



Tridente S.L.U.

NAUTICAL AND LIFESAVING EQUIPMENT



**LIFTING GEAR EQUIPMENTS & MISCELLANEOUS
FOR SUBSEA MARKET**

COMPANY PROFILE

TRIDENTE, S.L.U., has been established since 1982 as a marine supplier to all types of vessels, with wide experience in lifesaving and deck gear equipments.

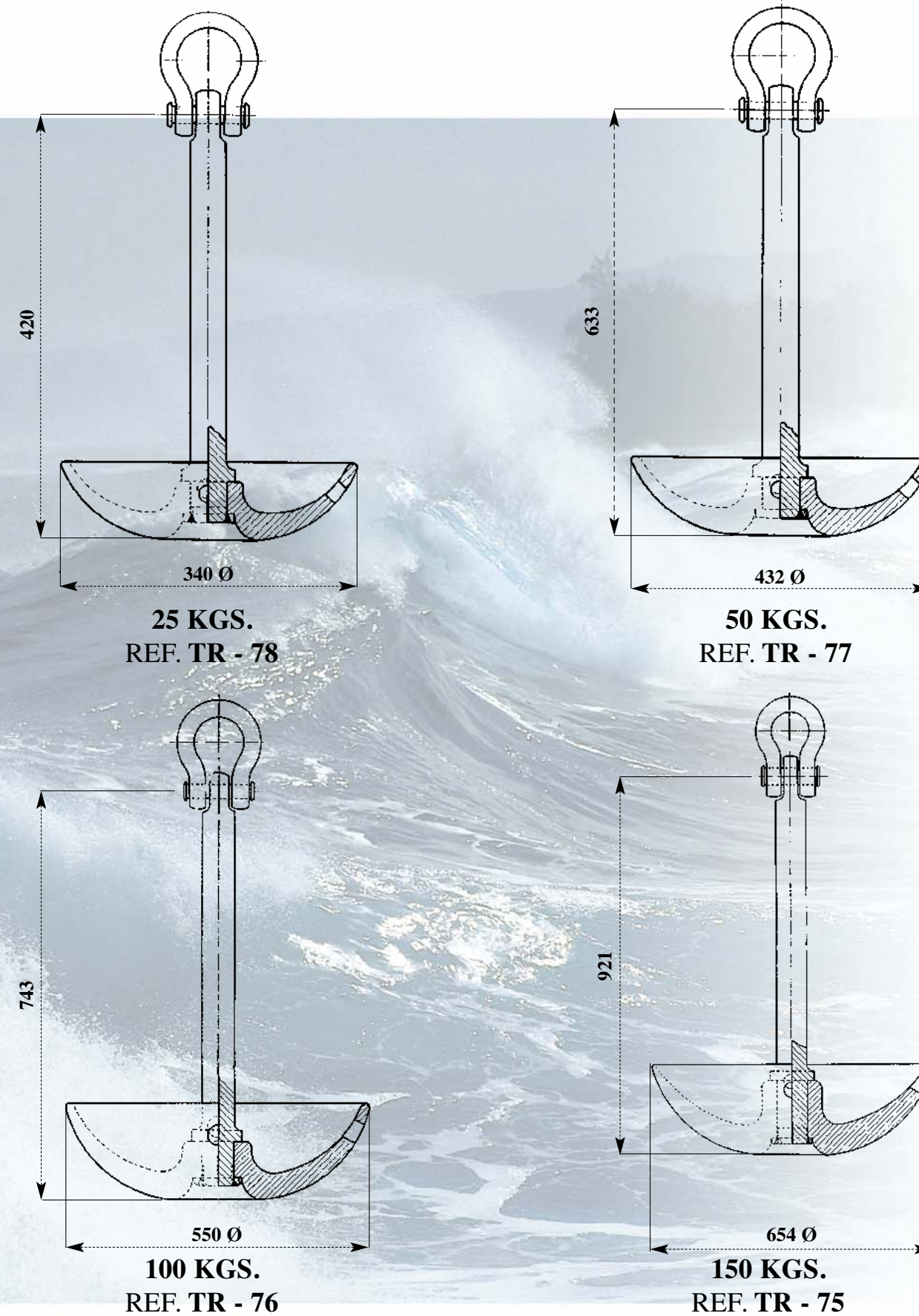
Over the past few years and as consequence of dealings with the submarine cable industry, a Cable Handling Division has been settled to supply specific products duly certified, refered on this catalogue. Other new designs, available upon inquiry.

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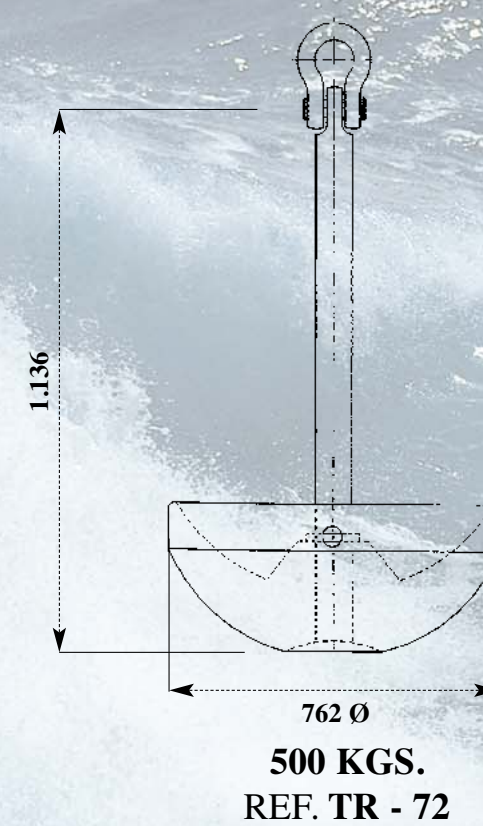
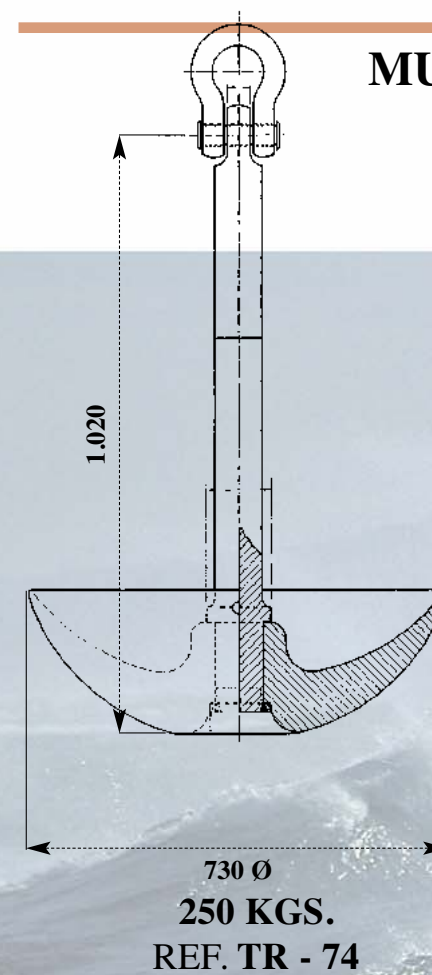
MUSHROOM ANCHORS



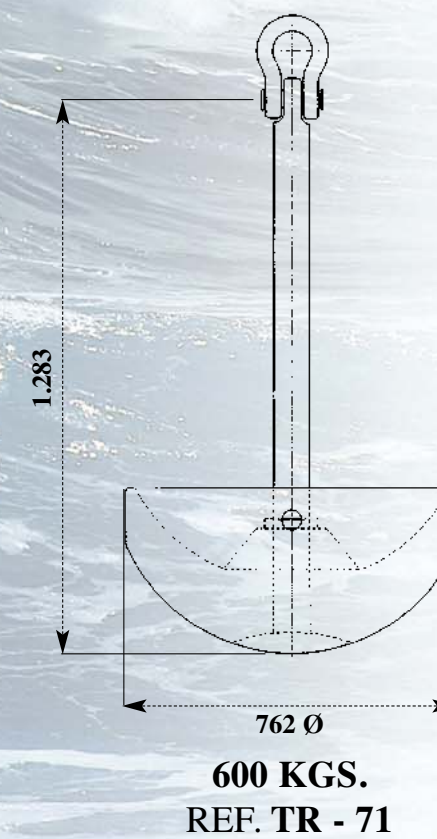
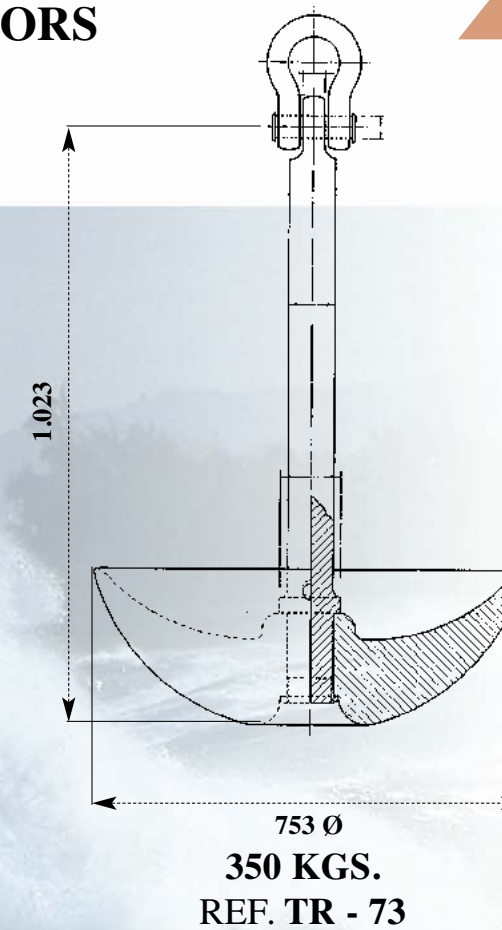
MUSHROOM ANCHORS



