	70	PZ
5110009	90	PZ
5110011	110	PZ
5110012	125	PZ
5110014	140	PZ



# DOUBLE ROUND FLANGE ANODES WITH SCREWS

Double flange rudder/hull anodes with screws.

Cod.	ø mm	UM
5110057	70	CP
5110059	90	CP
5110053	130	CP



# CONE FLANGE ANODES

Cone flange stern anodes.

Cod.	ø mm	ø1 mm	H mm	UM
5110208	78	47	45	PZ



# THICK ROUND FLANGE ANODES

Flange stern anodes.

Cod.	ø mm	ø1 mm	H mm	UM
5110210	100	40	40	PZ
5110212	125	50	38	PZ
5110213	135	50	47	PZ
5110214	140	55	35	PZ



# THICK ROUND FLANGE ANODES SETS

Flange stern anodes complete with cap and through screw.

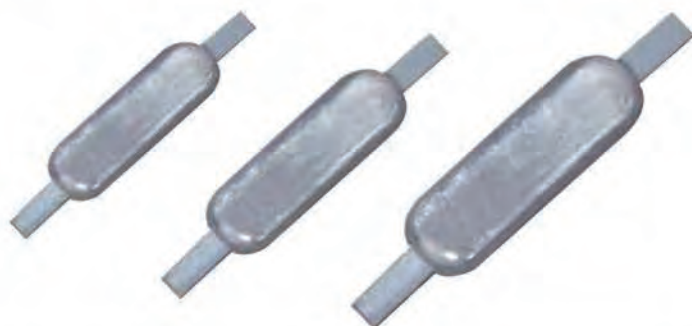
Cod.	ø mm	ø1 mm	H mm	UM
5110222	125	50	38	PZ
5110223	135	50	47	PZ
5110224	140	55	35	PZ



# CLASSIC WELD ANODES

Classic type anode with welding insert for hulls.

Cod.	L mm	W mm	H mm	Kg	UM
5111200	115	60	17	0.60	PZ
5111201	110	65	26	1.00	PZ
5111202	215	70	30	2.20	PZ
5111203	200	90	35	4.00	PZ
5111205	300	80	40	5.00	PZ



# DROP SHAPED WELD ANODES

Drop shaped type anode with welding insert for hulls.

Cod.	L mm	W mm	H mm	Kg	UM
5111211	120	78	25	1.00	PZ
5111212	140	90	35	1.80	PZ
5111213	165	100	42	3.00	PZ



OVAL SHORT ANODE

Drop shaped plate hull anode.

Cod.	L mm	W mm	H mm	d mm	Kg	UM
5110101	85	45	20	33	0.30	PZ



OVAL LONG ANODE

Oval shaped plate hull anode.

Cod.	L mm	W mm	H mm	d mm	Kg	UM
5110102	140	40	20	52	0.50	PZ



OVAL DOUBLE ANODE

Double drop shaped plate hull anode.

Cod.	L mm	W mm	H mm	d mm	Kg	UM
5110103	115	65	20	40	0.45	PZ



HYDRO 1 ANODE

Oval shaped plate hull anode.

Cod.	L mm	W mm	H mm	d mm	Kg	UM
5110105	110	63	28	60	0.90	PZ
5110104	115	65	30	40	1.00	PZ



FLAP ANODE

Plate hull anode.

Cod.	L mm	W mm	H mm	d mm	Kg	UM
5110601	100	48	10	50	0.33	PZ



REC 1 ANODE

Plate hull anode.

Cod.	L mm	W mm	H mm	d mm	Kg	UM
5110602	100	70	12	70	0.55	PZ



FLAP ANODE

Plate hull anode.

Cod.	L mm	W mm	H mm	d mm	Kg	UM
5110407	130	50	18	77	0.70	PZ



FLAP 1 ANODE

Plate hull anode.

Cod.	L mm	W mm	H mm	d mm	Kg	UM
5110404	110	65	20	57	1.00	PZ



FLAP 2 ANODE

Plate hull anode.

Cod.	L mm	W mm	H mm	d mm	Kg	UM
5110106	180	65	30	102	2.00	PZ



RIVA 1 ANODE

Plate hull anode.

Cod.	L mm	W mm	H mm	d mm	Kg	UM
5110412	190	55	25	75	1.50	PZ



RIVA 2 ANODE

Plate hull anode.

Cod.	L mm	W mm	H mm	d mm	Kg	UM
5110415	220	60	30	160	2.50	PZ



SPEED 1 ANODE

Plate hull anode.

Cod.	L mm	W mm	H mm	d mm	Kg	UM
5110409	120	80	20	68	1.00	PZ



### SPEED 2 ANODE

Plate hull anode.

Cod.	L mm	W mm	H mm	d mm	Kg	Accessories	UM
5110312	210	70	25	80	1.80		PZ
5110313						Kit viti	PZ



### VET 1 ANODE

Plate hull anode.

Cod.	L mm	W mm	H mm	d mm	Kg	UM
5110901	150	60	25	80	0.95	PZ



### VET 2 ANODE

Plate hull anode.

Cod.	L mm	W mm	H mm	d mm	Kg	UM
5110903	240	65	28	140	2.30	PZ



### VET 3 ANODE

Plate hull anode.

Cod.	L mm	W mm	H mm	d mm	Kg	UM
5110109	290	55	30	200	2.70	PZ



### VET 5 ANODE

Plate hull anode.

Cod.	L mm	W mm	H mm	d mm	Kg	UM
5110114	325	80	30	180	5.00	PZ



### REC 5 ANODE

Plate hull anode.

Cod.	L mm	W mm	H mm	d mm	Kg	UM
5110116	280	90	30	160	4.50	PZ



### CAP 4 ANODE

Plate hull anode.

Cod.	L mm	W mm	H mm	d mm	Kg	UM
5110314	235	80	40	4.00	PZ	



### SEARAY 4 ANODE

Plate hull anode.

Cod.	L mm	W mm	H mm	d mm	Kg	UM
5110904	200	110	30	130	3.85	PZ



### FAIRLINE 1 ANODE

Plate hull anode.

Cod.	L mm	W mm	H mm	d mm	Kg	UM
5110110	200	65	32	110	1.30	PZ



### FAIRLINE 2 ANODE

Plate hull anode.

Cod.	L mm	W mm	H mm	d mm	Kg	UM
5110112	320	65	35	120< >160	2.20	PZ



### FAIRLINE 4 ANODE

Plate hull anode.

Cod.	L mm	W mm	H mm	d mm	Kg	UM
5110215	310	75	40	205	4.00	PZ
5110217	455	90	40	230	7.00	PZ



### FAIRLINE 9 ANODE

Plate hull anode.

Cod.	L mm	W mm	H mm	d mm	Kg	UM
5110119	450	105	40	230	9.0	PZ



### STANDARD COLLAR ANODES

Propeller shaft standard collar anodes.

Cod.	Shaft Size ø mm	UM
5150018	18	PZ
5150020	20	PZ
5150022	22	PZ
5150025	25	PZ
5150028	28	PZ
5150030	30	PZ
5150032	32	PZ
5150035	35	PZ
5150038	38	PZ
5150040	40	PZ
5150045	45	PZ
5150050	50	PZ
5150055	55	PZ
5150060	60	PZ
5150065	65	PZ



### LARGE COLLAR ANODES

Big diameter propeller shaft collar anodes.

Cod.	Shaft Size ø mm	UM
5155070	70	PZ
5155075	75	PZ
5155080	80	PZ
5155085	85	PZ
5155090	90	PZ
5155095	95	PZ
5155100	100	PZ



### THIN COLLAR ANODES

Propeller shaft thin collar anodes.

Cod.	Shaft Size ø mm	UM
5156020	20	PZ
5156022	22	PZ
5156025	25	PZ
5156028	28	PZ
5156030	30	PZ
5156032	32	PZ
5156035	35	PZ
5156038	38	PZ
5156040	40	PZ
5156045	45	PZ
5156050	50	PZ
5156055	55	PZ
5156060	60	PZ
5156070	70	PZ
5156080	80	PZ
5156085	85	PZ



### OGIVE CONIC ANODES

Ogive anode with conic insert for propeller shafts.

Cod.	Shaft Size ø mm	UM
5160025	25	PZ
5160030	30	PZ
5160035	35	PZ
5160040	40	PZ
5160045	45	PZ
5160050	50	PZ
5160055	55	PZ
5160060	60	PZ
5160070	70/100	PZ



### OGIVE CAP/CONIC ANODES

Ogive anode with conic insert for propeller shafts.

Cod.	Shaft Size ø mm	UM
5163025	22/25/30	PZ
5163035	35/40/45/50	PZ



### OGIVE CAP/CIL ANODES

Ogive anode with cylindric insert for propeller shafts.

Cod.	ø Ext mm	UM
5163527	27	PZ
5163535	35	PZ
5163545	45	PZ



### OGIVE HEX/CIL ANODES

Ogive anode with conic hexagonal insert for propeller shafts.

Cod.	Shaft Size ø mm	UM
5160525	22/25	PZ
5160530	30	PZ
5160535	35	PZ
5160540	40	PZ
5160545	45	PZ
5160550	50	PZ
5160555	55	PZ
5160560	60	PZ
5160570	70/100	PZ



### OGIVE REGGIANI ANODES

Ogive Reggiani anode with cylindric insert for propeller shafts.

Cod.	Shaft Size ø mm	UM
5160225	25	PZ
5160230	30	PZ
5160235	35	PZ
5160240	40	PZ
5160245	45	PZ
5160250	50	PZ
5160255	55	PZ
5160260	60	PZ



### OGIVE SOLE' ANODES

Ogive Solè anode with conic insert for propeller shafts.

Cod.	Shaft Size ø mm	UM
5160325	25	PZ
5160330	30	PZ
5160335	35	PZ
5160340	40	PZ



### OGIVE FERRETTI ANODES

Ogive Ferretti anode with conic insert for propeller shafts.

Cod.	Shaft Size ø mm	UM
5164004	40	PZ
5164005	45	PZ
5164006	50	PZ
5164007	55	PZ
5164008	60	PZ



### OGIVE M THREADED ANODES

Ogive anode with metric thread for propeller shafts.

Cod.	Thread	UM
5163820	M20	PZ
5163824	M24	PZ



### OGIVE INCH THREADED ANODES

Ogive anode with inch thread for propeller shafts.

Cod.	Thread "	Shaft ø mm	UM
5163919	3/4	25-30	PZ
5163920	7/8	35	PZ
5163921	1	40	PZ



### OGIVE MAX-PROP 3 BLADES ANODE

Ogive anode for Max-Prop propellers.

Cod.	ø Ext mm	UM
5169038	38	PZ
5169042	42	PZ
5169046	46	PZ



### OGIVE NEW MAX-PROP 3 BLADES ANODE

Ogive anode for New Max-Prop propellers.

Cod.	ø Ext mm	UM
5169060	39	PZ
5169062	43,5	PZ



### OGIVE MAX-PROP 2 BLADE ANODE

Ogive anode for Max-Prop propellers.

Cod.	ø Int mm	UM
5169036	36	PZ



### MAX-PROP COLLAR ANODE

Collar anode for Max-Prop propellers.

Cod.	ø Int mm	UM
5169242	42	PZ
5169246	46	PZ



### OGIVE J-PROP ANODE

Ogive anode for J-Prop propellers.

Cod.	ø Int mm	UM
5169112	34,5	PZ
5169113	39,5	PZ
5169114	49,5	PZ



### OGIVE FLEX-O-FOLD ANODE

Ogive anode with inch thread for propeller shafts.

Cod.	ø Int mm	UM
5169102	59,4	PZ



### OGIVE MAX-PROP 2 BLADE ANODE

Ogive anode for Max-Prop propellers.

Cod.	L mm	H mm	ø Prop "	Original Code	UM
5169301	26	16	15-16,5	14072100	PZ
5169302	28	16	18-20	14073100	PZ
5169300	33	20	22-26	14074100	PZ
5169303	44	33	28-30	14074511	PZ



### GORI A COLLAR ANODE

Collar anode for Gori propellers.

Cod.	ø Est mm	ø Int mm	H mm	ø Prop "	Original Code	UM
5169363	98	63	47	22-26	15540000	PZ



### GORI A COLLAR ANODE

Collar anode for Gori propellers.

Cod.	ø Est mm	ø Int mm	H mm	ø Prop "	Original Code	UM
5169380	97	80	40	13-18	15670000	PZ



### GORI C COLLAR ANODE

Collar anode for Gori propellers.

Cod.	ø Est mm	ø Int mm	H mm	ø Prop "	Original Code	UM
5169360	95	60	34	18-20	15539500	PZ



### GORI D COLLAR ANODE

Collar anode for Gori propellers.

Cod.	ø Est mm	ø Int mm	H mm	ø Prop "	Original Code	UM
5169356	81	56	24	15-16,5	15527500	PZ



### GORI E COLLAR ANODE

Collar anode for Gori propellers.

Cod.	ø Est mm	ø Int mm	H mm	ø Prop "	Original Code	UM
5169353	83	53	40	18-20	1553000	PZ
5169390	127	90	50	28-30	1550000	PZ



### CUTTED CONE PROPELLER OGIVES

Brass cutted cone propeller ogives with replaceable Zinc anode. With propeller shaft thread.

Cod.	Thread	For Shaft ø mm	UM
4906016	16 x 1.5	25	PZ
4906020	20 x 1.5	30	PZ
4906024	24 x 2	35/40	PZ
4906026	26 x 2	40	PZ
4906030	30 x 2	45	PZ
4906033	33 x 2	45/50	PZ
4906036	36 x 3	50	PZ



### STAINLESS STEEL SAFETY WASHERS

Stainless Steel propeller ogive safety washers.

Cod.	Internal ø mm	UM
5165025	16,5	PZ
5165030	20,5	PZ
5165035	24,0	PZ
5165040	24,0	PZ
5165045	33,0	PZ
5165050	37,0	PZ
5165055	40,0	PZ
5165060	45,0	PZ



VETUS KGF 25 COLLAR ANODE

Collar anode for Vetus KGF 25 bow thruster.

Cod.	Ref	Genuine Code	UM
5165530	Kgf 25	BP1221	PZ



VETUS KGF 35/55 COLLAR ANODE

Collar anode for Vetus KGF 35/55 bow thruster.

Cod.	Ref	Genuine Code	UM
5165532	Kgf 35/55	BP1126	PZ



VETUS KGF 60/75/80/95 COLLAR ANODE

Collar anode for Vetus KGF 60/75/80/95 bow thruster.

Cod.	Ref	Genuine Code	UM
5165533	Kgf 75/95	BP1185	PZ



VETUS KGF 23A/50/80 SMALL PLATE ANODE

Small plate anode for Vetus KGF 23A/50/80 bow thruster.

Cod.	Ref	Genuine Code	UM
5165540	KW3	BP129	PZ



VETUS KGF 220 HEXAGONAL OGIVE ANODE

Hexagonal ogive anode for Vetus KGF 220 bow thruster.

Cod.	ø Ext mm	Hexagon mm	Genuine Code	UM
5165510	50	24,5	BP1210	PZ



VETUS KGF 125/130/160 HEXAGONAL OGIVE ANODE

Hexagonal ogive anode for Vetus Kgf 125/130/160 bow thruster.

Cod.	ø Ext mm	Hexagon mm	Genuine Code	UM
5165511	60	24	BP195E	PZ



BCS S/STEEL INSERT CONICAL OGIVE ANODE

Conic ogive anode for Bcs bow thruster.

Cod.	ø Ext mm	Internal ø mm	UM
5165514	68	56	PZ
5165515	84	56	PZ



VETUS RECESSESED HEXAGON OGIVE ANODE

Recessed hexagon ogive anode for Vetus bow thruster.

Cod.	ø Ext mm	Hexagon mm	UM
5165518	54,5	28	PZ



SIDE POWER OGIVE ANODE

Ogive anode for Side Power SP125T-285TC, SE120, SE150, SE220/300HYD, SH160 bow thruster.

Cod.	ø Ext mm	Hexagon mm	UM
5165570	46	24,5	PZ



MAX POWER OGIVE ANODE

Ogive anode for Max Power.

Cod.	ø Ext mm	H mm	UM
5165560	32	32	PZ



SLEIPNER SP30/40 OGIVE ANODE

Ogive anode for Sleipner SP30/40 bow thruster.

Cod.	ø Ext mm	H mm	Genuine Code	UM
5165580	26	20	31180	PZ



SLEIPNER SP55/75/95 HEXAGONAL OGIVE ANODE

Hexagonal ogive anode for Sleipner SP55/75/95 bow thruster.

Cod.	ø Ext mm	H mm	Genuine Code	UM
5165582	45	19,5	71190	PZ



SLEIPNER SP125 HEXAGONAL OGIVE ANODE

Hexagonal ogive anode for Sleipner SP125 bow thruster.

Cod.	ø Ext mm	Hexagon mm	Genuine Code	UM
5165581	46	24	201180	PZ



LEWMAR OGIVE ANODE

Ogive anode for Lewmar bow thruster. 5165520 for Lewmar 140TT. 5165521 for Lewmar 185TT. 5165522 for Lewmar 250/300.

Cod.	ø Ext mm	H mm	Genuine Code	UM
5165520	38	13	589150	PZ
5165521	46	15	589350	PZ
5165522	62	18	589550	PZ



**ARNESON BAR**

Bar anode for Arneson drives.

Cod.	L mm	Wheelbase mm	UM
5124101	150	88	PZ
5124100	186	125	PZ

**ARNESON WASHER**

Washer anode for Arneson drives.

Cod.	ø mm	H mm	UM
5124102	68	40	PZ

**HAMILTON JET 292 FLANGE ANODE**

Flange anode for Hamilton Idrojet 292.

Cod.	ø Ext mm	H mm	Original Code	UM
5124600	98	25	102185	PZ

**HAMILTON JET STERN FLANGE ANODE**

Flange stern anode for Hamilton hydrojets.

Cod.	ø Ext mm	Wheelbase mm	H mm	Genuine Code	UM
5124601	175	70	57	103862	PZ

**KAMEWA 375S JET PLATE ANODE**

Plate anode for Kamewa JET FF 375S/CLASS V2000.

Cod.	Dim mm	H mm	Wheelbase mm	Genuine Code	UM
5124704	58,5 x 61,5	25	18	10108220	PZ

**KAMEWA JET S1 WASHER ANODE**

S1 washer anode for Kamewa hydrojets.

Cod.	ø Ext mm	H mm	UM
5124700	70	27	PZ

**KAMEWA 375S JET S0 WASHER ANODE**

S0 Washer anode for Kamewa JET FF 375S/CLASS V2000.

Cod.	Dim mm	H mm	Genuine Code	UM
5124701	72 x 60	25	10107701	PZ

**KAMEWA JET M1 WASHER ANODE**

M1 washer anode for Kamewa hydrojets.

Cod.	ø mm	H mm	UM
5124708	80	24	PZ

**KAMEWA JET A COLLAR ANODE**

Collar anode for Kamewa A series hydrojets.

Cod.	ø Ext mm	ø Int mm	H mm	UM
5124705	78	50	45	PZ
5124706	90	60	48	PZ

**KAMEWA 375S JET M2 COLLAR ANODE**

M2 collar anode with inserts for Kamewa JET FF 375S/CLASS V2000.

Cod.	ø Est mm	ø Int mm	H mm	Genuine Code	UM
5124702	160	106	17	No ref	PZ
5124703	226	126	21	37517411	PZ

**KAMEWA 375S JET L2 COLLAR ANODE**

L2 collar anode with inserts for Kamewa JET FF 550/CLASS 300.

Cod.	ø Ext mm	ø Int mm	H mm	Genuine Code	UM
5124709	242	149	30	55017401	PZ

**KAMEWA 375S JET L3 COLLAR ANODE**

L3 collar anode with inserts for Kamewa JET FF 375S/CLASS V2000.

Cod.	ø Ext mm	ø Int mm	H mm	UM
5124707	385	285	25	PZ



NANNI ENGINE PENCIL ANODES

Nanni engine pencil anodes.

Cod.	Ref	UM
5127061	Anode	PZ
5127561	Anode with Head Plug	PZ



LOMBARDINI ENGINE PENCIL ANODES

Lombardini engine pencil anodes.

Cod.	Ref	UM
5127072	Anode	PZ
5127572	Anode with Head Plug	PZ



BUCK ENGINE PENCIL ANODES

Buck engine pencil anodes.

Cod.	Ref	UM
5127053	Anode	PZ
5127553	Anode with Head Plug	PZ



RUGGERINI ENGINE PENCIL ANODES

Ruggerini engine pencil anodes.

Cod.	Ref	UM
5127070	Anode	PZ



VM ENGINE PENCIL ANODES (14X40MM)

VM engine (14x40mm) pencil anodes.

Cod.	Ref	UM
5127033	Anode	PZ
5127733	Anode with Head Plug	PZ



VM ENGINE PENCIL ANODES (14X20MM)

VM engine (14x20mm) pencil anodes.

Cod.	Ref	UM
5127035	Anode	PZ
5127735	Anode with Head Plug	PZ



FORD ENGINE PENCIL ANODES (10X18MM)

Ford engine (10x18mm) pencil anodes.

Cod.	Ref	UM
5127059	Anode	PZ
5127559	Anode with Head Plug	PZ



FORD ENGINE PENCIL ANODES (14X26MM)

Ford engine (10x26mm) pencil anodes.

Cod.	Ref	UM
5127060	Anode	PZ
5127560	Anode with Head Plug	PZ



GENERAL MOTORS ENGINE PENCIL ANODES (16X54MM)

General Motors engine (16x54mm) pencil anodes.

Cod.	Ref	UM
5127007	Anode	PZ
5127507	Anode with Head Plug	PZ



GENERAL MOTORS ENGINE PENCIL ANODES (19X85MM)

General Motors engine (19x85mm) pencil anodes.

Cod.	Ref	UM
5127009	Anode	PZ
5127509	Anode with Head Plug	PZ



GENERAL MOTORS ENGINE PENCIL ANODES (12X40MM)

General Motors engine (12x40mm) pencil anodes.

Cod.	Ref	UM
5127012	Anode	PZ
5127512	Anode with Head Plug	PZ



CUMMINS ENGINE PENCIL ANODES (18X65MM)

Cummins engine (18x65mm) pencil anodes.

Cod.	Ref	UM
5127013	Anode	PZ



CUMMINS ENGINE PENCIL ANODES (16X50MM)

Cummins engine (16x50mm) pencil anodes.

Cod.	Ref	UM
5127016	Anode	PZ
5127516	Anode with Head Plug	PZ



AIFO-FIAT ENGINE PENCIL ANODES (10X18MM)

Aifo-Fiat engine (10x18mm) pencil anodes.

Cod.	Ref	Engine	UM
5127132	Anode	44/700 I/C	PZ
5127632	Anode with Head Plug	44/700 I/C	PZ



AIFO-FIAT ENGINE PENCIL ANODES (14X26MM)

Aifo-Fiat engine (14x26mm) pencil anodes.

Cod.	Ref	Engine	UM
5127028	Anode	821	PZ
5127528	Anode with Head Plug	821	PZ



**AIFO-FIAT ENGINE PENCIL ANODES (13X26+7MM)**

Aifo-Fiat engine (13x26+7mm) pencil anodes.

Cod.	Ref	UM
<b>5127029</b>	Anode	PZ
<b>5127529</b>	Anode with Head Plug	PZ


**AIFO-FIAT ENGINE PENCIL ANODES (20X20MM)**

Aifo-Fiat engine (20x20mm) pencil anodes.

Cod.	Ref	Engine	UM
<b>5127031</b>	Anode	828	PZ
<b>5127531</b>	Anode with Head Plug	828	PZ


**AIFO-FIAT ENGINE PENCIL ANODES (13X26+8MM)**

Aifo-Fiat engine (13x26+8mm) pencil anodes.

Cod.	Ref	Engine	UM
<b>5127032</b>	Anode	8361	PZ
<b>5127532</b>	Anode with Head Plug	8361	PZ


**CATERPILLAR ENGINE PENCIL ANODES (10X55MM)**

Caterpillar engine (10x55mm) pencil anodes.

Cod.	Ref	Engine	UM
<b>5127041</b>	Anode	2283	PZ
<b>5127541</b>	Anode with Head Plug	2283	PZ


**CATERPILLAR ENGINE PENCIL ANODES (28X55MM)**

Caterpillar engine (28x55mm) pencil anodes.

Cod.	Ref	Engine	UM
<b>5127042</b>	Anode	2284	PZ
<b>5127542</b>	Anode with Head Plug	2284	PZ


**CATERPILLAR ENGINE PENCIL ANODES (22X20MM)**

Caterpillar engine (22x20mm) pencil anodes.

Cod.	Ref	Engine	UM
<b>5127043</b>	Anode	2016	PZ
<b>5127543</b>	Anode with Head Plug	2016	PZ


**CATERPILLAR ENGINE PENCIL ANODES (16X76MM)**

Caterpillar engine (16x76mm) pencil anodes.

Cod.	Ref	Engine	UM
<b>5127045</b>	Anode	2289	PZ
<b>5127545</b>	Anode with Head Plug	2289	PZ


**CATERPILLAR ENGINE PENCIL ANODES (16X41MM)**

Caterpillar engine (16x41mm) pencil anodes.

Cod.	Ref	Engine	UM
<b>5127046</b>	Anode	3412	PZ
<b>5127546</b>	Anode with Head Plug	3412	PZ


**CATERPILLAR ENGINE PENCIL ANODES (12X40MM)**

Caterpillar engine (12x40mm) pencil anodes.

Cod.	Ref	Engine	UM
<b>5127047</b>	Anode	2280	PZ
<b>5127547</b>	Anode with Head Plug	2280	PZ


**CATERPILLAR ENGINE PENCIL ANODES (12,5X38MM)**

Caterpillar engine (12.5x38mm) pencil anodes.

Cod.	Ref	Engine	UM
<b>5127048</b>	Anode	3126	PZ
<b>5127548</b>	Anode with Head Plug	3126	PZ


**CATERPILLAR ENGINE PENCIL ANODES (16X63MM)**

Caterpillar engine (16x63mm) pencil anodes.

Cod.	Ref	Engine	UM
<b>5127049</b>	Anode	2288	PZ
<b>5127549</b>	Anode with Head Plug	2288	PZ


**CATERPILLAR ENGINE PENCIL ANODES (10X38MM)**

Caterpillar engine (10x38mm) pencil anodes.

Cod.	Ref	UM
<b>5127050</b>	Anode	PZ
<b>5127550</b>	Anode with Head Plug	PZ


**CATERPILLAR ENGINE PENCIL ANODES (14X33MM)**

Caterpillar engine (14x33mm) pencil anodes.

Cod.	Ref	UM
<b>5127051</b>	Anode	PZ


**SCANIA ENGINE PENCIL ANODES**

Scania engine pencil anodes.

Cod.	Ref	UM
<b>5127080</b>	Anode	PZ
<b>5127580</b>	Anode with Head Plug	PZ


**BOUDOUIN ENGINE PENCIL ANODES**

Boudouin engine pencil anodes.

Cod.	Ref	UM
<b>5127083</b>	Anode	PZ
<b>5127583</b>	Anode with Head Plug	PZ



### NANNI ENGINE PENCIL ANODES

Italian law approved life saving floating device. Complies with Merchant Navy Standards. To be completed with reflective adhesive tape.

