

ISOMAT SPARS

ALUMINIUM MASTS

FRACTIONAL DECIMAL · METRIC EQUIVALENTS

To convert inches to millimeters, multiply the inches by 25.4

To convert millimeters to inches, divide the millimeters by 25.4

(As established by the American Standards Association)

inches fractional	decimal	inches fractional	decimal	m/m	inches										
	1/64 — .0156		33/64 — .5156	1	0.0384	51	2.0079	101	3.9764	151	5.9449	201	7.9134	251	9.8819
1/32	— .0312	17/32	— .5312	2	0.0787	52	2.0472	102	4.0157	152	5/9843	202	7.9527	252	9.9212
			35/64 — .5469	3	0.1181	53	2.0866	103	4.0551	153	6.0236	203	7.9921	253	9.9606
	3/64 — .0469			4	0.1575	54	2.1260	104	4.0945	154	6.0630	204	8.0315	254	10.0000
1/16	— .0625	9/16	— .5625	5	0.1969	55	2.1654	105	4.1339	155	6.1024	205	8.0709	255	10.0394
	5/64 — .0781		37/64 — .5781	6	0.2362	56	2.2047	106	4.1732	156	6.1417	206	8.1102	256	10.0787
	3/32 — .0938			7	0.2756	57	2.2441	107	4.2126	157	6.1811	207	8.1496	257	10.1181
	7/64 — .1094		19/32 — .5938	8	0.3150	58	2.2835	108	4.2520	158	6.2205	208	8.1890	258	10.1575
			39/64 — .6094	9	0.3543	59	2.3228	109	4.2913	159	6.2598	209	8.2283	259	10.1968
				10	0.3937	60	2.3622	110	4.3307	160	6.2992	210	8.2677	260	10.2362
1/8	— .1250			11	0.4331	61	2.4016	111	4.3701	161	6.3386	211	8.3071	261	10.2756
	9/64 — .1406			12	0.4724	62	2.4409	112	4.4094	162	6.3780	212	8.3464	262	10.3149
	5/32 — .1562			13	0.5118	63	2.4803	113	4.4488	163	6.4173	213	8.3858	263	10.3543
	11/64 — .1719			14	0.5512	64	2.5197	114	4.4882	164	6.4567	214	8.4252	264	10.3937
3/16	— .1875			15	0.5906	65	2.5591	115	4.5276	165	6.4961	215	8.4646	265	10.4331
				16	0.6299	66	2.5984	116	4.5669	166	6.5354	216	8.5039	266	10.4724
	43/64 — .6719			17	0.6693	67	2.6378	117	4.6063	167	6.5748	217	8.5433	267	10.5118
				18	0.7087	68	2.6772	118	4.6457	168	6.6142	218	8.5827	268	10.5512
	45/64 — .7031			19	0.7480	69	2.7165	119	4.6850	169	6.6535	219	8.6220	269	10.5905
	13/64 — .2031			20	0.7874	70	2.7559	120	4.7244	170	6.6929	220	8.6614	270	10.6299
7/32	— .2188			21	0.8268	71	2.7953	121	4.7638	171	6.7323	221	8.7008	271	10.6693
	15/64 — .2344			22	0.8661	72	2.8346	122	4.8031	172	6.7717	222	8.7401	272	10.7086
1/4	— .2500			23	0.9055	73	2.8740	123	4.8425	173	6.8110	223	8.7795	273	10.7480
	17/64 — .2656			24	0.9449	74	2.9134	124	4.8819	174	6.8504	224	8.8189	274	10.7874
				25	0.9843	75	2.9528	125	4.9213	175	6.8898	225	8.8583	275	10.8268
				26	1.0236	76	2.9921	126	4.9606	176	6.9291	226	8.8976	276	10.8661
				27	1.0603	77	3.0315	127	5.0000	177	6.9685	227	8.9370	277	10.9055
	9/32 — .2812			28	1.1024	78	3.0709	128	5.0394	178	7.0079	228	8.9764	278	10.9449
	19/64 — .2969			29	1.1417	79	3.1102	129	5.0787	179	7.0472	229	9.0157	279	10.9842
5/16	— .3125			30	1.1811	80	3.1496	130	5.1181	180	7.0866	230	9.0551	280	11.0236
				31	1.2205	81	3.1890	131	5.1575	181	7.1260	231	9.0945	281	11.0630
	21/64 — .3281			32	1.2598	82	3.2283	132	5.1969	182	7.1654	232	9.1338	282	11.1023
	11/32 — .3438			33	1.2992	83	3.2677	133	5.2362	183	7.2047	233	9.1732	283	11.1417
	23/64 — .3594			34	1.3386	84	3.3071	134	5.2756	184	7.2441	234	9.2126	284	11.1811
3/8	— .3750			35	1.3780	85	3.3465	135	5.3150	185	7.2835	235	9.2520	285	11.2205
	25/64 — .3906			36	1.4173	86	3.3858	136	5.3543	186	7.3228	236	9.2913	286	11.2598
				37	1.4567	87	3.4252	137	5.3937	187	7.3622	237	9.3307	287	11.2992
				38	1.4961	88	3.4646	138	5.4331	188	7.4016	238	9.3701	288	11.3386
				39	1.5354	89	3.5039	139	5.4724	189	7.4409	239	9.4094	289	11.3779
	13/32 — .4062			40	1.5748	90	3.5433	140	5.5118	190	7.4803	240	9.4488	290	11.4173
	27/64 — .4219			41	1.6142	91	3.5827	141	5.5512	191	7.5197	241	9.4882	291	11.4567
	7/16 — .4375			42	1.6535	92	3.6220	142	5.5906	192	7.5591	242	9.5275	292	11.4960
	29/64 — .4531			43	1.6929	93	3.6614	143	5.6299	193	7.5984	243	9.5669	293	11.5354
	15/32 — .4688			44	1.7323	94	3.7008	144	5.6693	194	7.6378	244	9.6063	294	11.5748
	31/64 — .4844			45	1.7717	95	3.7402	145	5.7087	195	7.6772	245	9.6457	295	11.6142
	1/2 — .5000			46	1.8110	96	3.7795	146	5.7480	196	7.7165	246	9.6850	296	11.6535
				47	1.8504	97	3.8189	147	5.7874	197	7.7559	247	9.7244	297	11.6929
				48	1.8898	98	3.8583	148	5.8268	198	7.7953	248	9.7638	298	11.7323
				49	1.9291	99	3.8976	149	5.8661	199	7.8346	249	9.8031	299	11.7716
				50	1.9685	100	3.9370	150	5.9055	200	7.8740	250	9.8425	300	11.8110

IMPORTANT

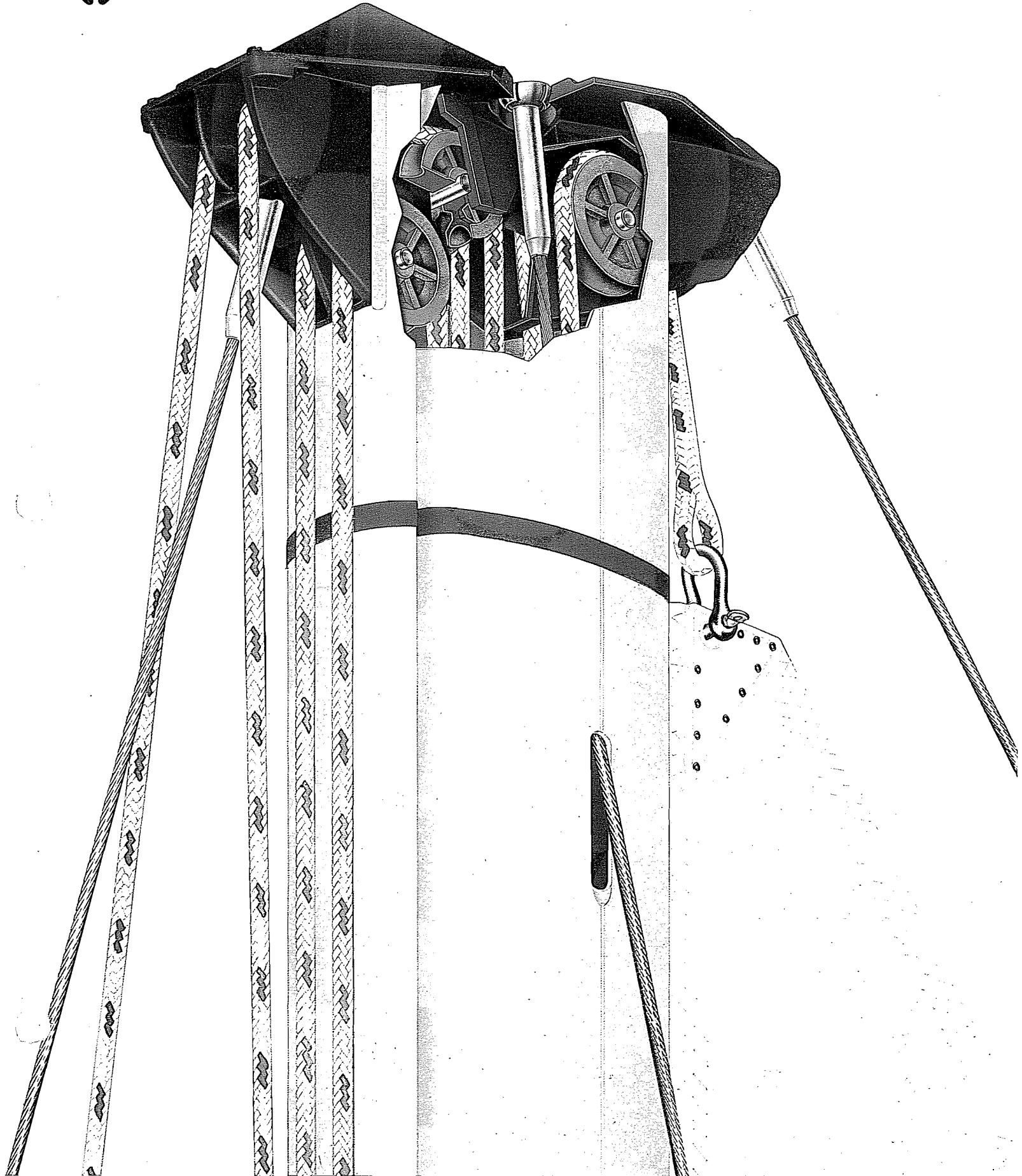
All dimensions in US + GB system are in decimal inches and dimensions in metric system are in millimeters.

IMPORTANT

Toutes les dimensions en système US + GB sont en pouces décimales et les dimensions en système métrique sont en millimètres.