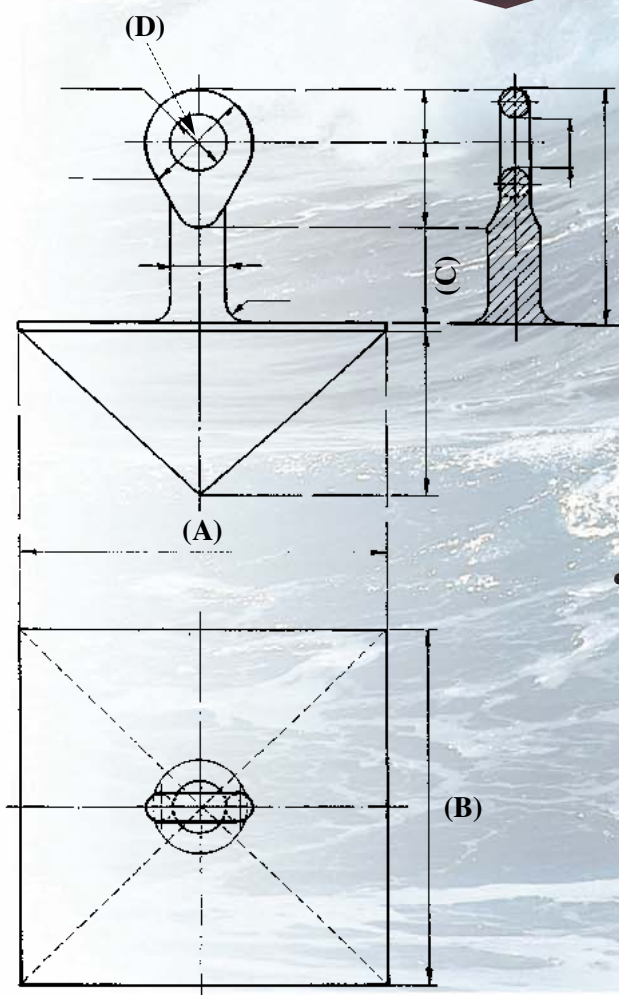
MUSHROOM ANCHORS



MUSHROOM ANCHORS

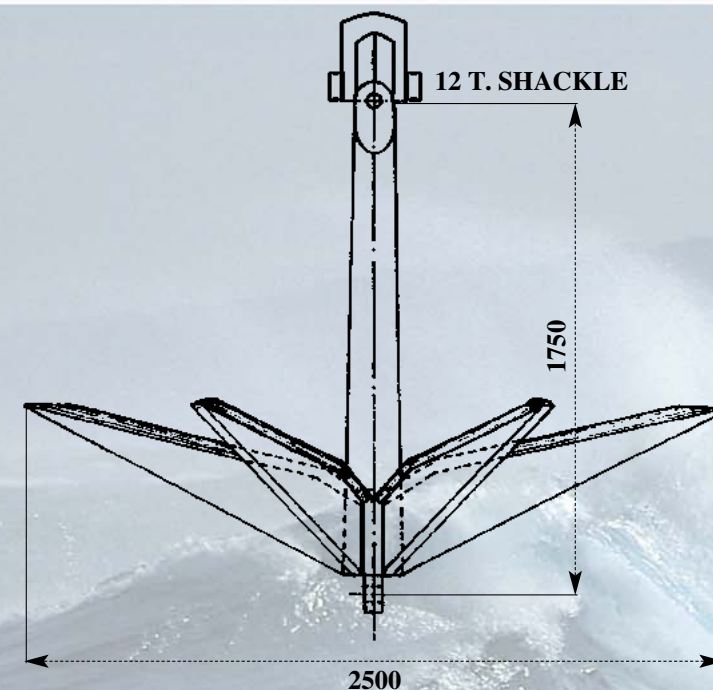


PYRAMID ANCHORS CAST STEEL



REFERENCE	A mm.	B mm.	C mm.	D mm.
TR - 347 200 LB/91 kgs.	410	395	450	55
TR - 348 2.000 LB/907 kgs.	880	900	1.040	145
TR - 349 500 LB/227 kgs.	533	533	765	102
TR - 350 1.000 LB/454 kgs.	690	690	770	140

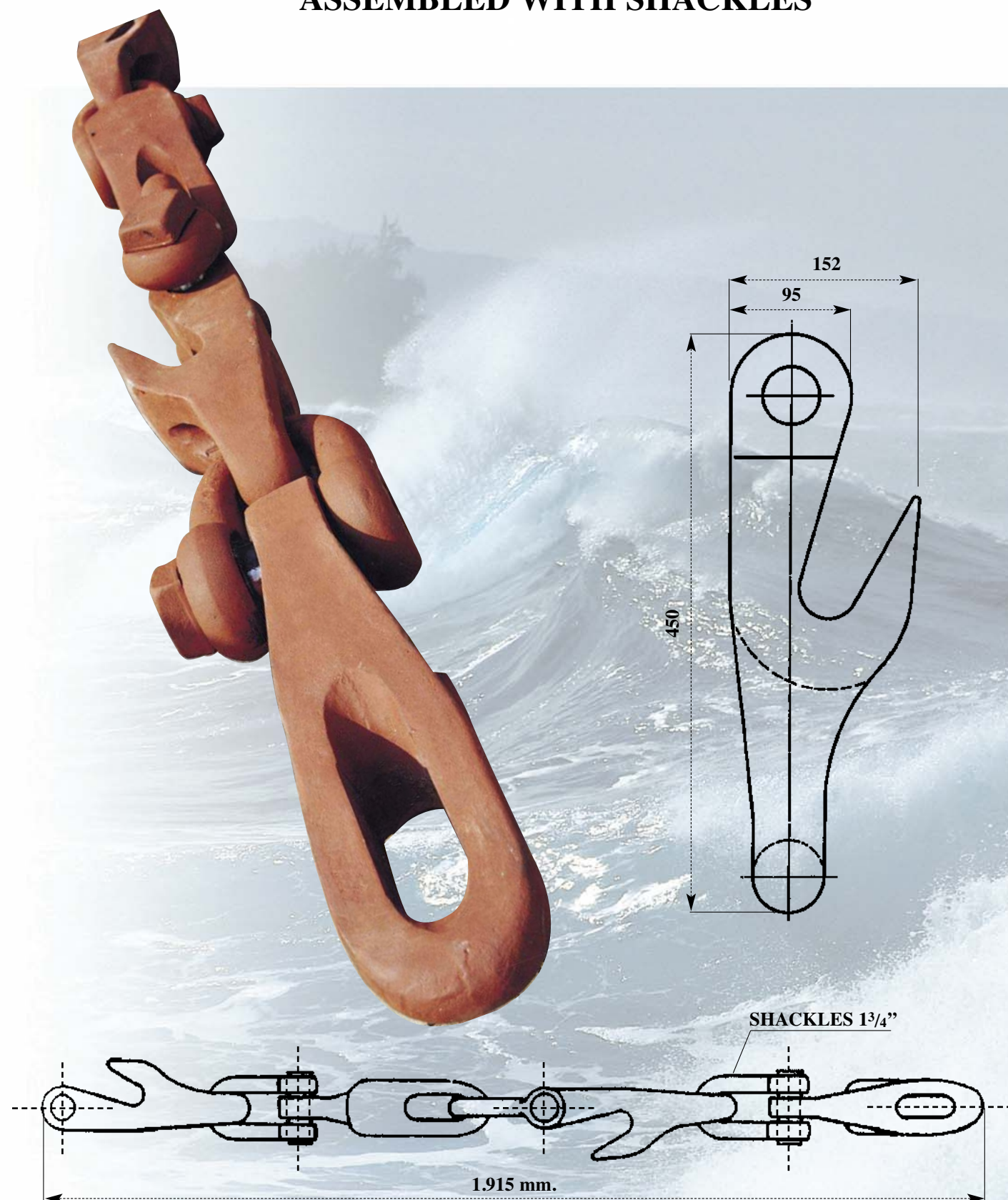
DETRECHING GRAPNEL 6 PRONG



825 KGS. WEIGHT
REF. TR - 008

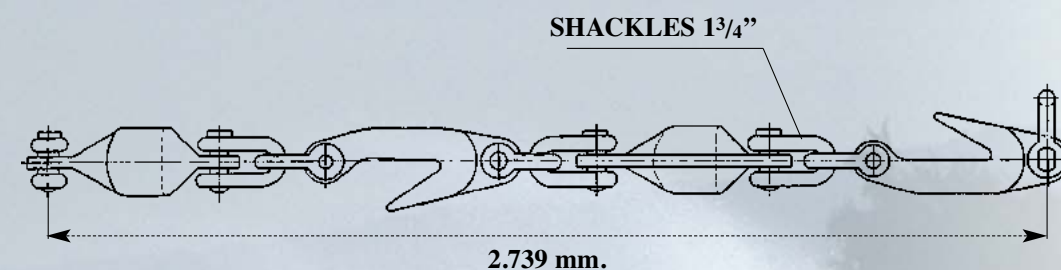


STANDARD GIFFORD. 17 TONNE. ASSEMBLED WITH SHACKLES



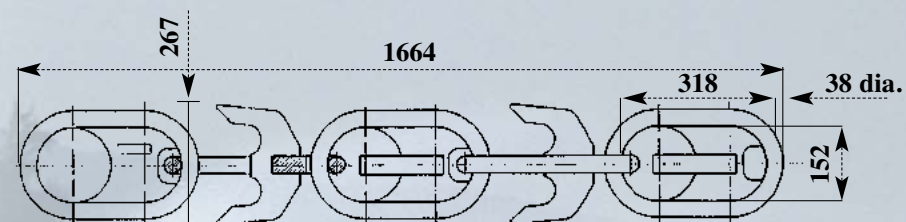
REF. TR - 346
WEIGHT 112 KGS.

LARGE GIFFORD. 17 TONNE. ASSEMBLED WITH SHACKLES

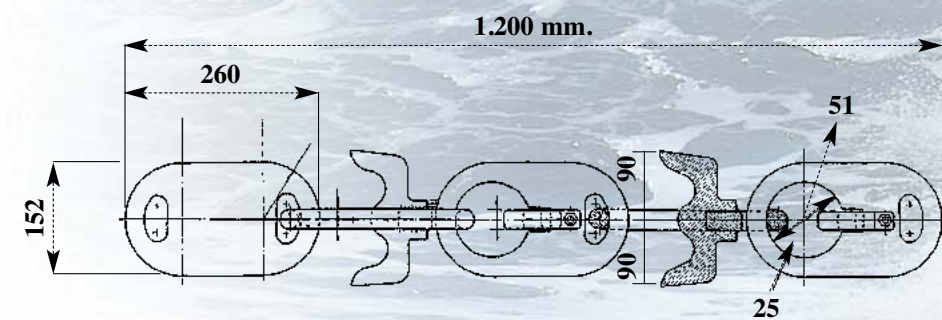


REF. TR - 249
WEIGHT 228 KGS.

SMALL

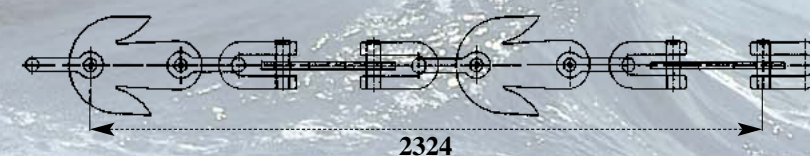
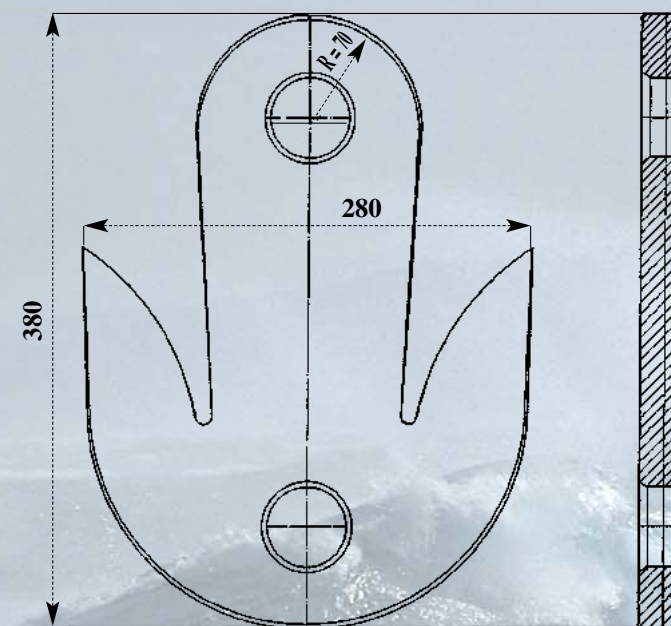


REF. TR - 295
WEIGHT 118 KGS.