Cod.	Persons	Dim mm	Kg	Accessories	UM
2900808	8	900 x 900 x H250	16		PZ
2900812	12	1000 x 1000 x H300	23		PZ
290091615				15 m Reflective Tape	MT



### COASTAL DRY EUROVINIL RESCUE LIFERAFT

Container stowed coastal self-inflating rescue liferafts for pleasure navigation within 12 miles from shore. The container can be a soft suitcase or a Fiberglass canister.

Cod.	Persons	Dim mm	Kg	Container	UM
2901134	4	660 x 360 x 170	24	Suitcase	PZ
2901135	4	740 x 410 x 240	28	VTR Canister	PZ
2901136	6	660 x 360 x 170	28	Suitcase	PZ
2901137	6	740 x 410 x 240	33	VTR Canister	PZ
2901138	8	660 x 360 x 220	33	Suitcase	PZ
2901139	8	740 x 410 x 270	38	VTR Canister	PZ
2901140	10	660 x 490 x 200	37	Suitcase	PZ
2901141	10	740 x 490 x 260	41	VTR Canister	PZ
2901142	12	660 x 490 x 250	42	Suitcase	PZ
2901143	12	740 x 490 x 260	46	VTR Canister	PZ



### COASTAL ARIMAR RESCUE LIFERAFT

Suitcase type container coastal self-inflating rescue liferafts. For pleasure navigation within 12 miles from shore.

Cod.	Persons	Dim mm	Kg	UM
2901104	4	660 x 280 x 275	25	PZ
2901106	6	665 x 265 x 285	26	PZ
2901108	8	640 x 300 x 330	31	PZ
2901110	10	650 x 290 x 350	39	PZ
2901112	12	680 x 290 x 350	44	PZ



### FRANCE-CROATIA 9650 COASTAL EUROVINIL RESCUE LIFERAFT

ISO9650:2005 Self-inflating rescue liferaft for coastal pleasure navigation within 2 miles from shore. It is the most high-level rescue liferaft of all european ISO certified products. The container can be a soft suitcase or a Fiberglass canister.

Cod.	Persons	Dim mm	Kg	Accessories	UM
2901170	4	690 x 390 x 260	32	Suitcase	PZ
2901171	4	740 x 420 x 290	36	VTR Canister	PZ
2901172	6	690 x 390 x 260	32	Suitcase	PZ
2901173	6	740 x 420 x 290	36	VTR Canister	PZ
2901174	8	710 x 470 x 280	35	Suitcase	PZ
2901175	8	750 x 510 x 290	38	VTR Canister	PZ
2901176	10	710 x 470 x 280	39	Suitcase	PZ
2901177	10	750 x 510 x 300	42	VTR Canister	PZ



# FRANCE-CROATIA 9650 EUROVINIL RESCUE LIFERAFT

ISO9650:2005 Self-inflating rescue liferaft for pleasure navigation over 24 hours and over 12 miles from shore. It is the most high-level rescue liferaft of all European ISO certified products. The container can be a soft suitcase or an ABS canister.

Cod.	Persons	Dim mm	Kg	Container	UM
2901150	4	690 x 490 x 260	45	Suitcase	PZ
2901151	4	720 x 500 x 290	48	ABS Canister	PZ
2901153	6	690 x 480 x 280	52	Suitcase	PZ
2901154	6	720 x 500 x 290	54	ABS Canister	PZ
2901156	8	790 x 490 x 310	61	Suitcase	PZ
2901157	8	790 x 500 x 320	64	ABS Canister	PZ
2901159	10	790 x 490 x 320	68	Suitcase	PZ
2901160	10	800 x 490 x 310	72	ABS Canister	PZ
2901162	12	880 x 540 x 360	82	ABS Canister	PZ



# OCEANIC-ITALIA 9650 ARIMAR RESCUE LIFERAFT

Offshore self-inflating Italia rescue liferafts for pleasure navigation over 12 miles from shore. The container can be a soft suitcase or a canister.



Cod.	Persons	Dim mm	Kg	Container	UM
2901014	4	730 x 430 x 320	49	Suitcase	PZ
2901004	4	730 x 320 x 470	56	Canister	PZ
2901016	6	730 x 430 x 320	58	Suitcase	PZ
2901006	6	730 x 340 x 470	61	Canister	PZ
2901018	8	750 x 490 x 380	67	Suitcase	PZ
2901008	8	730 x 360 x 470	71	Canister	PZ
2901020	10	760 x 560 x 380	79	Suitcase	PZ
2901010	10	850 x 310 x 600	84	Canister	PZ
2901012	12	850 x 320 x 600	95	Canister	PZ



# OCEANIC-ITALIA 9650 EUROVINIL RESCUE LIFERAFT

ISO9650 Oceanic-Italy self-inflating rescue liferafts for pleasure navigation over 12 miles from shore. The container can be a soft suitcase or a Fiberglass canister.

Cod.	Persons	Dim mm	Kg	Container	UM
2901234	4	695 x 500 x 290	47	Suitcase	PZ
2901244	4	710 x 490 x 290	50	VTR Canister	PZ
2901236	6	695 x 500 x 300	53	Suitcase	PZ
2901246	6	710 x 490 x 290	56	VTR Canister	PZ
2901238	8	790 x 500 x 300	65	Suitcase	PZ
2901248	8	800 x 500 x 310	68	VTR Canister	PZ
2901240	10	790 x 500 x 310	75	Suitcase	PZ
2901250	10	810 x 500 x 310	78	VTR Canister	PZ
2901252	12	900 x 560 x 350	87	VTR Canister	PZ



# OCEANIC-ITALIA 9650 ARIMAR RESCUE LIFERAFT

ISO9650 Oceanic-Italy self-inflating rescue liferafts for pleasure navigation over 12 miles from shore. Endowed with watertight external grab bag holding part of necessary equipment that improves spaces and weights aboard and at the same time makes replacements easier. The container can be a soft suitcase or a Fiberglass canister.

Cod.	Persons	Dim mm	Kg	Container	UM
2901254	4	680 x 500 x 280	34 (+9)	Suitcase	PZ
2901264	4	740 x 520 x 290	37 (+9)	VTR Canister	PZ
2901256	6	700 x 500 x 280	39,5 (+12)	Suitcase	PZ
2901266	6	740 x 520 x 290	43 (+12)	VTR Canister	PZ
2901258	8	770 x 500 x 280	46 (+15)	Suitcase	PZ
2901268	8	820 x 540 x 290	49 (+15)	VTR Canister	PZ
2901260	10	780 x 500 x 280	50 (+18)	Suitcase	PZ
2901270	10	820 x 540 x 290	54 (+18)	VTR Canister	PZ
2901262	12	790 x 500 x 280	58,5 (+21)	Suitcase	PZ
2901272	12	820 x 540 x 310	62 (+21)	VTR Canister	PZ



## EPIRB mcmurdo

### SMARTFIND/ E5 406 MHz EPIRB (MANUAL BRACKET) - STANDARD VERSION\*



- Internationally Approved
- Transmits on 406 and 121.5MHz
- Non hazardous battery for safe and easy transportation
- Unique CARRYSAFE bracket available for safe transportation
- High brightness LED flashing locator light
- 60 comprehensive diagnostic and self-tests during battery life
- Once activated, will transmit for a minimum of 48 hours
- 5 year battery life
- 5 year warranty
- Once removed from its CARRYSAFE manual bracket the unit can be activated automatically by immersion in water or manually by following the activation instructions on the unit.

Code: MCM E5MB

\*PLUS version also available: SMARTFIND PLUS/G5 406 GPS MHz EPIRB (MANUAL BRACKET)

Same advanced features of standard Smartfind/E5 + built-in GPS receiver.  
Hi performance multi-channel integral GPS giving a typical location accuracy of less than +/- 62 m.

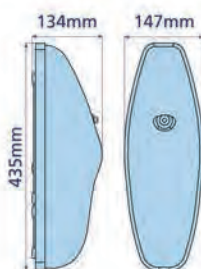
GPS uses an array of 27 satellites and provides continuous positional information with a typical accuracy of around 30m.

Code: MCM G5MB



## mcmurdo

### SMARTFIND/ E5 406 MHz EPIRB (AUTO FLOAT FREEHOUSING) – STANDARD VERSION\*



- Internationally Approved
- Transmits on 406 and 121.5MHz
- High performance multi-channel integral GPS giving a typical location accuracy of less than +/- 62 m (Plus version)
- Non hazardous battery for safe and easy transportation
- Unique CARRYSAFE bracket available for safe transportation
- High brightness LED flashing locator light
- 60 comprehensive diagnostic and self-tests during battery life
- Once activated, will transmit for a minimum of 48 hours
- 5 year battery life
- 5 year warranty
- The Auto Float Free Housing will automatically deploy the EPIRB when submerged to a depth lower than 2 - 4metres in the sea.

Code: MCM E5AFFH

\*PLUS version also available: SMARTFIND PLUS/G5 GPS EPIRB (AUTO FLOAT FREE HOUSING)

Same advanced features of standard Smartfind/E5 with Auto Float Free Housing + built-in GPS receiver.

Hi performance 12-channel integral GPS giving a typical location accuracy of less than +/- 62 m for enhanced position location.

Code: MCM G5AFFH



### SATELLITE 3 406™ 406 MH Z CAT I\*



- Model RLB-38
- Category I – Hydrostatic release (auto)
- Transmits on 406 MHz and 121.5 MHz
- Upgrade to GPS positioning with the optional GPS interface cable (sold separately)
- This connects the Satellite 3 406™ to your vessel's GPS receiver
- Non hazardous lithium batteries
- Professional grade design, ergonomic, compact
- High impact UV resistant polymer
- Highly visible LED strobe – Energy efficient
- Audio/visual indicators – Shows active transmission

- Full functional self-test
- Single, 3-position switch for easy test and operation
- Operational life: 48 hours minimum @ -20°C
- 5 year battery life
- 5 year warranty

#### Accessories:

- Automatic Category I Sea Shelter™3 bracket (P/N 9501)
- Cat I HydroFix™ HRU (P/N 9490)
- Optical GPS Interface Cable Cat I (P/N 9388.1)

Code: ACR 2874



\*Cat II also available: Satellite 3 406™ 406 MHz CAT II

Same advanced features of Satellite 3 406™ 406 MHz CAT I but manual release.

#### Accessories:

- Manual Category II QuickDraw™ (P/N 9507). Low profile; easy to rail mount or secure on deck.
- Optical GPS Interface Cable Cat II (P/N 9388)

Code: ACR 2875



### HYDROSTATIC RELEASE UNIT FOR EPIRBs – H20 E



- Should the vessel sink, the Hammar H20, which is activated by increasing water pressure, will automatically release the EPIRB.
- Made of glassfibre reinforced nylon
- Use only manufacturer approved replacement bolt (rod)
- Bolt securing the EPIRB will be cut when the release unit is activated.
- It needs no annual service, maintenance or spare parts
- Simply replace it every 2 years together with its bolt
- Meets SOLAS requirements/ USCG approved

Code: HMM H20E



### BREAKTHRU HYDROSTATIC RELEASE UNIT FOR EPIRB



- Smaller than other HRUs currently available
- Used to enable EPIRBs to automatically float free
- The pyrotechnic charge is used to activate the HRU when it is submerged in water < 13 feet
- Complies with SOLAS and IMO regulations

Code: MCM 82962001A

### MED 600 COMPACT RING BUOY

Compact ring buoy in compliance with Solas 74/83 EEC 96/98.  
Merchant Navy and pleasure navigation approved.  
Approved with Italian law DM385-29/09/99.

Cod.	ø mm	ø1 mm	Accessories	UM
3008160	600	400		PZ
3008190			Cover Bag	PZ



### MED 750 RING BUOY

Ring buoy in compliance with Solas 74/83 EEC 96/98.  
Merchant Navy and pleasure navigation approved.  
Approved with Italian law DM385-29/09/99.

Cod.	ø mm	ø1 mm	UM
3008075	750	440	PZ



### RING BUOY BAG

Polyester padded with inner layer PVC ring buoy bags, endowed with adjustable fixing belts and zip.  
Can contain a 600 mm ring buoy with floating lifebuoy and rescue line.

Cod.	ø mm	UM
3008190	680	PZ



### APPROVED HORSESHOE BUOY

A.03 Albatros horseshoe shaped ring buoy.  
Approved with Italian law DM385-29/09/99.  
Complying pleasure navigation Italian law DM367-07/06/04.

Cod.	H mm	W mm	UM
3009028	540	590	PZ



### BLUE & RED RING BUOYS

PVC canvas coated Urethane foam core ring buoys.

Cod.	ø mm	ø1 mm	Tape	UM
3008060	600	350	RED	PZ
3008061	600	350	BLUE	PZ



### HORSESHOE BUOY

Closed-cell Urethane foam core horseshoe ring buoy.  
With cover and Zip closing.

Cod.	Colour	UM
3009002	YELLOW	PZ
3009004	RED	PZ
3009006	WHITE	PZ



### COMPLETE HORSESHOE BUOY

Closed-cell Urethane foam core horseshoe ring buoy.  
With cover and Zip closing.  
Stainless Steel bracket and MED floating light included.

Cod.	Colour	UM
3009012	YELLOW	PZ
3009014	RED	PZ
3009016	WHITE	PZ



### COMPLETE HORSESHOE BUOY WITH BAG

Closed-cell Urethane foam core horseshoe ring buoy.  
With cover and Zip closing. Stainless Steel bracket and MED floating light included. Comes with protective waterproof covering with clamp-on belts.

Cod.	UM
3009020	PZ



### HORSESHOE BUOY BAG

Waterproof covering for horseshoe buoys.  
Endowed with clamp-on belts and zip opening.

Cod.	UM
3009019	PZ



### SKIPPER 150N INFLATABLE LIFEJACKET

Lightweight and easy to wear 150N inflatable lifejacket EN ISO12402-3.  
Approved for pleasure crafts within and over 6 miles from coast.  
Technical fabric wrapping, retroreflective tapes, whistle, lifting loop, rescue tape.  
Standard size for body weight over 40 Kg.  
150N - For offshore use, even for unconscious people.



HALKEY

UML



Cod.	Mode	Spares	UM
3013902	Manual		PZ
3013904	Automatic		PZ
3013812		Halkey Re-Arming Kit for Manual	PZ
3013814		UML Re-Arming Kit for Manual	PZ
3013816		Halkey Re-Arming Kit for Automatic	PZ
3013817		UML Re-Arming Kit for Automatic	PZ



### HURRICANE 150N INFLATABLE LIFEJACKET

EN ISO12402-3 150N Inflatable lifejacket with harness.  
Approved for cruising within and over 6 miles from coast.  
Technical fabric wrapping, retroreflective tapes, whistle, lifting loop, rescue tape.  
Standard size for body weight over 40 Kg.  
150N - For offshore use, even for unconscious people.



HALKEY

UML



Cod.	Mode	Spares	UM
3013905	Automatic		PZ
3013816		Halkey Re-Arming Kit for Automatic	PZ
3013817		UML Re-Arming Kit for Automatic	PZ

### INFLATABLE LIFEJACKET SKIPPER KID 150N

EN ISO12402-3 150N inflatable lifejacket for children and teens.  
Approved for pleasure crafts within and over 6 miles from coast.  
Technical fabric wrapping, retroreflective tapes, whistle, lifting loop, padded leg tethers and rescue tape. One size for children, weight from 15 to 40 Kg.  
150N - For offshore use, even for unconscious people.



HALKEY

UML



Cod.	Mode	Spares	UM
3013901	Automatic		PZ
3013816		Halkey Re-Arming Kit for Automatic	PZ
3013817		UML Re-Arming Kit for Automatic	PZ



### SOLAS/MED INFLATABLE LIFEJACKET

SOLAS / MED EN ISO12402-2 Certified inflatable lifejacket for pleasure and commercial offshore sailing. With 2 inflation bladder with two activators, technical fabric wrapping, retroreflective tapes, whistle, lifting loop, safety harness and rescue tape.  
Standard size for body weight over 43 Kg.  
Can also be used with heavy clothing.



HALKEY

UML



Cod.	Mode	Spares	UM
3013980	Automatic		PZ
3013820		Halkey Re-Arming Kit for Automatic	PZ
3013821		UML Re-Arming Kit for Automatic	PZ



FLARES AND DISTRESS SIGNALS

Distress signals approved by the Ministry for Transport and Navigation. Complying with Solas Standard 83/96, certified by the International Marine Equipment. Suitable for commercial and pleasure boating, conforming to the Ministerial Order 387 dated 29/9/99. Packed in heavy-duty bags made of water-proof, floating fabric for safer and longer stowage.



Pleasure boating package conforming to ITALIAN REGULATIONS				
Code	Type-approved boating carrying bag	No. of hand-held flares 30.116.01	No. of smoke signals 30.115.00	No. of parachute flares 30.117.00
30.230.01	within 3 miles	2	1	-
30.230.02	within 12 miles	2	2	2
30.230.03	within 50 miles	3	2	3
30.230.04	over 50 miles (unlimited)	4	3	4



Pleasure boating conforming to FRENCH REGULATIONS				
Code	Description			
30.230.05	For navigation	within 6 miles	from a shelter location: 3 hand-held flares 30.116.01.	
30.230.03	For navigation	over 6 miles	from a shelter location: 3 hand-held flares 30.116.01 + 3 parachute flares 30.117.00 + 2 smoke signals 30.115.00.	

Hand-held flare



30.116.01 Hand-held flare

Parachute flare



30.117.00 Parachute flare.

MAYDAY floating smoke signal



30.115.00 floating smoke signal.

**VERY 1 cartridge**  
Type-approved by the Ministry of Merchant Navy, it is made of an aluminium watertight capsule.

Code	Color
30.135.00RO	RED
30.135.00BI	WHITE
30.135.00VE	GREEN



SAFETY EQUIPMENT



### STAR 1

floating rescue light with automatic tilt switching

30.584.00 Powered by 4 x LR20 1.5V batteries, size 350x120mm.  
RINA type-approved in compliance with the 96/98 EC + 98/85 EC directives.  
It conforms to Ministerial Decree 385 dated 29/09/99.



### BRACKET FOR FLOATING RESCUE LIGHTS

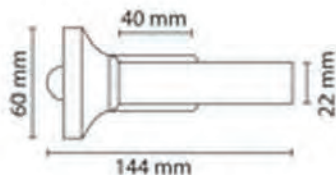
Made of stainless steel, for bulkhead mounting or for mounting on lifebuoy bracket  
22.418.00/01.



Code	Compatible FRL	Tube Ø
30.584.01	30.584.00 and similar	22/25
30.582.01	30.582.00 -	22/25

### Mini One LED floating rescue light

LED. Automatic tilt switching. MED 286115CS approval.



Code	Power	Mounting bracket
30.583.00	2 x AA batteries	Included



### Starled floating rescue light

LED. Floating rescue light with automatic tilt switching and LED light source.

Code	Batteries	Approval	Use	mm
30.582.00	4 x AA	MED 288210CS	Pleasure + merchant navy	145x105

### KTR LED floating rescue light with automatic tilt switching

LED. Powered by 4 alkaline AA batteries included. 4-year life guaranteed.  
Fitted with tilt switching to be activated before using the device. Snap bracket for bulkhead mounting included. Type-approved by RINA Marine Equipment.  
For commercial boating and pleasure boating conforming to Ministerial Decree 385 dated 29/9/99

Code	Ø mm	Height mm	kg
30.585.00	110	135	0.160



### Sealux electronic floating rescue light

30.432.00 Tested and approved by RINA with CCE 39829 approval.  
It automatically activates when it comes into contact with water. It does not activate if wet with rain.  
For pleasure boating (Ministerial Decree 385/99).

PORTABLE FIRE EXTINGUISHERS  
MED-type approved powder extinguisher

Code	Description
31.450.00	1-kg extinguisher, 5A 34B C, loaded with powder, model without a manometer. Bottle made of stainless aluminium, fitted with support.



PORTABLE FIRE EXTINGUISHERS  
MED type-tested powder extinguishers with pressure gauge  
Certified by MED (Marine Equipment) 0029.  
Rust-proof aluminium cylinder; includes support bracket.  
Valid for pleasure + commercial boating.

Code	Kg	Extinction category	Approved in
31.450.01	1	5A 34B C	Italy/Croatia/Slovenia/Switzerland
31.450.02	2	13A 89B C	Italy/Croatia/Slovenia/Switzerland
31.448.01	1	5A 34B C	UK/France
31.448.02	2	13A 89B C	UK/France
31.447.01	1	5A 34B C	Germany/Austria
31.447.02	2	13A 89B C	Germany/Austria



PORTABLE FIRE EXTINGUISHERS  
ANF fire extinguisher with AFFF MED type-tested foam  
Ideal in kitchens since it effectively extinguishes vegetal oil flames used to cook.  
Rustless aluminium bottle with support.

Code	Kg	Extinction category	mm
31.450.12	2	8A - 70B - 25F	380x108



PORTABLE FIRE EXTINGUISHERS  
MED type-tested powder extinguishers with pressure gauge  
Certified by MED (Marine Equipment) 0029.  
Rust-proof aluminium cylinder; includes support bracket.  
Valid for pleasure + commercial boating.

Code	Kg	Extinguishing product	Extinguishing class	mm
31.451.03	3	powder	13A-89BC	130x390
31.451.05	6	powder	34A-233B-C	160x515
31.452.02*	2	CO2	21B	100x587
31.452.05*	5	CO2	89B	140x712
31.453.09	9	foam	27A-233B	190x700

\* Stainless aluminium bottle



PORTABLE FIRE EXTINGUISHERS  
Fire extinguisher blanket  
Type-approved by UNI EN 1869:2002, suitable for mounting near the kitchen area; may substitute the require galley extinguisher.

Code	Container mm	Cover cm
31.426.00	290x170x40	100x100



# FIRST AID KIT CASES AND SEASICKNESS BANDS

First aid kit, Table D.

Made in compliance with Ministerial Decree 01/10/2015 in force as of 18/01/2016

It includes: 250-ml hydrogen peroxide bottle; 1 x AMBU adult resuscitation balloon; 1 x adult resuscitation mask (size 5); 1 x children resuscitation mask (size 2); 1 x nitrile tourniquet; 1 x tubular latex-free tourniquet; 10 x 10-cm h gauze bandages; 1 x ICE PACK; 2 x 10x6-cm plasters; 8 x 125-g compressed cotton wool; 14.5-cm Lister scissors DIN; 19-cm Lister scissors DIN 58279-A190; 5 x 18x40-cm sterile gauze pads; 5 packs of 20x20-cm sterile gauze pads (5x5); 1 pair of sterile nitrile gloves (Large); 5 pairs of sterile copolymer gloves (one size fits all); 1 x small needle collector; 1 x PERSONAL sphygmomanometer with phonendoscope; 1 x flat phonendoscope; 1 x 11x91-cm splint; 1 x first aid multi language guide (24 pages); 1 x copy of the MINISTERIAL DECREE listing the proprietary medicinal products that the final user is required to purchase in pharmacies. The final user shall add the following antiseptic solutions – to be purchased exclusively in pharmacies – to the content of the first aid kit cases: 500-cc chlorhexidine solution 5%.

First aid kit, Table A, in IPX7 watertight case.

Made in compliance with Ministerial Decree 01/10/2015 in force as of 18/01/2016

Professional water- and impact-resistant watertight case.

It includes: 250-ml hydrogen peroxide bottle; 3 x 1-l bottles of benzalconium chlorinate antiseptic solution; 1 x AMBU adult resuscitation balloon; 1 x adult resuscitation mask (size 5); 1 x adult resuscitation mask (size 2); 1 x Guedel airway (size 4 - 90 mm); 1 x Guedel airway (size 3 - 80 mm); 1 x Guedel airway (size 2 - 70 mm); 1 x Guedel airway (size 1 - 60 mm); 1 x plastic tongue holding forceps; 10 x 10-cc sterile syringe.; 1 x NITRILE tourniquet; 1 x tubular latex-free tourniquet; 10 x 10-cm h gauze bandages; 2 x ICE PACKS; 1 x INSTANT COLD PACK; 5 x 10x6-cm PLASTOSAN plasters; 1 x isothermal blanket (gold/silver colour); 8 x 125-g compressed cotton wool; 14.5-cm Lister scissors DIN; 19-cm Lister scissors DIN; 10 x 18x40-cm sterile gauze pads; 10 x 20x20-cm sterile gauze pads; 3 packs (4 pcs each) of vinyl gloves (Large); 10 pairs of sterile copolymer gloves (Medium); 1 pack of surgical masks (50 pcs); 1 x small needle collector; 1 x sphygmomanometer with phonendoscope; 1 x phonendoscope; 1 set of BOSTON STE110 splints (4 pcs, 3 sizes); 1 x digital thermometer; 1 x first aid multi language guide (24 pages); 1 x copy of the MINISTERIAL DECREE listing the proprietary medicinal products that the final user is required to purchase in pharmacies. The final user shall add the following antiseptic solutions – to be purchased exclusively in pharmacies – to the content of the first aid kit cases: 1 litre of sodium hypochlorite solution 1.15%; 1 litre of chlorhexidine solution 5%; 3 litres of iodopovidone solution 10% for mucous membranes and damaged skin.



Type	Authorization	Navigation
Pleasure boating	-	Over 12 miles
Fishing	Local coastal fishing	Within 12 miles
Fishing	Local coastal fishing	Within 20 miles

Code	Case	mm
32.915.50	Watertight stiff case	470x370x180(H)
32.915.51	Watertight soft case	290x200x410(H)



Type	Authorization	Navigation
Pleasure boating	Only is case the boat meets all 3 requirements: 1) pleasure boat with no limits. 2) Presence of personnel onboard seagoing vessels and registered in the muster-roll. 3) Vessel used for chartering activities.	No limits
Fishing	Local coastal fishing	Within 40 miles
Passenger transport	Class C coastal navigation	Within 6 miles
Passenger transport	Class B national and international coastal navigation	Within 20 miles
Passenger transport	Class D local navigation	Within 3 miles

Code	mm
32.915.52	555x428x211(H)



## Premier first aid kit case

32.914.51 It contains 11 first-aid items. Watertight case, suitable for navigation within a 12-mile sea range; size 13x18x7cm.

Content:

- 1 x 96x96x136-cm TNT triangular towel.
- 1 x 5-g compressed cotton wool in case.
- 1 x cellophane gauze bandage (3.5 m x 7 cm)
- 1 x roll of WHITE TNT plaster (5 m x 1.25 cm).
- 2 x 18x40-cm sterile gauze pads (individually packaged).
- 1 case x 10 assorted plasters.
- 10-cm STD scissors with plastic handle.
- 1 pair of sterile COPOLIM gloves (one size fits all).
- 3 x PMC antiseptic towels.
- 1 x little adhesive PVS cross (white and green).
- 1 x LEBENSRETTENDE SOFORTMASSNAHMEN guide.