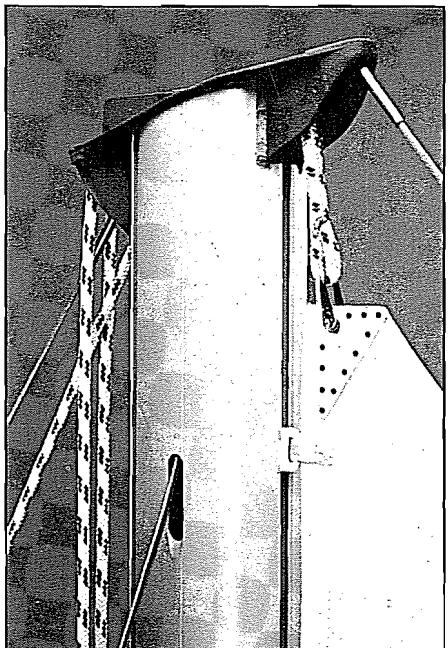


On a new tack in mast manufacturing

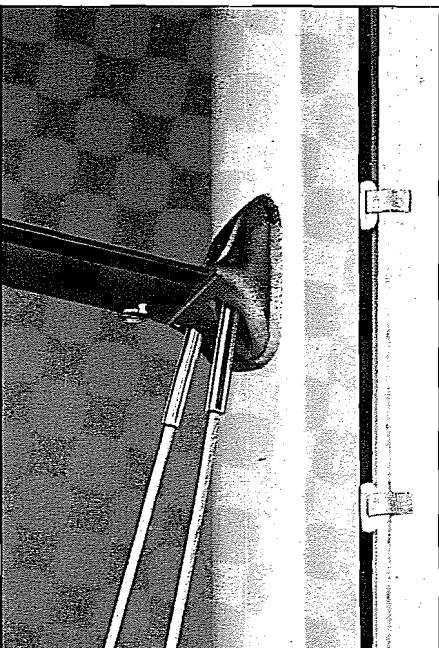




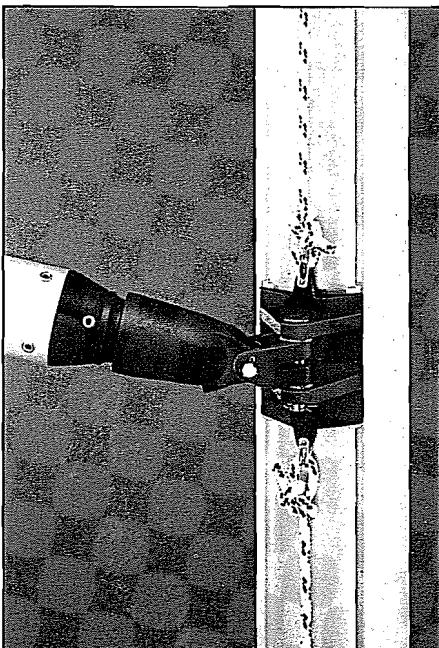
From fair-weather sailors to top-class international competitors, yachtmen worldwide know ISOMAT tapered aluminum yacht masts. This best-selling spar from France, now manufactured also in the United States, welds original, elegant design to advanced robotics and data-processing techniques for manufacturing. The result: a technologically-sophisticated mast impossible to manufacture by traditional methods and with the customizing options of old-fashioned craftsmanship.