REF. TR - 90
WEIGHT 40 KGS.

LARGE
9 TONS.

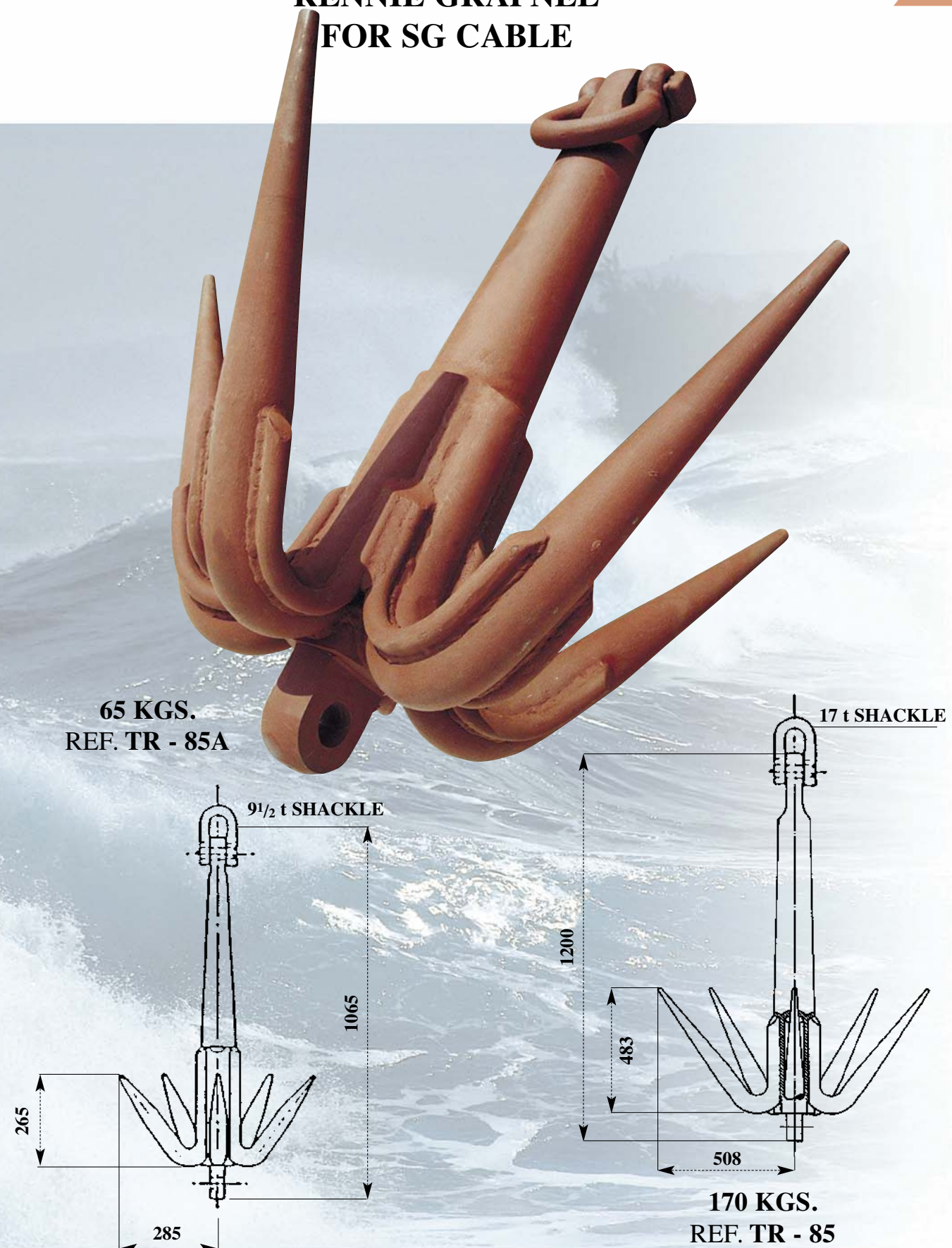


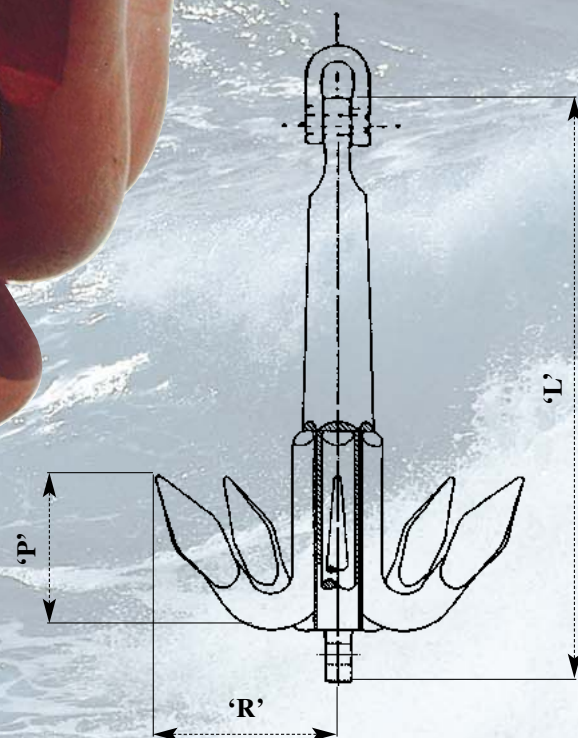
REF. TR - 001
WEIGHT 116 KGS.

RENNIE GRAPNEL FOR SG CABLE

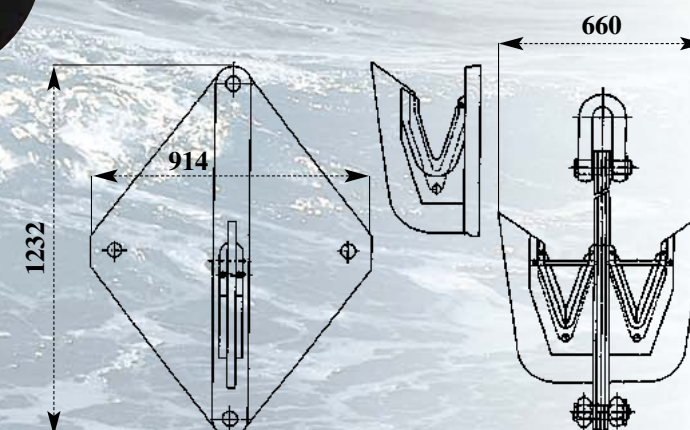


RENNIE GRAPNEL FOR SG CABLE





REFERENCE	WEIGHT	'L'	'R'	'P'
TR - 86B	100 KGS.	950	385	300
TR - 86	180 KGS.	1220	413	318
TR - 86C	250 KGS.	1500	450	375



FOR WIRE 1.47"

REF. TR - 247
WEIGHT 310 KGS.



FOR WIRE 0.99"
REF. TR - 256
WEIGHT 285 KGS.



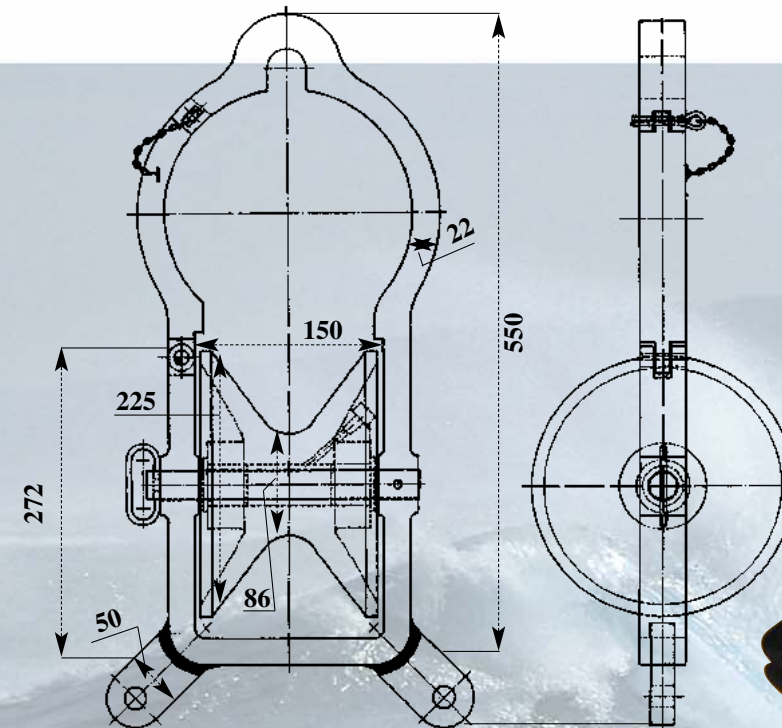
REF. TR - 257
WEIGHT 332 KGS.

SETS. BLADES. CURVED & VEE FOR FLATFISH



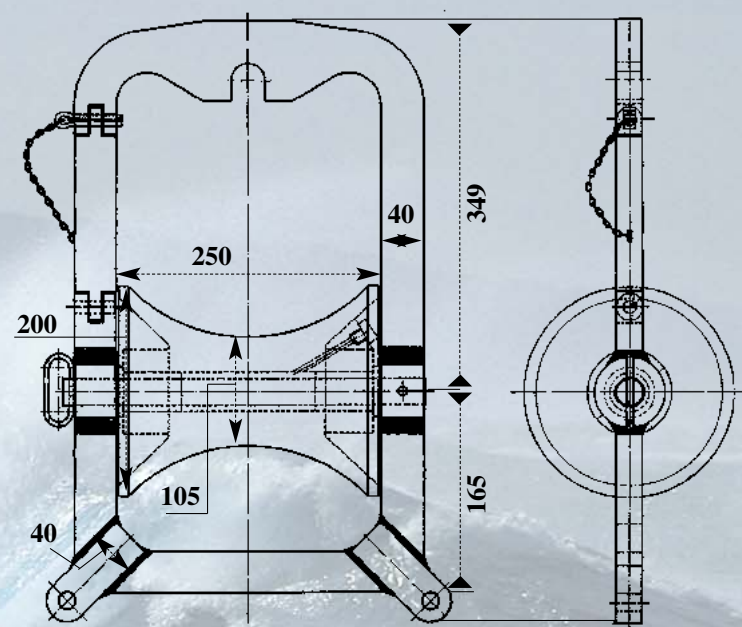
REF. TR - 256 / 5 CURVED
TR - 247 / 5 CURVED
TR - 256 / 6 VEE
TR - 247 / 6 VEE

CABLE SHEAVES

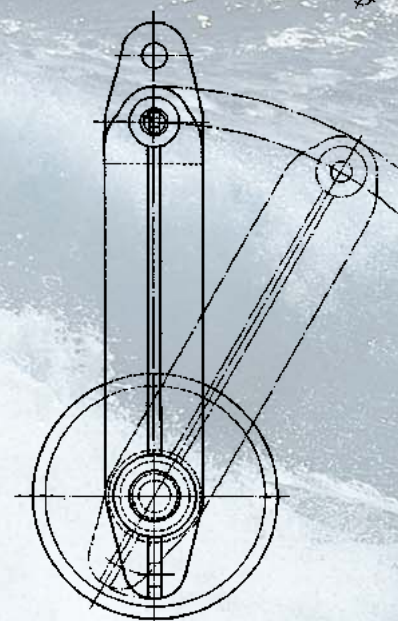


MBL 800 KGS.
REF. TR - 002 / 1
WEIGHT 27 KGS.