## HELP first aid kit case

32.914.54 For pleasure boating and local fishing within 12 miles. Watertight case, dimensions: 25.2x20.5x8.7 cm.

Content:

- 6 x 18x40-cm sterile gauze pads (individually packaged).
- 1 x 250-ml bottle of PMC antiseptic solution.
- 4 x Cambric gauze bandage (4 m x 5 cm).
- 1 case x 10 assorted plasters.
- 1 x Cambric gauze bandage (4 m x 7 cm).
- 1 x roll of WHITE TNT plaster (5 m x 1.25 cm).
- 2 x 125-g compressed cotton wool.
- 1 x 10x10-cm ATTIVA GRAS paraffin sterile gauze pad.
- 14.5-cm Lister scissors DIN.
- 1 x NITRILE tourniquet.
- 1 x 22x3-cm plastic splint.

### ITALY FLAG

High quality Polyester fabric flags.

Cod.	cm	UM
3400020	20 x 30	PZ
3400030	30 x 45	PZ
3400040	40 x 60	PZ
3400050	50 x 75	PZ
3400070	70 x 100	PZ
3400080	80 x 120	PZ



### GERMANY FLAG

High quality Polyester fabric flags.

Cod.	cm	UM
3400220	20 x 30	PZ
3400230	30 x 45	PZ
3400240	40 x 60	PZ
3400250	50 x 75	PZ



### FRANCE FLAG

High quality Polyester fabric flags.

Cod.	cm	UM
3400720	20 x 30	PZ
3400730	30 x 45	PZ
3400740	40 x 60	PZ
3400750	50 x 75	PZ



### AUSTRIA FLAG

High quality Polyester fabric flags.

Cod.	cm	UM
3400120	20 x 30	PZ
3400130	30 x 45	PZ
3400140	40 x 60	PZ
3400150	50 x 75	PZ



### CROATIA FLAG

High quality Polyester fabric flags.

Cod.	cm	UM
3400420	20 x 30	PZ
3400430	30 x 45	PZ
3400440	40 x 60	PZ
3400450	50 x 75	PZ



### SLOVENIA FLAG

High quality Polyester fabric flags.

Cod.	cm	UM
3400520	20 x 30	PZ
3400530	30 x 45	PZ
3400540	40 x 60	PZ
3400550	50 x 75	PZ



### SPAIN FLAG

High quality Polyester fabric flags.

Cod.	cm	UM
3400820	20 x 30	PZ
3400830	30 x 45	PZ
3400840	40 x 60	PZ
3400850	50 x 75	PZ



### G.B. FLAG

High quality Polyester fabric flags.

Cod.	cm	UM
3400920	20 x 30	PZ
3400930	30 x 45	PZ
3400940	40 x 60	PZ
3400950	50 x 75	PZ



### GREECE FLAG

High quality Polyester fabric flags.

Cod.	cm	UM
3400320	20 x 30	PZ
3400330	30 x 45	PZ
3400340	40 x 60	PZ
3400350	50 x 75	PZ



### SWEDEN FLAG

High quality Polyester fabric flags.

Cod.	cm	UM
3402220	20 x 30	PZ
3402230	30 x 45	PZ
3402240	40 x 60	PZ
3402250	50 x 75	PZ



### NORWAY FLAG

High quality Polyester fabric flags.

Cod.	cm	UM
3402320	20 x 30	PZ
3402330	30 x 45	PZ
3402340	40 x 60	PZ
3402350	50 x 75	PZ



### DENMARK FLAG

High quality Polyester fabric flags.

Cod.	cm	UM
3402120	20 x 30	PZ
3402130	30 x 45	PZ
3402140	40 x 60	PZ
3402150	50 x 75	PZ



### NETHERLANDS FLAG

High quality Polyester fabric flags.

Cod.	cm	UM
3402020	20 x 30	PZ
3402030	30 x 45	PZ
3402040	40 x 60	PZ
3402050	50 x 75	PZ



### BELGIUM FLAG

High quality Polyester fabric flags.

Cod.	cm	UM
3404920	20 x 30	PZ
3404930	30 x 45	PZ
3404940	40 x 60	PZ
3404950	50 x 75	PZ



### MALTA FLAG

High quality Polyester fabric flags.

Cod.	cm	UM
3404420	20 x 30	PZ
3404430	30 x 45	PZ
3404440	40 x 60	PZ
3404450	50 x 75	PZ



### ROMANIA FLAG

High quality Polyester fabric flags.

Cod.	cm	UM
3402920	20 x 30	PZ
3402930	30 x 45	PZ



### BULGARIA FLAG

High quality Polyester fabric flags.

Cod.	cm	UM
3402620	20 x 30	PZ
3402630	30 x 45	PZ



### HUNGARY FLAG

High quality Polyester fabric flags.

Cod.	cm	UM
3400620	20 x 30	PZ
3400630	30 x 45	PZ
3400640	40 x 60	PZ
3400650	50 x 75	PZ



### CZECH FLAG

High quality Polyester fabric flags.

Cod.	cm	UM
3404220	20 x 30	PZ
3404230	30 x 45	PZ
3404240	40 x 60	PZ
3404250	50 x 75	PZ



### SLOVAKIA FLAG

High quality Polyester fabric flags.

Cod.	cm	UM
3403720	20 x 30	PZ
3403730	30 x 45	PZ



### SARDINIA FLAG

High quality Polyester fabric flags.

Cod.	cm	UM
3406020	20 x 30	PZ
3406030	30 x 45	PZ
3406040	40 x 60	PZ



### CORSICA FLAG

High quality Polyester fabric flags.

Cod.	cm	UM
3406120	20 x 30	PZ
3406130	30 x 45	PZ
3406140	40 x 60	PZ



### U.S.A. FLAG

High quality Polyester fabric flags.

Cod.	cm	UM
3404520	20 x 30	PZ
3404530	30 x 45	PZ
3404540	40 x 60	PZ
3404550	50 x 75	PZ



### RUSSIA. FLAG

High quality Polyester fabric flags.

Cod.	cm	UM
3404720	20 x 30	PZ
3404730	30 x 45	PZ
3404740	40 x 60	PZ
3404750	50 x 75	PZ



### SERBIA FLAG

High quality Polyester fabric flags.

Cod.	cm	UM
3404820	20 x 30	PZ
3404830	30 x 45	PZ
3404840	40 x 60	PZ
3404850	50 x 75	PZ



### UKRAINE FLAG

High quality Polyester fabric flags.

Cod.	cm	UM
3404620	20 x 30	PZ
3404630	30 x 45	PZ
3404640	40 x 60	PZ
3404650	50 x 75	PZ



### MONTENEGRO FLAG

High quality Polyester fabric flags.

Cod.	cm	UM
3402820	20 x 30	PZ
3402830	30 x 45	PZ



### MAKEDONIA FLAG

High quality Polyester fabric flags.

Cod.	cm	UM
3402720	20 x 30	PZ
3402730	30 x 45	PZ



### BOSNIA HERZEGOVINA FLAG

High quality Polyester fabric flags.

Cod.	cm	UM
3402520	20 x 30	PZ
3402530	30 x 45	PZ



### ALBANIA FLAG

High quality Polyester fabric flags.

Cod.	cm	UM
3401420	20 x 30	PZ
3401430	30 x 45	PZ



### TURKEY FLAG

High quality Polyester fabric flags.

Cod.	cm	UM
3404320	20 x 30	PZ
3404330	30 x 45	PZ
3404340	40 x 60	PZ
3404350	50 x 75	PZ



### EGYPT FLAG

High quality Polyester fabric flags.

Cod.	cm	UM
3404020	20 x 30	PZ
3404030	30 x 45	PZ
3404040	40 x 60	PZ
3404050	50 x 75	PZ



### TUNISIA FLAG

High quality Polyester fabric flags.

Cod.	cm	UM
3404120	20 x 30	PZ
3404130	30 x 45	PZ
3404140	40 x 60	PZ
3404150	50 x 75	PZ



### ST. VINCENT AND GRENADINES FLAG

High quality Polyester fabric flags.

Cod.	cm	UM
3403920	20 x 30	PZ
3403930	30 x 45	PZ
3403940	40 x 60	PZ
3403950	50 x 75	PZ



### KNOTS STICKER

Sailor knots sticker.

Cod.	mm	UM
3419206	160 x 240	PZ



### NATIONAL FLAGS STICKER

National flags sticker chart.

Cod.	mm	UM
3419205	160 x 240	PZ



### INTERNATIONAL CODES STICKER

International codes sticker chart.

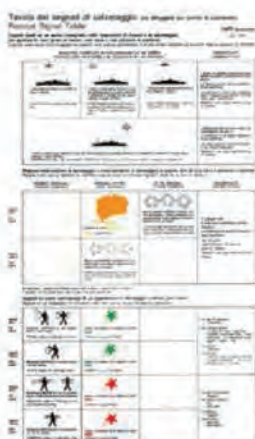
Cod.	mm	UM
3419201	160 x 240 (With Symbols)	PZ
3419200	120 x 160 (Without Symbols)	PZ



### RESCUE SIGNAL CODES STICKER

Rescue signal codes sticker chart.

Cod.	mm	UM
3419203	160 x 240	PZ



### REGATTA SIGNAL FLAG CHART STICKER

Regatta signal flag sticker chart.

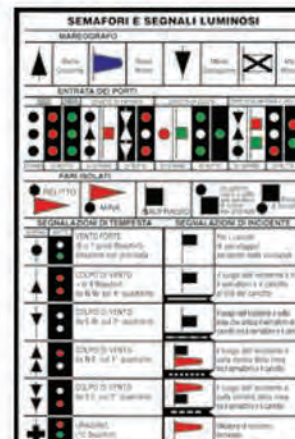
Cod.	mm	UM
3419202	155 x 175	PZ



### NAVIGATION LIGHTS & LUMINOUS SIGNALS STICKER

Navigation lights and light signals sticker chart.

Cod.	mm	UM
3419204	160 x 240	PZ



	Code	Description	Size
	CFG L00300	White Lithium Grease	125 ml
	CFG L00302		500 ml
	CFG L00303		1000 ml
	CFG L00304		5000 ml
	CFG L00600	High Performance Grease	125 ml
	CFG L00602		500 ml
	CFG L00603		1000 ml
	CFG L00604		5000 ml
	CFG L00100	Tech Vaseline Grease	125 ml
	CFG L00101		500 ml
	CFG L00103		1000 ml
	CFG L00104		5000 ml
	CFG L00400	Molibdene Bisulphure Grease	125 ml
	CFG L00402		500 ml
	CFG L00403		1000 ml
	CFG L00404		5000 ml
	CFG L01400	White Teflub Grease PTFE	125 ml
	CFG L01401		500 ml
	CFG L00801	Nautical Blue Grease	125 ml
	CFG L00802		500 ml
	CFG L00803		1000 ml
	CFG L00804		5000 ml
	CFG L00900	24 Tubes Displayer	For 125 ml tubes





## CLEANERS AND LUBRICANTS

	Code	Description	Size
	CFG C1101	Electronic Cleaner	200 ml
	CFG C1102		400 ml
	CFG C0704	Contacts Cleaner	150 ml
	CFG C0703		300 ml
	CFG C0801	Contacts Desoxidizer	200 ml
	CFG C0901	Contacts Lubricant	200 ml
	CFG C1001	Dust Free	200 ml
	CFG C0173	6-66 Multipurpose Anti-Corrosive	200 ml
	CFG C0172		400 ml
	CFG C0101	2-26 Electro	200 ml
	CFG C4501	Teflub Marine PTFE Dry Lubricant	400 ml



# HIG TEMPERATURE PAINTS

Code	Description	Size
CFG S0520	High Temp Paint WHITE	Aerosol 400 ml
CFG S0510	High Temp Paint ALUMINIUM	Aerosol 400 ml
CFG S0500	High Temp Paint BLACK	Aerosol 400 ml
CFG S0540	High Temp Paint RED	Aerosol 400 ml



# SILICONES



Code	Description	Size
CFG C1901	Silicone Spray	200 ml
CFG C1801	Silicone Grease	200 ml



# HIGH TEMPERATURE SILICONES

Code	Description
CFG P00100	CFG 343°C Red Silicone Gasket
CFG P00200	CFG 260°C Black Silicone Gasket



# HAND - CLEANING CREAM

Code	Description
CFG 00700	White, 3 LT Dispenser





# SEALANTS AND PRIMERS

Code	Description	Size	Colour
SIK 290DC	Sikaflex Sealant 290DC	310ml	Black
SIK 290DC600	Sikaflex Sealant 290DC	600ml	Black
SIK 291IW	Sikaflex Sealant 291i	310ml	White
SIK 291IB	Sikaflex Sealant 291i	310ml	Black
SIK 291IW100	Sikaflex Sealant 291i	310ml	White
SIK 291IB100	Sikaflex Sealant 291i	310ml	Black
SIK 292I	Sikaflex Sealant 292i	310ml	White
SIK 295UVW	Sikaflex Sealant 295UV	310ml	White
SIK 295UVB	Sikaflex Sealant 295UV	310ml	Black
SIK 298600	Sikaflex Sealant 298	600ml	Black
SIK 521UVW	Sikaflex Sealant 521UV	310ml	White
SIK 521UVB	Sikaflex Sealant 521UV	310ml	Black
SIK 8561	Sikaflex Firestop Marine	310ml	Black
SIK 205	Sikaflex Cleaner 205 Multipurpose Activator/Cleaner	250ml/1lt	Clear
SIK 206	Sikaflex Primer 206G+P	250ml/1lt	Black
SIK 215	Sikaflex Primer 215	250ml/1lt	Clear
SIK MULTI	Sikaflex MultiPrimer Marine	250ml/1lt	Clear

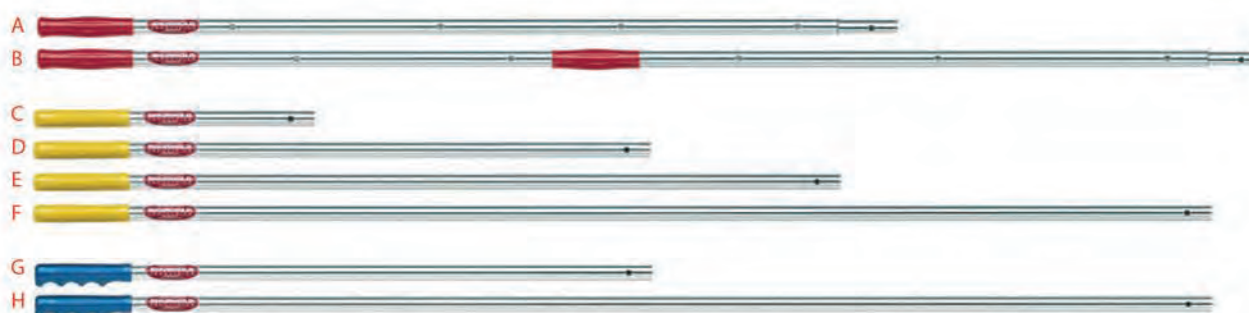


## HANDLES

All Shurhold handles are made of high-strength, corrosion resistant, lightweight aluminum. Their SHUR-LOK quick release system positively locks quickly and easily with more than 40 different attachment heads.



Ref.	Code	Description	Features
A	SHD 833	6" Telescoping Handle quickly locks at four different lengths from 43"-72"	Excellent versatility
B	SHD 855	9" Telescoping Handle quickly locks at five different lengths from 63"-108"	
C	SHD 713	13" Fixed Length	Light weight
D	SHD 730	30" Fixed Length	
E	SHD 740	40" Fixed Length	
F	SHD 760	60" Fixed Length	
G	SHD 730 FG	30" Fixed Length Handle with finger grip	Great for use with Shurhold nets and graffs
H	SHD 760 FG	60" Fixed Length Handle with finger grip	



## BRUSHES

Ref.	Code	Description	Recommended Use
A	SHD 970	6" Extra Soft Brush with blue nylon bristles.	Ideal for delicate surfaces like isinglass and plexiglas
B	SHD 960	6" Soft Brush with yellow polystyrene bristles.	Safe on gelcoat, clear coat, fiberglass and paint
C	SHD 955	6" Medium Brush with yellow polystyrene bristles.	For textured and non-skid surfaces
D	SHD 950	6" Stiff Brush with white polypropylene bristles.	For teak, below the water line and other tough surfaces
E	SHD 980	10" Soft Brush with yellow polystyrene bristles.	Safe on gelcoat, clear coat, fiberglass and paint
F	SHD 985	10" Medium Brush with yellow polystyrene bristles.	For textured and non-skid surfaces
G	SHD 990	10" Stiff Brush with white polypropylene bristles.	For teak, below the water line and other tough surfaces
H	SHD 310	8" Extra Soft Hull Brush with blue nylon bristles.	For vertical surfaces, safe on delicate surfaces like isinglass and plexiglas
I	SHD 308	8" Soft Hull Brush with yellow polystyrene bristles.	For vertical surfaces, safe on gelcoat, clear coat, fiberglass and paint
J	SHD 50	5" Round Soft Brush with yellow polystyrene bristles.	Ideal for small areas. Safe on gelcoat, clear coat, fiberglass and and paint



## SWIVEL PAD &amp; SCRUBBERS

Ref.	Code	Description
A	SHD 1700	Swivel Pad Base universal swivel pad holder
B	SHD 1701	Fine Scrubber Pad (2 pack) - White
C	SHD 1702	Medium Scrubber Pad (2 pack) - Blue
D	SHD 1703	Coarse Scrubber Pad (2 pack) - Brown
E	SHD 1710C	Swivel Pad Combo - Includes lambs wool cover
F	SHD 1710	Synthetic Lambs Wool Replacement Cover





## SQUEEGEES

Ref.	Code	Description
A	SHD 1424	24" Stainless steel Floor Squeegee. It pushes water away and spills with ease.
B	SHD 1416	16" Stainless steel Squeegee.
C	SHD 1412	12" Stainless steel Squeegee.
D	SHD 1410	10" Stainless steel Squeegee.
E	SHD 1408	8" Stainless steel Squeegee.
F	SHD 260	12" SHUR-Dry Flexible Water Blade. Made of silicone, it molds to curved surfaces.
G	SHD 265	SHUR-Dry Adapter for waterblade. It fits all Shurhold handles.



A



B C D E



F



G

## DECK SQUEEGEES

Code	Description
MANSU SQ45	Deck squeegees white plastic 45 cm
MANSU SQ70	Deck squeegees white plastic 70 cm
MANSU SQADA	Adaptor for Shurhold handles



## ADAPTERS & EXTENSION

Ref.	Code	Description
A	SHD 103H	30" Extension. It adds 30" to any handle.
B	SHD 101	Threaded Adapter. Compatible with most internally threaded products.
C	SHD 102CH	10" Curved Adapter. It adds 10" and 30-degree angle to any SHUR-LOK equipped accessory. Two holes at the end provide for 180-degree rotation.



A



B



C



## MOPS & BROOMS

Ref.	Code	Description
A	SHD 120	Angled Floor Broom is lightweight for general purpose sweeping. Compact design with flared bristles for hard to reach places.
B	SHD 112	Cotton String Mop, ideal value mop.
C	SHD 118	Rayon String Mop, ideal for all general purpose maintenance.
D	SHD 113	Soft 'N' Thirsty Mop, synthetic chamois.
E	SHD 117	Deluxe "Water Sprite" Mop is top of the line mop to be used when nothing but the best will do!



A



B



C



D



E



Ref.	Code	Description
A	SHD 130	Boat Hook. Exclusive Shurhold design with a line carrying feature, centered push-off and basic boat hook.
B	SHD 1901	Paddle. A great safety item for any boat.
C	SHD 134	Dock-A-Reni. Dock line holding tool, it allows to tie your boat with ease



BRUSHES & MOPS



Ref.	Code	Description
A	SHD 1960	Soft Brush with Handle. The 6" deck soft brush comes with a 48" threaded wood handle as one piece.
B	SHD 1950	Stiff Brush with Handle. The 6" deck stiff brush comes with a 48" threaded wood handle as one piece.
C	SHD 1113	Soft 'N' Thirsty Mop with Handle. Fast drying mop on a 48" wood handle.



HAND HELD BRUSHES



Ref.	Code	Description
A	SHD 276	Long Dip & Scrub Brush. Still, chemical resistant bristles made of polypropylene. Extra long 20" handle.
B	SHD 274	Dip & Scrub Brush. Still, chemical resistant bristles with a compact handle.
C	SHD 272	Scrub Brush. Soft, comfort handle with finger grips and a safety bumper.
D	SHD 270	Utility Brush. It includes a unique spot scrubber on the handle.
E	SHD 278	Detailing Brush. Stainless steel bristles, medium stiffness for quick removal of grease and grime. Perfect for detailing teak.



FISHING ATTACHMENTS



Ref.	Code	Description
A	SHD 1820	Landing Net. 17" x 20" x 30" with treated nylon netting.
B	SHD 1822	Crab Net. 12" x 13" x 15" with treated nylon netting.
C	SHD 1825	Shrimp & Shad Dip Net. 17" x 20" x 30" fine mesh netting.
D	SHD 1804	Gaff Hook. Made of stainless steel, it includes safety spring guard. Shown open and closed.





## HOSE NOZZLE

Code	Description
SHD 288	Hose Nozzle. Die-cast zinc nozzle body with soft black vinyl grip. Hold-open clip for a constant water flow and stainless steel spring.



## HAND HELD TOOLS

Ref.	Code	Description
A	SHD 220	PVA* Towel. It absorbs 50% more water than natural chamois, it prevents water spots. Extra large size 17"x27".
B	SHD 210	PVA* Sponge. It absorbs more than any other sponge. It prevents water spots and resists mold and mildew.
C	SHD 284	Wash Mitt. Made from soft, synthetic, absorbent fibers. It can be used wet or dry. Comfortable, easy, snug fit thanks to the shaped thumb and elastic band base.
D	SHD 285	Deluxe Wash Mitt. Made from genuine lambs wool. Great for washing and polishing and can be used wet or dry. Comfortable fit.

\*PVA is a high tech synthetic material that is lint free and resists mold and mildew better than a regular sponge or towel.



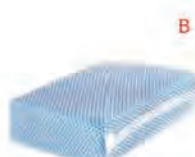
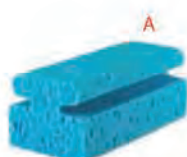
## SNAP & ZIPPER LUBRICANT

Code	Description
SHD 251	Snap Stick. Snaps and zippers on awnings, straps and other items suffering the corroding effects of rain, dirt and grime.



## SPONGES & TOWELS

Ref.	Code	Description
A	SHD 280	Super T Sponge. Extra large with T-shaped top for an easy grip.
B	SHD 282	Bug and Tar Remover Sponge. Non-abrasive, mesh-covered sponge perfect to remove tar, grit, bugs, stains and grime.
C	SHD 293	293 - Microfiber Towels. Variety 3 pack <ul style="list-style-type: none"> <li>● Polish and Shine - Super Soft</li> <li>● Wash &amp; Clean - Extra Strong</li> <li>● Glass &amp; Mirror - Lint Free</li> </ul>



### METAL WADDING POLISH

Brasso Duraglit metal polish wadding for: brass, copper, chrome, stainless steel and other metals

75 gr

Code: DRG BRASS075



### THE ABSORBER PVA DRYING SKIN

- Dries small cars in 2-3 minutes
- resistant to most chemicals
- Unharmful by grease and oil
- Tough, lintless.
- Lasts for years with normal use
- Great as a towel at the beach or on boats
- Use it anywhere you'd use a towel, chamois or even a sponge

Code	Size
ABS 2717	27"x17"
ABS 1317	13"x17"

Available in natural and assorted colours.



### METAL POLISH

It safely and easily removes oxidation, corrosion, stains, and rust. It produces a brilliant reflective luster and leaves an invisible protective coating to ensure a long-lasting shine.

Code	Description
AUT 1000	75 ml tube (paste)
AUT 1210	250 ml bottle (liquid)
AUT 1100	750 ml can (paste)



### MARINE SHINE

This professional strength product cleans and polishes weathered boat surfaces. The abrasive agents remove rust from all bright metal parts and fiberglass surfaces on boats. Excellent for preserving the luster of hulls, decks and engines.

Code	Description
AUT 1190	75 ml tube (paste)
AUT 1191	750 ml can (paste)



### LEATHER CLEANER 75ml TUBE

Quick and easy to use, gentle but effective, Autosol Leather Cleaner restores color and luster to leather while removing stains caused by dirt, buildup, and even ink. It is suitable for smooth leather and also works on matte plastic, vinyl or synthetic leather, though not recommended for suede.

Code: AUT 1040



### M1 CHROME PLATED PLASTIC POLIS H 75ml Tube

It achieves optimum cleaning results on all types of chrome plated synthetic materials without harming the chrome plating.

Code: AUT 1910



### LIQUID INSULATOR WAX

Last Step Gel Wax.

Unique combination of high gloss shine, ease of use and long-lasting weather defense

- #1 selling, "most talked about" Collinite product
- Easy on, easy off application
- Durable weather protection

Size: Pint

Code: COL 845



### HEAVY DUTY Liquid Fleetwax

Fiberglass Cleaner-Wax

Versatile, 2 in 1 formula restores finish as it shines and preserves

- Restores, beautifies and protects in one step
- Award-winning\*, #1 selling marine product
- Saves time and money with fleet applications

Size: Pint

Code: COL 870P



### FIBERGLASS BOAT WAX

Last Step Gel Protectant.

Easy-to-use last step wax provides high gloss shine and long-lasting weather defense.

- Enhances look while protecting finish
- Ideal for large fleets with no hard buffing required
- Provides excellent coating of durability

Size: Pint

Code: COL 925



### LIQUID METAL WAX

Metal Polish and Protectant.

Removes surface contaminants while leaving behind radiant shine and coating of rust preventing protection.

- Tough on rust and stains, yet easy to use
- Restores, shines and protects in one step
- For a variety of metal surfaces

Codes: COL 850P 1 Pint  
COL 850MG 1/2 Gallon



### FIBERGLASS BOAT WAX

Flitz Paste Metal Polish is a concentrated cream that is unequaled in its ability to clean, polish, deoxidize and protect brass, copper, silverplate, sterling, chrome, stainless steel, nickel, bronze, solid gold, aluminum, anodized aluminum, beryllium, magnesium, platinum, pewter, factory hot gun bluing, painted surfaces, glass, Plexiglas., Fiberglass. and Armatel..

Removes: tarnish, rust, water stains, chalking, lime deposits, heat discoloration, lead and powder residue, oxidation, bugs, tar, oil, fingerprints, tree sap, bird droppings, graffiti, dyes and black streaks.

Provides tough, durable protection up to 6 months in fresh water and up to 3 months in salt water. Nonabrasive formula, non-toxic and non-flammable.

USDA Authorized.

Codes: FLZ BU03515 150 gr. boxed Tube  
FLZ CA03518 906 gr. can



DECK MAINTENANCE

### ULTRA TEF-GEL CORROSION ELIMINATOR & ANTI SEIZE LUBRICANT

Tef-Gel paste contains 40% PTFE powder and 0% volatile solvents, no silicones or petroleum solvents to evaporate, which would leave voids for electrolytes to be drawn into creating a galvanic cell. When both surfaces are coated and mated with Tef-Gel there are no voids for electrolytes (salt water) to be drawn in by capillary action over extended periods of time.



Code	Size
TEF TG25	1/4 oz. (Syringe 7 gr.)
TEF TG1	1 oz. (Syringe 28 gr.)
TEF TG2	2 oz. (Tub 56 gr.)
TEF TG16T	16 oz. (Tub 450 gr.)