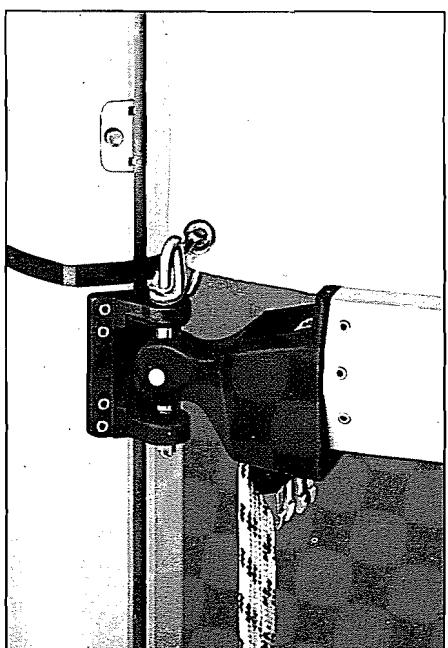
Masthead



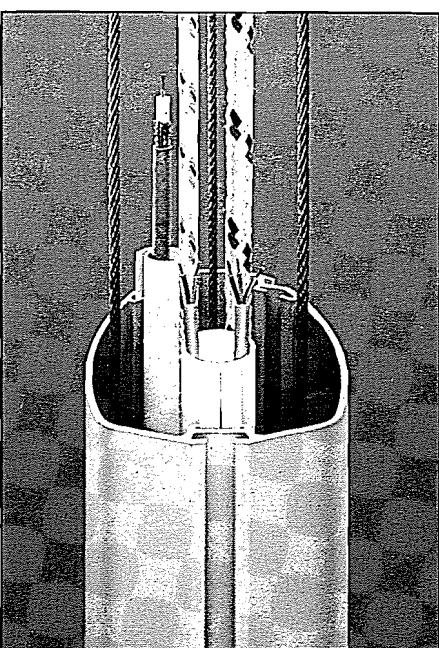
Spreader



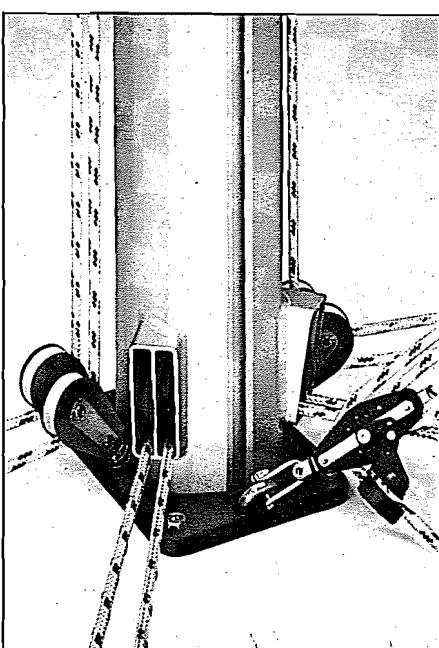
Spinnaker pole



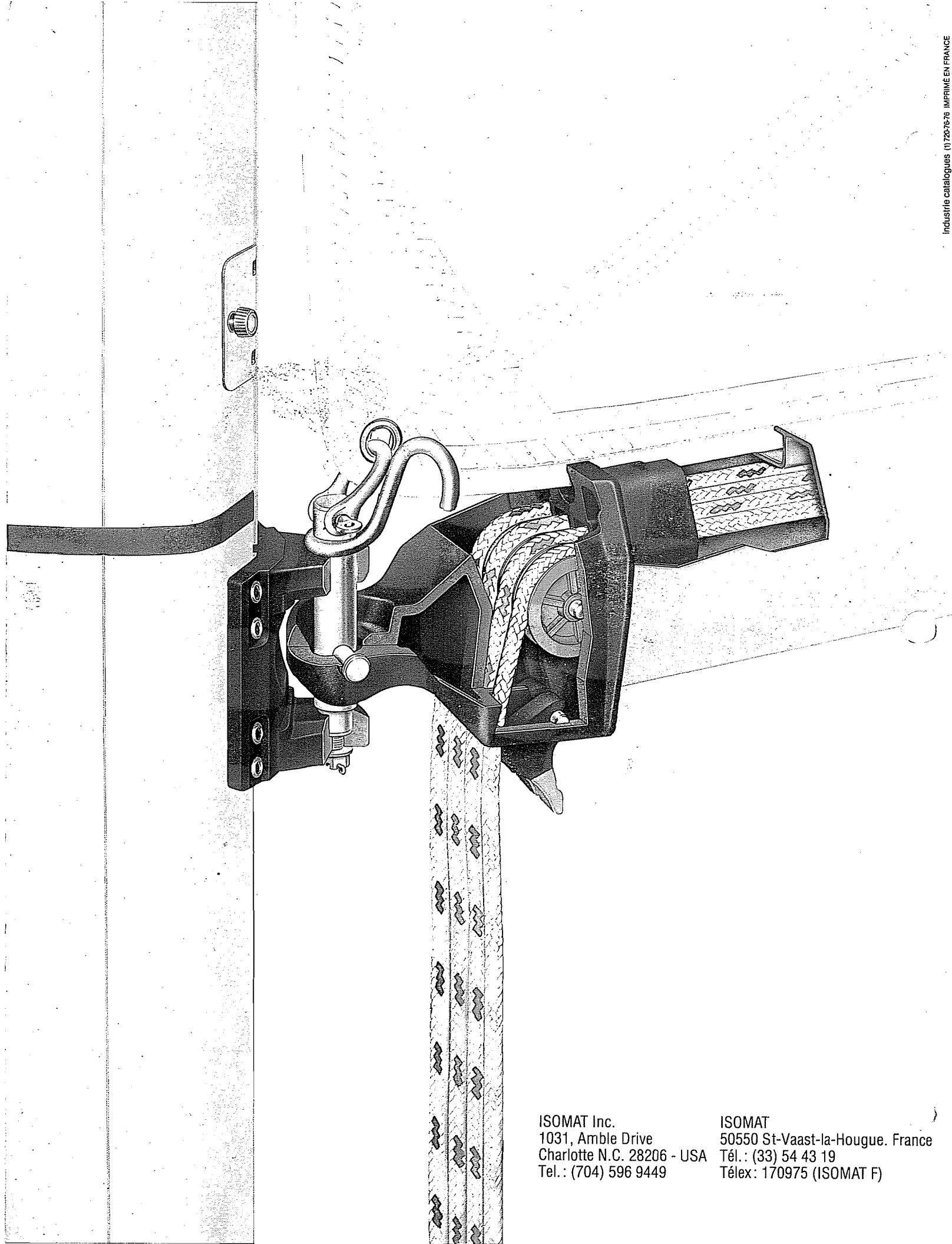
Gooseneck



Inside the mast

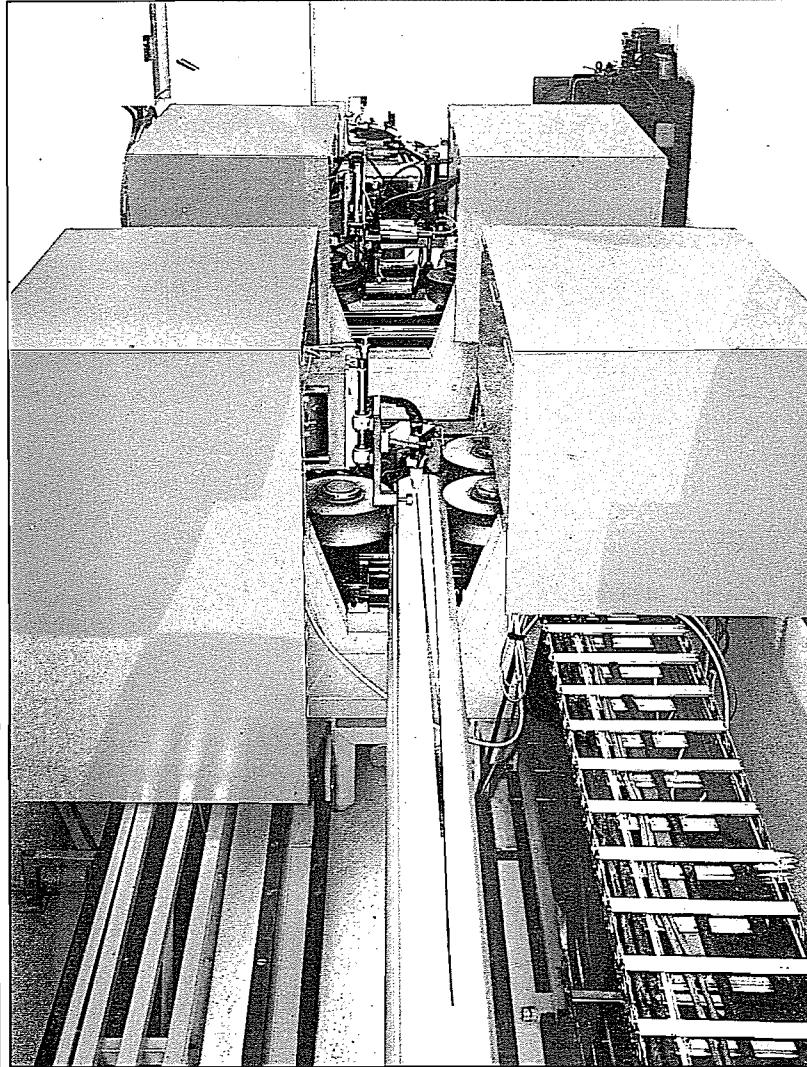
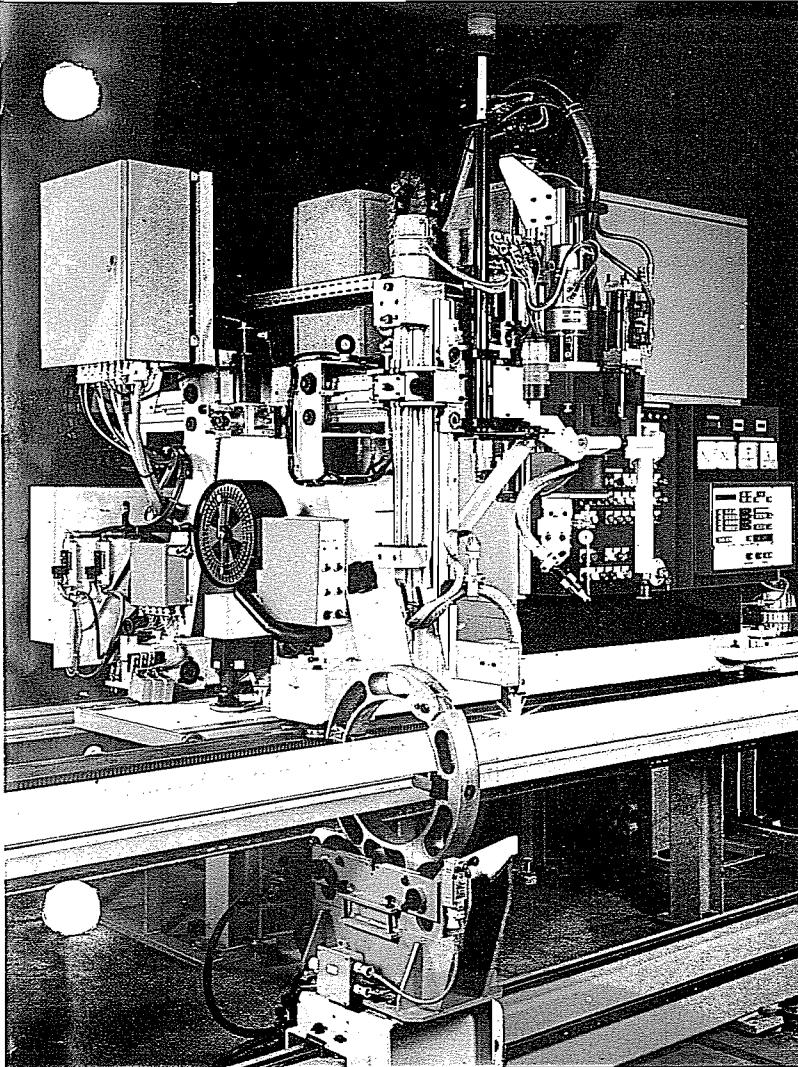


Mast step



ISOMAT Inc.
1031, Amble Drive
Charlotte N.C. 28206 - USA
Tel.: (704) 596 9449

ISOMAT
50550 St-Vaast-la-Hougue. France
Tél.: (33) 54 43 19
Télex: 170975 (ISOMAT F)



Unic manufacturing flexibility

ISOMAT has taken a new tack in mast manufacturing: by designing its own equipment, ISOMAT has developed a uniquely powerful and flexible production capacity. Those produced in small or large series are machined using computer assisted manufacturing techniques; customized spars are produced by robotics methods featuring automated reading of individually-tailored blueprints.

Original fittings design

ISOMAT uses advanced moulding techniques to mass-produce its own range of lightweight alloy mast fittings. These fittings are designed to provide both a high degree of reliability and ease in assembly.

ISOMAT custom-designed masts, too, incorporate these fittings, and that contributes to their high quality/price ratio.

Tapered anodized mast

ISOMAT manufactures only tapered masts. They are made in a single piece, anodized after the fittings are welded on. The continuous anodizing coating leaves no seams where corrosion can take hold.

Personalized after-sales service

Every ISOMAT mast, mass-produced or customized, carries an identification number. This number corresponds to a detailed description of the spar's characteristics and fittings which is stored in ISOMAT's central computer. The mast identification number is all ISOMAT needs to have to provide personalized after-sales service.

MAST SECTIONS - DATA AND ENGINEERING SPECIFICATIONS

SECTIONS	METRIQUE SPECIFICATIONS						ENGLISH SPECIFICATIONS				
	DIMENSIONS (mm)	INERTIE XX' CM ⁴	INERTIE YY' CM ⁴	POIDS kg/m	LONGUEUR (m)		DIMENSIONS (in)	INERTIA XX' in ⁴	INERTIA YY' in ⁴	WEIGHT Lb/Ft	LENGTH (Ft)
NG 28	95 x 132	115	215	3,0	Tous les profils peuvent être fournis anodisés en longueur de 8 mètres à 19,5 mètres		3,75 x 5,2	2,76	5,16	2,01	
NG 31	104 x 159	172	364	3,4			4,1 x 6,25	4,13	8,74	2,28	
NG 37	115 x 170	235	450	4,1			4,52 x 6,69	5,64	10,81	2,75	
NG 46	120 x 180	315	680	4,6			4,72 x 7,08	7,56	16,23	3,11	
NG 51	125 x 190	405	830	5,1			4,92 x 7,48	9,73	19,94	3,45	
NG 60	137 x 205	530	1100	6,0			5,39 x 8,07	12,73	26,42	4,06	
NG 70	145 x 220	665	1430	7,1			5,70 x 8,66	15,97	34,35	4,81	
NG 80	155 x 230	830	1780	8,0			6,1 x 9,05	19,94	42,76	5,42	
NG 86	172 x 250	1050	2150	8,6			6,77 x 9,84	25,22	51,65	5,82	
NG 105	182 x 283	1655	3629	10,5			7,16 x 11,14	39,78	87,23	7,11	

All profiles can be supplied anodized by length
of 26' to 64'

Utiliser pour bateaux de 26 à 50 pieds.
Available for boats 26 to 50 feet.

Anodisation : silver or black.

Anodisation : incolore ou noir.





TABLE OF CONTENTS TABLE DES MATIERES

	PAGE
Extrusion chart	1
Mast heads	3
Mast head 7/8	8
Luff groove	10
Electric conduit	11
T. Tang	12
Fractional rig	13
Staysail box	16
Navigation light	17
Spreader (Base, Tips)	18
Rings and eye	20
Sheave boxes	21
Winch pad	22
Cleat	23
Sheave box welded	24
Boom vang attachment	25
Mast step	26
Mast collar	27
Jumper strut	29
Triatic stay	30
Gooseneck	31
Spinnaker gear	33
Boom gear	35
Isomat fitting for standing rigging	38
Miscellaneous (sailmaker sheet, outhaul sheet, etc)	42
Isomat representatives	44
Profil	
Têtes de mât	
Tête de mât 7/8	
Ralingue	
Tube électrique	
Ancrage à Té	
Capelage 7/8	
Boîte trinquette	
Feux de navigation	
Barre de flèche	
Pontet et anneaux	
Boîte à réas	
Platine de winch	
Taquet	
Boîte réa soudé	
Prise hale-bas	
Pied de mât	
Passage d'étambrai	
Guignol	
Maroquin	
Vit de mullet	
Equipement de spi	
Equipement de bôme	
Pièce Isomat pour gréement dormant	
Divers	
Fiche voilier, palan etc....	
Agents Isomat	

CATALOGUE INSTRUCTIONS

- In order to use this catalogue and define the pieces you need, you must determine the profiles « Mast - Boom - Spipole, etc » to which these pieces are connected.
To do this it is sufficient to measure (or determine) the outer dimensions (or inertia) of the profile concerned and consult pages 1 and 2 to find the reference of the profile.
- Certain profiles can take different pieces for the same function, so it is essential to check carefully the piece required (or the piece chosen).
e.g. : for profile NG51 it is possible to fix mast head NG I or NG II.
- In placing the order, please specify the type of boat, the existing (or determined) profile, the reference of the pieces as well as the description even abbreviated.

UTILISATION DU CATALOGUE

- Pour utiliser ce catalogue et définir les pièces dont vous avez besoin, il est nécessaire de déterminer les profils de « Mât - Bôme - Tangon, etc » auxquels ces pièces se rapportent.
Pour cela, il suffit de mesurer (ou déterminer) les cotes extérieures (ou inerties) du profil concerné et de se renvoyer aux pages 1 et 2 pour connaître la référence de ce profil.
- Certains profils peuvent admettre des types de pièces différents pour une même fonction, il est donc indispensable de bien vérifier la pièce requise (ou l'échantillonage choisi)
Ex. : sur le profil NG51 il y a la possibilité de monter la tête NG I ou NG II.
- Pour passer la commande, veuillez nous préciser le type du bateau, le profil trouvé (ou déterminé), la référence de la pièce ainsi que sa désignation même abrégée.