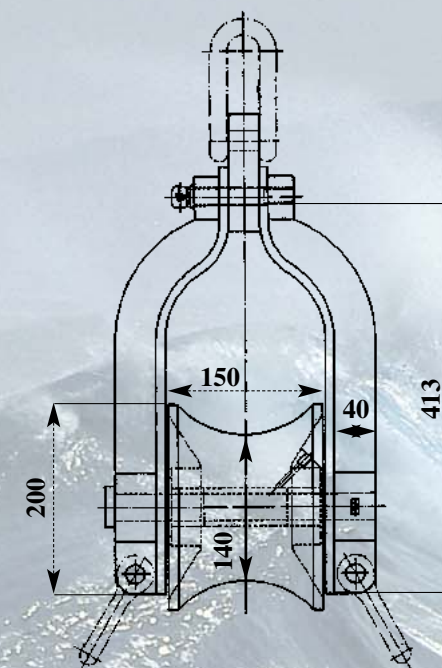


MBL 1 TONNE
REF. TR - 001 / 2G
WEIGHT 26 KGS.



MBL 800 KGS.
REF. TR - 001 / 1G
WEIGHT 26 KGS.

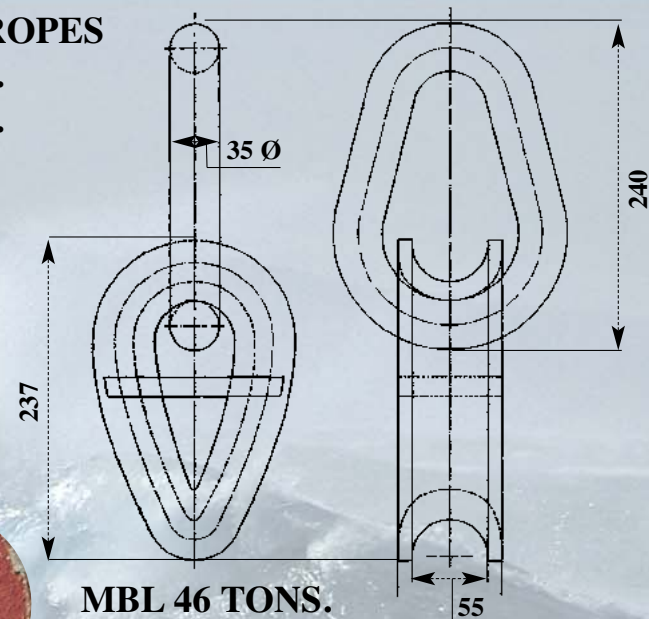
**SWING - ARM
CABLE SHEAVE**



FOR GRAPNEL ROPES

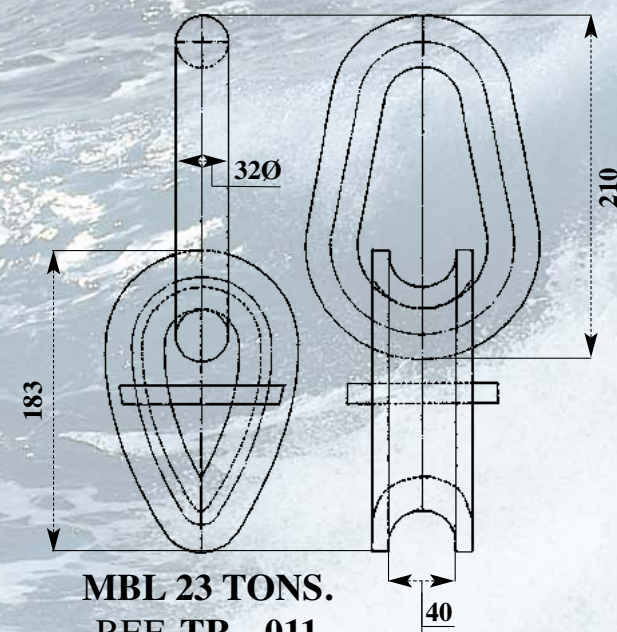
8x3, 53 MM.

6x4, 53 MM.



MBL 46 TONS.
REF. TR - 010
WEIGHT 10 KGS.

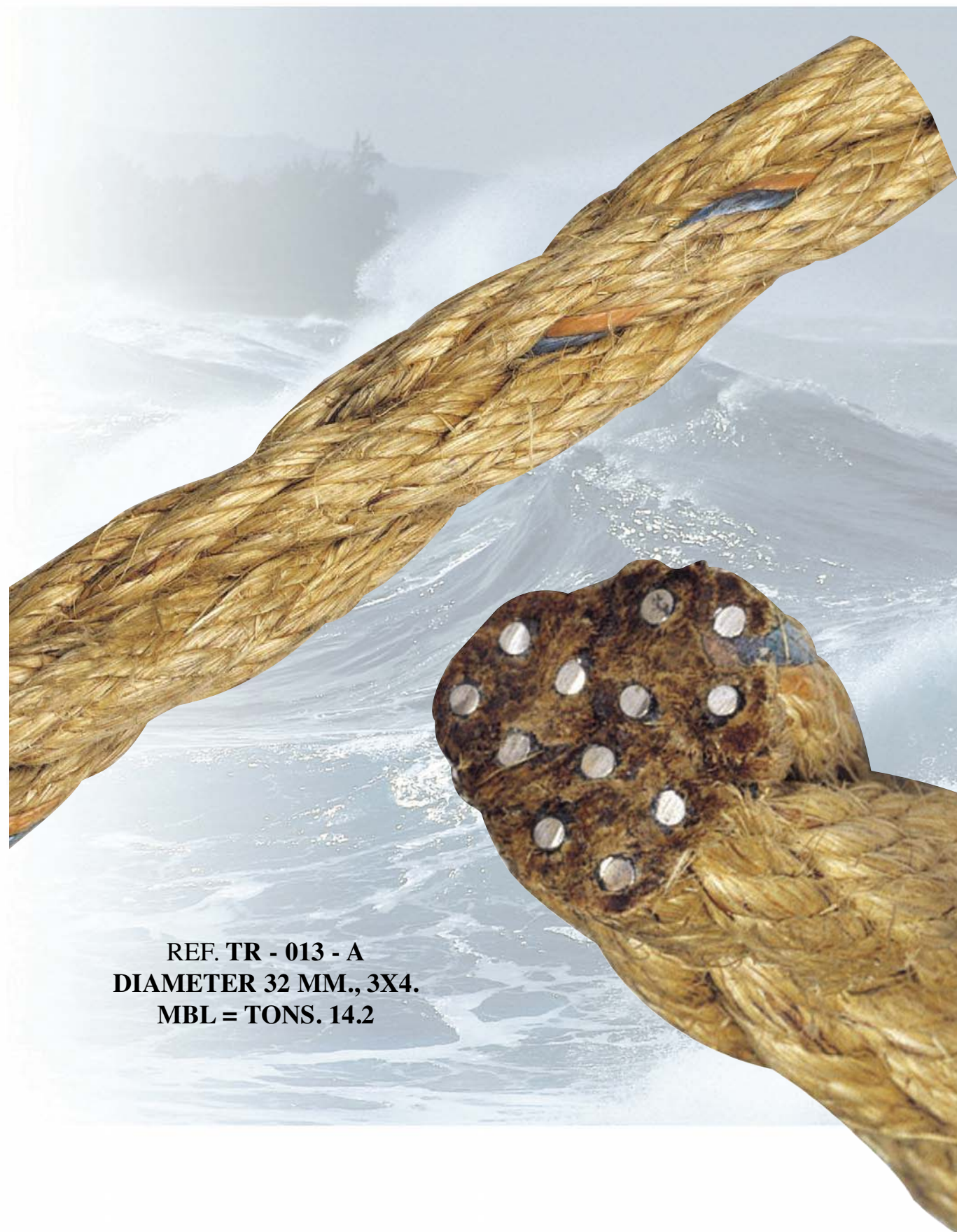
FOR GRAPNEL ROPE 6x3
41 MM. DIAMETER



MBL 23 TONS.
REF. TR - 011
WEIGHT 6 KGS.

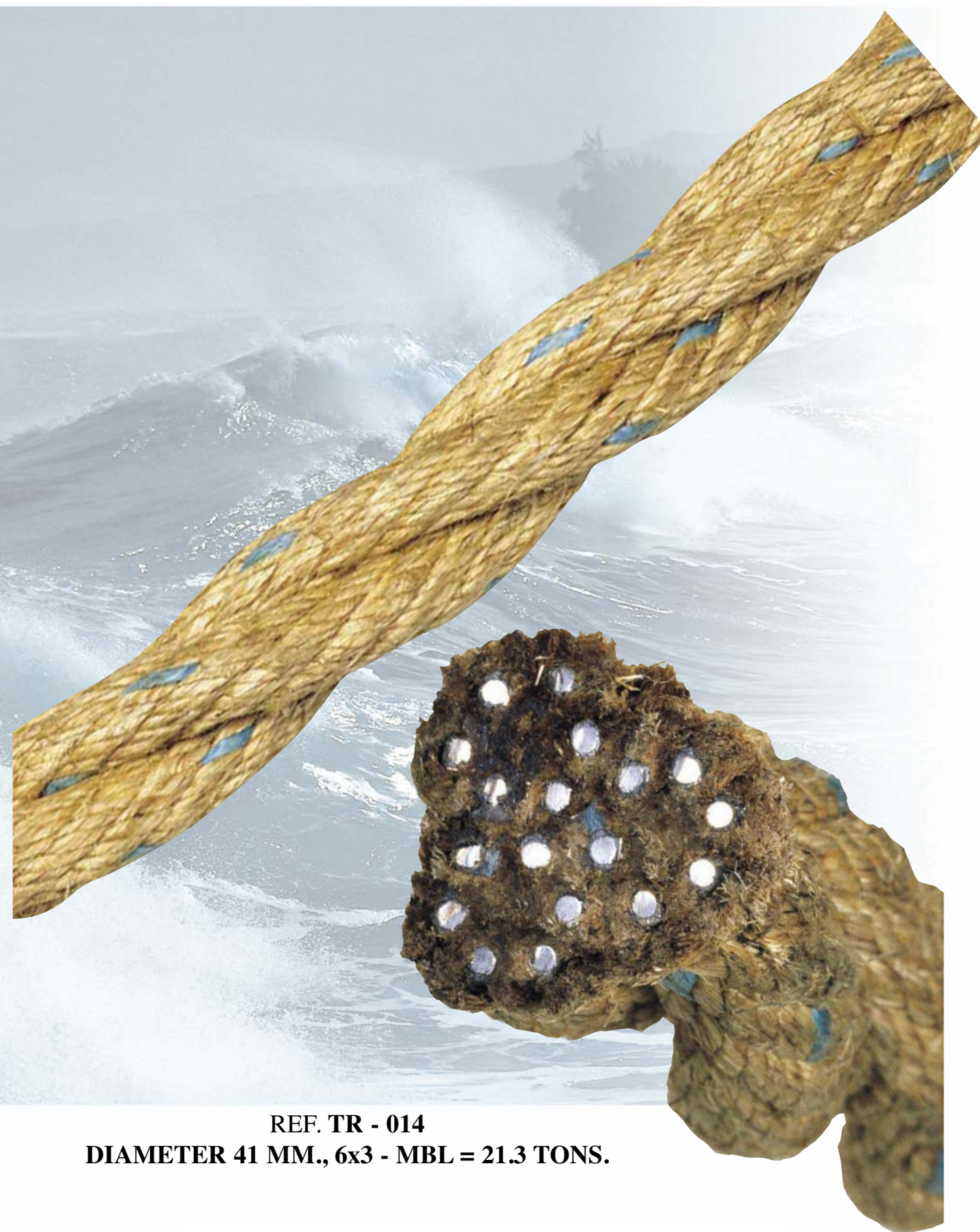


GRAPNEL ROPE
MANILA ROPE & PVC COATED WIRES



REF. TR - 013 - A
 DIAMETER 32 MM., 3X4.
 MBL = TONS. 14.2

GRAPNEL ROPES
MANILA ROPE & PVC COATED WIRES



REF. TR - 014
 DIAMETER 41 MM., 6x3 - MBL = 21.3 TONS.