### RUST STAIN REMOVER

This convenient liquid formula quickly and easily removes rust stains from white sinks and white toilets, as well as colorfast fabric and carpets. Safe on pipes and septic systems

Whink Rust Stain Remover, 10 fl oz:

Code: WNK RUST10



### GOO GONE

US #1 Brand for Sticky, Gummy, Greasy, Gooney Problems!

Goo Gone's citrus power and scientific technology combine to defeat the toughest stains.

Goo Gone can be used on hard surfaces, carpeting, upholstery, clothing, and more.

Do not use on silk, leather, suede or rubber

3 oz bottle

Code: GOOGONE



## BILGE AND ENGINE CLEANER 01

Code	Size
CLZ 1-1LT	1 litre container
CLZ 1-5LT	5 litre container



## BIO BILGE CLEANER 02

Code	Size
CLZ 2 - 1LT	1 litre container
CLZ 2-5LT	5 litre container



## COLD WASH BILGE &amp; ENGINE CLEANER 03

Code	Size
CLZ 3-1LT	1 litre container
CLZ 3-5LT	5 litre container



## RAW ALUMINIUM RESTORER 04

Code	Size
CLZ 4-1LT	1 kg container
CLZ 4-5LT	5 kg container



## ENGINEERS HAND SOAP 25K

Code	Size
CLZ 25K-750ML	750 ml pot
CLZ 25K-5LT	5 litre container



## FAST ACTING RUST CONVERTER 31

Code	Size
CLZ 31- 250ML	250 g bottle
CLZ 31- 1KG	1 kg container
CLZ 31- 5KG	5 kg container



## RUST STREAKS REMOVER 102

Code	Size
CLZ 102 -1LT	1 litre container
CLZ 102 -5LT	5 litre container



## FUEL ADDITIVE 106

Code	Size
CLZ 106-500ML	500 ml. container
CLZ 106-1LT	1 litre container
CLZ 106-5LT	5 litre container



## BIOCIDE FOR FUEL 107

Code	Size
CLZ 107-250ML	250 ml bottle



## SEPTIC TANKS AND GREASE TAPS BIOLOGICAL TREATMENT 109

Code	Size
CLZ 109-1LT	1 litre container
CLZ 109-5LT	5 litre container



## WAX CLEANER 111

Code	Size
CLZ 111-500ML	500 ml bottle



## OIL &amp; DIESEL SPILL DISPERSANT 112

Code	Size
CLZ 112-1LT	1 litre container
CLZ 112-5LT	5 litre container



## ACID DESCALER AND RUST REMOVER 120

Code	Size
CLZ 120-1LT	1 litre container
CLZ 120-5LT	5 litre container



## BLACK WATER TANK BIO-TREATMENT 122

Code	Size
CLZ 122-24T	5 Pot of 24 tablets
CLZ 122-120T	Bucket of 120 tablets



## GREY WATER TANKS TREATMENT 136

Code	Size
CLZ 136 - 1LT	1 litre container
CLZ 136 - 5LT	5 litre container



## LIQUID RENOVATOR FOR TEAK 201

Code	Size
CLZ 201-1LT	1 litre container
CLZ 201-5LT	5 litre container



## OXALIC ACID 202

Code	Size
CLZ 202-1LT	1 litre container
CLZ 202-5LT	5 litre container



## GELCOAT RESTORER 204

Code	Size
CLZ 204-250GR	250 g pot
CLZ 204-1KG	1 kg pot



## HULL AND DECK CLEANER 205 SI

Code	Size
CLZ 205SI-1LT	1 litre container
CLZ 205SI-5LT	5 litre container



## WASH AND WAX 205 WW

Code	Size
CLZ 205WW-1L	1 litre container
CLZ 205WW-5L	5 litre container



## BIO GLASS CLEANER 206

Code	Size
CLZ 206-750ML	0,75 litre hand sprayer



## BOAT FENDER CLEANER 208

Code	Size
CLZ 208-1LT	1 litre container
CLZ 208-5LT	5 litre container



## CALCIUM REMOVER 210

Code	Size
CLZ 210-500GR	500 g pot



## SAIL AND AWNING CLEANER 214

Code	Size
CLZ 214-1LT	1 litre container
CLZ 214-5LT	5 litre container



# NON-SKID DECK CLEANER 216

Code	Size
CLZ 216-1LT	1 litre container
CLZ 216-5LT	5 litre container



# INFLATABLE DINGHY CLEANER 219

Code	Size
CLZ 219-1LT	1 litre container
CLZ 219-5LT	5 litre container



# CHROME & STAINLESS STEEL POLIS H 220

Code	Size
CLZ 220-100GR	100g container
CLZ 220-250GR	250g container



# LIQUID TEAK CLEANER 222

Code	Size
CLZ 222-1LT	1 litre container
CLZ 222-5LT	5 litre container



# LEATHER & VINYL CLEANER 302

Code	Size
CLZ 302-1LT	1 litre container
CLZ 302-5LT	5 litre container



# WATER REPELLENT FOR WIND OWS 304

Code	Size
CLZ 304-500ML	500 ml bottle



# LEATHER NUTRIENT CREAM 312

Code	Size
CLZ 312-250ML	250 ml bottle
CLZ 312-1LT	1 litre bottle



# BIO TREATMENT CHEMICAL TOILETS 405

Code	Size
CLZ 405-1LT	1 litre container



# OXYGEL • RUST REMOVER GEL

Code	Size
CLZ OXYPHOS-600G	600 gr container



# PHOSPHORIC ACID - OXYPHO S

Code	Size
CLZ OXYPHOS-1LT	1 litre container
CLZ OXYPHOS-5LT	5 litre container



#### STAR BRITE BOAT WASH SHAMPOO

- Leaves hulls, decks, chrome and fittings sparkling
- Cheap - 2 or 3 caps diluted in a bucket of water cleans a 7 meters boat
- Non-streaking, does not leave residue
- Will not remove wax or polish
- Environmentally friendly thanks to its biodegradable formula

Cod.	Pack	UM
5731505	500 ml Bottle	PZ
5731506	3,80 Lt Can	PZ

Starbrite



#### STAR BRITE 100% SEA SAFE BOAT WASH SHAMPOO

- Cleans away dirt, stains, grease, oil and salt
- Use on fiberglass, metal, glass, rubber and painted surfaces
- Concentrated for heavy duty cleaning
- Will not remove wax or polish
- Low soap quantity, does not contain phosphates
- Environmentally friendly thanks to its 100% biodegradable formula

Cod.	Pack	UM
5731509	1 Lt Bottle	PZ

Starbrite



#### STAR BRITE 100% SEA SAFE BOAT WASH & WAX

- To cleans and protect saving time and money
- Concentrated formula for quickly clean all surfaces without environment harm
- Concentrated formula allows to use small quantity of product. 3 caps are enough for 7 meters boat.
- Low soap content avoids water waste, it does not contain phosphates
- Environmentally friendly thanks to its 100% biodegradable formula

Cod.	Pack	UM
5731510	1 Lt Bottle	PZ

Starbrite



#### EM SHAMPOO ECO CLEANER

To dilute concentrated universal shampoo 100% biodegradable for fiberglass, painted surfaces, metal and inflatables.

Cod.	Pack	UM
5732437	1 Lt Bottle	PZ
5732439	5 Lt Can	PZ

EM



#### EM W&W SHAMPOO CLEANER AND WAX

Boat shampoo with special wax that cleans up and at the same time gives protection and brilliance. Suggested for fiberglass, painted parts and metals.

Cod.	Pack	UM
5732434	1 Lt Bottle	PZ
5732436	5 Lt Can	PZ

EM



#### STAR BRITE 100% SEA SAFE BOAT WASH & WAX

Powerful cleaner for heavy duty cleaning fiberglass and aluminum surfaces, painted surfaces, inflatables, fenders and seats. Just apply on, leave for 3-5 minutes, then rub with scrub or sponge and rinse with water.

Cod.	Pack	UM
5732416	750 ml Spray Bottle	PZ
5732417	750 ml Refill Bottle	PZ
5732418	5 Lt Can	PZ

EM



#### TK BOAT CLEANER SHAMPOO

High-concentrated neutral shampoo for external washing of boats and for all inboard uses. It keeps his own features even if mixed with salt-water.

Cod.	Pack	UM
5732101	1 Lt Bottle	PZ
5732105	5 Lt Can	PZ



#### TK MORGEN DEGREASER

Concentrated degreasing detergent that penetrates and dissolves dirt. Perfect for cleaning resin, metallic, plastic, vinyl or leather surfaces.

Cod.	Pack	UM
5732201	1 Lt Bottle	PZ
5732205	5 Lt Can	PZ



### STAR BRITE SUPER SPRAY XTREME CLEANER

- The Ultimate all-purpose, all-surface, use-anywhere cleaner
- Removes even the toughest dirt and greasy stains, even on porous surfaces
- Special chelating agents break the bond that holds dirt or stains to surface without heavy scrubbing
- Phosphate-free, safe for use on near the water; runoff won't harm sealife or cause algae blooms
- Cleans fiberglass, vinyl, plastic, metal and even inflatable boats

Cod.	Pack	UM
5731550	500 ml Bottle	PZ
5731530	3,80 Lt Can	PZ



### STAR BRITE 100% SEA SAFE CLEANER & DEGREASER

- Spray on to remove dirt, fish blood, grime and stains
- Powerful citrus cleaning agents strip away greasy smudges
- Won't remove wax or polish
- Special biodegradable bottle helps to lower trash quantity to eliminate
- Environmentally friendly thanks to its 100% biodegradable formula

Cod.	Pack	UM
5731559	650 ml Spray Bottle	PZ



### STAR BRITE BILGE CLEANER

- Concentrated and biodegradable bilge cleaner
- Dissolves and eliminates grease, scum and sludge
- Easy to use; just pour in, run boat, pump out

Cod.	Pack	UM
5731511	1 Lt Bottle	PZ



### STAR BRITE 100% SEA SAFE CLEANER & DEGREASER

- Dissolves oil, fuel, sludge and grime
- Easy to use – just pour in, run boat and pump out
- 100% Biodegradable, environmentally friendly formula
- Leaves bilge smelling clean and fresh
- Does not contain phosphates or colourants
- Unique biodegradable bottle helps reduce landfill overcrowding

Cod.	Pack	UM
5731512	1 Lt Bottle	PZ



### STAR BRITE NON SKID DECK CLEANER

- An incredible non skid cleaner for metals, fiberglass and painted surfaces
- Cleans away ground-in dirt and stains
- Leaves a protective coating to help repel dirt and stains
- No hard scrubbing or rubbing
- Will not remove wax or polish

Cod.	Pack	UM
5732210	1 Lt Bottle	PZ
5732211	3,80 Lt Can	PZ



### STAR BRITE 100% SEA SAFE NON SKID DECK CLEANER

- The best way to clean away dirt and stains from flat and non-skid decks
- Has a strong effect that dissolves dirt without rubbing
- Leaves a durable, protective coating against UV rays and dirt
- 100% Biodegradable, environmentally friendly formula

Cod.	Pack	UM
5732209	1 Lt Bottle	PZ



### TK SENTINET BILGE CLEANER

Emulsifying degreasing concentrated detergent for bilge and engine room cleaning. Great efficiency against grease, it works even if mixed with salt-water.

Cod.	Pack	UM
5732001	1 Lt Bottle	PZ
5732005	5 Lt Can	PZ



### TK SENTINET BILGE CLEANER

Biodegradable non-flammable degreaser and cleaner ideal for cleaning and degreasing bilges, engines and hulls. Removes dirt, oil, diesel and greases. Used pure or diluted according to dirt strength.

Cod.	Pack	UM
5732420	1 Lt Bottle	PZ



### TK SENTINET BILGE CLEANER

Professional emulsion action bilge cleaner that acts also in salt water. Formulated to attack and dissolve dirt on bilges, special powered for fats and oily residues.

Cod.	Pack	UM
5732950	1 Lt Bottle	PZ
5732951	4 Lt Can	PZ



### STAR BRITE INSTANT HULL CLEANER

- Does not contain harmful acids, safe and easy to use
- Quickly removes streaks and stains from water line and from sides
- Excellent for use on fiberglass, metal and painted surfaces



Cod.	Pack	UM
5731501	1 Lt Bottle	PZ
5731503	3,80 Lt Can	PZ

### STAR BRITE 100% SEA SAFE HULL CLEANER

- Removes stains and streaks from waterlines and from hull
- Dissolves dirt with no rubbing required
- Environmentally friendly and 100% biodegradable, does not contain dangerous acids and is easy and safe to use



Cod.	Pack	UM
5731502	1 Lt Bottle	PZ

### STAR BRITE INSTANT HULL CLEANER

- Quickly removes black streaks caused by water run off
- Safe for use on fiberglass, metal and painted surfaces
- Will not remove wax or polish
- Can be used for many other tough cleaning jobs – bathrooms, tubs, showers, etc.



Cod.	Pack	UM
5731553	650 ml Spray Bottle	PZ
5731552	1,90 Lt Can	PZ
5731551	3,80 Lt Can	PZ

### STAR BRITE INSTANT HULL CLEANER GEL

- New Gel formula sticks where applied for maximum cleaning power
- Completely cover stains to penetrate and dissolve them
- Specifically formulated to remove the toughest stains, including rust, dried fish blood and leaf stains
- Does not contain harmful acids, safe and easy to use
- Excellent for use on fiberglass and painted surfaces



Cod.	Pack	UM
5731504	1 Lt Spray Bottle	PZ

### STAR BRITE INSTANT HULL CLEANER

- Removes deposits on boat bottoms, scum line and rust stains quickly and easily
- Water based, environmentally friendly, biodegradable formula
- Special patented buffering process makes this product safer than other acid based bottom cleaners



Cod.	Pack	UM
5731560	1 Lt Spray Bottle	PZ
5731568	3,80 Lt Can	PZ

### STAR BRITE 100% SEA SAFE BOTTOM CLEANER

- Loosens and removes marine deposits even limestone and tough stains
- Very powerful yet 100% biodegradable formula
- Safe for use on fiberglass and painted surfaces
- Also great at removing rust stains
- Unique biodegradable bottle helps reduce landfill overcrowding



Cod.	Pack	UM
5731561	1 Lt Bottle	PZ

### STAR BRITE DESCALING ENGINE FLUSH

- Removes scales from all marine engines
- Allows engines to run cooler and more efficiently
- Will not damage engine seals, gaskets or impellers



Cod.	Pack	UM
5704600	3,80 Lt Can	PZ

### TK DCR STRONG DESCALER

Specific detergent for descaling surfaces in contact with salt water, specially from keels and stern drives.



Cod.	Pack	UM
5732401	1 Lt Bottle	PZ
5732405	5 Lt Can	PZ

### STAR BRITE INFLATABLE & FENDER CLEANER / PROTECTOR

- Heavy duty formula that removes dirt, grime, streaks and stains
- Safe for use on all rubber and vinyl surfaces of any inflatable or fender
- Leaves a tough protective coating
- Protects against sun's harmful UV rays



Cod.	Pack	UM
5731554	500 ml Bottle	PZ

### STAR BRITE INFLATABLE PTEF CLEANER / PROTECTOR

- Penetrates into stain to dissolve it, removes salt deposits
- PTEF polymers bond to treated surface to help repel dirt and UV damage
- Specifically formulated for use on Hypalon, PVC, fiberglass, rubber and plastic



Cod.	Pack	UM
5731574	1 Lt Spray Bottle	PZ

### IOSSO INFLATABLE RAFT CLEANER & DETERGENT

Extra-performant professional product to clean inflatables. Quickly removes any type of stain from flexible or hard plastics (Hypalon, PVC tubulars). Dissolves tar, inks and suntan creams. Spray on a surface to clean with dried cloth. Does not require rinsing.



Cod.	Pack	UM
5732440	750 ml Spray Bottle	PZ

### IOSSO INFLATABLE RAFT LUX PROTECTOR

Iosso Raft Lux self-polishing elastic protector for Rubber or PVC inflatables. Easy to apply, it dries fast and it lasts long. Leaves a protective coat with anti-slip effect which prevents time fading and UV damages restoring on all surfaces a brilliant gloss. It doesn't affect colours, it doesn't make thickness and it makes barrier against dirt. The surface must be cleaned and dried, then apply and leave to dry.



Cod.	Pack	UM
5732948	750 ml Spray Bottle	PZ

### EM GOMMOSTRIP INFLATABLE CLEANER RENEWER

Renews, cleans and restores the original color of the inflatables aged by the sun, smog and salt. Suitable for all types of rubber. Spray on rubber and, after few minutes, brush and rinse.



Cod.	Pack	UM
5732428	750 ml Spray Bottle	PZ
5732429	5 Lt Can	PZ

### EM GOMMOWAX INFLATABLE RESTORE WAX

Restoring, cleaning and protecting wax for any type of rubber boats. Makes the inflatable soft and long time protected, restores the original look of the wearied rubber.



Cod.	Pack	UM
5732432	500 ml Spray Bottle	PZ

### TK DEKAP INFLATABLE DETERGENT

Pickling detergent to deeply clean inflatable boats and tenders. Thanks to its high detergent and degreasing power it rapidly removes dirt and marks renewing original colour.



Cod.	Pack	UM
5733002	1 Lt Spray Bottle	PZ

### TK SLIDE INFLATABLE PROTECTOR

Especially formulated product to protect inflatable boats keeping the synthetic canvas elastic and waterproof. Protects and makes slippery submerged inflatables surfaces, windsurf tables and boats in general. Used also on diving suits to give them long life and wearability.



Cod.	Pack	UM
5733001	1 Lt Spray Bottle	PZ

### STAR BRITE VINYL BRITE PROTECTOR

- Protects and moisturizes vinyl, rubber and plastic surfaces
- Keeps new vinyl looking good; adds shine to old vinyl
- Spray on, wipe up excess; ideal for car interiors & tires, too
- UV inhibitors screen out sun's damaging rays
- Helps prevent vinyl from cracking, fading and discoloring

Cod.	Pack	UM
5731523	473 ml Spray Bottle	PZ



### STAR BRITE VINYL CLEANER & POLISH

- A revolutionary formula that restores vinyl unlike any other polish or protectant
- Ideal for renewing old and faded vinyl
- Leaves a long lasting, waterproof protective coating
- Keeps vinyl soft and supple, prevents drying out and cracking
- UV protection shields against sun's harmful rays

Cod.	Pack	UM
5731522	500 ml Bottle	PZ



### STAR BRITE INSTANT HULL CLEANER

- Quickly removes dirt, stains and grease
- Excellent for all interior and exterior vinyl
- Use on vinyl-coated canvas, chairs, cushions and foul weather gear
- Won't streak, stain or discolor vinyl
- Biodegradable concentrated formula

Cod.	Pack	UM
5731521	500 ml Bottle	PZ



### STAR BRITE PLASTIC RESTORER

- Restores hazy or yellowed clear plastic enclosures.
- Removes stains, salt deposits and renews damaged plastic.
- Easy to use, just wipe on stains and then polish.

Cod.	Pack	UM
5731520	250 ml Bottle	PZ



### STAR BRITE PLASTIC POLISH

- Restores shine and clarity to Acrylic, Polycarbonate and most other types of plastic surfaces.
- Adds UV protection to all clear plastic surfaces.
- Easy to use, just apply and polish

Cod.	Pack	UM
5731524	237 ml Bottle	PZ



### STAR BRITE MARINE RAIN VIEW CLEANER

- Used on glass, improves wet weather visibility through windshield and windows
- Makes surface so slick that rain and wet weather deposits literally slide off
- Works with or without windshield wipers

Cod.	Pack	UM
5731555	250 ml Bottle	PZ



### STAR BRITE PTFE SCREEN CLEANER & PROTECTANT

- Formulated for use on all displays, screens and touch-screens
- Wipes out and prevents fingerprints, smudges and salt deposits
- With PTFE polymers that protect against UV rays
- Ideal for use also on sunglasses, smartphones and tablets



Cod.	Pack	UM
5731527	250 ml Spray Bottle	PZ

### STAR BRITE VIEW GUARD TREATMENT

- Repels spray and rain to enhance wet weather visibility of clear plastic enclosures and removes grime, salt and dirt.
- Gently cleans clear plastic surfaces.
- Cleans and provides UV protection for all clear plastic surfaces.



Cod.	Pack	UM
5731526	650ml Spray Bottle	PZ

### STAR BRITE SAIL & CANVAS CLEANER

- Concentrated biodegradable formula
- Removes dirt, grease and mildew stains
- Great for boat covers, bimini tops and sails
- Does not weaken fabric or thread
- Also cleans nylon or dacron sails

Cod.	Pack	UM
5732310	500 ml Bottle	PZ

Star brite



### STAR BRITE SPRAY PTFE FABRIC CLEANER

- Removes dirt and stains from fabrics, boat covers, sail covers, bimini tops, tarps and t-tops
- PTFE polymers bond to treated fabric to help repel dirt and UV damage
- Keeps covers looking beautiful all year long

Cod.	Pack	UM
5732312	1 Lt Spray Bottle	PZ

Star brite



### STAR BRITE SAIL & CANVAS CLEANER

- Removes oil, grease, pet stains, odors
- Safe for all types of carpet
- Does not leave carpet sticky or matted - helps repel future staining
- Simple and easy to use - just spray on and wipe off
- Biodegradable

Cod.	Pack	UM
5731558	650 ml Spray Bottle	PZ

Star brite



### STAR BRITE RUST STAIN REMOVER

- Easy to use spray
- Removes rust drip stains and sprinkler rust deposits
- No rubbing or scrubbing required
- Safe for use on fiberglass, metal and painted surfaces

Cod.	Pack	UM
5731557	650 ml Spray Bottle	PZ
5731577	3,80 Lt Can	PZ

Star brite



### STAR BRITE SPRAY RUST EATER & CONVERTER

- Chemically designed to remove rust and oxidation without harming the original metal
- Converts rust to stable, solid form
- Makes excellent base coat for painting metal
- A special buffering process makes this acid product safe to use
- Biodegradable

Cod.	Pack	UM
5731562	650 ml Spray Bottle	PZ

Star brite



### STAR BRITE ALUMINUM CLEANER

- Formulated to clean streaks from waterline, algae and stains from Aluminum boats and pontoons
- Removes oxidation stains, dirt and limestone deposits
- Renews opaque Aluminum without scrub

Cod.	Pack	UM
5731549	1,89 Lt Spray Can	PZ

Star brite



### STAR BRITE SAIL & CANVAS CLEANER

- Cleans, shines and protects Aluminum and Stainless Steel surfaces.
- Special polymers provide a protective barrier against damaging UV rays, salt, corrosion and dirt.
- Ideal for use on towers, T-tops, railings, wakeboard towers and all other polished metal surfaces.

Cod.	Pack	UM
5731548	650 ml Spray Bottle	PZ

Star brite



### EM FERROTONE DESCALER DETERGENT

Descaler, desalinizer and deoxidizer detergent. Specific for hull rust stains removal, Stainless Steel and Chromed surfaces polishing. Excellent descaler for engines cooling circuit.

Cod.	Pack	UM
5732410	1 Lt Bottle	PZ
5732414	5 Lt Can	PZ

EM



### EM INOXTONE STAINLESS STEEL RENEWER

Stainless Steel renewer that cleans, removes rust, polishes and protects. Easily removes rust spots and prevents subsequent formation. It does not damage the fiberglass or other materials. Acid-free, can be used on any metal.

Cod.	Pack	UM
5732425	500 ml Bottle	PZ
5732426	1 Lt Bottle	PZ

EM



STAR BRITE FIBERGLASS COLOR RESTORER

- Restores original colour and shine
- Easy to use
- Removes hard oxidation, rust traces and fading
- Seals all surfaces to protect them against bad weather fading
- Does not damage or scratch gelcoat
- Excellent on dark or shine colour boats



Cod.	Pack	UM
5731601	500 ml Bottle	PZ

STAR BRITE PREMIUM MARINE POLISH

- The ultimate protection for fiberglass, metal and painted surfaces
- UV inhibitors help stop fading and oxidation
- For medium to heavy oxidation, use Premium Cleaner Wax
- Leaves a super smooth, non-stick PTEF® coating which reduces drag and repels dirt, grime, oil and stains



Cod.	Pack	UM
5731603	500 ml Bottle	PZ
5731604	1 Lt Bottle	PZ

STAR BRITE BOAT WAX

- Easy to use presoftened wax formula
- Provides a deep, rich shine
- Long lasting protection against fading, chalking, oxidation and UV rays
- Use on fiberglass, aluminum, chrome, and on painted surfaces
- Shines and protects in one easy step
- May be applied in direct sunlight



Cod.	Package	UM
5732910	400 g Vase	PZ

STAR BRITE CHROME & STAINLESS POLISH

- Cleans and shines chrome and stainless steel surfaces
- Protects against pitting, discoloration, staining and/or rusting
- Easy to use, it applies and removes with clean cloth
- Resists salt and water spray
- Bonds to metal for long lasting protection
- Leaves a dazzling shine



Cod.	Pack	UM
5732913	237 ml Bottle	PZ

STAR BRITE MARINE POLISH

- Keeps your boat looking like new
- Removes scratches, swirl marks, chalk and oxidation
- Helps stop fading caused by UV rays
- Lasts up to 4 times longer than other polishes or waxes



ired



Cod.	Pack	UM
5731525	500 ml Bottle	PZ

STAR BRITE PREMIUM CLEANER WAX

- Cleans, shines and protects in one step
- Quick and easy to use
- Removes oxidation and chalk while leaving a durable coat of PTEF® polymers
- Specially formulated for fiberglass, metals and painted surfaces
- UV inhibitors help prevent fading and oxidation



Cod.	Pack	UM
5731547	500 ml Bottle	PZ
5731556	1 Lt Bottle	PZ

STAR BRITE BOAT GUARD SPRAY WAX

- The fast, easy way to add shine and enhance color
- PTEF® polymers provide a barrier against UV rays
- Safe for use on fiberglass, metal and painted surfaces
- Restores shine to rubrails
- Gently removes dirt and grime



Cod.	Pack	UM
5731563	650 ml Spray Bottle	PZ

STAR BRITE PTEF ALUMINUM POLISH

- Formulated to restore stained or dull Aluminum
- PTEF Polymers provide UV protection and repel stains
- Long lasting protection keeps Aluminum shine



Cod.	Pack	UM
5731546	500 ml Bottle	PZ

### STAR BRITE SAIL & CANVAS CLEANER

Protective cleaning non abrasive polishing cream Iosso  
Fiberglass & Metal Restorer.  
Suitable for any metal: Stainless Steel, Brass, Chromed  
Bronze. Also restores colour and protects faded fiberglass  
for a long time.



IOSSO

Cod.	Pack	UM
5732940	50 ml Tube	PZ
5732941	250 ml Can	PZ

### IOSSO QUICK GLOSS K1 POLISHING PASTE

Lightly abrasive cream to clean and to polish hard or  
transparent surfaces as gelcoat, varnished metals, acrylics  
and fiberglass. Removes surface fading and oxidation and  
leaves a longlasting brilliant protective coating.