SPAR SECTIONS - DATA AND ENGINEERING SPECIFICATIONS

		METRIQUE SPECIFICATIONS			ENGLISH SPECIFICATIONS			
SECTION		DIMENSIONS (mm)	POIDS kg/m	Long de Profil Standard (M)	DIMENSIONS (in)	Weight LB/FT	Standard Profil length (Ft)	
BOOM SECTIONS	NG I	NB 16	71,8 x 89,7	1,6	7,5	2,82 x 3,53	1,08	25
		NB 26	89 x 100	2,6	8	3,50 x 3,93	1,76	26,6
	NG II	NB 32	110 x 128	3,2	9	4,33 x 5,00	2,16	30
		NB 40	110 x 150	4,0	9	4,33 x 5,90	2,71	30
	NG III	NB 55	130 x 180	5,5	6	5,11 x 7,00	3,72	20
TUBE SECTIONS	O	T 50	Ø 50	0,8	6	Ø 1,96	0,54	20
	O	T 60	Ø 60	0,98	7	Ø 2,36	0,66	23,3
	O	T 70	Ø 70	1,43	8,5	Ø 2,75	0,96	28,3
	O	T 80	Ø 80	1,64	12	Ø 3,14	1,11	40
	O	T 100	Ø 100	1,72	7	Ø 3,93	1,16	23,3
	O	T 120	Ø 120	2,52	7	Ø 4,72	1,70	23,3
SPREADER SECTIONS								
		BF 3	30 x 74	1,2	6	1,18 x 2,91	0,81	20
		BF 4	35 x 105	1,8	6	1,37 x 4,13	1,21	20
		BF 5	44 x 154,5	2,8	6	1,79 x 6,08	1,89	20

Anodisation : silver or black.
Anodisation : incolore ou noir.





MAST HEAD CHART

1. MAST HEAD NG I / TETE DE MAT NG I

— Usable possibilities/Possibilités d'utilisation

Halyards Drisses	Genoa I Genois I	Genoa II Genois II	Spi I Spi I	Spi II Spi II	Main sail Grand voile	Top lift boom Balancine bôme
INTERIOR	●	●	●	●	●	●
EXTERIOR	●				●	●
INT/EXT	INT		INT		EXT	EXT
INT/EXT	INT	EXT	INT		INT	EXT

* In this case use 2 spacing rings with pin, the whole, positioned in the rear channel groove of the mast head.

* Dans ce cas, utiliser 2 entretoises avec axe, le tout positionné dans la rainure arrière de la tête.

— Standard equipment/Equipement standard

GENOAS : 2 sheaves Ø 2,36" — Spinnaker : 2 sheaves Ø 1,96" + Spacing rings

GENOIS : 2 réas Ø 60 — Spinnaker : 2 réas Ø 50 + Entretoises

MAIN SAIL + TOP. LIFT BOOM : 2 sheaves Ø 1,96" - Except profil NG51 : 2 sheaves Ø 2,36"

GRAND VOILE + BALANCINE BOME : 2 réas Ø 50 - Sauf profil NG51 : 2 réas Ø 60

— Position of sheaves/Position des réas

It is indispensable to position the sheaves of main sail and topping lift boom in choosing one of these channel grooves to have the back of the sheave groove slightly outside the rear side of the profile.

Il est indispensable de positionner les réas de grand voile et balancine bôme en choisissant une des rainures de façon à avoir le fond de la gorge du réa légèrement en dehors de la face arrière du profil.

2. MAST HEAD NG II / TETE DE MAT NG II

— Usable possibilities/Possibilités d'utilisation

Halyards Drisses	Genoa I Genois I	Genoa II Genois II	Spi I Spi I	Spi II Spi II	Main sail Grand voile	Top lift boom Balancine bôme
INTERIOR	●	●	●	●	●	●
EXT/INT	EXT		INT	INT ¹	EXT	EXT 2
EXT/INT	EXT	INT	INT	INT	INT	EXT

1 Can be used for Genoa II
Peut être utilisé en Genois II

2 Fixation on the triatic pin
Fixation sur axe maroquin

— Standard equipment/Equipement standard

GENOA : 2 sheaves Ø 3,34"/GENOIS : 2 réas Ø 85

SPINNAKER : 2 sheaves Ø 3,34" / SPINNAKER : 2 réas Ø 85

MAIN SAIL + TOP LIFT BOOM : 2 sheaves Ø 3,34"

GRAND VOILE + BALANCINE BOME : 2 réas Ø 85

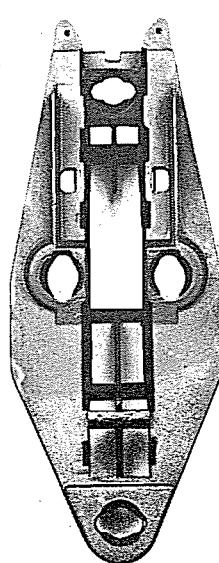
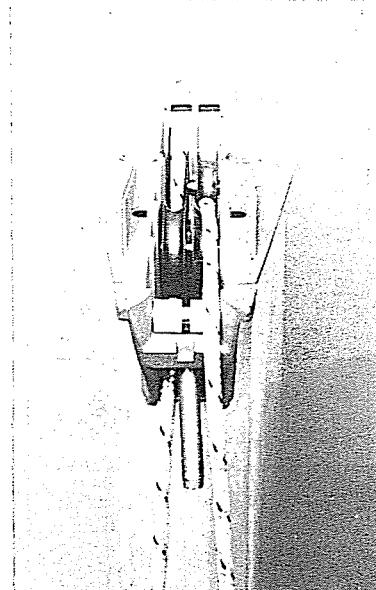
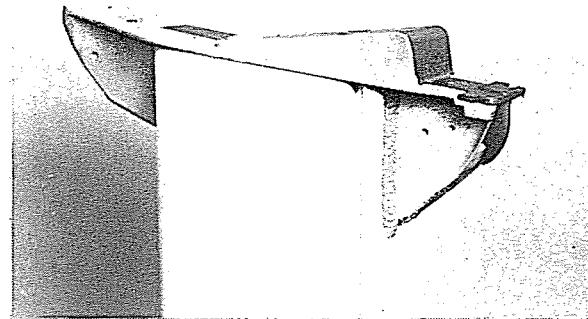


MAST HEAD NG I

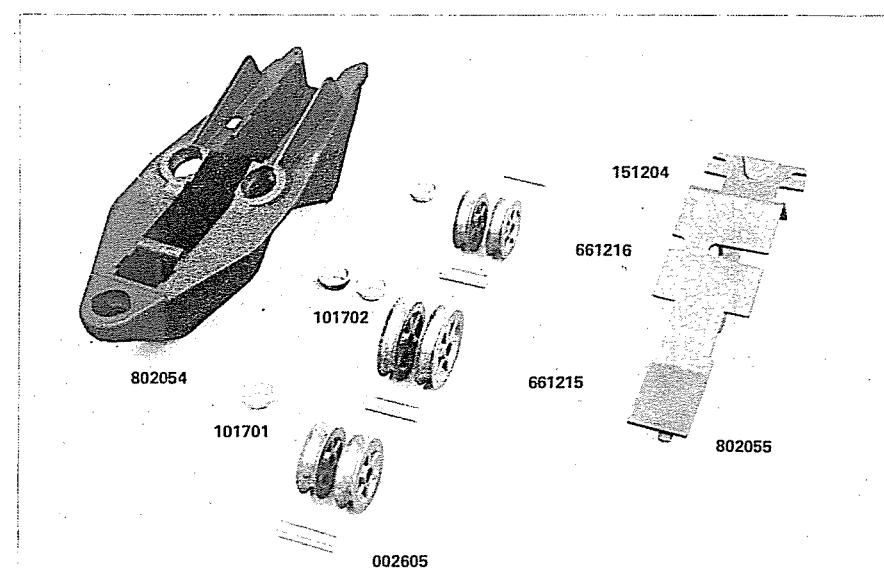
TETE DE MAT NG I

Available for profile NG 28 to NG 51

Pour profil NG 28 à NG 51



**802054 Mast head body NG I
Corps de tête NG I**



	Qty
802055. Mast head cover NG I <i>Chapeau de tête NG I</i> 1
921207. Screw TCB Ø 0,15 lg 0,78 <i>Vis TCB Ø 4 lg 20</i> 2
002605 Straight Pin Ø 0,39 lg 1,61 <i>Axe droit Ø 10 lg 41</i> 4
661216 Sheaves Ø 1,96 x 0,57 <i>Réas de Ø 50 x 14,5</i> 4
661215 Sheaves Ø 2,36 x 0,57 <i>Réas de Ø 60 x 14,5</i> 2
151204 Spacing Ring Ø 0,7 x 0,59 <i>Entretoise Ø 18 x 15</i> 2

NOTA :

* STANDING RIGGING :

Ø 5/16" cable maxi

GRÉEMENT DORMANT :

Ø 8 câble maxi

RUNNING RIGGING :

Ø 1/2" rope maxi and Ø 3/16" cable
maxi (Genoa - Main sail)

GRÉEMENT COURANT :

Ø 12 textile maxi et Ø 5 câble maxi
(Genois, Grand voile)

* See page 38 for Data of terminals and cupels
Voir page 38 pour spécification des embouts et coupelles

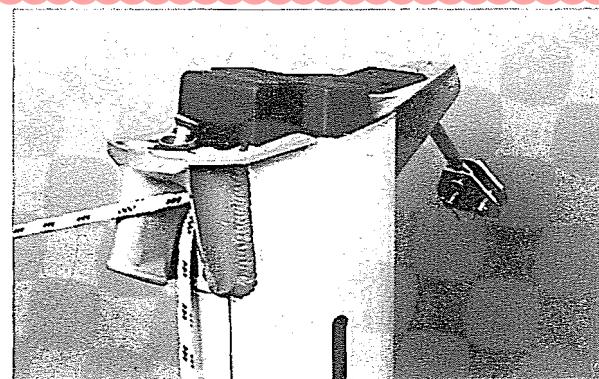


MAST HEAD NG II

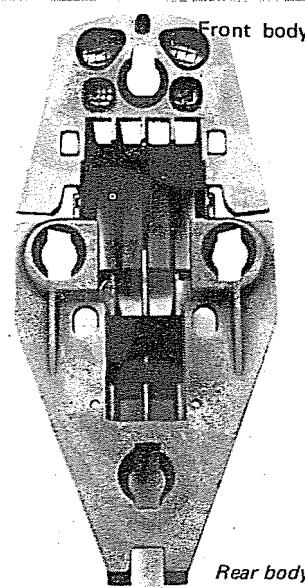
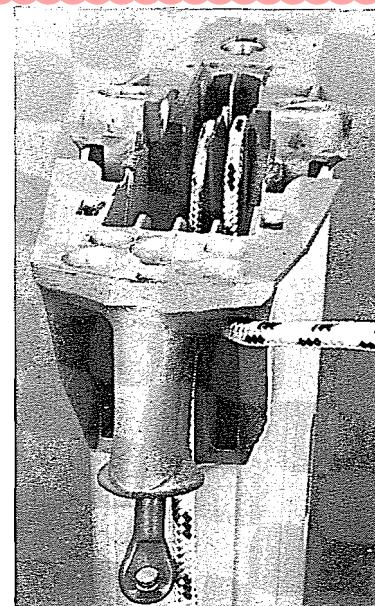
TETE DE MAT NG II

Available for Profile NG 51 to NG 105

Pour Profil NG 51 à NG 105



General view
Vue générale



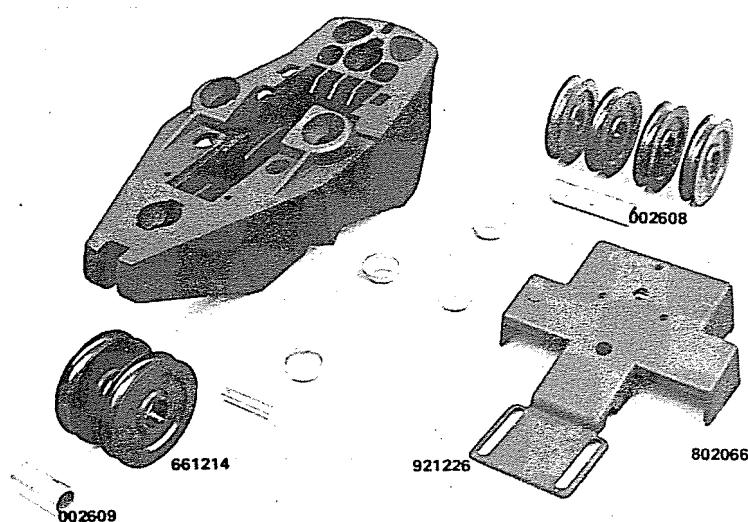
Mast head body NG II
Tête de mât NG II

These 2 parts are separable and they have 3 positions.
Ces 2 parties sont séparables et ont 3 positions.