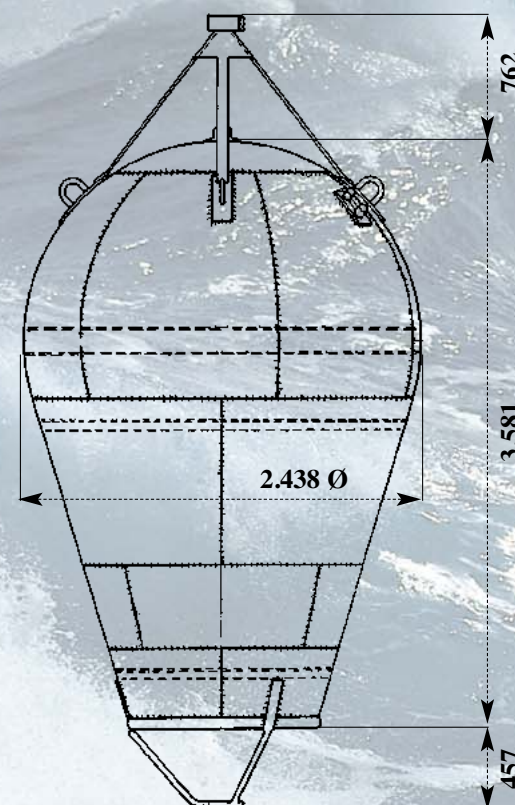
GRAPNEL ROPES MANILA ROPE & PVC COATED WIRES



REF. TR - 015
DIAMETER 53 MM., 4x6 - MBL = 27.5 TONS.

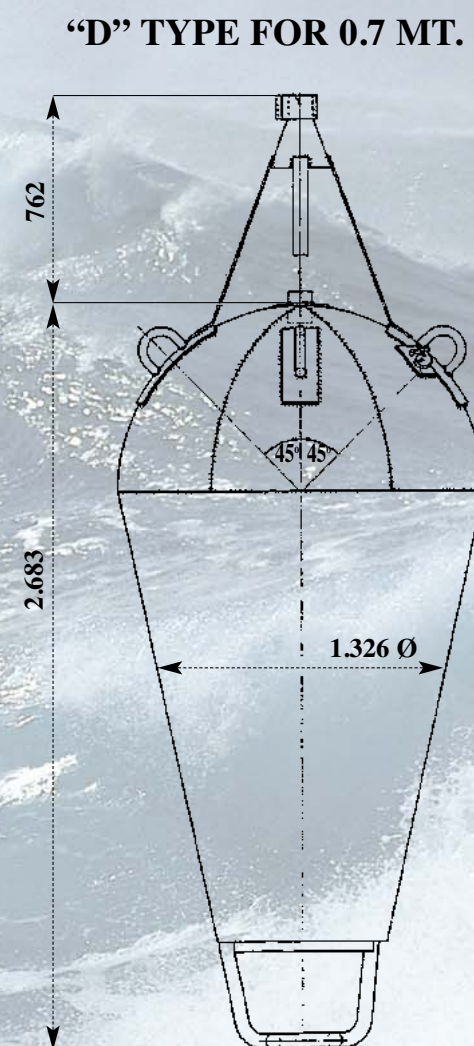
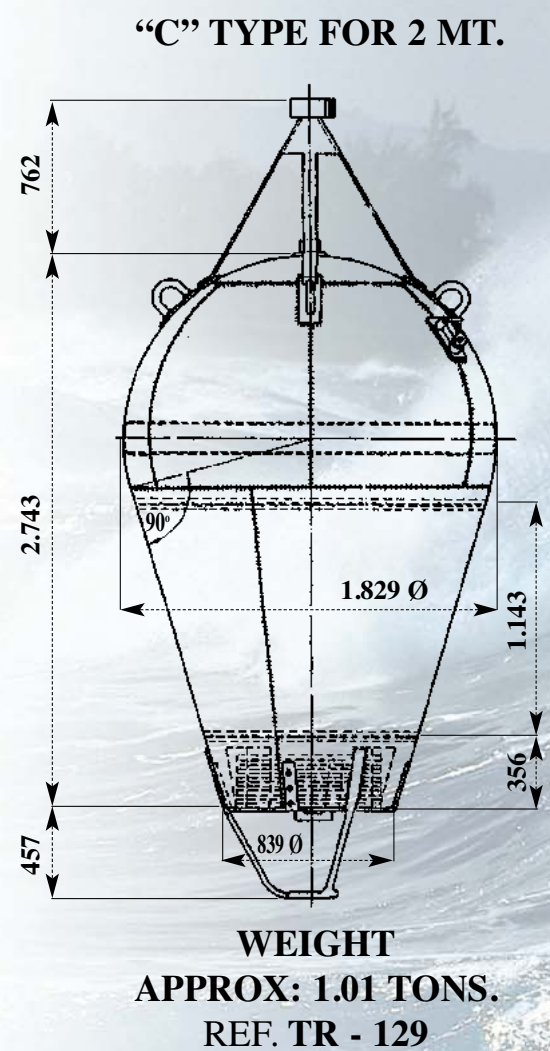
CABLE BUOY

“B” TYPE FOR 4 MT.



WEIGHT APPROX. 1.5 TONS.
REF. TR - 134





CABLE GRIPS WITH THIMBLE LINKS (CHINESE FINGERS)

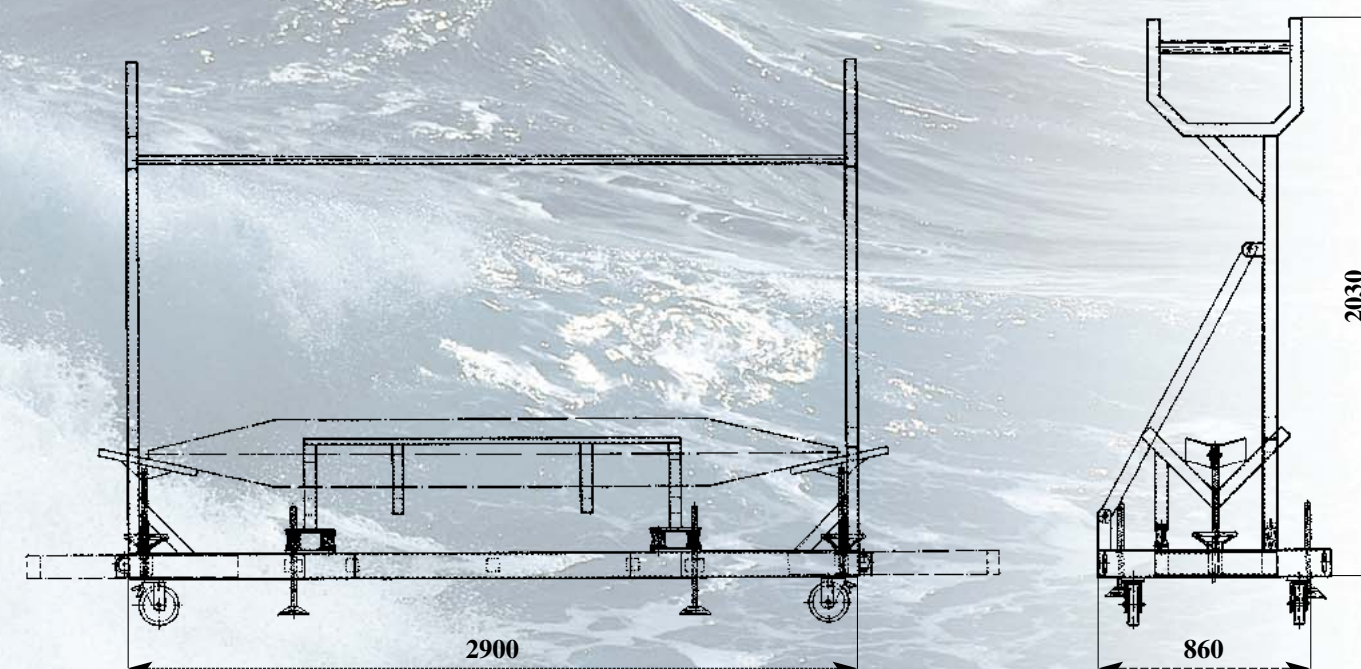
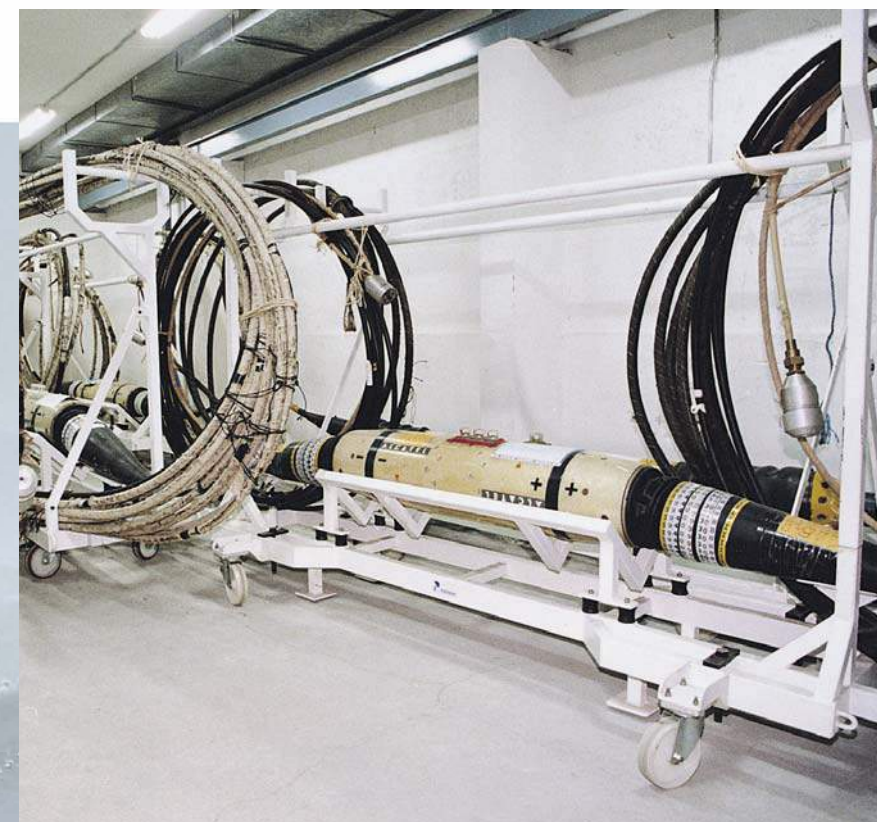
MEASUREMENTS