IOSSO

Cod.	Pack	UM
5732943	500 ml Vase	PZ

### IOSSO METAL POLISH SPRAY

Iosso powerful metal polish and universal descaler for  
hard surfaces as Stainless Steel, Brass, Chromed Brass,  
Plastics, Glass, showers and baths.  
Removes quickly any build-up as rust or tough dirt.



IOSSO

Cod.	Pack	UM
5732946	750 ml Spray Bottle	PZ

### TK DELUXE POLISH

Professional micro-abrasives based polish for varnishes and  
gelcoats giving a higher degree of gloss. Eliminates micro-scratches  
and signs of polishing with coarse paste, do not leave marks,  
do not bleaches plastic and rubber, very good also on windows.



Cod.	Pack	UM
5732901	1 Lt Bottle	PZ



### TK LINAS STRONG ABRASIVE PASTE

Performance eco-friendly water based extra-strong abrasive paste.  
Ideal for polishing surfaces treated with gelcoat, synthetic varnishes  
and metallic parts. Indicated also to polish fiberglass dies.



Cod.	Pack	UM
5733005	1 Lt Bottle	PZ
5733105	750 ml Vase	PZ



### STAR BRITE WATERPROOFING

- Safe and suitable waterproofing for all fabrics
- For boat covers, bimini tops, sail covers, clothing  
and tents
- Does not change the color or feel of fabric



Cod.	Pack	UM
5730224	650 ml Spray Bottle	PZ
5730226	3,80 Lt Can	PZ

### STAR BRITE 100% SEA SAFE WATERPROOFING

- 100% ecologic and biodegradable water-based formula  
that restores water repellency to marine fabrics, boat  
covers and bimini tops
- Ideal for use on foul weather gear, tents, tarps and other  
outdoor gear, will not dry out fabric or affect its  
"breathability"
- Unique biodegradable bottle helps to reduce landfill  
overcrowding



Cod.	Pack	UM
5730225	650 ml Spray Bottle	PZ

### STAR BRITE 100% SEA SAFE WATERPROOFING

Nano technologic waterproofing super hydrofobic sealant  
coating. It penetrates molecular structure of treated surface  
and creates an UNPENETRABLE barrier against water,  
greases and lubricants. Stain and UV rays protective effect.  
Perfect for waterproofing treatment of natural or synthetic  
canvas of biminis, sails, linings and shoes and for Teak or  
other woods restoring treatment.

- Barrier against water and oils
- Anti-Stain
- Anti-Corrosion
- Anti-Humidity
- UV Rays protection
- No-Skid and No-Ice
- Yield 100ml/mq



Cod.	Pack	UM
5730150	500 ml Spray Bottle	PZ

### STAR BRITE NO DAMP DEHUMIDIFIER

- Dries air to level that prevents musty odors
- Basket design increases efficiency and life of unit
- Special pellet formula absorbs maximum airborne moisture
- 340 Grams of dehumidifier treats 25 m3.

Cod.	Ref	Refills	UM
5730616	No Damp Ultra Dome + 680 g Refill		PZ
5730619	No Damp + 340 g Refill		PZ
5730620	No Damp + 1 Kg Refill		PZ
5730635		340 g	PZ
5730638		4 x 340 g	CF

Starbrite



### TORR-BALL THE ORIGINAL DEHUMIDIFIER

Torr-Ball creates a damp free environment, eliminating rust, corrosion, mild, grime and musty odours. It doesn't need expensive installations or energy consumption. Starts working as soon as its crystals are in contact with dampness and works for 3 months without upkeep. The pack contains inner basket and 500 g crystalline refill.

Cod.	Ref	Refills	UM
5730515	TorrBall + Ricarica 500 g		CF
5730545		500 g	PZ
5730511		1 Kg	PZ
5730541		4 Kg	PZ



### STAR BRITE MILDEW REMOVER

- Removes quickly mildew stains
- Simple spray provides amazing results in few minutes after application
- Suitable for any space, headliners, vinyl covers, cushions, etc.
- Safe for all surfaces, does not weaken fabric or thread

Cod.	Ref	UM
5730325	650 ml Spray Bottle	PZ
5730328	3,80 Lt Can	PZ

Starbrite



### STAR BRITE SALT-OFF PROTECTOR

- Removes salt deposits from all boat and engine surfaces
- Leaves a protective PTEF® coating to prevent future salt damage

Cod.	Ref	UM
5732214	650 ml Spray Bottle	PZ

Starbrite



### STAR BRITE BIRD & SPIDER

- Quickly dissolves messy spider and bird droppings.
- Non-toxic, contains no bleach, safe for use around kids and pets.
- Will not remove polish or wax.

Cod.	Pack	UM
5731566	650 ml Spray Bottle	PZ

Starbrite



### STAR BRITE SPIDER AWAY

- Chase away spiders without harming them and keeps them away from boat.
- Safe for use around pets and children.
- Suitable also for homes, garages and gardens.

Cod.	Pack	UM
5731565	650 ml Spray Bottle	PZ

Starbrite



### FOAM FREE DETERGENT

Foam-free dish hand washing detergent. Environment friendly, does not waste rinsing water and does not block sewage tank.

Cod.	Pack	Case Pack	UM
5731205	1 Lt Bottle	12 pcs	PZ

Flow



### BODYSHAMPOO I.O.R.

Shower gel that can be used with salt water. Based on Dead Sea salt and chlorophyll to obtain a cleansing and deodorizing effect. As result skin becomes smooth and refreshed. Ideal for hair which regains tone and softness.

Cod.	Pack	UM
5731002	250 ml Bottle	PZ

NUBIAN



**TEAK WONDER CLEANER & DETERGENT**

Teak deck deep cleaner detergent. Non aggressive, does not damage paint or other surfaces. To be used prior to the impregnation with Teak Wonder Oil.

Cod.	Pack	UM
5735301	4 Lt Bottle	PZ

**TEAK WONDER BRIGHTENER**

Teak color restorer and brightener.

Restores Teak its typical golden shade bringing out wood granes.

Non aggressive, does not damage other surfaces or paints.

To be used prior to the impregnation with Teak Wonder Oil.

Cod.	Pack	UM
5735302	4 Lt Bottle	PZ

**TEAK WONDER COMBO PAK**

Detergent and brightener pack that allows to always have the right products handy for the next impregnation with Teak Wonder Oil.

Cod.	Products	Pack	UM
5735305	Cleaner + Brightener	2 x 1 Lt Bottle	CF

**STAR BRITE TEAK CLEANER**

- Cleans Teak and other fine woods
- Removes stains and weather traces
- Does not raise wood grain
- Safe, easy to use formula
- No need to sand after cleaning
- Does not contain acid – no neutralizers needed
- Use as the first step in the restoration of grey, weathered Teak

Cod.	Pack	UM
5735214	500 ml Bottle	PZ
5735215	1 Lt Bottle	PZ
5735216	3,8 Lt Can	PZ

**STAR BRITE TEAK BRIGHTENER**

- Brightens Teak and other fine woods
- Highlights wood grain and enhances warm natural colour
- Easy to use - just apply and rinse
- No rubbing or scrubbing required
- Use as the second step in the restoration of grey weathered Teak

Cod.	Pack	UM
5735224	500 ml Bottle	PZ
5735225	1 Lt Bottle	PZ
5735226	3,8 Lt Can	PZ



### TEAK WONDER OIL

Traditional Teak oil that maintains the original Teak look without daily washings. This silicone based product seals wood pores preventing dust and dirt to penetrate, furthermore provides protection from UV rays. Chemical odor free, it doesn't get glossy, slippery or sticky and it doesn't become darker in time.



Cod.	Pack	UM
5735303	1 Lt Can	PZ
5735304	4 Lt Can	PZ

### STAR BRITE TEAK OIL

- Long lasting formula
- Protects from ultraviolet rays
- Seals and protects teak and other fine woods
- Fast drying
- Penetrates deep for a maximum protection



Cod.	Pack	UM
5735201	500 ml Bottle	PZ
5735202	1 Lt Can	PZ
5735203	3,8 Lt Can	PZ

### STAR BRITE PREMIUM GOLDEN TEAK OIL

- Extra long lasting protection for Teak
- Gives teak a natural warm golden colour
- Easy to use, fast drying
- Protects from ultraviolet rays
- Advanced Tung oil polymer formula
- #1 rated Teak oil in independent testing
- Lasts 6 times longer than standard Teak oils



Cod.	Pack	UM
5735204	500 ml Bottle	PZ
5735205	1 Lt Can	PZ
5735206	3,8 Lt Can	PZ

### STAR BRITE TROPICAL TEAK OIL

- Tropical Teak oil sealer that will outlast any other oil or sealer
- No drip, no splash formula
- Protects from ultraviolet rays
- Long-lasting, penetrates deep for a complete protection
- Only one coat required



Cod.	Pack	UM
5735231	500 ml Bottle	PZ
5735232	1 Lt Can	PZ
5735233	3,8 Lt Can	PZ

### STAR BRITE TROPICAL TEAK OIL NATURAL

- Natural colour tropical Teak oil
- Sealer that will outlast any other Teak oil or sealer
- No drip, no splash formula
- Protects from ultraviolet rays
- Long-lasting, penetrates deep for a complete protection
- Only one coat required



Cod.	Pack	UM
5735236	500 ml Bottle	PZ
5735237	1 Lt Can	PZ
5735238	3,8 Lt Can	PZ

TEAK CLEANER / TEAK BRIGHTENER

These leave the deck looking like 'new'. Applying the two products contained in each bottle one after the other washes away the grey colour that has accumulated in the wood only to rediscover the splendid golden colour that new or just sanded teak possesses. All in a few minutes and without removing millimetres of precious wood from the deck, as occurs during sanding. Neither of these two liquids is aggressive or caustic and therefore does not damage rubber, paint or stainless steel fittings.



Code	Product	Size
TKW CB04	Cleaner	1 Gallon bottle
TKW CB06	Brightener	1 Gallon bottle

DRESSING AND SEALER


Will keep the splendid golden appearance without having to wash teak every day with fresh water. Applying this silicon based product seals the pores of the wood thus preventing the penetration of the dust and dirt that darken it, and also protects the natural teak oils against the ultraviolet rays that oxidise and discolour them. The dressing also prevents liquids such as diesel oil, fish blood, and paints from penetrating the wood, making subsequent cleaning easier.



Code	Size
TKW DS02	1 Gallon can
TKW DS02Q	1 Quart can

TEAK SEALER

Long lasting natural looking protection. Lasts through the season and can be renewed without deep cleaning or stripping for years! Repels water without being slippery. Relieves the drudgery of constant teak maintenance. Known the world over as the best protection for teak. Available in 5 shades.

	Code	Colour	Size
	SMC GNS	Teak Sealer Natural	1 Gal – 4 lt.
	SMC QNS	Teak Sealer Natural	1 Quart – 1 lt.



TEAK CLEANER STEP 1

TEAK MINUS is biodegradable, phosphate free chemical, with no free alkalis or acid in the formula. TEAK MINUS is a water dilute able concentrate used to emulsify/breakdown dirt, grease, oils grime and other pollutants that accumulate in teak (or beech) wood.



Code	Size
KIN MINUS5	5 LT
KIN MINUS10	10 LT

TEAK BRIGHTENER STEP 2

TEAK PLUS is biodegradable acidic chemical product formulated for use in the marine industry. TEAK PLUS is a water dilute able concentrate which cleans, neutralizes and restores the bright natural luster to teak wood surfaces and trim. TEAK PLUS is applied after the teak has been cleaned with its companion TEAK MINUS.



Code	Size
KIN PLUS5	5 LT
KIN PLUS10	10 LT

SNAPPY TEAK - NU CLEANER



SNAPPY TEAK - NU BRIGHTENER



Restoring neglected, weathered teak is not a fun project. It usually involves hours of sanding while you're on all fours wishing you were somewhere else. Snappy Teak Nu has a better idea. The Teak Nu two-step, Formula 1 and Formula 2 chemical process removes gray mildew stains, oil, fuel and fish blood stains without softening deck seams. Teak treated with Teak Nu has the warm golden glow of freshly sanded wood without the hours of sanding.

Code	Size
SNP 19962A	1 Gallon

Code	Size
SNP 19962B	1 Gallon

TEAK CLEANER / TEAK BRIGHTENER

These leave the deck looking like 'new'. Applying the two products contained in each bottle one after the other washes away the grey colour that has accumulated in the wood only to rediscover the splendid golden colour that new or just sanded teak possesses. All in a few minutes and without removing millimetres of precious wood from the deck, as occurs during sanding. Neither of these two liquids is aggressive or caustic and therefore does not damage rubber, paint or stainless steel fittings.



Code	Product	Size
TKW CB04	Cleaner	1 Gallon bottle
TKW CB06	Brightener	1 Gallon bottle

DRESSING AND SEALER

Will keep the splendid golden appearance without having to wash teak every day with fresh water. Applying this silicon based product seals the pores of the wood thus preventing the penetration of the dust and dirt that darken it, and also protects the natural teak oils against the ultraviolet rays that oxidise and discolour them. The dressing also prevents liquids such as diesel oil, fish blood, and paints from penetrating the wood, making subsequent cleaning easier.



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Code	Size
SNP 19962A	1 Gallon

Code	Size
SNP 19962B	1 Gallon

## CLEANING AND MAINTENANCE

Code	Product
UNI 571430	COLDWASH HD 25 LTR
UNI 571455	COLDWASH HD 210 LTR
UNI 571380	ENVIROCLEAN 25 LTR
UNI 571398	ENVIROCLEAN 210 LTR
UNI 571497	CLEANBREAK 25 LTR
UNI 571562	SEACARE OSD 25 LTR
UNI 571570	SEACARE OSD 210 LTR
UNI 571554	FORE AND AFT 25 LTR
UNI 571588	AIR COOLER CLEANER 25 LTR
UNI 571604	CARBON REMOVER 25 LTR
UNI 769653	SEACARE ECOSPERSE 52 25 LTR
UNI 571646	DESCALEX 25 KG
UNI 571653	DESCALING LIQUID 25 LTR
UNI 571661	METAL BRITE 25 LTR
UNI 571687	DISCLEAN 25 LTR
UNI 571729	HP WASH 25 LTR
UNI 571745	UNIWASH 25 LTR
UNI 571752	NATURAL HANDCLEANER 4X5 LTR
UNI 575506	PENETRON PLUS 12 X 0.5 LTR
UNI 575613	AQUABREAK PX 25 LTR
UNI 575696	CARBONCLEAN LT 25 LTR
UNI 607819	UNITOR USC 12 X 1 LTR
UNI 607826	AQUATUFF 25 LTR
UNI 614537	FOAM - AGENT 3X5 LTR
UNI 623983	REEFER CLEANER 20 LTR BIB
UNI 661827	REEFER CLEANER 25 LTR
UNI 758623	TEAK RENEWER 20 KG
UNI 661843	DEFOAMER CONCENTR. 25 LTR
UNI 624314	DEFOAMER CONCENTR. 20 LTR BIB
UNI 624932	COMMISSIONING CLEANER 25 LTR
UNI 659409	CARPET CLEANER 12X1 LTR
UNI 690669	BILGEWATER FLOCCULANT 25 LTR
UNI 698704	ACC PLUS 25 LTR
UNI 765990	DECK CLEAN NP 25 LTR
UNI 770727	UNITOR ULTRACIP 25 LTR
UNI 777708	MULTI CLEAN 25 LTR
UNI 604389	ELECTROSOLV - E 25 LTR
UNI 571406	SEACLEAN 25 LTR
UNI 635326	MUD & SILT REMOVER 25 LTR

## GAMAZYME CLEANERS

Code	Product
UNI 571711	GAMAZYME 700FN 12KG
UNI 587055	GAMAZYME DPC 4.0 KG
UNI 587618	GAMAZYME MSC 12X1 LTR
UNI 589945	GAMAZYME BTC 12 X 1 LTR
UNI 624015	GAMAZYME DIGESTOR 20 LTR BIB
UNI 624077	GAMAZYME BOE 20 LTR BIB
UNI 624619	GAMAZYME BOE 12X1 LTR
UNI 659391	GAMAZYME FC 4X5LTR
UNI 743146	GAMAZYME TDS 5 KG BLUE SACH W/MINT
UNI 743153	GAMAZYME BUB 3 KG
UNI 743179	GAMAZYME BUB 1KG
UNI 743161	GAMAZYME BUB 1,8KG



## TANK CLEANING

Code	Product
MM UNI 654723	SEACLEAN PLUS 210 LTR
MM UNI 571513	ALKLEEN SAFETY LIQ 25 LTR
MM UNI 571521	ALKLEEN SAFETY LIQ 210 LTR
MM UNI 756254	ALKLEEN LIQUID 25 LTR
MM UNI 756255	ALKLEEN LIQUID 210 LTR
MM UNI 661801	ZINC COAT CONDITIONER 25 LTR
MM UNI 654715	SEACLEAN PLUS 25 LTR
MM UNI 736975	UNIPOL 25 LTR
MM UNI 736983	UNIPOL 210 LTR
MM UNI 571489	TANKLEEN ADVANCE 210 LTR
MM UNI 766097	TANKLEEN BRIGHT 190 LTR

UNITOR



DECK MAINTENANCE

K2 COMPACT  
PRESSURE WASHER



Code	KAR 16731500
Pressure (bar/MPa)	20 - Max. 110 / 2 - Max. 11
Flow rate l/h	Max. 360
Max. inlet temperature (°C)	Max. 40
Power rating (kW)	1,4
Weight without accessories (kg)	4
Measures (L x W x H) (mm)	280 x 156 x 443

K2  
PRESSURE WASHER



Code	KAR 16372200
Pressure (bar/MPa)	20 - Max. 110 / 2 - Max. 11
Flow rate l/h	Max. 360
Max. inlet temperature (°C)	Max. 40
Power rating (kW)	1,4
Weight without accessories (kg)	4,8
Measures (L x W x H) (mm)	280 x 242 x 783

K4  
PRESSURE WASHER



Code	KAR 11801500
Pressure (bar/MPa)	20 - Max. 130 / 2 - Max. 13
Flow rate l/h	Max. 460
Max. inlet temperature (°C)	Max. 40
Power rating (kW)	1,8
Weight without accessories (kg)	11,8
Measures (L x W x H) (mm)	300 x 394 x 876

K5 COMPACT  
PRESSURE WASHER



Code	KAR 16307200
Pressure (bar/MPa)	20 - Max. 145 / 2 - Max. 14,5
Flow rate l/h	Max. 500
Max. inlet temperature (°C)	Max. 40
Power rating (kW)	2,1
Weight without accessories (kg)	11,5
Measures (L x W x H) (mm)	516 x 295 x 282

K5  
PRESSURE WASHER



Code	KAR 11806330
Pressure (bar/MPa)	20 - Max. 145 / 2 - Max. 14,5
Flow rate l/h	Max. 500
Max. inlet temperature (°C)	Max. 40
Power rating (kW)	2,1
Weight without accessories (kg)	13,3
Measures (L x W x H) (mm)	349 x 427 x 867

K7 PREMIUM  
PRESSURE WASHER



Code	KAR 11687200
Pressure (bar/MPa)	20 - Max. 160 / 2 - Max. 16
Flow rate l/h	Max. 550
Max. inlet temperature (°C)	Max. 60
Power rating (kW)	2,5
Weight without accessories (kg)	20
Measures (L x W x H) (mm)	404 x 461 x 968



## MV 2 WET&DRY CLEANER


**KÄRCHER**

Code	KAR 16297610
Cable length (m)	4
Nominal accessory size (mm)	35
Max. power rating (W)	1200
Container capacity / material	12
Voltage (V)	220 - 240
Weight (kg)	4,5
Measures (L x W x H) (mm)	390 x 340 x 505

## MV 3 WET&DRY CLEANER


**KÄRCHER**

Code	KAR 162968010
Cable length (m)	4
Nominal accessory size (mm)	35
Max. power rating (W)	1400
Container capacity / material	17
Voltage (V)	220 - 240
Weight (kg)	5,5
Measures (L x W x H) (mm)	388 x 340 x 503

## MV 3 PREMIUM WET&DRY CLEANER


**KÄRCHER**

Code	KAR 16298410
Cable length (m)	4
Nominal accessory size (mm)	35
Max. power rating (W)	1400
Container capacity / material	17
Voltage (V)	220 - 240
Weight (kg)	5,8
Measures (L x W x H) (mm)	388 x 340 x 525

## MV 4 WET&DRY CLEANER


**KÄRCHER**

Code	KAR 13481110
Cable length (m)	5
Nominal accessory size (mm)	35
Max. power rating (W)	1600
Container capacity / material	20
Voltage (V)	220 - 240
Weight (kg)	7,1
Measures (L x W x H) (mm)	384 x 365 x 526

## MV 5 WET&DRY CLEANER


**KÄRCHER**

Code	KAR 13481910
Cable length (m)	5
Nominal accessory size (mm)	35
Max. power rating (W)	1800
Container capacity / material	25
Voltage (V)	220 - 240
Weight (kg)	8,2
Measures (L x W x H) (mm)	418 x 382 x 652

## MV 6 PREMIUM WET&DRY CLEANER


**KÄRCHER**

Code	KAR 13482710
Cable length (m)	6
Nominal accessory size (mm)	35
Max. power rating (W)	2000
Container capacity / material	30
Voltage (V)	220 - 240
Weight (kg)	9,1
Measures (L x W x H) (mm)	418 x 382 x 694



BDS 33/180 C  
Single-disc scrubber driers



Code	KAR 12912200
Working width (mm)	330
Working height (mm)	90
Motor rating (W)	700
Brush rotation speed (rpm)	180
Sound level (db(A))	63
Frequency Hz	50
Voltage (V)	220-240
Weight (kg)	31
Dimensions (L x W x H) (mm)	500 x 356 x 1180

ACCESSORIES FOR BDS 33/180 C

	Pad Driver Plate 330 mm Code: KAR 63698940
	Pad 330 mm Red Code: KAR 63699050
	Pad 330 mm Green Code: KAR 63699060
	Pad 330 mm Black Code: KAR 63699070

BDS 43/DUO C ADV  
Single-disc scrubber driers



Code	KAR 12912230
Working width (mm)	430
Working height (mm)	90
Motor rating (W)	1400
Brush rotation speed (rpm)	150-300
Sound level (db(A))	63
Frequency Hz	50
Voltage (V)	220-240
Weight (kg)	47
Dimensions (L x W x H) (mm)	660 x 430 x 1180

ACCESSORIES FOR BDS 43/DUO C

	Pad Driver Plate 430 mm Code: KAR 63698990
	Pad 430 mm Red Code: KAR 63694700
	Pad 430 mm Green Code: KAR 63694720
	Pad 430 mm Black Code: KAR 63694730



Premium Adjustable Spray Nozzle



Threaded Tap Connector  
For 16.7 mm (G 3/8) taps with  
21 mm (G 1/2) threads.



Threaded Tap Connector  
For 21 mm (G 1/2) taps with  
26.5 mm (G 3/4) threads.



Threaded Tap Connector  
For 26.5 mm (G 3/4) taps with  
33.3 mm (G 1) threads.



Premium Metal Spray Gun Nozzle



Water Stop  
For 13 mm (1/2") hoses.



Water Stop  
For 19 mm (3/4") and 16 mm  
(5/8") hoses.



Quick Connector  
For 13 mm (1/2") hoses.



Quick Hose Connector  
For 19 mm (3/4") and 16 mm  
(5/8") hoses.



Profi Maxi-Flow System  
Multi-Purpose Spray Lance



Threaded Hose Connector  
With 26.5 mm (G 3/4) male  
thread.



Accessory Adapter  
For European 26.5 mm (G 3/4)  
female thread.



Extension Joint. For hose  
extensions or changing from 19  
mm (3/4") to 13 mm (1/2") hoses.



Hose Repairer  
For 13 mm (1/2") hoses.



Premium 3-Pattern Garden Hose  
Watering Wand



Hose Repairer  
For 19 mm (3/4") and 16 mm  
(5/8") hoses.



3-way Y Coupling. Divides your  
water source in two, for adapting  
19 mm (3/4") to 13 mm (1/2") hoses.



Twin-Tap Connector. For 21 mm  
(G 1/2) taps with 26.5 mm (G 3/4)  
threads. 2 fully adjustable outlets.



Twin-Tap Connector. For 26.5 mm  
(G 3/4) taps with 33.3 mm (G 1)  
threads. 2 fully adjustable outlets.



Classic Adjustable Spray Gun  
Nozzle with Flow Control



Hose Connector with Control Valve  
For 13 mm (1/2") hoses.



Hose Connector with Control Valve  
For 19 mm (3/4") and for 16 mm  
(5/8") hoses.



Coupling with Flow-control Valve



Regulator Valve



Classic Adjustable Spray Gun  
Nozzle



Bubble-Jet Adapter



Universal Adapter  
13.2 mm (G 1/4) thread.



Comfort Adjustable Spray Nozzle  
Plus



Comfort Spray Gun Nozzle



Comfort Adjustable Multi-Purpose  
Spray Gun with flow control



Classic Adjustable Multifunctional  
Sprayer with Flow Control + Hose  
Connector 915



Soaker Hose  
Connection Set  
Complete fittings for inlet and  
outlet ends of the soaker hose:  
connection unit with control  
valve and water stop.



Classic Dual Pattern Hanging Basket  
Watering Garden Spray Wand



Professional  
Wall Mount  
Swivel  
Automatic  
Retractable  
Hose Reel.



Classic Fine Spray Lance  
Length 75cm

SPARE ROLLERS

High quality professional Perlon White rollers with Yellow line. Fur height 12 mm. Ideal for paints and enamels, solvent resistant.  
High quality professional Moltoprene sponge White rollers. Extra thin porosity (no Nitro!).  
High quality professional Velour Ecrù rollers. Ideal for all enamels (Nitro also).  
Microfiber White rollers for fluid or less dense varnishes. High soaking power.  
Roller's handles 5, 10 and 15 cm.



Cod.	Material	Colour	Width cm	Pcs	Handle	UM
5790050	Perlon	White-Yellow Line	5	20		PZ
5790051	Perlon	White-Yellow Line	10	10		PZ
5790052	Moltoprene Sponge	White	5	20		PZ
5790053	Moltoprene Sponge	White	10	10		PZ
5790054	Velour	Ecrù	5	20		PZ
5790055	Velour	Ecrù	10	10		PZ
5790057	Microfiber	White	5	20		PZ
5790058	Microfiber	White	10	10		PZ
5790070					For 5 cm Rolls (12 Pcs)	PZ
5790071					For 10 cm Rolls (12 Pcs)	PZ
5790072					For 15 cm Rolls (12 Pcs)	PZ



GRADUATED PLASTIC TRAYS

Graduated Plastic trays.

Cod.	Size	Dimensions cm	UM
5790081	Small	20 x 23	PZ
5790082	Medium	25 x 33	PZ



PLASTIC NET

Plastic net.

Cod.	Width cm	UM
5790077	10	PZ
5790078	20	PZ
5790079	25	PZ



LIGHT TELESCOPIC HANDLE

Light Aluminum telescopic handle complete with roller holder cone.

Cod.	L m	UM
5790073	2	PZ
5790074	3	PZ



GRADUATED PLASTIC TRAYS

Reinforced Plastic and Stainless Steel powerful suction cup handle perfect as hull holder, as hold point or as flat objects transport tool.  
Lifting power 40 Kg for each suction cup.