802065 Rear part
Partie AR

802064 Front part
Partie AV

	Qty
802066 Mast head cover NG II Chapeau tête de mât NG II	1
921226 Screw TCB Ø 0,31 x 0,62 Vis TCB Ø 8 x 16	2
002609 Tubing pin Ø 0,85 x 3,20 Axe creu AV Ø 21,6 x 81,5	1
002608 Tubing pin Ø 0,85 x 1,81 Axe creu AR Ø 21,6 x 46	1
661214 Sheave Ø 3,34 x 0,62 Réas Ø 85 x 16	6



NOTA :

* STANDING RIGGING : Ø 7/16" cable maxi
GRÉEMENT DORMANT : Ø 12 câble maxi

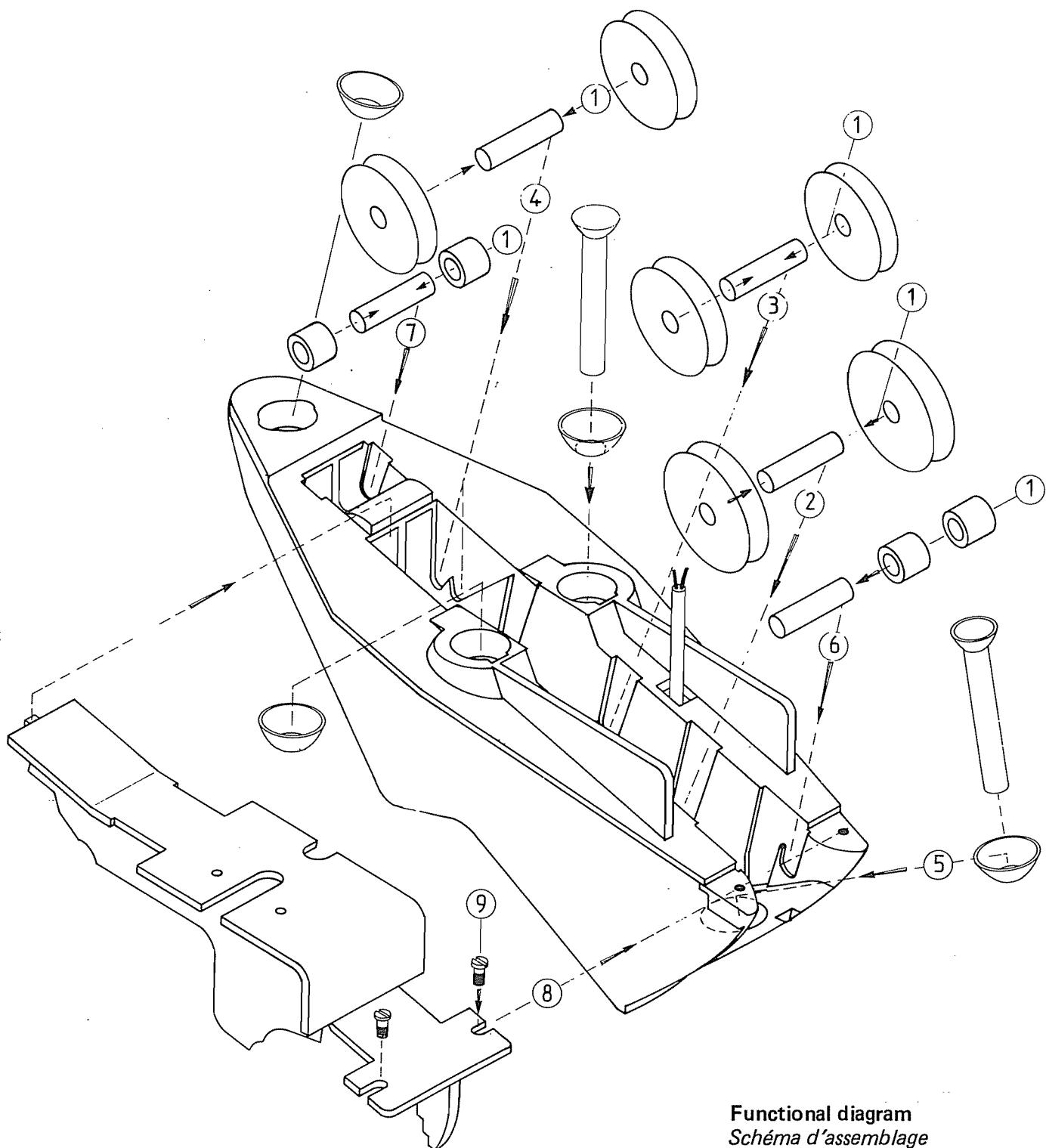
RUNNING RIGGING : Ø 9/16" rope maxi and Ø 1/4" cable maxi
GRÉEMENT COURANT : Ø 14 textile maxi et Ø 6 câble maxi

* See page 38 for Data of terminals and cupels
Voir page 38 pour spécification des embouts et coupelles