600x25
600x50
600x38
900x90
900x95

OTHER SIZES,
AVAILABLE UPON INQUIRY

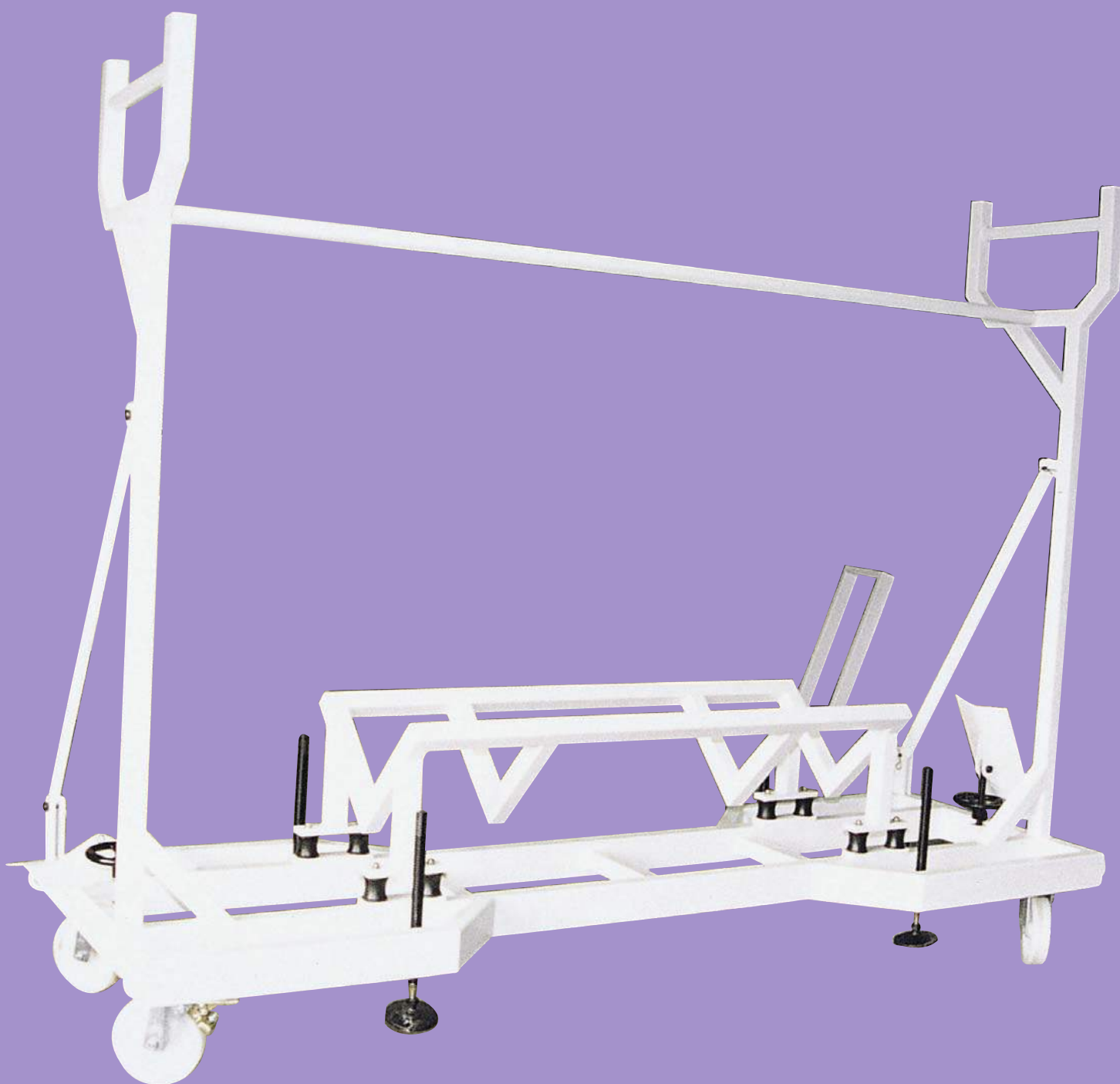


REPEATER TROLLEY 3 TONS.

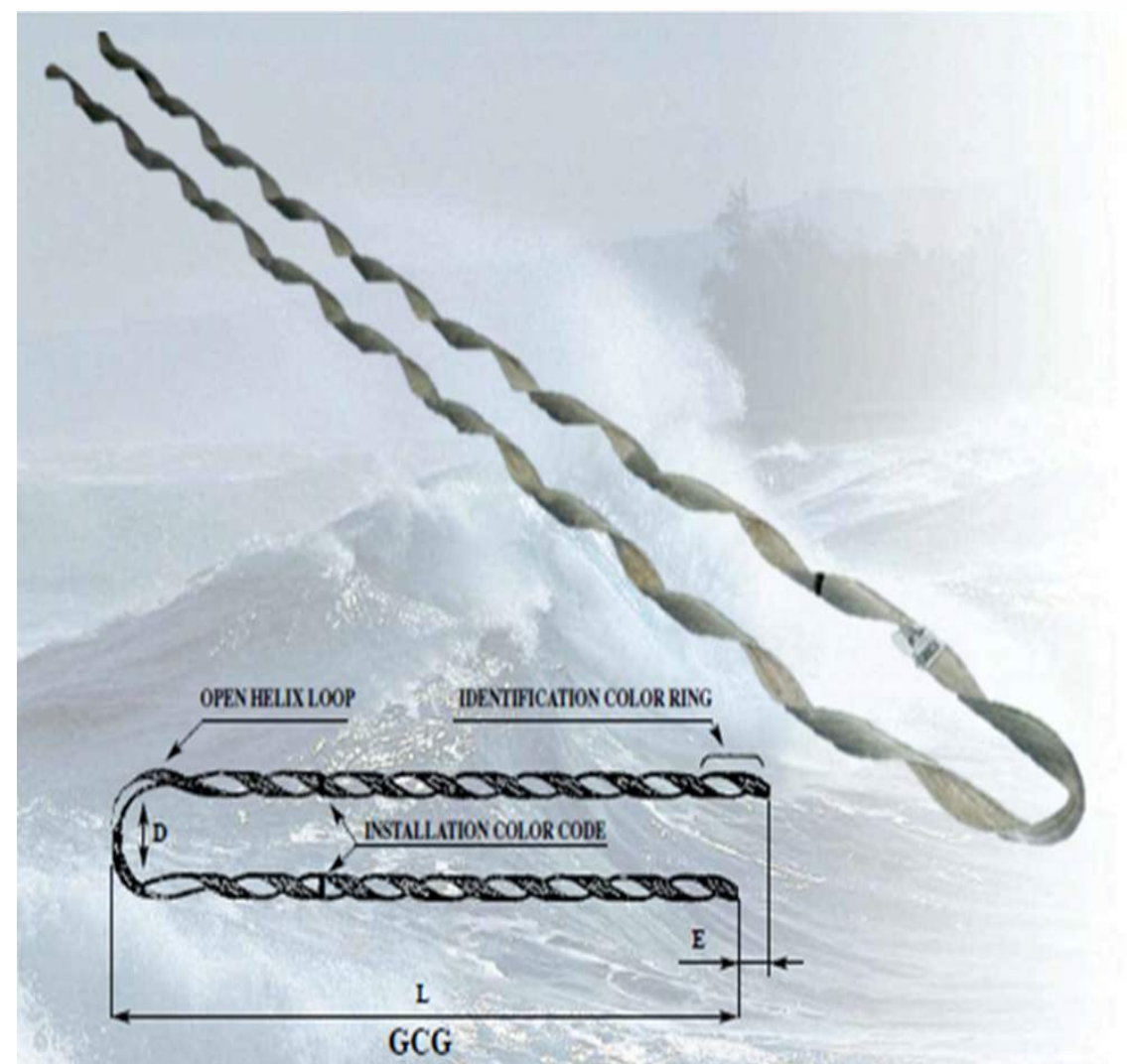


REF. TR - 018
WEIGHT 200 KGS.

REPEATER TROLLEY 3 TONS.