Cod.	Ref	Dim mm	UM
5709500	Single	12 x 12 x H9	PZ
5709501	Double	12 x 22 x H7	PZ



SPATULA WITH HANDLE

Steel spatula with Wooden handle.  
12 Pieces set.

Cod	Blade Width mm	Pcs	UM
5790085	20	12	PZ
5790086	40	12	PZ
5790087	60	12	PZ
5790088	80	12	PZ
5790089	100	12	PZ



SCRAPER WITH HANDLE

Tempered Steel blade scraper with Wooden handle.

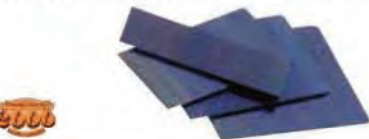
Cod.	Blade Width mm	UM
5790090	70	PZ



"MILANO" SPATULA

Blue Steel "Milano" type spatulas.  
12 Pieces set.

Cod.	Blade Width mm	Pcs	UM
5790091	20	12	PZ
5790092	30	12	PZ
5790093	40	12	PZ
5790094	50	12	PZ
5790095	60	12	PZ
5790096	80	12	PZ
5790097	100	12	PZ
5790098	120	12	PZ



CAN OPENER SPATULA

Tempered Galvanized Steel blade with handle.

Cod.	UM
5790084	PZ



METAL BRUSH

Curved brush with Brass-plated bristles and Plastic handle.

Cod.	UM
5790075	PZ



### WR-C SANDPAPER ROLLS

Extra-flexible resinated Corindon sandpaper rolls.  
Ideal for crude wood, varnishes, plastic etc.  
Can be used also wet.

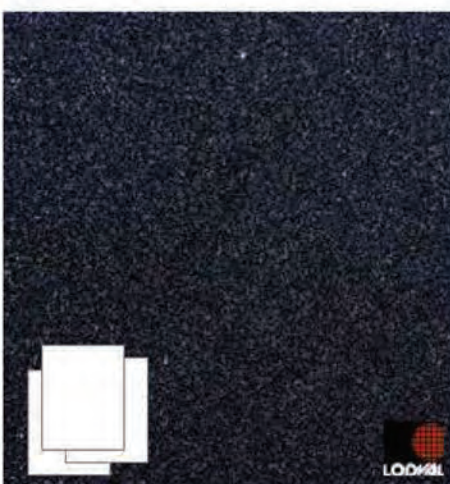
Cod.	H mm x L m	Grain	UM
5790111	115 x 5	P80	PZ
5790112	115 x 5	P100	PZ
5790113	115 x 5	P120	PZ
5790114	115 x 5	P150	PZ
5790115	115 x 5	P180	PZ
5790116	115 x 5	P220	PZ
5790117	115 x 5	P240	PZ
5790118	115 x 5	P320	PZ
5790119	115 x 5	P400	PZ
5790102	115 x 50	P80	MT
5790103	115 x 50	P100	MT
5790104	115 x 50	P120	MT
5790105	115 x 50	P150	MT
5790106	115 x 50	P180	MT
5790107	115 x 50	P220	MT
5790108	115 x 50	P240	MT
5790109	115 x 50	P320	MT
5790110	115 x 50	P400	MT



### CS-C SANDPAPER SHEETS

Silicon Carbide waterproof sandpaper sold in sheets.  
Ideal for wet or dry finishes.

Cod.	Dimensions mm	Grain	Pcs	UM
5790152	230 x 280	P100	10	PZ
5790153	230 x 280	P120	10	PZ
5790154	230 x 280	P150	10	PZ
5790155	230 x 280	P180	10	PZ
5790156	230 x 280	P220	10	PZ
5790157	230 x 280	P240	10	PZ
5790158	230 x 280	P280	10	PZ
5790159	230 x 280	P320	10	PZ
5790160	230 x 280	P400	10	PZ
5790161	230 x 280	P600	10	PZ
5790162	230 x 280	P1000	10	PZ



### AH-E SANDPAPER VELCRO DISKS

Antistatic paper ceramic Corindon velcro discs with hole.  
Ideal for crude wood, leather, plastic and metals finishing.

Cod.	Dimensions mm	Grain	Pcs	UM
5790120	125	P40	25	PZ
5790121	125	P60	25	PZ
5790122	125	P80	25	PZ
5790123	125	P100	25	PZ
5790124	125	P120	25	PZ
5790125	125	P180	25	PZ
5790135	150	P40	25	PZ
5790136	150	P60	25	PZ
5790137	150	P80	25	PZ
5790138	150	P100	25	PZ
5790139	150	P120	25	PZ
5790140	150	P150	25	PZ
5790141	150	P180	25	PZ
5790142	150	P220	25	PZ



### MET FIBRED DISCS

Aluminum oxide abrasive fibred discs. Perfect for finishing, deflashing and antirust treatments of metals.

Cod.	Diameter mm	Hole mm	Grain	Pcs	UM
5790175	115	22	P16	25	PZ
5790176	115	22	P24	25	PZ
5790177	115	22	P36	25	PZ
5790178	115	22	P40	25	PZ
5790179	115	22	P60	25	PZ
5790181	115	22	P100	25	PZ



### SCOTCH BRITE SB ABRASIVE SHEETS

Synthetic fibre abrasive sheets bonded with resin to the abrasive pad. Excellent for finishing and polishing of wooden surfaces, steel and metals.

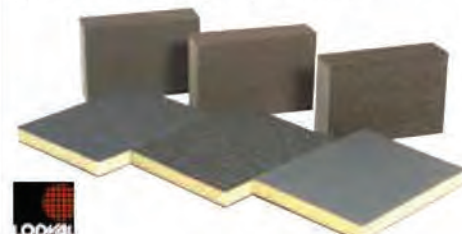
Cod.	Colour	Dim mm	Grain	Pcs	UM
5790170	RED	115 x 280	AVF-P320	10	PZ
5790171	GREEN	115 x 280	GP	10	PZ
5790172	GRAY	115 x 280	SUF-P1000	10	PZ



### SAF ENGLISH ABRASIVE SPONGES

Synthetic sponge abrasive block bonded with a special resin to the abrasive pad. Used to remove paint, salt, rust and grease from wood and metals.

Cod.	Dimensions mm	Grain	Pcs	UM
5790185	90 x 70 x 25	F (P100)	10	PZ
5790186	90 x 70 x 25	M (P60)	10	PZ
5790187	90 x 70 x 25	G (P36)	10	PZ
5790192	100 x 125 x 12,5	F (P100)	10	PZ
5790193	100 x 125 x 12,5	M (P60)	10	PZ
5790194	100 x 125 x 12,5	G (P36)	10	PZ



### RIGID ABRASIVE DISCS

Reinforced rigid abrasive discs for cutting and grinding.  
Use for metal and Stainless Steel.

Cod.	Ref	Dia x Thickness mm	UM
5790220	for Cutting	115 x 1,6	PZ
5790221	for Cutting	125 x 1,6	PZ
5790230	for Grinding	115 x 3,2	PZ
5790231	for Grinding	125 x 3,2	PZ



### ABRASIVE DISCS BACKING

Abrasive discs backing support.

Velcro discs: ø125 / 8 holes or ø150 / 6 holes backing with velcro and through screw.  
Fibred discs: 22 mm hole flexible Nylon or M14 hole reinforced Nylon backing.

Cod.	Ref	Diameter mm	Hole	UM
5790200	for Velcro Discs	125	Flat 5/16"	PZ
5790201	for Velcro Discs	150	Flat 5/16"	PZ
5790210	for Fibred Discs	115	22 mm	PZ
5790211	for Fibred Discs	115	M14	PZ



## GRADUATED PLASTIC PAINT POTS



Code	Size
CCC 08824	400 ml
CCC 08825	550 ml
CCC 08826	1300 ml

## MIXING STICKS TONGUE DEPRESSOR TYP

Wooden Paint Mixing Stick  
• 15x1,8 cm

Code: VZK 441142



## TACK CLOTH

- Remove dust, anti-static cloth 78x46 cm
- Leave surfaces smooth and free from residue
- Used on any surface for all paint applications
- 5 pieces/pack

Code: CCC 00430



## MASKING TAPE



Code	Description
3M 2090A	3M Scotch Blue Painter's Tape 19mm x 50mt
3M 2090B	3M Scotch Blue Painter's Tape 25mm x 50mt
3M 2090D	3M Scotch Blue Painter's Tape 38mm x 50mt
3M 2090E	3M Scotch Blue Painter's Tape 50mm x 50mt



## 3M™ 245 HOOK IT™ ABRASIVES

High performance, heavy duty aluminium oxide green paper discs and sheets. All discs and sheets have hook and loop type fastening and can be attached and re-attached as many times as necessary.

Applications: initial and intermediate sanding.  
Materials: wood, metal, paints, fillers, plastics.



Ø 150 mm discs - plain

Code	Grit Grade	Unit/Box
3M 01649	P40	50
3M 01648	P60	50
3M 01647	P80	50
3M 01646	P100	50
3M 01645	P120	50

Ø 150 mm discs - 6 holes LD 600 A

Code	Grit Grade	Unit/Box
3M 01691	P40	50
3M 01690	P60	50
3M 01689	P80	50
3M 01688	P100	50
3M 01687	P120	50

Ø 203 mm discs - 8 holes LD 800 C

Code	Grit Grade	Unit/Box
3M 00696	P40	25
3M 00695	P60	25
3M 00694	P80	25
3M 00693	P100	25

Ø 150 mm discs - 9 holes LD 801 A

Code	Grit Grade	Unit/Box
3M 00317	P40	50
3M 00316	P60	50
3M 00315	P80	50
3M 00314	P100	50
3M 00313	P120	50

Ø 150 mm discs with liner - 15 holes LD 861 A

Code	Grit Grade	Unit/Box
3M CV27750	P40	50
3M CV27746	P60	50
3M CV27739	P80	50
3M CV30431	P100	50
3M CV30474	P120	50

115 mm x 25 m rolls

Code	Grit Grade	Unit/Box
3M 61083	P40	6
3M 61082	P60	2
3M 61081	P80	2
3M 61080	P100	2

75 mm x 25 m rolls

Code	Grit Grade	Unit/Box
3M 61125	P40	4
3M 61124	P60	4
3M 61123	P80	4

70 x 419 mm sheets with holes LS 707 D

Code	Grit Grade	Unit/Box
3M 03255	P40	50
3M 03254	P60	50
3M 03253	P80	50

81 x 153 mm sheets with holes LS 404 C

Code	Grit Grade	Unit/Box
3M 03343	P40	50
3M 03342	P60	50
3M 03341	P80	50

115 x 225 mm sheets with holes LS 505 D

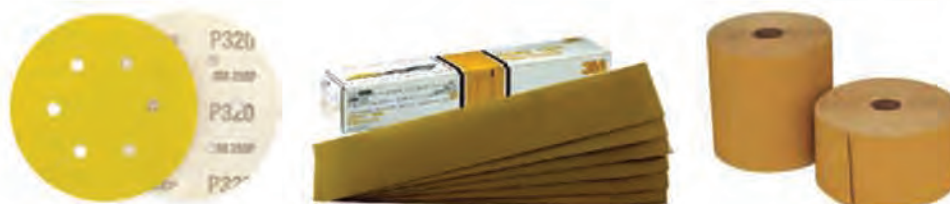
Code	Grit Grade	Unit/Box
3M 03249	P40	50
3M 03248	P60	50
3M 03247	P80	50

**3M™ 255P HOOKIT™ ABRASIVES**

Abrasive gold discs and sheets constructed of a highperformance aluminum oxide mineral strongly bonded to a C paper backing. Hook-and-loop attachment system for easy placement on and removal from the tool face.

Application: intermediate and final sanding of furniture parts, varnished surfaces, kitchen countertops, plastic parts.

Material: lacquered hard and soft wood, paints, plastics, metal, solid surface materials.



Ø 150 mm discs - plain

Code	Grit Grade	Unit/Box
3M 63354	P80	100
3M 63355	P100	100
3M 63356	P120	100
3M 63357	P150	100
3M 63358	P180	100
3M 63359	P220	100
3M 63360	P240	100
3M 63361	P280	100
3M 63362	P320	100
3M 63363	P360	100
3M 63364	P400	100
3M 63365	P500	100
3M 64889	P800	100
3M 64890	P1000	100
3M 64891	P1200	100

Ø 150 mm discs - 6 holes LD 600 A

Code	Grit Grade	Unit/Box
3M 63329	P80	100
3M 63330	P100	100
3M 63331	P120	100
3M 63332	P150	100
3M 63333	P180	100
3M 63334	P220	100
3M 63335	P240	100
3M 63336	P280	100
3M 63337	P320	100
3M 63338	P360	100
3M 63339	P400	100
3M 63340	P500	100
3M 63341	P600	100

Ø 203 mm discs - 8 holes LD 800 C

Code	Grit Grade	Unit/Box
3M 00174	P80	50
3M 00173	P100	50
3M 00172	P120	50
3M 00171	P150	50
3M 00170	P180	50
3M 00169	P220	50
3M 00168	P240	50
3M 00167	P280	50
3M 00166	P320	50
3M 00165	P360	50
3M 00164	P400	50

Ø 150 mm discs - 9 holes LD 801 A

Code	Grit Grade	Unit/Box
3M 00536	P80	100
3M 00535	P100	100
3M 00534	P120	100
3M 00533	P150	100
3M 00532	P180	100
3M 00531	P220	100
3M 00530	P240	100
3M 00529	P280	100
3M 00528	P320	100
3M 00527	P360	100
3M 00526	P400	100
3M 00525	P500	100

Ø 150 mm dischi - 15 holes LD 861 A


Code	Grit Grade	Unit/Box
3M 50443	P80	100
3M 50444	P100	100
3M 50445	P120	100
3M 50446	P150	100
3M 50447	P180	100
3M 50448	P220	100
3M 50449	P240	100
3M 50450	P280	100
3M 50451	P320	100
3M 50452	P360	100
3M 50453	P400	100
3M 50454	P500	100
3M 62946	P600	100
3M 64885	P800	100
3M 64884	P1000	100
3M 64883	P1200	100

70 x 127 mm sheets - plain

Code	Grit Grade	Unit/Box
3M 03555	P80	50
3M 03554	P100	50
3M 03553	P120	50
3M 03552	P150	50
3M 03551	P180	50
3M 03550	P220	50
3M 03549	P240	50
3M 03548	P280	50
3M 03547	P320	50
3M 03545	P400	50

**3M™ HOOKIT™ HAND BLOCKS**

Made of a sturdy, durable high-strength material to fit the hand comfortably.

Code	Size	
3M 05740	70 x 127 mm	
3M 05741	70 x 198 mm	

**3M™ HOOKIT™ SOFT HAND BLOCKS**

Block is made of a tough, flexible foam for block sanding flat and contoured areas.

Code	Size	
3M 05742	70 x 127 mm	

**3M™ HOOKIT™ HAND FILE BOARD**

A well balanced, durable shop tool, that is resistant to most solvents. The sturdy design provides a non-twisting flat sanding surface.

Code	Size	
3M 05740	70 x 127 mm	
3M 05741	70 x 198 mm	

**3M™ HOOKIT™ SOFT HAND BLOCKS**

Block is made of a tough, flexible foam for block sanding flat and contoured areas.

Code	Size	
3M 05742	70 x 127 mm	

**3M™ SANDING BLOCK**

A pliable rubber block which holds the sandpaper securely during wet or dry sanding operations

Code	Size	
3M 05519	70 x 125 mm	

**3M™ HOOKIT™ HAND FILE BOARD**

A well balanced, durable shop tool, that is resistant to most solvents. The sturdy design provides a non-twisting flat sanding surface.

Code	Size	
3M 88044	115 x 3,65 mm	

**3M™ DRY GUIDE COAT**

Cartridge containing dry powder and applicator used to highlight surface imperfections and sand scratches prior to finishing with abrasives. Can be used on marine fillers, primers, paints and gelcoats. Contains no solvents.


Code	Description	
3M 09560	Cartridge	
3M 09561	Applicator + handblock	

**3M™ 241UZ ABRASIVE ROLLS**

High performance abrasives in the widely used .Dry. version. Supplied in the convenient roll size to be cut and used by hand or clipped to tools as well as to selfmade boards.

**3M™ 255P ABRASIVE ROLLS**

A well balanced, durable shop tool, that is resistant to most solvents. The sturdy design provides a non-twisting flat sanding surface.

115 mm x 50 m			
Code	Grit Grade	Unit/Box	
3M 04494	P40	2	
3M 04493	P60	2	
3M 04400	P80	2	
3M 04399	P100	2	
3M 04388	P120	2	
3M 04398	P150	2	
3M 04397	P180	2	
3M 04396	P220	2	
3M 04395	P240	2	
3M 04514	P280	2	
3M 04533	P320	2	
3M 04545	P400	2	

118 mm x 50 m

Code	Grit Grade	Unit/Box
3M CV95293	P40	2
3M CV95295	P50	4
3M CV95305	P60	2
3M CV95312	P80	2
3M CV95317	P100	2
3M CV95339	P120	2
3M CV95380	P150	2
3M CV95397	P180	2
3M CV95401	P220	2
3M CV95410	P240	2
3M CV95413	P280	2
3M CV95445	P400	2

**3M™ 622 ABRASIVE PAPER SHEET**

Sharp silicon carbide mineral gives an aggressive cut with a fine finish. Colour: light gray. Recommended for working on doors, painted surfaces, kitchen tops, plastic parts.



230 x 280 mm

Code	Grit Grade	Unit/Box
3M 02340	P80	50
3M 02339	P100	50
3M 02338	P120	50
3M 02337	P150	50
3M 02336	P180	50
3M 02335	P220	50
3M 02334	P240	50
3M 02333	P280	50
3M 02332	P320	50
3M 02331	P360	50
3M 02330	P400	50



### 3M™ 618 FRE-CUT DRY ABRASIVE PAPER SHEET

Sharp silicon mineral gives an aggressive cut with a fine finish.

Applications: hand sanding of furniture, ornaments, frames, fillers; finishing paints, lacquers, wood and plastics.

Materials: Lacquers, plastics, primer coats, fillers.



230 x 280 mm

Code	Grit Grade	Unit/Box
3M 02631	P80	50
3M 02565	P100	50
3M 02564	P120	50
3M 02563	P150	50
3M 02562	P180	50
3M 02561	P220	50
3M 02560	P240	50
3M 02559	P280	50
3M 02558	P320	50
3M 02556	P400	50
3M 02636	P500	50

### 3M™ 230U ABRASIVE PAPER SHEET

Abrasive sheets ideal for removing paints and for hand sanding operations on wood. High-performance anti-loading abrasive, flexible, high durability.



230 x 280 mm

Code	Grit Grade	Unit/Box
3M 03663	P40	50
3M 03662	P60	50
3M 03661	P80	50

### 3M™ 401Q PAPER SHEET

3M™ Perfect-It™ Microfine Abrasive.

This improved wetordry product is constructed from a silicon carbide mineral, better bonding system and more flexible backing. These features will provide faster cut, longer life, more consistent finish, which will reduce sanding and buffing time.



138 x 230 mm

Code	Grit Grade	Unit/Box
3M 09545	P1500	50
3M 09546	P2000	50

### 3M™ 734 WETORDRY™ ABRASIVE PAPER SHEET

734 Wetordry utilizes a premium silicon carbide mineral, an improved paper backing and an optimized construction (closed coat product bonded with a waterproof resin) that results in the following performances: improved rate of cut, increased abrasive life, increased flexibility and uniform, consistent finish. For total wet flattening.



230 x 280 mm

Code	Grit Grade	Unit/Box
3M 02023	P60	50
3M 02022	P80	50
3M 02021	P100	50
3M 02020	P120	50
3M 02019	P150	50
3M 02018	P180	50
3M 02015	P220	50
3M 02014	P240	50
3M 02013	P280	50
3M 02012	P320	50
3M 02011	P360	50
3M 02010	P400	50
3M 02009	P500	50
3M 02008	P600	50
3M 02007	P800	50
3M 02006	P1000	50
3M 02005	P1200	50

### 3M™ 314 WETORDRY™ ABRASIVE PAPER SHEET

Made of aluminium oxide mineral for a superior finish. Suitable to remove paint imperfections.



230 x 280 mm

Code	Grit Grade	Unit/Box
3M 02090	P150	50
3M 02089	P180	50
3M 02071	P220	50
3M 02070	P240	50
3M 02069	P280	50
3M 02068	P320	50
3M 02067	P360	50
3M 02066	P400	50
3M 02065	P500	50
3M 02064	P600	50
3M 02063	P800	50
3M 02062	P1000	50
3M 02061	P1200	50

3M™ PERFECT-IT™ III COMPOUNDING PAD – GREEN

This pad works hard to deliver an aggressive cutting action that removes scratches and swirl marks from both refinished and original paintwork. It is highly recommended for use with a machine polisher and 3M Perfect-It™ III Fast Cut Plus Compound 50417.



2-pad pack.

Code	Size
3M 50487	. 150 mm

3M™ PERFECT-IT™ POLISHING PAD – YELL OW

This pad has been designed to remove light scratches, swirl marks and defects from both refinished and original paintwork. For the most desirable results, it is recommended for use with a machine polisher and 3M Perfect-It™ III Extra Fine Compound 80349.



2-pad pack.

Code	Size
3M 50488	. 150 mm

3M™ PERFECT-IT™ ULTRAFINA SE HIGH GLOSS PAD - BLUE

This high gloss pad is ideal for final polishing and is recommended for use with 3M Perfect-It™ III Ultrafina SE Polish 50383. It takes the hard work out of polishing to ensure a swirl- and hologram-free result.



2-pad pack.

Code	Size
3M 50388	. 150 mm

3M™ PERFECT-IT™ III EXTRA FINE PLUS COMPOUND

This cutting compound is the ideal solution for removing medium swirl marks, defects and light scratches prior to final polishing. Less aggressive than other compounds in the range, it is incredibly easy to use.

Yellow cap.



Code	Size
3M 80349	. 1 kg

3M™ PERFECT-IT™ III FAST CUT PLUS COMPOUND

This fast-acting and high performance liquid abrasive removes sanding scratches from both refinished and original paintwork for a good-as-new finish.

Green cap.



Code	Size
3M 50417	1 Kg

3M™ PERFECT-IT™ III ULTRA FINA SE POLISH

It creates a perfect finish and enviable shine. This product can deliver the ultimate high gloss finish.



Code	Size
3M 50383	. 1 kg

3M™ FINESSE-IT™ FINISHING LIQUID

The Finesse-It Finishing Liquid is designed for use on topside paint systems and gelcoat to remove swirl marks after compounding, while leaving a glazed finish. Also suggested as a final step in acrylic plastic reconditioning



Code	Size
3M 09639	1 Lt

3M™ MARINE FINESSE-IT™ II FINISHING MATERIAL

Finesse-it II Finishing Material is designed for use on topside paint systems and gelcoat to remove swirl marks after compounding, while leaving a glazed finish. This finishing liquid is the final finishing step.



Code	Size
3M 09048	0,473 Lt

### 3M™ SUPERBUFF™ 2 PLUS 2 BUFFING PAD

It is made of blended untwisted wool with a stiffer center hub for more cutting power. It is double-sided and is less aggressive than 100% wool. Fits all standard (5/8" shaft) slow-speed polishers.



Code	Size
3M 05704	Ø 203 mm

### 3M™ 734 WETORDRY™ ABRASIVE PAPER SHEET

This uniquely constructed compounding/polishing pad system provides quick change advantages while producing exceptional finishes on gelcoat and paint systems. It is designed to provide easy attachment and removal and accurate centering of the Hookit SBS Compounding or Polishing Pad to the Hookit SBS Backup Pad. Fits all standard (5/8" shaft) slow-speed polishers.



Code	Size
3M 05711	Ø 203 mm, white
3M 05713	Ø 203 mm, yellow
3M 01927	Ø 133 mm, white

### 3M™ HOOK IT™ SBS™ BACK-UP PAD

A rigid, foam backed velcro back-up pad specially designed for use with the SBS Compounding and Polishing heads.

14 mm thread



Code	Size
3M 05717M	Ø 178 mm

### 3M™ FINESSE-IT™ BUFFING PAD

It is a moderately aggressive, gray foam pad with a convoluted buffing surface designed to be used in conjunction with 3M™ Finesse-it™ polishes specially developed to achieve satin, semi-gloss or high gloss finishes on wood, automotive, marine, and aerospace coatings.



Code	Size
3M 09358	Ø 125 mm, white

### 3M™ SUPERBUFF™ ADAPTERS

-05710: adapter used to secure double-sided 3M buffing pads.  
-05512: adapter to assemble the superbuff pad on polishing machine



Code	Size
3M 05710	5/8" screw thread
3M 05512	14 mm screw thread

### 3M™ PERFECT-IT™ COMPOUNDING AND POLISHING PADS

Single-sided foam compounding and polishing pad with reduced diameter Hookit™ attachment backing for added edge protection. Fit 5/8 inch shaft slow-speed polishers.



Code	Size
3M 05737	Ø 203 mm, white, medium
3M 05738	Ø 203 mm, black, soft
3M 50172	Ø 203 mm, orange, coarse

### 3M™ PERFECT-IT™ III COMPOUNDING AND POLISHING PADS

-09550: compounding pads for paint rectification in small to medium sized areas. Suitable for use on all paints surfaces. For optimum high gloss and hologram removal.  
-09378: high gloss polishing pads. Very mild cutting action.

2-pad pack.



Code	Size
3M 09550	Ø 150 mm, orange
3M 09378	Ø 150 mm, black

### 3M™ FINESSE-IT™ BACK-UP PAD

A nylon plate is bonded to a thick layer of foam that provides excellent impact resistance and durability no matter the job. High level of flexibility, which means that even moving between flat and contoured surfaces is simple and quick.

14mm thread.



Code	Size
3M 09552	Ø 125 mm

### 3M™ MARINE FIBER GLASS RESTORER AND WAX

Tested on Marine paints as well.  
Designed to remove medium oxidation, chalking, fading, minor scratches, rust and exhaust stains; plus provide protection on fiberglass/gelcoat.



Code	Size
3M 09005	500 ml
3M 09006	1 Lt

### 3M™ MARINE FIBERGLASS CLEANER AND WAX

Light rubbing compound combined with a special blend of waxes.  
Designed to clean and protect lightly oxidized fiberglass/gelcoat and marine topside paints, in one easy step.



Code	Size
3M 09010	1 Lt

### 3M™ MARINE CLEAR PLASTIC RESTORER

Safely cleans and removes fine scratches and haziness from most marine plastics. Can be used on most tinted plastics. For best results on polycarbonate plastic use by machin



Code	Size
3M 09044	250 ml

### 3M™ MARINE VINYL CONDITIONER AND PROTECTOR

Designed to clean, condition and protect marine vinyl and rubber components. Unique gel formula provides durable protection in exterior, as well as interior applications. Gel formula gives you better application control than liquids.



Code	Size
3M 09023	236 ml

### 3M™ MARINE ULTRA PERFORMANCE PASTE WAX

Unique, concentrated formula contains carnauba and other waxes. Provides a durable, high gloss finish on fiberglass gelcoat, metal and painted surfaces.

Protects against UV rays.