MAST HEAD NGI

TÊTE DE MAT NGI

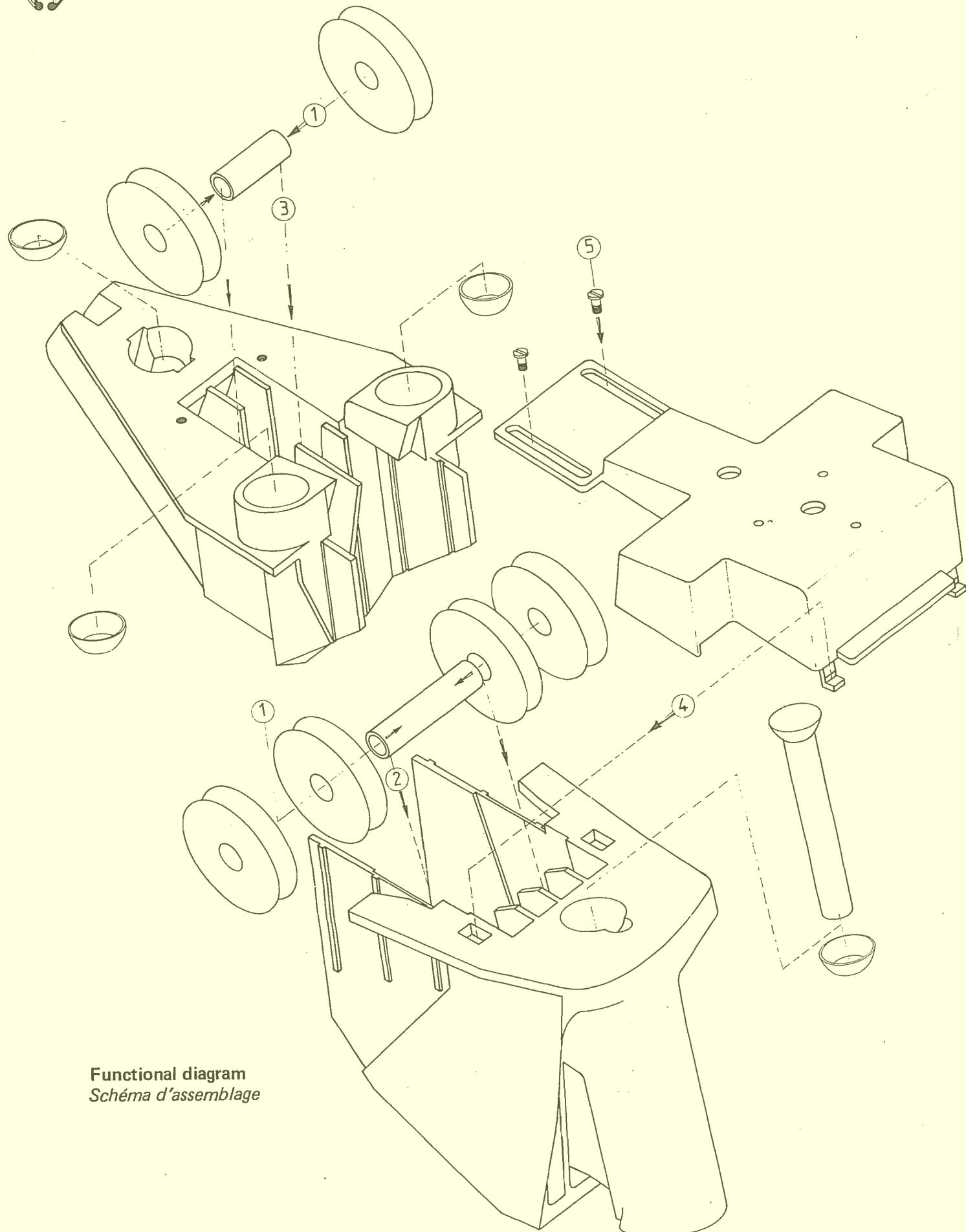


Functional diagram
Schéma d'assemblage



MAST HEAD NGII

TÊTE DE MAT NGII



Functional diagram
Schéma d'assemblage

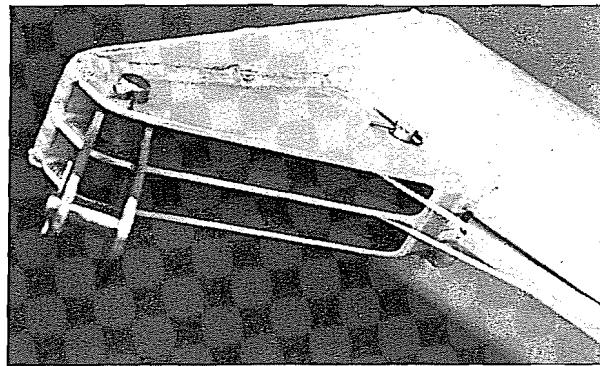


MAST HEAD 7/8 NG II

TETE DE MAT 7/8 NG II

Available for Profile NG 51 to NG 80

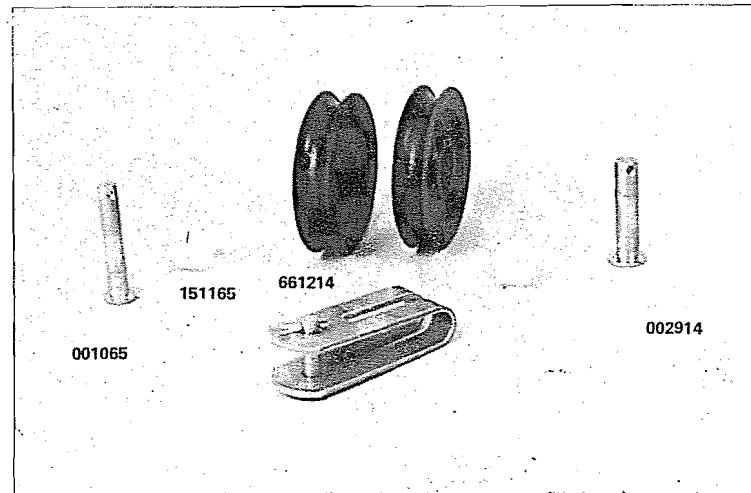
Pour profil de NG 51 à NG 80



802079

Mast Head 7/8 NG II

Tête de mât 7/8 NG II



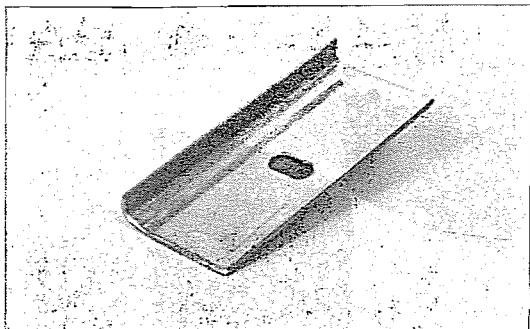
151165	Spacing ring for sheave Ø 3,34 <i>Bague pour réas de Ø 85</i>	204101	Toggle for 7/8 Mast Head NGII <i>Cardan pour Tête de Mât 7/8 NGII</i>
661214	Sheaves 3,34 x 0,62 <i>Réas 85 x 16</i>	204102	for pin Ø 0,31 <i>pour axe Ø 8</i>
001068	Clevis pin Ø 0,39 lg 2,28 <i>Axe percé Ø 10 lg 58</i>	204103	for pin Ø 0,39 <i>pour axe Ø 10</i>
001027	Clevis pin 0,47 x 2,28 <i>Axe percé 12 x 58</i>	204107	for pin Ø 0,47 <i>pour axe Ø 12</i>
			for pin Ø 0,55 <i>pour axe Ø 14</i>



CLAM FEEDER AND LUFF GROOVE

GUIDE D'ENTREE ET RALINGUE

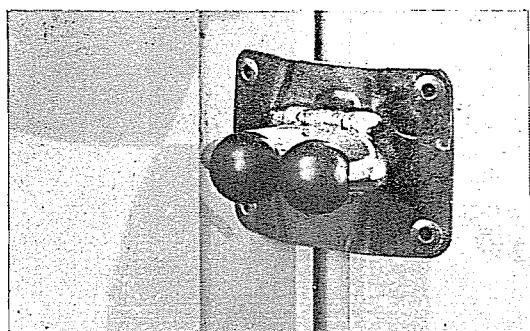
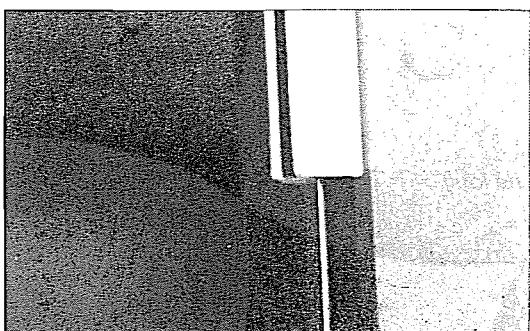
Used for sail with slider
Utilisé pour voile à coulisseau



- 157006 **Closing plate NG I**
Plaque fermeture NG I
- 157007 **Closing plate NG II**
Plaque fermeture NG II

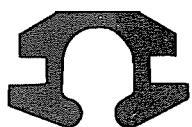
Butterfly screw
Vis papillon 6 x 12

Used for sail without slider
Utilisé pour voile sans coulisseau

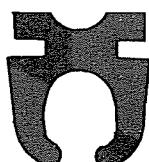


LUFF GROOVE / RALINGUE

- 261035 **Pre-feeder**
Guide d'entrée



5592391 **For profile NG 60 to 86**
Pour profil NG 60 à 86



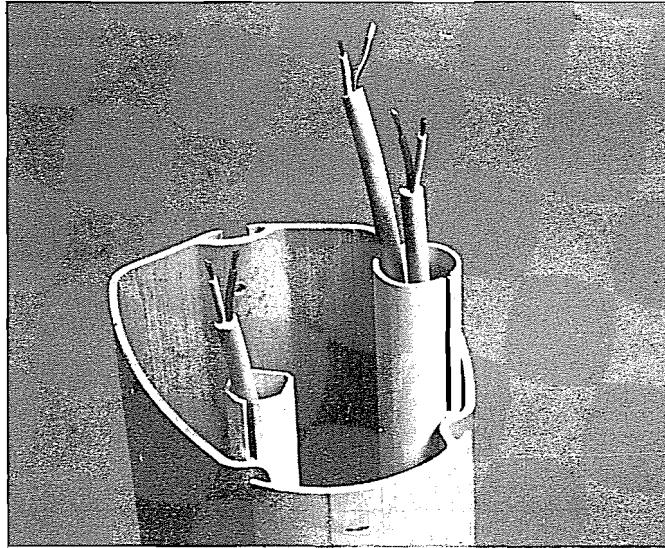
5592381 **For profile NG 28 to 51**
Pour profil NG 28 à 51



ELECTRIC CONDUIT

CONDUIT DE FIL ELECTRIQUE

NG I



Available for NG 28 to NG 51
Utilisé du NG 28 au NG 51

- 2 conduits maxi per profile
- 2 conduits maxi par profil



261017

Conduit Ø 0,94 int
Ø 24 int

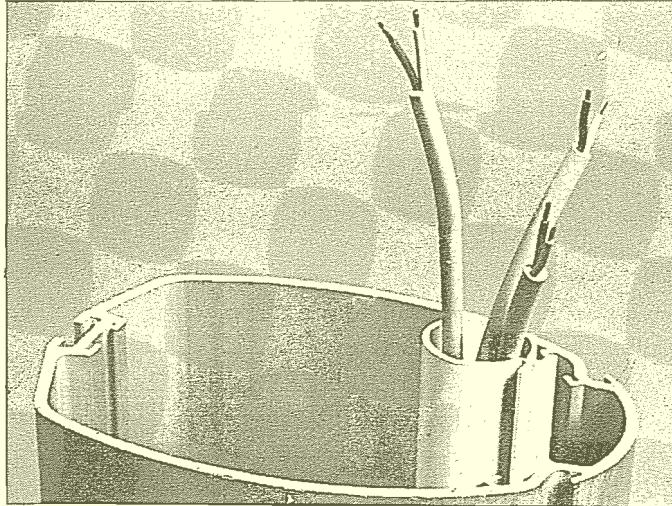


261024

Conduit Ø 0,62 int
Ø 16 int

Conduit available in 30' long
Conduit disponible en 10 m de long

NG II



Available for NG 60 to NG 105
Utilisé du NG 60 au NG 105

- 3 conduits maxi per profile
- 3 conduits maxi par profil



201023

Conduit Ø 1,33
Ø 34 int



261018

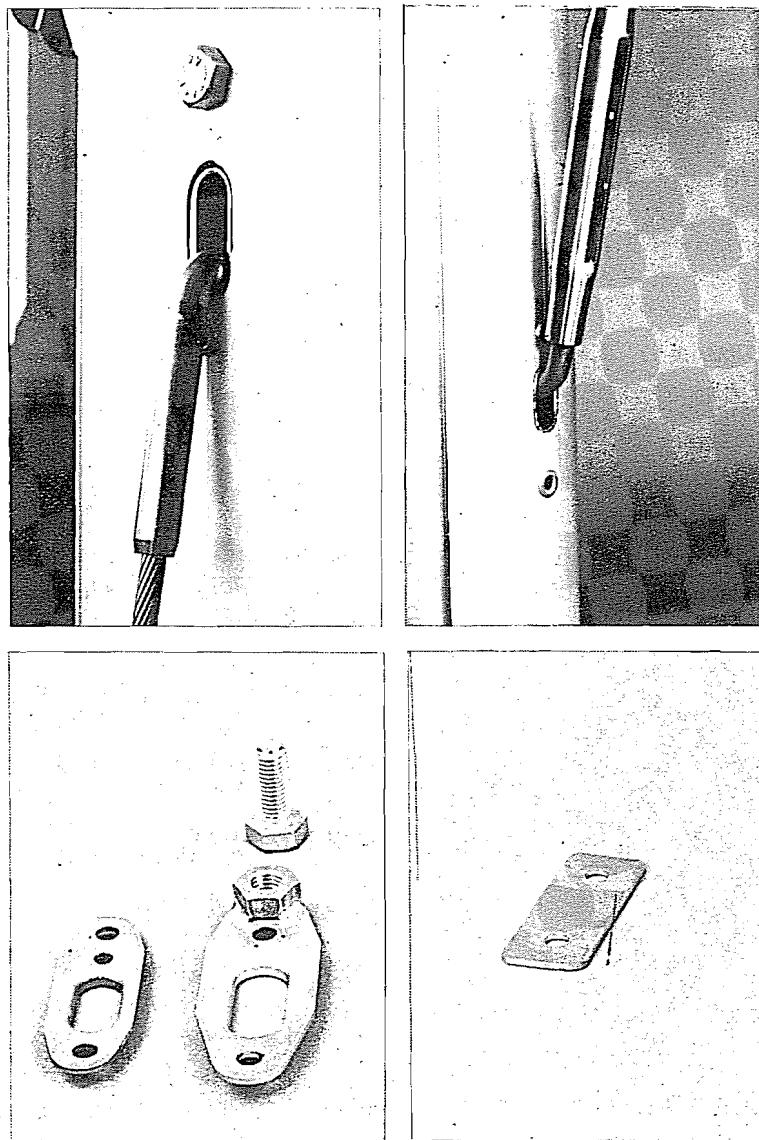
Conduit Ø 0,78
Ø 20 int

Conduit available in 40' long
Conduit disponible en 12 m de long



T TANG

ANCRAGE à T



101101	T.Tang Ø 0,15 Anrage à Te Ø 4	Safety Tang used for running backstay attachment Plaque d'arrêt utilisée pour ancrage de bastaque
101102	T.Tang Ø 0,19 Anrage à Te Ø 5	101105 Safety Tang Ø 0,15, 0,19, 0,23 Plaque d'arrêt Ø 4, 5, 6
101103	T.Tang Ø 0,23 Anrage à Te Ø 6	101106 Safety Tang Ø 0,27 and 0,31 Plaque d'arrêt Ø 7 et 8
101104	T.Tang Ø 0,27 Anrage à Te Ø 7	
101107	T.Tang Ø 0,31 and 0,39 Anrage à Te Ø 8 et 10	
921101	Screw for Tang Ø 0,27, 0,31, 0,39 Vis pour ancrage Ø 7, 8, 10	