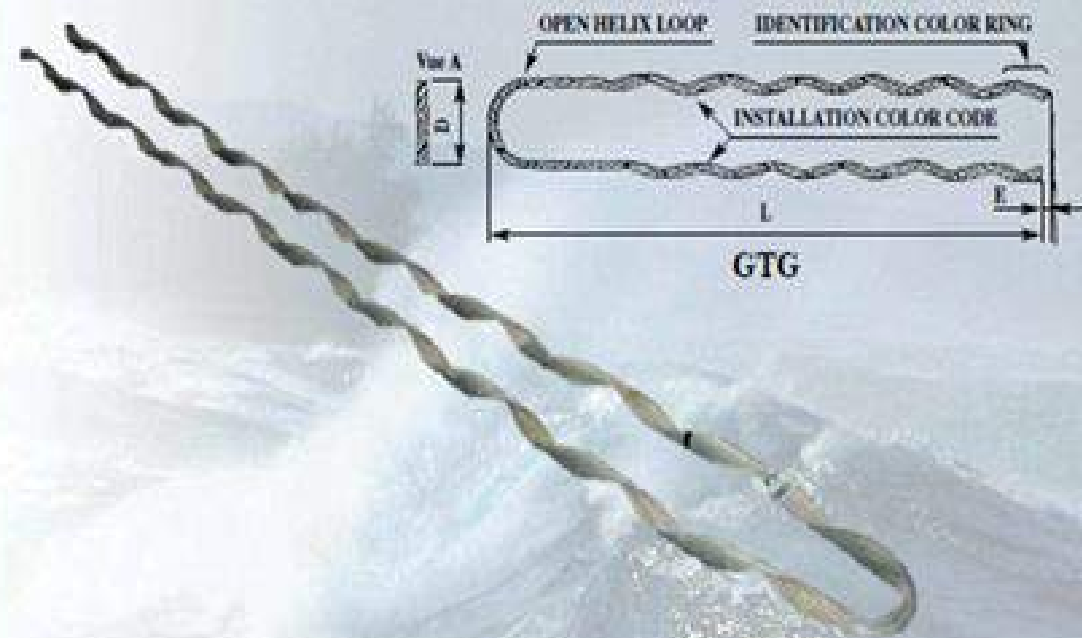


HYPERFORMED STOPPERS FOR SUBMARINE CABLES GCG



DESIGNATION	CABLE DIAMETER m.m.	WIRE DIAMETER m.m.	$L \pm 60$ m.m.	NUMBER OF WIRES	LOOP DIAMETER m.m.	$E \pm 60$ m.m.	INSTALLATION COLOUR CODE	IDENTIFICATION COLOUR RING NUMBER	FAILING LOAD LOOP (Newtons)	WEIGHT KG.
GCG 2632	26.00-32.00	4.11	3630	10	95	100	GREEN	-	305	8.230
GCG 3300	32.00-34.00	4.11	2710	10	125	100	BLACK	1 BLACK	240	6.4
GCG 3601	34.00-36.00	4.11	3070	10	155	100	BLACK	-	305	7.2
GCG 3800	36.00-38.00	4.11	2840	11	150	100	YELLOW	2 YELLOW	335	9.6
GCG 3890	38.10-40.00	4.11	3000	11	150	100	BLACK	-	335	9.9
GCG 4144	41.00-44.00	4.11	3400	15	125	100	BLACK	-	370	12.1
GCG 4570	45.00-46.00	4.11	3400	14	175	100	BLACK	2 BLACK	335	11.4
GCG 4649	46.00-49.00	4.11	3645	16	200	100	BLACK	BLACK	363	12.6
GCG 5080	48.00-51.00	4.11	3890	13	200	100	BLACK	3 BLACK	390	15.0
GCG 5255	51.20-55.00	4.11	4050	17	200	100	BLACK	-	420	17.2
GCG 5659	56.00-59.00	4.11	4650	17	200	100	BLACK	-	420	23.0
GCG 6063	60.00-63.00	4.11	5000	10	175	100	BLACK	-	450	25.1
GCG 6468	64.00-68.00	4.11	5500	22	200	100	BLACK	-	480	27.20

HYPERFORMED STOPPERS FOR SUBMARINE CABLES GTG



DESIGNATION	CABLE DIAMETER m.m.	WIRE DIAMETER m.m.	L ± 60 m.m.	NUMBER OF WIRES	LOOP DIAMETER m.m.	E ± 60 m.m.	INSTALLATION COLOUR CODE	IDENTIFICATION COLOUR RING NUMBER	FAILING LOAD LOOP (Newtons)	WEIGHT KG.
GTG 1020	10.10-10.50	3.07	1580	5	60	20	BLACK	-	120	0.950
GTG 1200	12.30-13.40	4.11	1250	5	60	-	BLACK	1 BLUE	150	1.420
GTG 1400	13.70-14.40	4.11	1190	6	100	60	BLACK	1 RED	140	1.050
GTG 1401	13.70-14.40	4.11	2050	6	100	60	BLACK	1 RED	140	1.750
GTG 1700	16.70-17.40	4.11	1425	6	100	60	BLACK	2 RED	180	2.100
GTG 1701	16.70-17.40	4.11	2470	6	100	60	BLACK	2 RED	180	3.500
GTG 1702	16.70-17.40	4.11	1650	6	100	60	BLACK	2 RED	180	2.360
GTG 1850	18.20-18.80	4.11	1800	6	100	60	BLACK	1 GREEN	180	2.570
GTG 1890	18.90-19.40	4.11	1900	7	100	60	BLACK	1 YELLOW	213	3.580
GTG 1960	19.50-20.00	4.11	1640	7	100	60	BLACK	2 GREEN	213	2.670
GTG 1961	19.50-20.00	4.11	1900	7	100	60	BLACK	2 GREEN	213	3.580
GTG 2125	21.00-25.00	4.11	2300	8	75	100	BLACK	1 YELLOW	240	4.600
GTG 2632	26.00-32.00	4.11	2670	10	95	100	BLACK	1 GREEN	256	6.050
GTG 3236	33.00-36.00	4.11	2800	10	150	100	BLACK	2 BLUE	305	6.450
GTG 3800	36.10-38.00	4.11	2800	11	125	100	BLACK	2 YELLOW	352	7.100

Ref. GTG 1020/1200, 1400 and 1401 can also be made with twisted loop

HIGH TENSILE SHACKLES “D” & BOW TYPE SQUARE HEAD



- MATERIAL: **HIGH TENSILE STEEL, QUENCHED AND TEMPERED.**
- SAFETY FACTOR: **6 TIMES S.W.L. = MINIMUM BREAKING STRENGTH.**
- FINISH: **GALVANIZED.**
- STANDARD: **U.S. FEDERAL SPECIFICATION RR-C-270.**

REF. TR - 012

SAFE WORKING LOAD metric tons.	DIA BOW D mm.	DIA PIN d mm.	INSIDE WIDTH a mm.	CHAIN TYPE C mm.	APPROX. WEIGHT EACH in kos.
2	13	16	22	43	0.34
3.25	16	19	26	51	0.63
4.75	19	22	31	59	0.95
6.5	22	25	36	73	1.55
8.5	25	28	43	85	2.30
9.5	28	32	47	90	3.24
12	32	35	51	94	4.40
13.5	35	38	57	115	6
17	38	42	60	127	7.50
25	45	50	74	149	14

HIGH TENSILE SHACKLES “D” & BOW TYPE SCREW COLLAR PIN



- MATERIAL: **BODY AND PIN HIGH TENSILE STEEL, QUENCHED AND TEMPERED.**
- SAFETY FACTOR: **6 TIMES S.W.L. = MINIMUM BREAKING STRENGTH.**
- FINISH: **GALVANIZED.**
- STANDARD: **U.S. FEDERAL SPECIFICATION RR-C-271.**

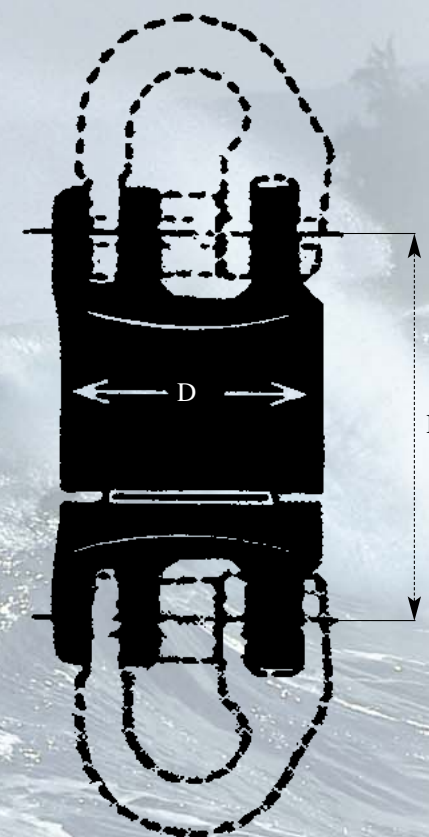
REF. TR - 013

SAFE WORKING LOAD metric tons.	DIA BOW D mm.	DIA PIN d mm.	INSIDE WIDTH a mm.	CHAIN TYPE C mm.	APPROX. WEIGHT EACH in kos. SCREW PIN
1	10	11	16	31	0.15
1.5	11	13	18	37	0.21
2	13	16	22	43	0.37
3.25	16	19	27	51	0.65
4.75	19	22	31	59	1.06
6.5	22	25	36	73	1.56
8.5	25	28	43	85	2.32
9.5	28	32	47	90	3.28
12	32	35	51	94	4.51
13.5	35	38	57	115	5.93
17	38	42	60	127	7.89
25	45	50	74	149	13.40

BALL BEARING SWIVEL TYPE SKL

**TOTALLY ENCLOSED BALLBEARING SWIVEL.
FULLY ROTATIONAL EVEN AT MAXIMUM LOAD**

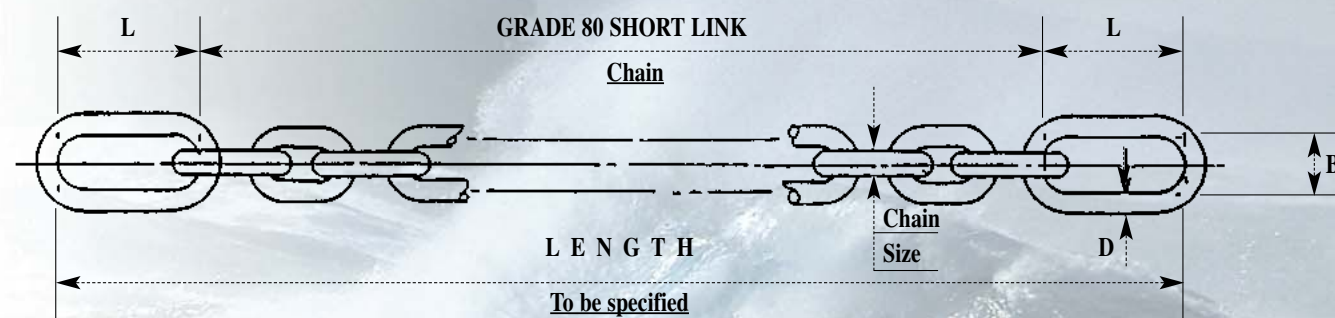
ESPECIALLY SUITABLE FOR UNDERWATER USE



* SAFETY FACTOR: **4:1.**

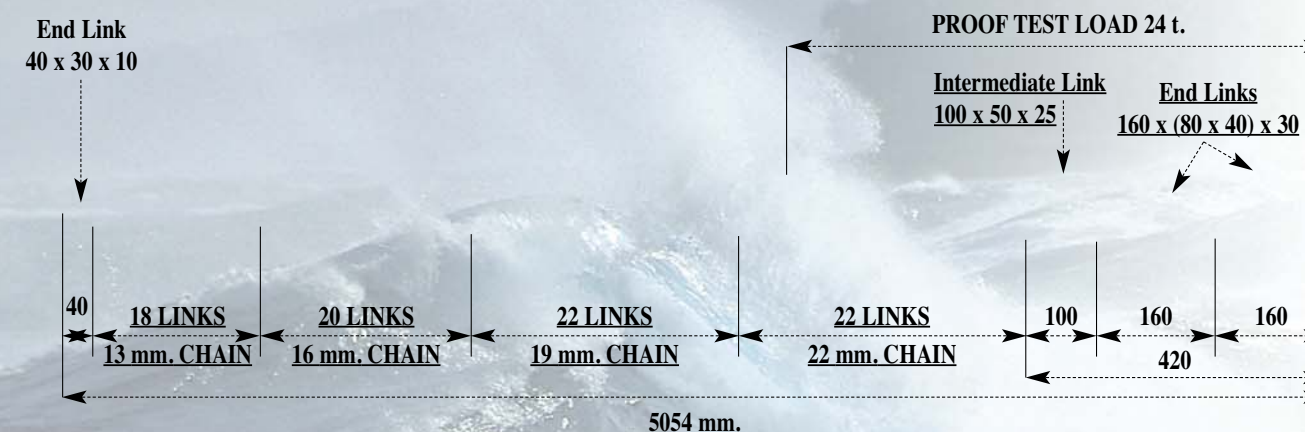
REF. TR - 020

CODE	MAX. LOAD TONNES*	FOR CHAIN SIZE MM.	DIM. IN MM.		WEIGHT APPR. KGS.
			L	D	
SKI / SKL - 7/8-8	2.0	7,8	75/75	45	0.6
SKI / SKL - 10-8	3.2	10	95/95	57	1.2
SKI / SKL - 13-8	5.4	13	118/121	73	2.1
SKI / SKL - 16-8	8.0	16	130/127	88	4.6
SKI / SKL - 18/20-8	12.5	19	152/152	104	6.4