Code	Size
3M 09030	250 gr

### 3M™ SCOTCH-BRITE™ HIGH PERFORMANCE CLOTH

It provides ultra cleaning power because of its knitted, interwoven design of water-and-oil-absorbing microfibers that lift and trap liquids, grease, dust and dirt particles. When used dry or damp, it's excellent for the removal of grease and silicone, dust residue, abrasive residue, splatter from welding, compounds, polish residues, waxes and fingerprints.

Colours: blue, yellow, green, pink.



Code	Size	Unit/Pack
3M 2010	32 x 36 cm	5 cloths

### 3M™ DOODLEBUG™ SWIVEL PAD HOLDER

High quality swivel pad holder for use in floor edge cleaning operations in conjunction with Doodlebug™ pads. Rectangular base with hooks offering efficient grip of the pads, as well as easy removal. The pad holder also incorporates a universal pole holder.



Code	Size
3M 6474	95 x 225 cm

### 3M™ DOODLEBUG™ CLEANING SYSTEM

White pad: designed for delicate surfaces and light cleaning jobs. Great for windows, ceramic tile, etc.  
Blue pad: designed for medium duty cleaning jobs.  
Brown pad: a heavy duty pad designed for tough cleaning and stripping jobs.



Code	Size	Unit/Pack
3M 8440	254 x 114 mm	white 5
3M 8242	254 x 114 mm	blue 5
3M 8541	254 x 114 mm	brown 5

### 3M™ SCOTCH-BRITE™ EASY ERASER PAD

These pads can quickly and easily clean crayon, pen, scuff marks or hard water stains. Removes stains, soap scum & hard water spots without chemicals! 2 disposable cleaning pads/package.



Code	Size
3M 20606	132 x 71 x 30 mm

### 3M™ SCOTCH-BRITE™ SCRUBS

White: ultra delicate surface cleaning pad. For low scratch cleaning of glass, aluminium, stainless steel, and any other sanitary surface.  
Blue: a thick, powerful pad, ideal for the heavy duty scouring of pots and pans. It quickly and effectively removes encrustations.  
Green: extra thick general purpose scouring pad.  
Typical applications: pots and pans, cooking utensils, kitchen equipment, fixtures and fittings, floors.

Code	Size	Unit/Pack
3M SB350	158 x 90 x 20	white 6
3M SB450	158 x 90 x 20	blue 6
3M SB550	158 x 90 x 20	green 6



### 3M™ TWIST-LOK™ PAD HOLDER

Specially designed for use with Scotch-Brite™ hand pads to make clean up jobs faster, easier, and safer. Distributes pressure evenly over pad surface for efficient cleaning action and Improved pad life.

Code	Size
3M 961	120 x 88 x 63 cm



### 3M™ STAINLESS STEEL CLEANER AND POLISH

Easy-to-apply cleaner and polish is ideal for stainless steel, chrome, laminated plastics and aluminum surfaces. With a high-gloss formula, it wipes clean with no streaks or build-up, resists fingerprints and masks surface blemishes. Pleasant lime fragrance. Contains no petroleum distillates.

Code	Size
3M 14002	609 gr



### 3M™ GENERAL PURPOSE ADHESIVE CLEANER

A specially blended solvent that provides easy cleanup of most types of adhesives. It quickly removes waxes, greases, oil and tars. When properly used, it will not harm thoroughly dried paint, vinyl or fabrics.

Code	Size
3M 08984	1 Lt



### 3M™ GLASS CLEANER

It is an easy to use, quick acting, nonstreaking aerosol glass cleaner. Excellent for cleaning glass; this product is also effective for use on plastic, chrome or metal.

Code	Size
3M 08631	500 ml/249 gr



### 3M™ GLASS CLEANER

Heavy duty spray cleaner/degreaser that works effectively on difficult to remove substances such as many dried, non-curing adhesives, tape residues, grease, oils and dirt. The cleaner is based on a citrus oil and does not contain chlorinated compounds or petroleum distillate solvents. The cleaner emulsifies when flushed with water.

Code	Size
3M 50098	500 ml spray



### 3M™ VHB™ ACRYLIC FOAM TAPE 4915F CLEAR

Ideal for bonding transparent materials or for applications where a coloured bond line is unacceptable.



Code	Size
3M 4915F-12	12 mm x 25 mt x 1,5 mm
MM 3M 4915F-19	19 mm x 25 mt x 1,5 mm

### 3M™ SCOTCH-WELD™ SPRAY 90

This adhesive gives fast, high contact bond strength. Variable width spray pattern, precise spray control. High temperature resistance. Applications: decorative laminate bonding to tables, cabinets, shelving. Adheres to polyethylene, polypropylene, wood, metal and many other materials.

Code	Size
3M SPRAY90	500 ml



3M™ SCOTCHMATE™ AND DUAL LOCK™ MINI PACKS

They offer advanced closure alternatives to zippers, screws, snaps, hooks, bolts and more. They are often better than conventional closure methods because they offer greater design flexibility, faster product assembly, smoother and cleaner exterior surfaces and improved product performance.

Dual Lock™ rolls are 250 type: 250 stems/inch.



Code	Size
3M SJ352D	25 mm x 5 mt / 2 rolls (hook + loop), black, Scotchmate™
3M SJ355D	25 mm x 5 mt / 2 rolls SJ3550, black, Dual Lock™
3M SJ356D	25 mm x 5 mt / 2 rolls SJ3560, clear, Dual Lock™

3M™ SCOTCH® 218 FINE LINE TAPE

Polypropylene plastic film tape with rubber adhesive. Low profile and high adhesion to achieve excellent paint line. A special processed backing allows taping over freshly painted acrylic lacquer or enamel surfaces sooner and with less chance of imprint damage.



Code	Size
3M 06300	3 mm x 55 mt
3M 06301	6 mm x 55 mt
3M 06302	9 mm x 55 mt
3M 06303	12 mm x 55 mt
3M 06305	19 mm x 55 mt
3M CV45394	25 mm x 55 mt

3M™ SCOTCH® 244 MASKING TAPE

Gold coloured masking tape with a flat paper backing and synthetic adhesive, well suited for holding, bundling and paint masking, particularly where exposed to sunlight. Especially suited for applications where UV resistance and clean removal is required up to 7 days after application.



Code	Size
3M 244-19	19 mm x 50 mt
MM 3M 244-25	25 mm x 50 mt
MM 3M 244-50	50 mm x 50 mt

3M™ TAPED MASKING FILM

Pre-taped film for convenience and speed.



Code	Size
3M 05967	400 mm x 25 mt
3M 05968	600 mm x 25 mt
3M 05969	900 mm x 25 mt
3M 05970	1100 mm x 25 mt
3M 05971	1800 mm x 25 mt

3M™ SCOTCH® 244 MASKING TAPE

Conformable colored tapes made from vinyl backing with rubber adhesive. Ideal for many lane and safety markings, color coding, abrasion protection, masking, sealing, splicing and other general purpose applications.

Code	Size	Colour
3M 471Y-25	25 mm x 33 mt	yellow
3M 471Y-50	50 mm x 33 mt	yellow
3M 471W-25	25 mm x 33 mt	white
3M 471W-50	50 mm x 33 mt	white
3M 471B-19	19 mm x 33 mt	black
3M 471B-25	25 mm x 33 mt	black
3M 471B-50	50 mm x 33 mt	black
3M 471R-25	25 mm x 33 mt	red
3M 471R-50	50 mm x 33 mt	red
3M 471BL-38	38 mm x 33 mt	blue
3M 471BL-50	50 mm x 33 mt	blue



### 3M™ 8000 SERIES CLASSIC RESPIRATORS

Effective protection against fine dusts, oil and water based mists. They are equipped with the 3M™ Electret™ filter material giving more comfort to users through low breathing resistance. Their convex shape, nose clip and twin-strap design offer an excellent fit. The 8812 and 8822 are equipped with 3M™ Cool Flow™ exhalation valve that reduces heat build-up to offer comfortable protection. Tested and CE approved to EN149:2001  
20 units/pack.



Code	Type
3M 8710E	FFP1
3M 8812	FFP1, valved
3M 8810	FFP2
3M 8822	FFP2, valved

### 3M™ 4000 SERIES HALF MASKS

Designed for effective and comfortable protection against many gases, vapours and combinations of particulate hazards found throughout the Marine industry. Integrated filters. Lightweight, soft non-allergenic material with a cradle head harness and easy fasten neck strap. The large pair of carbon bonded filters offer low breathing resistance and the maintenance-free design offers maximum safety and simplicity. Peripheral vision thanks to the low profile design. Tested and CE Approved to EN 149:2001



Code	Type
3M 4251	FFA1P2
3M 4255	FFA2P3
3M 400	Protection pre-filter

### 3M™ 6000 SERIES HALF MASKS AND FULL FACE MASKS

Re-usable face masks designed for effective and comfortable protection against many gases, vapours and combinations of particulate hazards when used in combination with the relevant bayonet filters. Low maintenance masks. They have a quick and easy bayonet connection system and the twin filter design provides low breathing resistance. The 6000 Series Full Face Mask is equipped with the new patented 3M Cool Flow™ exhalation valve for easier breathing and reduced heat and moisture build-up. Half masks standard Approvals: CE EN140:1998  
Full masks standard Approvals: CE EN136:1998 (Class 1)



Code	Type
3M 6100	Half face mask - S
3M 6200	Half face mask - M
3M 6300	Half face mask - L
3M 6700	Full face mask - S
3M 6800	Full face mask - M
3M 6900	Full face mask - L

### 3M™ 6000 SERIES GAS & VAPOR FILTERS

Gas and Vapour Cartridges provide organic vapour protection and can be used with 3M 6000 Series Half and Full Face masks with 3M Bayonet connection system which ensures precise and secure locking. They are lightweight and well balanced when fitted to a mask. They also ensure an excellent field of vision as a result of the unique trapezoidal shape. 3M 6000 Series filters (except combination filters) can be used in combination with 3M 5000 Series Particulate filters.



Code	Description
3M 6051	Gas and organic vapours A1, EN 14387 CE
3M 6055	Gas and organic vapours A2, EN 14387 CE
3M 6057	Organic/inorganic vapours, acid gases ABE1, EN 14387 CE
3M 6098	Gases, vapours, particulates AXP3, EN 14387 CE
3M 6035	Solid and liquid particles P3, EN 143 CE
3M 6038	Solid and liquid particles P3, with activated carbon, EN 143 CE

### 3M™ 2000 SERIES PARTICULATE FILTERS

The 2000 Series Particulate filters provide protection against solids and non-volatile liquid particles only. Lightweight and easy to use, they are designed for applications such as grinding or sanding. They give an excellent field of vision and a low breathing resistance. Equipped with bayonet connection system which ensures precise and secure locking. Tested and approved to EN 143 CE



Code	Description
3M 2125	Dust, P2
3M 2135	Dust, P3
3M 2128	Dust, organic vapours, acid gases P2
3M 2138	Dust, organic vapours, acid gases P3

### 3M™ 5000 SERIES PARTICULATE FILTERS

The 3M 5000 Series Particulate filters can be used in combination with the 6000 Series filters except combination filters. They are snapped on to the 6000 Series filters with the 501 filter retainer. For use with 6000 Series masks and 7907S full face mask. Tested and approved to EN 143 CE



Code	Standard
3M 5911	Dust, P1
3M 5925	Dust, P2
3M 5935	Dust, P3

COVERGUARD

Temporary Protection for all types of finished surfaces including floors, walls, bulkheads, weatherdecks and furnishings. Also suitable for wrapping, covering and containment.



Code	Colour	Description	Roll Width		Roll Length		Roll Area		Roll Weight		Material Thickness	
			m	in	m	feet	m <sup>2</sup>	feet <sup>2</sup>	kilos	lbs	mil	micron
COV CG1036DP	Ocean Blue	Flame-retardant polyethylene deck plate with a non-slip diamond pattern	0.91	35.8	120	393.7	109	1173	28	61.7	10	250
COV CG1336DP			0.91	35.8	110	360.9	100	1076	33	72.8	13	330

PROP SPEED KIT

4:1 METAL ETCHING PRIMER & CATALYS

PROPSPEED CLEARCOAT



Available as 1 liter, 1/2 liter and 200ml Kit

Code: PRP KIT



Code: PRP COMBO



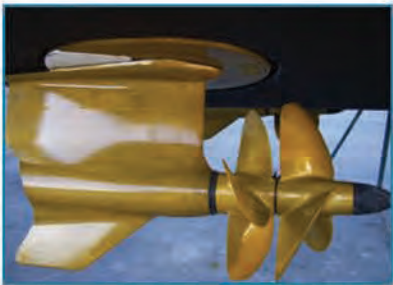
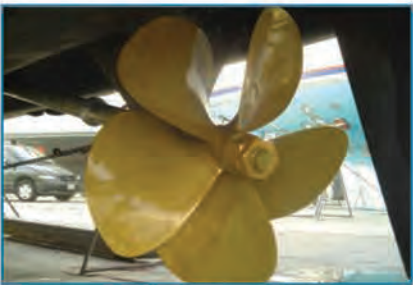
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HOW MUCH PROPSPEED DO I NEED?

To determine how much PropSpeed is needed for your application use the chart below. Once you know the size of the propeller(s), the number of blades, and running gear components to coat, select the appropriate kit.

Running Gear Components	Propeller Size and Number of Blades		
	18" - 24" 	24" - 36" 	36" - 48" 
	200 ml Kit	500 ml Kit	500 ml Kit
	200 ml Kit	500 ml Kit	1000 ml Kit
	500 ml Kit	500 ml Kit	1000 ml Kit
	500 ml Kit	1000 ml Kit	1000 ml Kit

Correct Propspeed Application



545 PRIMER  
Code: AWL D8001



**AWLGRIP**  
FINISH FIRST

545 PRIMER CONVERTER  
Code: AWL D3001



**AWLGRIP**  
FINISH FIRST

MATTERHORN WHITE  
Code: AWL G8003



**AWLGRIP**  
FINISH FIRST

AWLWASH  
Code: AWL 73234



**AWLGRIP**  
FINISH FIRST

CATALYST  
Code: AWL H3002



**AWLGRIP**  
FINISH FIRST

THINNER  
Code: AWL T0001



**AWLGRIP**  
FINISH FIRST

AWLCARE  
Code: AWL 73240



**AWLGRIP**  
FINISH FIRST

AWLSPAR  
Code: AWL M3131

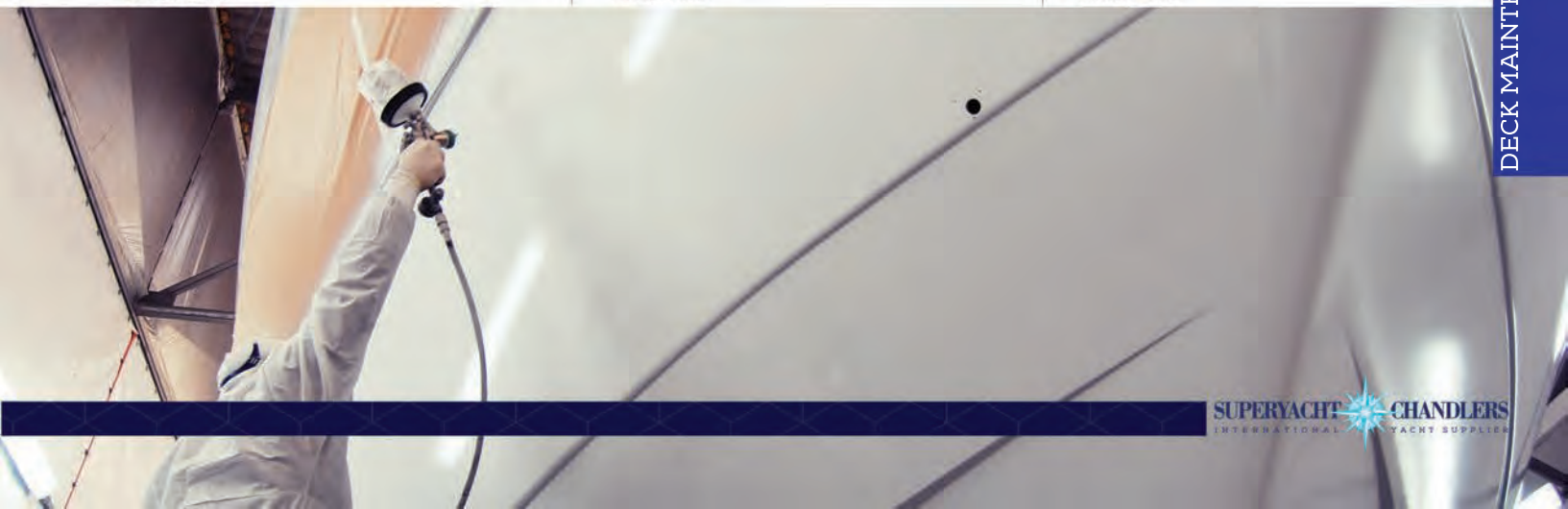


**AWLGRIP**  
FINISH FIRST

AWLBRITE ACTIVATOR/REDUCER  
Code: AWL A0031



**AWLGRIP**  
FINISH FIRST





Code	Colour	Quart	Gall.
WHITE			
AWL G8003	MATTERHORN WHITE	•	•
AWL G8010	OFF WHITE	•	•
AWL G8004	VESTAL WHITE	•	•
AWL G8009	OFF WHITE REV.	•	•
AWL G8022	INSIGNIA WHITE	•	•
AWL G8044	SNOW WHITE	•	•
AWL G8089	CLOUD WHITE	•	•
AWL G8212	BLUE TONE WHITE	•	•
AWL H8002	CREAM	•	•
AWL H8015	EGGSHELL WHITE	•	•
AWL H8086	CHEVY WHITE	•	•
AWL H8087	FLEET WHITE	•	•
AWL H8139	OYSTER WHITE	•	•
AWL H8208	STARK WHITE	•	•
GREY-BLACK			
AWL G1001	LIGHT GRAY	•	•
AWL G1007	MEDIUM GRAY	•	•
AWL G1008	PEARL GRAY	•	•
AWL G1040	GRAYSTONE	•	•
AWL G1344	DARK GRAY	•	•
AWL G1359	KINGSTON GRAY	•	•
AWL G8035	WHISPER GRAY	•	•
AWL G2002	FLAT BLACK (2:1:1 mix)	•	•
AWL G2017	SUPER JET BLACK	•	•
BLUE			
AWL G5001	NAVY BLUE	•	•
AWL G5002	FLAG BLUE	•	•
AWL G5003	ARISTO BLUE	•	•
AWL G5007	ROYAL BLUE	•	•
AWL G5011	MARLIN BLUE	•	•
AWL G5014	SKY BLUE	•	•
AWL G5041	EMPRESS BLUE	•	•
AWL H5004	ICE BLUE	•	•
AWL H5342	CARINTHIA BLUE	•	•
AWL H5346	MIDNIGHT BLUE	•	•
AWL H5409	MAJESTIC BLUE	•	•
BROWN			
AWL G6001	SABLE BROWN	•	•
AWL G6003	PRAIRIE BEIGE	•	•
AWL G6004	MOON DUST	•	•
AWL G6006	CASTLE TAN	•	•
AWL G6009	SAHARA TAN	•	•
AWL G9001	SAN MATEO WHEAT	•	•
AWL H6160	DESERT SAND	•	•
GREEN			
AWL H4024	DARK GREEN	•	•
AWL H4089	JADE MIST GREEN	•	•
AWL H4094	FOREST GREEN	•	•
AWL H4256	SEA FOAM	•	•
AWL H4302	KELLY GREEN	•	•
AWL H4365	AQUA MIST	•	•
AWL H5328	TEAL	•	•
RED-YELLOW			
AWL G7022	RED MAHOGANY	•	•
AWL G7214	SUNFAST RED	•	•
AWL G7305	CLARET	•	•
AWL G7362	INTERN ORANGE	•	•
AWL G7367	VIVID RED	•	•
AWL H7161	TOREADOR RED	•	•
AWL G9093	FIGHTING LADY	•	•
AWL G9298	FEDERAL YELLOW	•	•
METALLICS			
AWL H1021	BRIGHT ALUMINUM	•	•
AWL H1048	SILVER	•	•
AWL H1303	MEDIUM SILVER	•	•
AWL H9182	PALE GOLD	•	•
AWL H9178	CORDOVAN GOLD	•	•



Code	Colour	Quart	Gall.
WHITE			
AWL F8024	MATTERHORN WHITE	•	•
AWL F8020	OFF WHITE	•	•
AWL F8018	VESTAL WHITE	•	•
AWL F8166	OFF WHITE REV.	•	•
AWL F8150	INSIGNIA WHITE	•	•
AWL F8063	SNOW WHITE	•	•
AWL F8215	CLOUD WHITE	•	•
AWL F8015	BLUE TONE WHITE	•	•
AWL F8016	CREAM	•	•
AWL F8017	EGGSHELL WHITE	•	•
AWL F8082	CHEVY WHITE	•	•
AWL F8185	FLEET WHITE	•	•
AWL F8222	OYSTER WHITE	•	•
AWL F8155	STARK WHITE	•	•
GREY-BLACK			
AWL F1007	LIGHT GRAY	•	•
AWL F1010	MEDIUM GRAY	•	•
AWL F1196	PEARL GRAY	•	•
AWL F1182	GRAYSTONE	•	•
AWL F1228	DARK GRAY	•	•
AWL F1009	KINGSTON GRAY	•	•
AWL F1204	WHISPER GRAY	•	•
AWL F2091	SUPER JET BLACK	•	•
BLUE			
AWL F5028	NAVY BLUE	•	•
AWL F5014	FLAG BLUE	•	•
AWL F5010	ARISTO BLUE	•	•
AWL F5011	ROYAL BLUE	•	•
AWL F5015	MARLIN BLUE	•	•
AWL F5256	SKY BLUE	•	•
AWL F5264	EMPRESS BLUE	•	•
AWL F5021	ICE BLUE	•	•
AWL F5359	CARINTHIA BLUE	•	•
AWL F5381	MIDNIGHT BLUE	•	•
AWL F5275	MAJESTIC BLUE	•	•
BROWN			
AWL F6171	SABLE BROWN	•	•
AWL F6012	PRAIRIE BEIGE	•	•
AWL F6102	MOON DUST	•	•
AWL F6014	CASTLE TAN	•	•
AWL F6017	SAHARA TAN	•	•
AWL F9014	SAN MATEO WHEAT	•	•
AWL F6187	DESERT SAND	•	•
GREEN			
AWL F4121	DARK GREEN	•	•
AWL F4114	JADE MIST GREEN	•	•
AWL F4105	FOREST GREEN	•	•
AWL F4101	SEA FOAM	•	•
AWL F4088	KELLY GREEN	•	•
AWL F4126	AQUA MIST	•	•
AWL F5252	TEAL	•	•
RED-YELLOW			
AWL F7252	RED MAHOGANY	•	•
AWL F7242	SUNFAST RED	•	•
AWL F7029	CLARET	•	•
AWL F7233	INTERN ORANGE	•	•
AWL F7200	VIVID RED	•	•
AWL F7232	TOREADOR RED	•	•
AWL F9120	FIGHTING LADY	•	•
AWL F9148	FEDERAL YELLOW	•	•
METALLICS			
AWL F1206	BRIGHT ALUMINUM	•	•
AWL F1195	SILVER	•	•
AWL F1265	MEDIUM SILVER	•	•
AWL F9145	PALE GOLD	•	•
AWL F9147	CORDOVAN GOLD	•	•

## AWLGRIP

### CLEAR VARNISHES

Code	Product	Pint	Quart	1/2 Gall.	Gall.
AWL J3005	AWLBRITE PLUS CLEAR Base (comp. A)		•		•
AWL J3006	AWLBRITE PLUS Converter (comp. B)	•		•	
AWL A0031	AWLBRITE PLUS Activator (Brush)	•			•
AWL A0001	AWLBRITE PLUS Activator (Spray)	•			•
AWL G3005	HIGH GLOSS CLEAR		•		•
AWL F3029	AWLCRAFT 2000 CLEAR		•		•
AWL M3131	AWLSPAR		•		

## AWLGRIP

### CATALYSTS

Code	Product	Pint	Quart	1/2 Gall.	Gall.
AWL G3010	AWLCAT N.2		•		•
AWL H3002	AWLCAT N.3	•		•	

## AWLSTAR

### ANTI - FOULING

Code	Product	Gall.	15 lt.
	GOLDLABEL		
AWL BP204	CHARCOAL BLACK	•	
AWL BP508	LIGHT BLUE	•	
AWL BP507	DEEP BLUE	•	
AWL BP705	RED	•	
AWL BP809	WHITE LIGHTNING	•	

## AWLGRIP

### FILLERS

Code	Product	Quar	1/2 Gall.	Gall.	2 Gall.
AWL D8200	AWLFAIR Base	•			•
AWL D7200	AWLFAIR Converter	•			•
AWL D7222	AWLFAIR FAST Converter	•			•
AWL D6001	SPRAYABLE Fairing Comp. Base			•	
AWL D3011	SPRAYABLE Fairing Comp. Converter			•	
AWL D6200	AWLFAIR Surfacing Filler Base		•		
AWL D3200	AWLFAIR Surfacing Filler Converter	•			

## AWLGRIP

### PRIMERS - FIRST COAT

Code	Product	250 ml	Quart	1/2 Gall.	Gall.	3/4 Gall.
AWL D1001	545 EPOXY PRIMER Gray Base		•		•	
AWL D8001	545 EPOXY PRIMER White Base		•		•	
AWL D3020	545 EPOXY PRIMER Clear Base				•	
AWL D3001	545 EPOXY PRIMER Converter		•		•	
AWL D8003	AWLQUIK Base				•	
AWL D9001	AWLQUIK Converter				•	
AWL D8008	ULTRA BUILD EPOXY PRIMER Base				•	
AWL D3018	ULTRA BUILD EPOXY PRIMER Converter				•	
AWL D8002	HIGH BUILD EPOXY PRIMER Base				•	
AWL D3002	HIGH BUILD EPOXY PRIMER Converter				•	
AWL R4330	MAX COR CF PRIMER Base				•	•
AWL R3330	MAX COR CF PRIMER Converter				•	
AWL S4010	MAX COR CF AEROSOL	•			•	
AWL D6600	WASH PRIMER CF BASE		•			
AWL D3300	WASH PRIMER CF CONVERTER		•			
AWL S6300	WASH PRIMER CF AEROSOL	•				
AWL D8016	QUIK-GRIP PRIMER Base				•	
AWL D3040	QUIK-GRIP PRIMER Converter				•	
AWL D6120	HULLGARD EXTRA Kit		•		•	
AWL D6070	HULLGARD Epoxy Primer BUFF Kit				•	
AWL R1100	321 HS UNDERCOAT Gray Base					•
AWL R8100	321 HS UNDERCOAT White Base					•
AWL R3100	321 HS Converter		•			