For Ø of T. Terminal see page 39
Pour les Ø des embouts à Te voir page 39

CAPELAGE 7/8 NG I

Available for profile NG 28 to NG 60

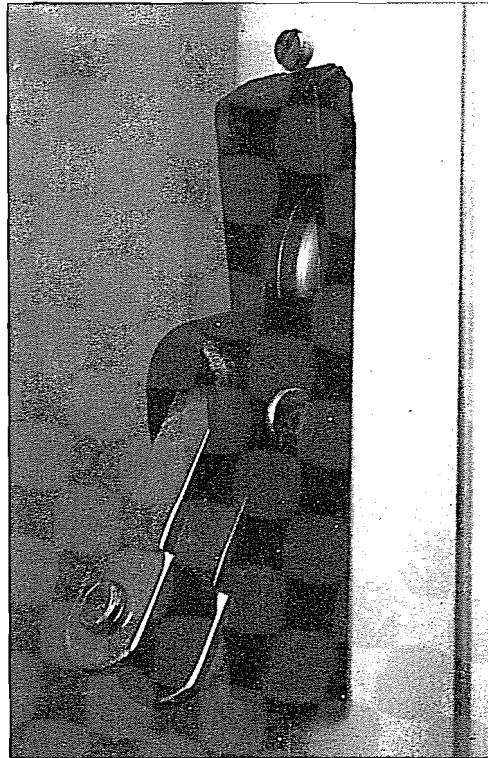
Pour profil NG 28 to NG 60

RUN.RIGGING : 1 Spi halyard Textile Ø 1/2" (1 sheave Ø 2,36)
 with 1 Genoa halyard Textile Ø 1/2" (1 sheave Ø 2,36)
 or 2 Genoa halyard Cable Ø 3/16" Textile Ø 3/8" (2 alu sheave + Nylon ring + S.S. cheek)

STAND.RIGGING : Ø Maxi 1/4"

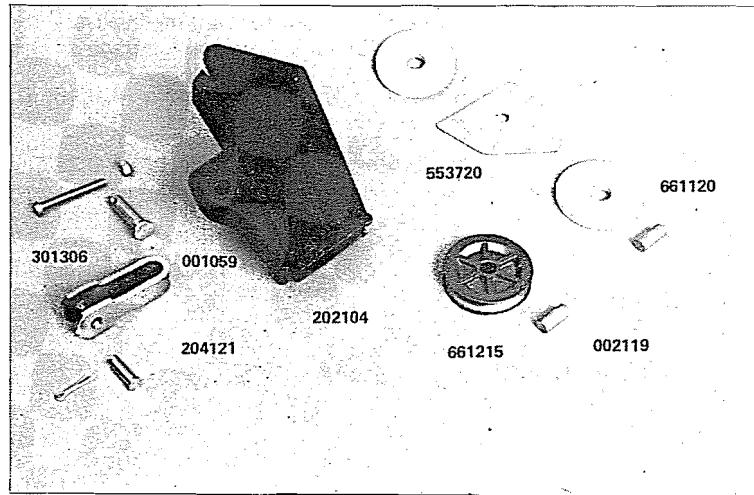
GREEMENT COURANT : 1 Drisse spi Textile Ø 12
 avec 1 Drisse genoïs Textile Ø 12
 ou 2 Drisses genoïs Câble Ø 5 Textile Ø 10

GREEMENT DORMANT : Ø Maxi 6



Qty

202104	1	Sheave box <i>Boîte capelage</i>
002119	2	Straight pin Ø 0,39 lg 0,86 <i>Axe droit Ø 10 lg 22</i>
002120	1	Swaged pin Ø 0,39 lg 1,49 <i>Axe serti Ø 10 lg 38</i>
661215	1	Sheave Ø 2,36 x 0,57 <i>Réa Ø 60 x 14,5</i>
661120	2	Alu sheave Ø 2,36 <i>Réa alu Ø 60</i>
151166	2	Nylon ring <i>Bague nylon</i>
553720	1	S.S. cheek <i>Joue inox</i>
921237	1	Screw TCB Ø 0,23 lg 1,57 <i>Vis TCB Ø 6 lg 40</i>
301306	1	Nylstop Nut Ø 0,23 <i>Ecrou Nylstop Ø 6</i>



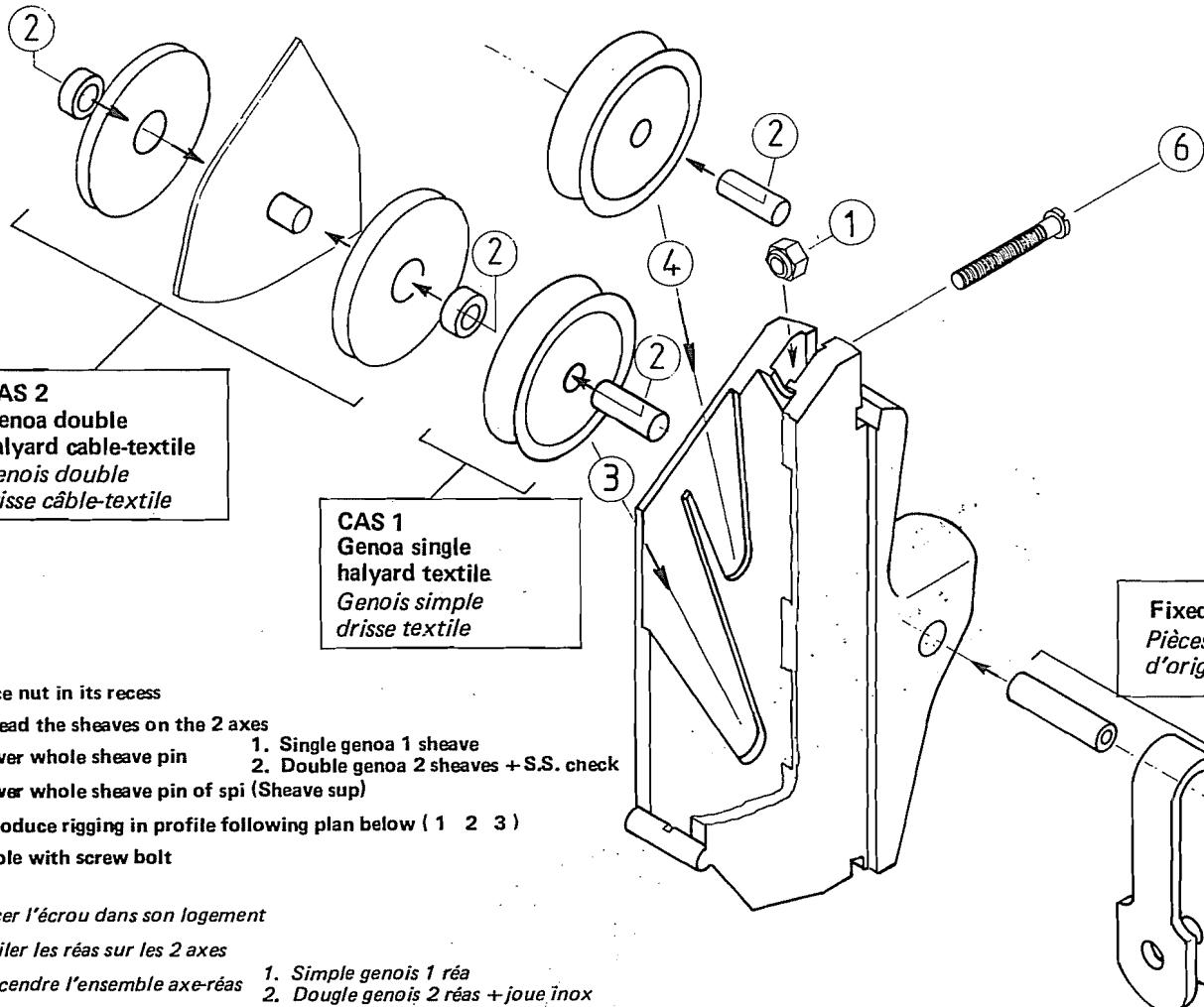
TOGGLE CARDAN

204121	Toggle pin Ø 0,31 <i>Cardan axe Ø 8</i>
204122	Toggle pin Ø 0,39 <i>Cardan axe Ø 10</i>
204123	Toggle pin Ø 0,47 <i>Cardan axe Ø 12</i>