REF. TR - 019

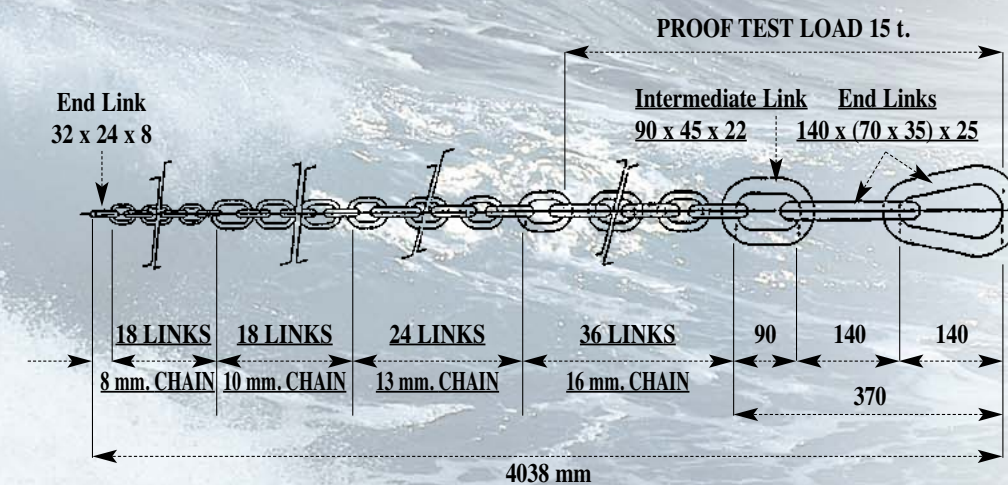
CHAIN SIZE MM.	L	B	D	SWL	PROOF LOAD
13	90	32	16	5.4 t.	10.2 t.
16	125	40	20	8.0 t.	16.0 t.
19	150	55	25	11.5 t.	23 t.
22	150	55	27	15.5 t.	31.0 t.
26	160	65	32	21.6 t.	43.2 t.
32	200	75	38	32.0 t.	64.0 t.



LARGE STOPPER S.W.L. 12 T.

REF. TR - 016

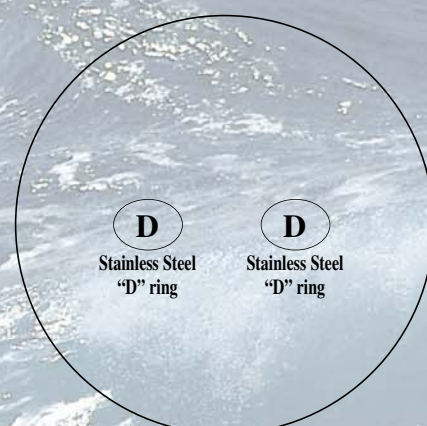
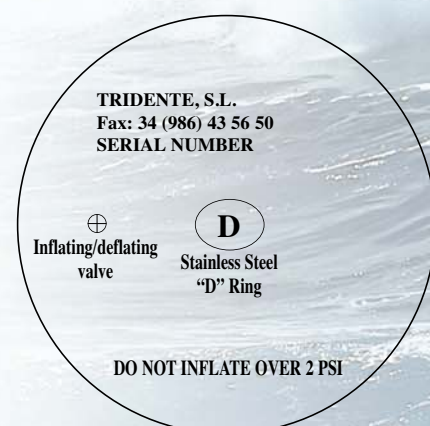
WEIGHT 45 KGS.



SMALL STOPPER S.W.L. 7.5 T.

REF. TR - 017

WEIGHT 17 KGS.



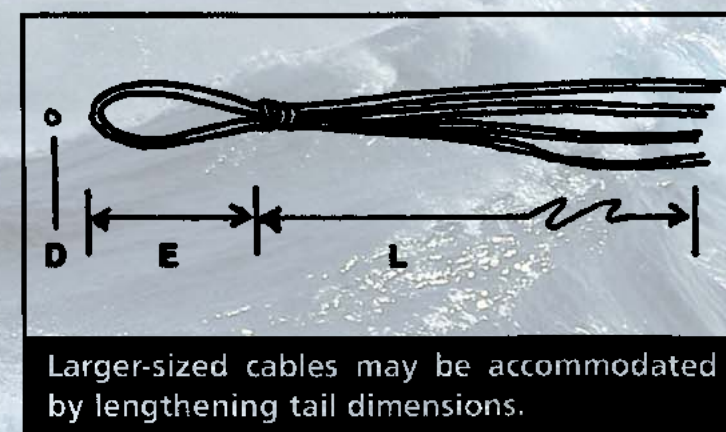
FLOATING BALLOON Electrowelded

Ø 1000 mm. diameter

300 LB / 130 KGS. BUOYANCY
Material: Nylon & Poliurethane

**Colours: Yellow
Orange**

REF. TR - 351
WEIGHT 1.1 KGS.



GRIP DATA FOR APPLICATIONS ON:

EYE DIA ("D")	TECHNORA PART NUMBER	MINIMUM CABLE DIA.	MAXIMUM CABLE DIA.	AVERAGE BREAK STRENGTH (in Kgs)	WORK LOAD (in Kgs)	TAIL LENGTH ("L")	EYE SIZE ("E")	COLOR
7/16"	TR-352	3/16"	1/2"	2.700	540	1,37	6"	RED
9/16"	TR-353	1/4"	3/4"	5.400	1.080	1,67	6"	BLUE
11/16"	TR-354	3/8"	7/8"	8.100	1.620	1,98	6"	GREEN
7/8"	TR-355	1/2"	1"	13.500	2.700	2,43	8"	ORANGE
1"	TR-356	5/8"	1-1/8"	21.600	4.320	3,00	8"	YELLOW
1-1/4"	TR-357	7/8"	1-3/4"	32.400	6.480	4,87	12"	BLACK
1-1/2"	TR-358	1-1/8"	3"	54.000	10.800	6,70	16"	RED
1-3/4"	TR-359	1-3/8"	3-1/2"	81.000	16.200	10,97	18"	BLUE
2"	TR-360	2"	4"	130.500	26.100	17,67	18"	GREEN

If the stopper is to be applied permanently to a cable or temporarily to a slippery surface, then the throat of the eye and the tail ends should be securely seized to the cable to prevent movement. It is not necessary to use a clove hitch in addition to seizing to secure the stopper tails. Additional integrity is achieved by serving the stopper wraps with appropriate twine or tape.

How to make a clove hitch

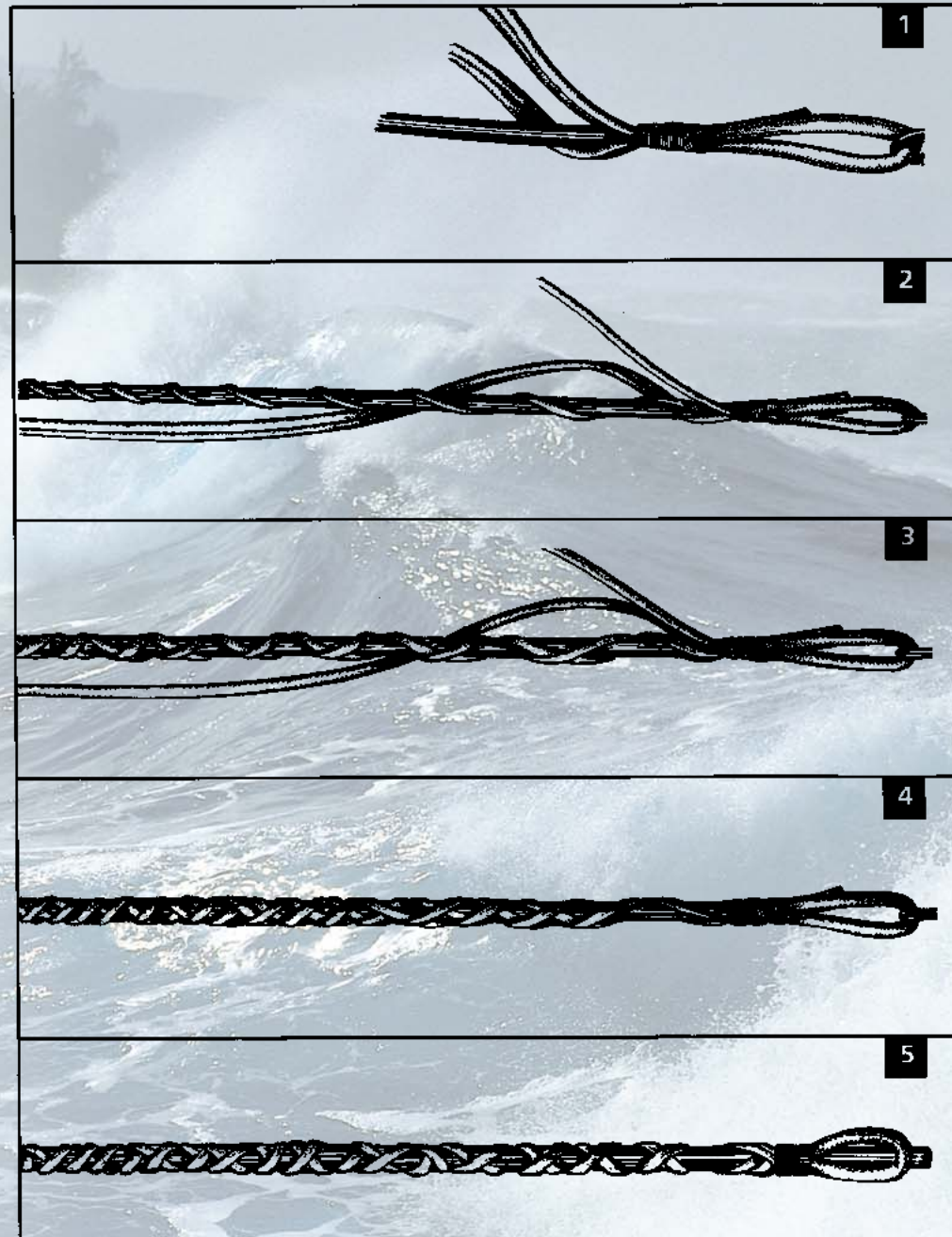


Wrap the standing cable ten times with the first stopper tail. Begin with a wrap length approximately equal to 12 cable diameters and decrease this length by one cable diameter with each wrap and secure the end with a clove hitch.

Wrap the second stopper tail in the opposite direction duplicating the wrap lengths of the first. End with a clove hitch on the standing cable just beyond the first hitch.

Wrap the third and fourth stopper tails in the same manner as the first and second. Begin with a wrap length of 18 cable diameters then duplicate the wrap lengths of the first and second tails. End with clove hitches on the standing cable just beyond previous hitches.

It is not necessary to follow these wrap lengths in an exact manner. The object is to achieve a gradually decreasing helix angle starting at 10 to 15 degrees and ending at more than 50 degrees with a minimum of ten wraps.





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