## AWLGRIP

### THINNERS

Code	Product	Quart	Gall.
AWL T0001	TOPCOAT REDUCER Fast (Spray)	•	•
AWL T0002	EQUIPMENT CLEANER		•
AWL T0003	TOPCOAT REDUCER Standard (Spray)	•	•
AWL T0005	HOT WEATHER REDUCER		•
AWL T0006	EPOXY PRIMER REDUCER	•	•
AWL T0031	TOPCOAT REDUCER Slow (Brush)	•	•
AWL T0073	ULTRA BUILD REDUCER		•
AWL T0101	GOLDLABEL REDUCER		•
AWL T0016	AWLSPAR REDUCER (Brush)	•	
AWL T0180	AWLSPAR H.S. REDUCER (Spray)	•	
AWL T340	SURFACE CLEANER	•	•
AWL T0008	AWLPREP SURFACE CLEANER	•	•

### SPECIFY SIZE WHEN ORDERING:

oz = 59 CC

1 Pint = 0.473 LT

1 Quart = 0.946 LT

1/2 Gallon = 1.892 LT

1 Gallon = 3.785 LT



## METALLICS

Code	Colour	Quart.	Gall.
SILVER-BLACK			
AWL F1268	TWILIGHT GRAY	•	•
AWL F1269	MOONGLOW SILVER	•	•
AWL F1270	STONE GRAY	•	•
AWL F1271	SANDALWOOD	•	•
AWL F1272	GOLDEN GRAY	•	•
AWL F1273	CRYSTAL SILVER	•	•
AWL F2121	PANTHER BLACK	•	•
AWL F2122	BLACK MIST	•	•
GREEN			
AWL F4156	TROPICAL GREEN	•	•
AWL F4157	VERDE GREEN	•	•
AWL F4158	CYPRESS GREEN	•	•
AWL F4159	EMERALD GREEN	•	•
AWL F4160	DEPP WOODS	•	•
AWL F4161	MEDINA GREEN	•	•
AWL F4162	TASMANIAN GREEN	•	•
AWL F4163	SEA GREEN	•	•
AWL F4164	WHISPER GREEN	•	•
BLUE			
AWL F5339	BAHIA BLUE	•	•
AWL F5340	CARIBBEAN BLUE	•	•
AWL F5341	TOURMARIN BLUE	•	•
AWL F5342	AQUAMARINE	•	•
AWL F5343	XENON BLUE	•	•
AWL F5344	MID ATLANTIC BLUE	•	•
AWL F5345	ENCHANTED BLUE	•	•
AWL F5346	BRIGHT ATLANTIC BLUE	•	•
AWL F5347	IMPERIAL BLUE	•	•
AWL F5348	BLUE STEEL	•	•
AWL F5349	GLACIER BLUE	•	•
AWL F5350	LIGHT SAPPHIRE	•	•
AWL F5351	ROBIN BLUE	•	•
AWL F5352	SPEED BLUE	•	•
AWL F5353	WISTERIA BLUE	•	•
AWL F5354	HORIZON BLUE	•	•
BROWN			
AWL F6216	BROWN SUGAR	•	•
AWL F6217	SATINBEIGE	•	•
AWL F6218	BRAZIL BROWN	•	•
RED			
AWL F5337	MULBERRY	•	•
AWL F5338	PURPLE PASSION	•	•
AWL F7289	REDFIRE	•	•
AWL F7290	RED RASPBERRY	•	•
AWL F7291	MERLOT RED	•	•
AWL F7292	BRANDYWINE	•	•
AWL F7293	SALSA RED	•	•
AWL F7294	CAYENNE RED	•	•
GOLD			
AWL F9171	CITRINE GOLD	•	•
AWL F9172	CHAMELEON GOLD	•	•
AWL F9173	AZTEC GOLD	•	•
AWL F9174	AURORA GOLD	•	•



## AUXILIARY PRODUCTS

Code	Product	2 oz.	Pint	Quart.	Gall.
AWL 73012	GRIPTEX FINE			•	
AWL 73013	GRIPTEX COARSE			•	
AWL 73237	GRIPTEX EXTRA COARSE			•	
AWL G3013	FLATTENING AGENT			•	•
AWL M3066	COLD CURE		•		
AWL M1017	CRATER X		•		
AWL 73014	PRO-CURE X-98	•			
AWL 73015	PRO-CURE X-138	•			



## MAINTENANCE PRODUCTS

Code	Product	Pint	Quart.	1/2 Gall.	Gall.
AWL 73234	AWLWASH		•		•
AWL 73240	AWLCARE	•		•	



## TEMPORARY PROTECTION

Code	Product	5 Gall.
AWL WP101	AWLCOAT TPC TEMPORARY PROTECTIVE COATING	•



## BLENDING - SOLVENTS

Code	Product	Quart.
AWL T0190	BLENDING - SOLUTION	•
AWL T0195	BLENDING - SOLUTION	•



**GRIPTEX**  
Code: AWL 73013

**COLD CURE**  
Code: AWL M3066



## SPECIFY SIZE WHEN ORDERING:

oz = 59 CC    1 Pint = 0.473 LT    1 Quart = 0.946 LT    1/2 Gallon = 1.892 LT    1 Gallon = 3.785 LT

## SMOOTH FINISH PAINTS - DIRECT TO RUST

Hammered finish-colours also available

Code	Colour	Size
HMR 67220161	BLACK	750ml
HMR 67009353	BLUE	750ml
HMR 67009346	DARK GREEN	750ml
HMR 67011066	GOLD	750ml
HMR 67009322	RED	750ml
HMR 67000558	SILVER	750ml
HMR 67202167	WHITE	750ml
HMR 67029108	YELLOW	750ml
HMR 5093876	BROWN	750ml



## BRUSH CLEANER AND THINNER

Hammered finish-colours also available

Code	Description	Size
HMR 67215020	BRUSH CLEANER & THINNERS	500ml



Code	Colour
INT YKA027	Cream 027
INT YKA184	Mediterranean White 545
INT YKA187	Ivory 812
INT YKA241	Norfolk Green 241
INT YKA265	Rescue Orange 265
INT YKA504	Fire Red 504
INT YKA923	Squall Blue 923
INT YKB000	Snow White 001
INT YKF684	Atlantic Grey 289
INT YKF991	Mauritius Blue 018
INT YKS101	Yellow 101
INT YKS299	Rochelle Red 011
INT YKS936	Lauderdale Blue 936
INT YKT541	Donegal Green 077
INT YKU898	Bondi Blue 016
INT YKY999	Jet Black 051
INT YKZ501	Rustic Red 501
INT YKB830	Sapphire Blue 830
INT YKA905	White 905



## TOPLAC

- Silicone alkyd formula lasts twice as long as conventional onepart enamels
  - Excellent UV resistance
  - Extended gloss and colour retention characteristics
  - Easy to apply giving deep, lustrous finish
- Area Above the waterline  
Finish/Sheen: High Gloss  
Pack sizes: 750 ml, 2.5 Lt  
Substrates: Aluminium  
GRP/FRP  
Steel  
Wood  
Carbon Fibre



DECK MAINTENANCE

## International

### DANBOLINE

- Hard wearing coating for bilges, lockers and bulkheads
- Chemical resistance to fumes, fuel and oil
- High opacity for thorough coverage
- Cleans easily for reduced maintenance

Area: Above and below the waterline  
Finish/Sheen: High Sheen  
Pack sizes: 750 ml, 2.5 Lt

Substrates: Aluminium, GRP/FRP, Steel, Wood.

Code		Colour
INT YMA100		Grey
INT YMA102		White







## International

### MICRON 77 ANTIFOULING

- Outstanding protection even in the harshest conditions
- Proven SPC technology (Self Polishing Copolymer)
- Multi-season performance
- Reduces application and maintenance time and costs
- 24/7 biocide release – protection in all conditions
- Improves speed and fuel efficiency

Area Below the waterline  
Finish/Sheen: Matt  
Pack sizes: 2.5 lt, 5 lt, 20 lt  
Substrates: GRP/FRP  
Lead, Steel, Wood, Carbon Fibre, Cast Iron

Code		Colour
INT YBA475		Black
INT YBA476		Navy
INT YBA477		Blue
INT YBA478		Red



## International

### WOODSKIN

- Flexible wood oil/varnish hybrid that acts like a skin for your wood
- Natural Teak colour
- Microporous properties
- Water repellent
- Minimal maintenance requirements
- Suitable on all types of wood, including teak and ikoro

Area: Above the waterline  
Finish/Sheen: Satin  
Pack sizes: 750 ml, 2.5 lt  
Substrates: Wood

Code: INT YVC316



## International

### SCHOONER GOLD

- Advanced UV technology, longest-lasting one-part varnish
- Exceptional deep gloss and colour are retained over the lifetime of the coating
- Sand between every other coat
- Traditional amber colour
- Use without thinning in warm/higher temperature climates

Area: Above the waterline  
Finish/Sheen: High Gloss  
Pack sizes: 750 ml, 2.5 lt  
Substrates: Wood

Code: INT YVA500





### SCHOONER

- Oil based gloss yacht varnish for classic yachts
- Easy and silky application
- Deep, rich gloss
- Warm golden colour
- Excellent UV protection
- For interior and exterior use
- Excellent water resistance, superior self-leveling properties

Area: Above the waterline  
Finish/Sheen: High Gloss  
Pack sizes: 375 ml, 750 ml  
Substrates: Wood

Code: INT YVA086



### ORIGINAL

- Traditional, general purpose gloss varnish
- Good flow, flexibility and gloss retention
- High clarity finish for light colour woods
- Interior, exterior and over existing varnish

Area: Above the waterline  
Finish/Sheen: Full Gloss  
Pack sizes: 750 ml  
Substrates: Wood

Code: INT YVA202



### YACHT PRIMER

- Conventional one-part primer for use above the water
- Quick drying, with anticorrosive properties
- Pigments contain aluminium flake to provide an anti-corrosive protective barrier

Area: Above the waterline  
Finish/Sheen: Matt  
Pack sizes: 750 ml, 2.5 Lt  
Substrates: Aluminium, Steel, Wood



Code: INT YPA275



### INTERPROTECT

- Quick drying, easy to apply, two-part epoxy primer
- Offers excellent anticorrosive protection
- Can be used as an antifouling tie-coat over existing epoxy primers

Area: Above and below the waterline  
Finish/Sheen: Matt  
Pack sizes: 750 ml, 2.5 Lt, 5 Lt  
Substrates: Aluminium, Steel, Wood

Codes: INT YPA403  Grey  
INT YPA400  White

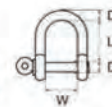


### WICHARD D SHACKLE

Wichard 316 Stainless Steel self-locking Dee Shackle.  
Breaking load (BL) tested and guaranteed.



Cod.	D mm	L mm	W mm	BL Kg	UM
3521004	4	13	8	700	PZ
3521005	5	16	10	1000	PZ
3521006	6	20	12	1600	PZ
3521008	8	26	16	2700	PZ
3521010	10	33	20	4300	PZ
3521012	12	39	24	6000	PZ

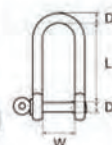


### WICHARD CAPTIVE PIN D SHACKLE

Wichard standard 316 Stainless Steel self-locking captive pin Dee Shackle.  
Breaking load (BL) tested and guaranteed.



Cod.	D mm	L mm	W mm	BL Kg	UM
3521024	4	13	8	1000	PZ
3521025	5	16	10	1500	PZ
3521026	6	20	12	2200	PZ
3521028	8	26	16	3600	PZ
3521030	10	33	20	5200	PZ

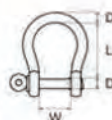


### WICHARD LONG D SHACKLE

Wichard 316 Stainless Steel self-locking Long Dee Shackle.  
Breaking load (BL) tested and guaranteed.



Cod.	D mm	L mm	W mm	BL Kg	UM
3521104	4	22	8	700	PZ
3521105	5	29	10	1000	PZ
3521106	6	33	12	1600	PZ
3521108	8	45	16	2700	PZ
3521110	10	55	20	4300	PZ

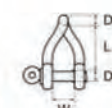


### WICHARD CAPTIVE PIN LONG D SHACKLE

Wichard 316 Stainless Steel self-locking captive pin Long Dee Shackle.  
Breaking load (BL) tested and guaranteed.



Cod.	D mm	L mm	W mm	BL Kg	UM
3521124	4	31	8	1000	PZ
3521125	5	39	10	1500	PZ
3521126	6	46	12	2200	PZ
3521128	8	62	16	3600	PZ



### WICHARD BOW SHACKLE

Wichard 316 Stainless Steel self-locking Bow Shackle.  
Breaking load (BL) tested and guaranteed.



Cod.	D mm	L mm	W mm	BL Kg	UM
3521204	4	18	8	700	PZ
3521205	5	23	10	1000	PZ
3521206	6	28	12	1600	PZ
3521208	8	37	16	2700	PZ
3521210	10	47	20	4300	PZ
3521212	12	55	24	6000	PZ

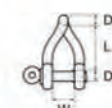


### WICHARD CAPTIVE PIN BOW SHACKLE

Wichard 316 Stainless Steel self-locking captive pin Bow Shackle.  
Breaking load (BL) tested and guaranteed.



Cod.	D mm	L mm	W mm	BL Kg	UM
3521224	4	18	8	1000	PZ
3521225	5	23	10	1500	PZ
3521226	6	28	12	2200	PZ
3521228	8	37	16	3700	PZ
3521230	10	47	20	5200	PZ



### WICHARD TWISTED D SHACKLE

Wichard 316 Stainless Steel self-locking Twisted Shackle.  
Breaking load (BL) tested and guaranteed.



Cod.	D mm	L mm	W mm	BL Kg	UM
3521305	5	26	10	1100	PZ
3521306	6	30	12	1500	PZ
3521308	8	40	16	3000	PZ



### WICHARD CAPTIVE PIN TWISTED D SHACKLE

Wichard 316 Stainless Steel self-locking captive pin Twisted Shackle.  
Breaking load (BL) tested and guaranteed.



Cod.	D mm	L mm	W mm	BL Kg	UM
3521325	5	38	10	1500	PZ
3521326	6	44	12	2100	PZ
3521328	8	59	16	3700	PZ

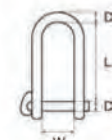


### WICHARD ALLEN HEAD SHACKLE

Wichard 316 Stainless Steel self-locking Allen Head Shackle.  
Breaking load (BL) tested and guaranteed.



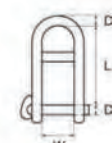
Cod.	D mm	L mm	W mm	BL Kg	UM
3521506	6	19	12	1600	PZ
3521508	8	26	16	2700	PZ
3521510	10	33	20	4300	PZ



### WICHARD KEY PIN LONG D SHACKLE

Wichard 316 Stainless Steel key pin Long Dee Shackle.  
Breaking load (BL) tested and guaranteed.

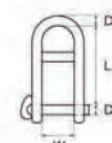
Cod.	D mm	L mm	W mm	BL Kg	UM
3520905	5	37	12	1100	PZ
3520906	6	45	16	1500	PZ
3520908	8	59	21	2300	PZ



### WICHARD KEY PIN LONG D SHACKLE B

Wichard 316 Stainless Steel key pin Long Dee Shackle with bar.  
Breaking load (BL) tested and guaranteed.

Cod.	D mm	L mm	W mm	BL Kg	UM
3520915	5	37	12	1100	PZ
3520916	6	45	16	1500	PZ
3520918	8	59	21	2300	PZ



### STAMPED D SHACKLE

316 Stainless Steel stamped D shackle.

Cod.	D mm	L mm	W mm	UM
0121515	4	15	10	PZ
0121517	5	17	12	PZ
0121524	4	20	10	PZ
0121525	5	24	16	PZ
0121526	5	25	13.5	PZ
0121540	5	36	16	PZ
0121541	5	37.5	21	PZ



### STAMPED RING D SHACKLE

316 Stainless Steel stamped D shackle with ring.

Cod.	D mm	L mm	W mm	UM
0121502	4	15	10	PZ
0121503	4	24	12	PZ
0121504	5	17	12	PZ
0121505	5	25	16	PZ
0121506	5	37	22	PZ



### STAMPED TWISTED T SHACKLE

316 Stainless Steel stamped Twisted shackle.

Cod.	D mm	L mm	W mm	UM
0121552	5	22	12	PZ
0121555	5	33	12	PZ
0121557	6	36	14	PZ



### KEY PIN STAMPED D SHACKLE

316 Stainless Steel key pin stamped D shackle.

Cod.	D mm	L mm	W mm	UM
0121562	4	22	11	PZ
0121563	5	36	15	PZ
0121564	6	40	15	PZ



### KEY PIN STAMPED D SHACKLE B

316 Stainless Steel key pin stamped D shackle with bar.

Cod.	D mm	D1 mm	L mm	L1 mm	W mm	UM
0121573	5	3	21	12	15	PZ
0121574	6	3	25	12	15	PZ
0121575	8	3	26	12	20	PZ



### STAMPED HS NARROW D SHACKLE

316 Stainless Steel stamped narrow HS D shackle.  
Tested working load (WL) and breaking load (BL).



Cod.	D mm	L mm	W mm	WL Kg	BL Kg	UM
0121614	4	20	10	150	600	PZ
0121615	5	20	11	250	1000	PZ
0121616	5	22	15	275	1100	PZ
0121617	6	25	17	325	1300	PZ



### STAMPED HS WIDE D SHACKLE

316 Stainless Steel stamped wide HS D shackle.  
Tested working load (WL) and breaking load (BL).



Cod.	D mm	L mm	W mm	WL Kg	BL Kg	UM
0121624	4	16	8	150	600	PZ
0121625	5	20	8	250	1000	PZ
0121626	5	22	12	275	1100	PZ
0121627	6	25	13	325	1300	PZ



### STAMPED HS SCREW D SHACKLE

316 Stainless Steel stamped HS D shackle with screw.  
Tested working load (WL) and breaking load (BL).



Cod.	D mm	L mm	W mm	WL Kg	BL Kg	UM
0121664	4	16	10	125	600	PZ
0121665	5	20	10	250	1000	PZ
0121666	6	25	15	325	1300	PZ



### STAMPED HS RING D SHACKLE

316 Stainless Steel stamped HS D shackle with ring extra.  
Tested working load (WL) and breaking load (BL).



Cod.	D mm	L mm	W mm	WL Kg	BL Kg	UM
0121507	5	17	8	187	750	PZ
0121508	5	21	9	187	750	PZ
0121509	5	36	14	250	1000	PZ
0121510	5	36	18	250	1000	PZ



### STANDARD CARABINER

316 Stainless Steel Standard Carabiner.

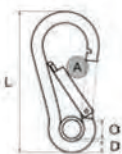
Cod.	D mm	L mm	A mm	UM
0211150	5	50	8	PZ
0211160	6	60	9	PZ
0211170	7	70	9	PZ
0211180	8	80	10	PZ
0211110	10	100	12	PZ
0211112	11	120	16	PZ
0211114	12	140	20	PZ
0211116	13	160	26	PZ



### STANDARD EYE CARABINER

316 Stainless Steel Standard Carabiner with eye.

Cod.	D mm	L mm	A mm	O mm	UM
0211350	5	50	8	7.5	PZ
0211360	6	60	9	9	PZ
0211370	7	70	9	10	PZ
0211380	8	80	10	11.5	PZ
0211310	10	100	12	14	PZ
0211312	11	120	16	16.5	PZ
0211314	12	140	20	18	PZ
0211316	13	160	26	20	PZ



### STANDARD CARABINER

316 Stainless Steel Standard Carabiner.

Cod.	D mm	L mm	A mm	UM
0211791	8	80	22	PZ
0211792	10	100	24	PZ
0211793	11	120	26	PZ



### KONG SIDE CARABINER EYE

316 Stainless Steel Carabiner with wide side opening and eye. Antigrip hooking system. Avoids tangling of lines.

Cod.	D mm	L mm	A mm	UM
0211891	8	85	18	PZ
0211892	10	100	19	PZ
0211893	11	125	26	PZ



### WIDE LOCK CARABINER

316 Stainless Steel wide opening screw lock carabiner.

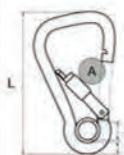
Cod.	D mm	L mm	A mm	UM
0211860	6	60	10	PZ
0211880	8	80	14	PZ
0211810	10	100	20	PZ
0211812	11	120	24	PZ



### EYE WIDE LOCK CARABINER

316 Stainless Steel wide opening screw lock carabiner with eye.

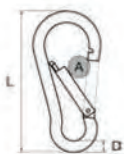
Cod.	D mm	L mm	A mm	O mm	UM
0212060	6	60	10	9	PZ
0212080	8	80	14	11	PZ
0212010	10	100	20	14	PZ
0212012	11	120	24	18	PZ



### WIDE CARABINER

Highest marine 316 Stainless Steel Standard Carabiner. Outstanding quality control and finish for the most rugged use in sea water. Supplied on elegant presentation card. Working Load (WL) tested and guaranteed. Breaking Load (BL) is 4 times Working Load.

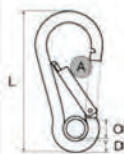
Cod.	D mm	L mm	A mm	WL Kg	BL Kg	UM
0211150C	5	50	8	90	360	PZ
0211160C	6	60	9	130	520	PZ
0211180C	8	80	10	180	720	PZ
0211110C	10	100	12	280	1120	PZ



### EYE WIDE LOCK CARABINER

Highest marine 316 Stainless Steel Standard Carabiner with eye. Outstanding quality control and finish for the most rugged use in sea water. Supplied on elegant presentation card. Working Load (WL) tested and guaranteed. Breaking Load (BL) is 4 times Working Load.

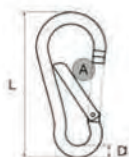
Cod.	D mm	L mm	A mm	O mm	WL Kg	BL Kg	UM
0211350C	5	50	8	7.5	90	360	PZ
0211360C	6	60	9	9	130	520	PZ
0211380C	8	80	10	11.5	180	720	PZ
0211310C	10	100	12	14	280	1120	PZ



### KONG STANDARD CARABINER

316 Stainless Steel Carabiner with antigrip hooking system.  
Avoids tangling of lines.

Cod.	D mm	L mm	A mm	UM
0211605	5	50	7	PZ
0211606	6	60	8	PZ
0211607	7	72	10	PZ
0211608	8	80	10	PZ
0211610	10	103	15,5	PZ
0211612	10,5	121	17	PZ
0211613	13	160	30	PZ



### KONG STANDARD CARABINER EYE

316 Stainless Steel Carabiner with eye and antigrip hooking system.  
Avoids tangling of lines.

Cod.	D mm	L mm	A mm	O mm	UM
0211615	5	50	7	6	PZ
0211616	6	60	8	7	PZ
0211617	7	72	10	9	PZ
0211618	8	80	10	10	PZ
0211620	10	103	15,5	12	PZ
0211622	10,5	121	17	15	PZ
0211623	13	160	30	22	PZ



### KONG SIDE CARABINER

316 Stainless Steel Carabiner with wide side opening.  
Antigrip hooking system.  
Avoids tangling of lines.

Cod.	D mm	L mm	A mm	UM
0211781	8	80	22	PZ
0211711	10	100	24	PZ
0211712	11	120	26	PZ



### KONG SIDE CARABINER EYE

316 Stainless Steel Carabiner with wide side opening and eye.  
Antigrip hooking system. Avoids tangling of lines.

Cod.	D mm	L mm	A mm	O mm	UM
0211981	8	80	24	11	PZ
0211911	10	100	24	14	PZ
0211912	11	120	26	18	PZ



### KONG WIDE CARABINER

Stainless Steel 316 Carabiner with wide opening.  
Antigrip hooking system.  
Avoids tangling of lines.

Cod.	D mm	L mm	A mm	UM
0212150	5	52	9	PZ
0212160	6	65	12	PZ
0212180	8	85	18	PZ
0212110	10	100	19	PZ
0212112	11	125	26	PZ



### KONG WIDE CARABINER EYE

316 Stainless Steel Carabiner with wide opening and eye.  
Antigrip hooking system.  
Avoids tangling of lines.

Cod.	D mm	L mm	A mm	O mm	UM
0212350	5	52	9	8	PZ
0212360	6	65	12	9	PZ
0212380	8	85	18	11	PZ
0212310	10	100	19	14	PZ
0212312	11	125	26	18	PZ



### KONG OUT LOCK CARABINER

316 Stainless Steel Carabiner with outward opening and sliding lock.  
Antigrip hooking system. Avoids tangling of lines.

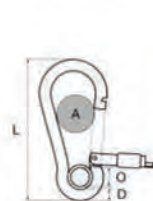
Cod.	D mm	L mm	A mm	UM
0211780	8	80	20	PZ
0211710	10	100	24	PZ



### KONG OUT LOCK CARABINER EYE

316 Stainless Steel Carabiner with outward opening, sliding lock and eye.  
Antigrip hooking system. Avoids tangling of lines.

Cod.	D mm	L mm	A mm	O mm	UM
0211980	8	80	20	11,5	PZ
0211910	10	100	24	14	PZ





VHF MARINE TRANSCEIVER IC-M87

- Frequency range : Marine Tx 156.000–161.450MHz  
Rx 156.000–163.425MHz  
PMR Tx/Rx 146.000–174.000MHz
- Usable channels\* : All International and U.S.A. channels  
22 PMR channels (\* Varies according to version.)
- Channel spacing : Marine 25kHz  
PMR 25/12.5kHz, 20/12.5kHz
- PLL channel step (PMR) : 5/6.25/7.5kHz
- Current drain (at 7.2V DC) : Tx (at 5W output) 1.6A  
Rx (at AF max.) 200mA
- Operating temp. range (except BP-227) : Marine –15°C to +55°C  
PMR –25°C to +55°C
- Antenna impedance : 50Ω (SMA)
- Dimensions (W×H×D) : 62×97×39 mm (projections not included)
- Weight (approx.) : 280g (with BP-227)

Code: ICO 5722003



ACCESSORIES	
Description	Code
BP-226 BATTERY CASE Battery case for AA (R6)×5 alkaline cells.	ICO BP-226
BP-227 Li-Ion BATTERY PACK 7.2V/1700mAh Li-Ion battery pack. Provides 15 hours operating time* (approx. at 5 Watts). The same as that supplied. Operating temp. range: –20°C to +60°C * Tx (Hi): Rx: standby=5:5:90	ICO BP-227
BC-152 DESKTOP CHARGER + BC-147A/E AC ADAPTER Regularly charges the BP-227 in 9-10 hours. The same as that supplied.	ICO BC-152 + BC-147A/E
BC-119N DESKTOP CHARGER + AD-100 CHARGER ADAPTER + BC-145A/E/V/UK AC ADAPTER For rapid charging of battery pack. An AC adapter is supplied depending on version. Charging time: 2.5–3 hours.	ICO BC-119N + AD-100 + BC-145A/E/V/UK
BC-121N MULTI-CHARGER + AD-100 CHARGER ADAPTER + BC-124 AC ADAPTER For rapid charging of up to 6 battery packs (Six AD-100s are required). Charging time: 2.5–3 hours.	ICO BC-121N + AD-100 + BC-124
CP-17L CIGARETTE LIGHTER CABLE WITH NOISE FILTER	ICO CP-17L
HM-138 SPEAKER-MICROPHONE Full sized, water resistant construction corresponds to JIS grade 7 (1 m/30 min.). Equipped with an alligator type clip.	ICO HM-138
MB-79 BELT CLIP Alligator type belt clip.	ICO MB-79
MB-86 SWIVEL BELT CLIP Swivel belt clip. Prevents accidental dropping from your belt. The same as that supplied.	ICO MB-86





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