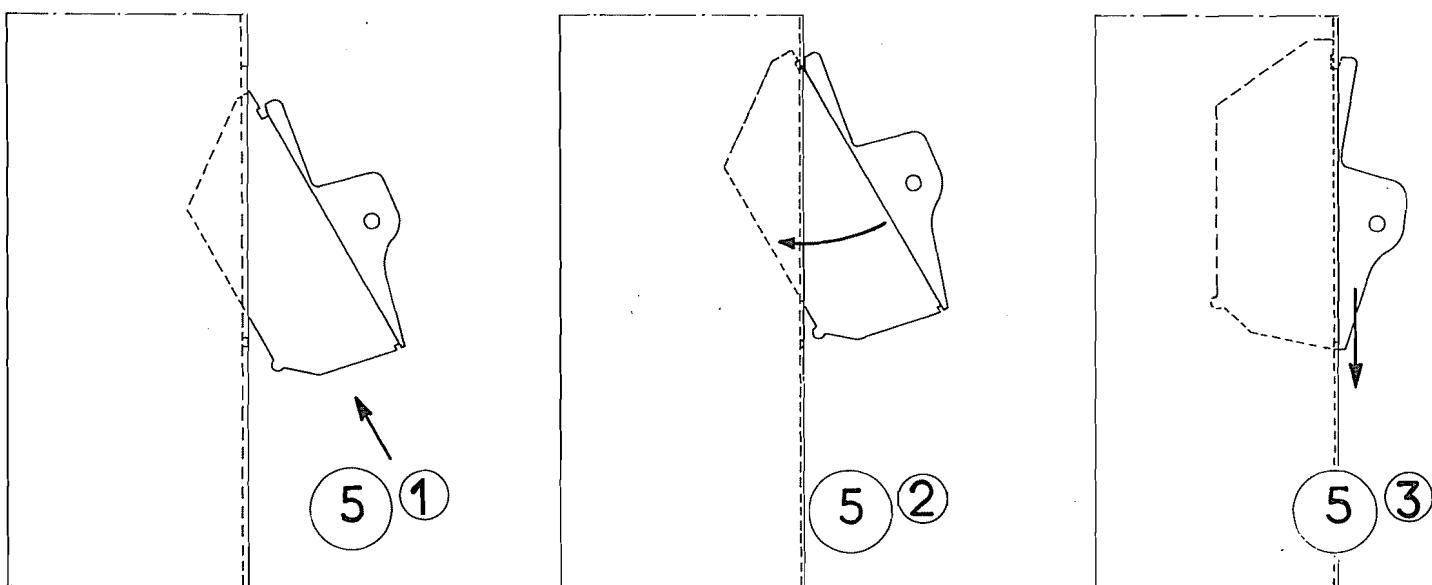
7/8 RIG NGI

CAPELAGE 7/8 NGI



- 1 Place nut in its recess
- 2 Thread the sheaves on the 2 axes
- 3 Lower whole sheave pin 1. Single genoa 1 sheave
 2. Double genoa 2 sheaves + S.S. check
- 4 Lower whole sheave pin of spi (Sheave sup)
- 5 Introduce rigging in profile following plan below (1 2 3)
- 6 Whole with screw bolt

- 1 Placer l'érouvre dans son logement
- 2 Enfiler les réas sur les 2 axes
- 3 Descendre l'ensemble axe-réas 1. Simple genoïs 1 réa
 2. Dougle genoïs 2 réas + joue inox
- 4 Descendre l'ensemble axe réa de spi (Réas sup)
- 5 Introduire le capelage dans le profil suivant schéma ci-dessous (1 2 3)
- 6 Verrouillage de l'ensemble par la vis





7/8 RIG NG II

CAPELAGE 7/8 NG II

Available for profile NG 51 to NG 70
Pour profil NG 51 à NG 70

NOTA : Standing rigging : maxi Ø 7/16"
Gréement dormant : maxi Ø 10 mm

Running rigging : maxi Ø 1/4" wire. Maxi 9/16" rope.
Gréement courant : maxi Ø 6 cable. Maxi 14 textile.

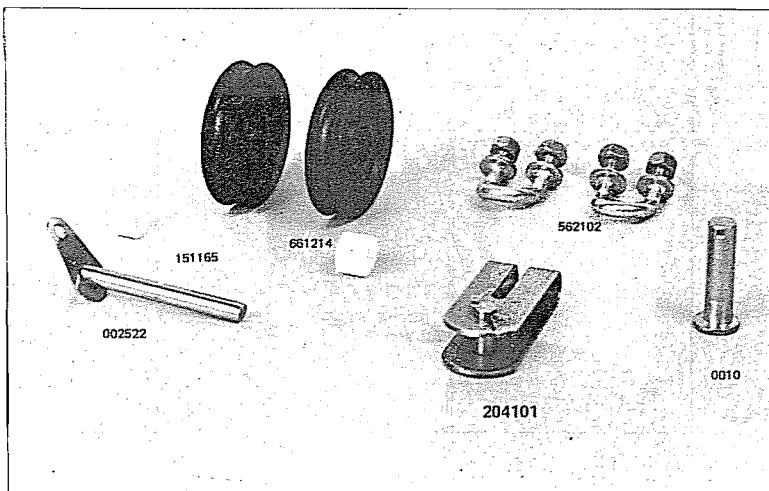


202106

7/8 rig NG II
Capelage 7/8 NG II

Qty

562102	2	Spi Crane big size <i>Potence de spi grand modèle</i>
001065	1	Pin Ø 0,59 lg 2,16 <i>Axe percé Ø 14 lg 55</i>
661214	2	Sheave Ø 3,34 x 0,62 <i>Réas de Ø 85 x 16</i>
151165	2	Spacing ring <i>Bague de réas</i>
002522	1	Welded pin Ø 0,39 <i>Axe soudé Ø 10</i>



TOGGLE CARDAN

204101	pin Ø 0,31 <i>axe Ø 8</i>
204102	pin Ø 0,39 <i>axe Ø 10</i>
204103	pin Ø 0,47 <i>axe Ø 12</i>
204107	pin Ø 0,55 <i>axe Ø 14</i>
204108	pin Ø 0,62 <i>axe Ø 16</i>
204124	pin Ø 0,75 <i>axe Ø 19</i>



STAYSAIL SHEAVES BOX NG II

BOITE TRINQUETTE NG II

For profile NG 51 to NG 105
Pour profil NG 51 à NG 105

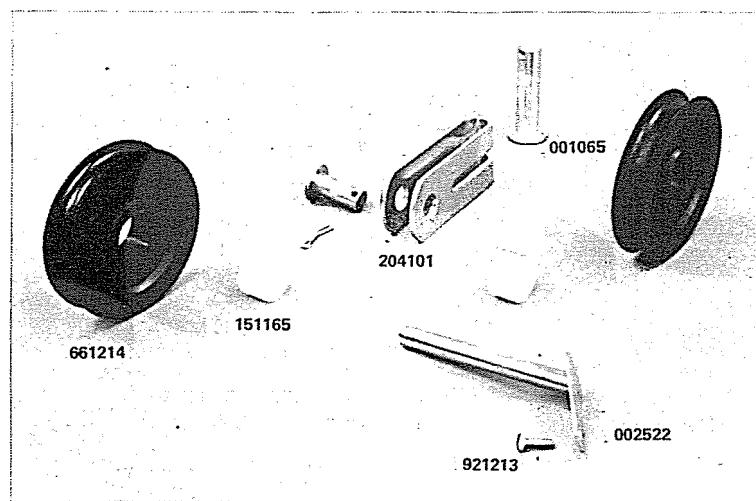
- Stand.rigging Ø Maxi 7/16"
, Gréement dormant Ø Maxi 10
- Run.rigging Ø Maxi cable 1/4" Ø Maxi textile 9/16"
Gréement courant Ø Maxi câble 6 Ø Maxi textile 14



202304 Welded staysail Box NG II
Bôîte soudée de trinquette NG II

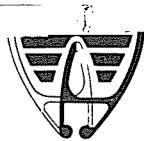
Qty

661214	2	Sheaves Ø 3,34 x 0,62 Réas Ø 85 x 16
151165	2	Spacing ring for sheaves Ø 3,34 Bague pour Réa de Ø 85
002522	1	Welded pin Ø 0,39 Axe soudé Ø 10
001065	1	Clevis pin Ø 0,59 lg 2,16 Axe percé Ø 14 lg 55
921213	2	Screw TCB Ø 0,19 lg 0,62 Vis TCB Ø 5 lg 16



TOGGLE CARDAN

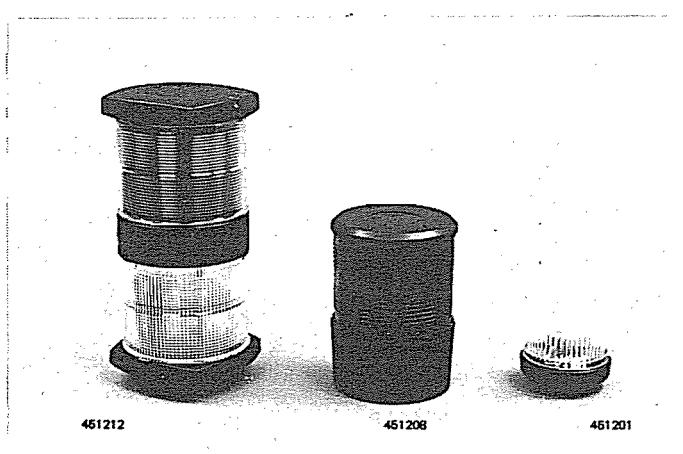
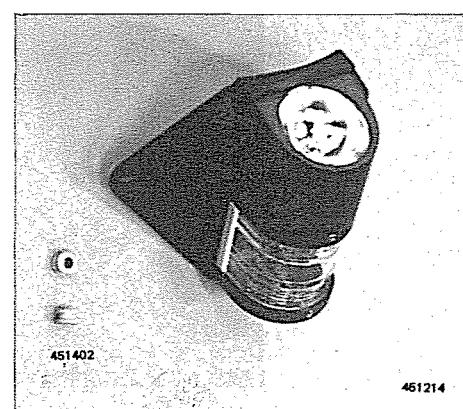
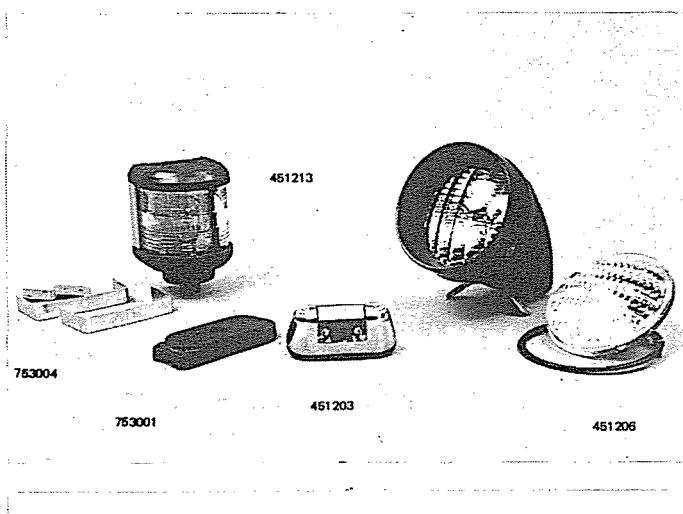
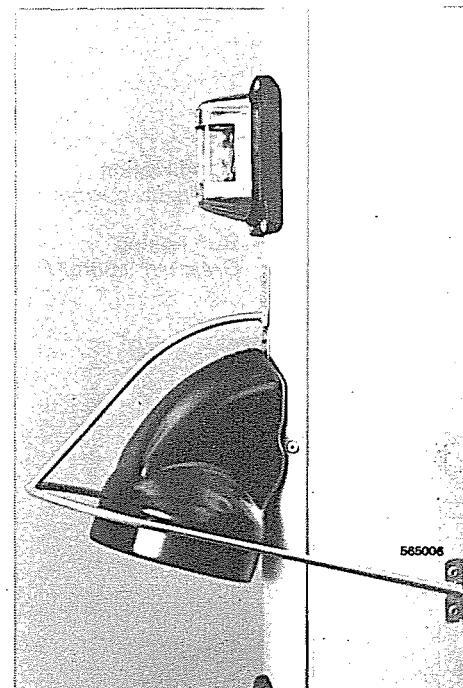
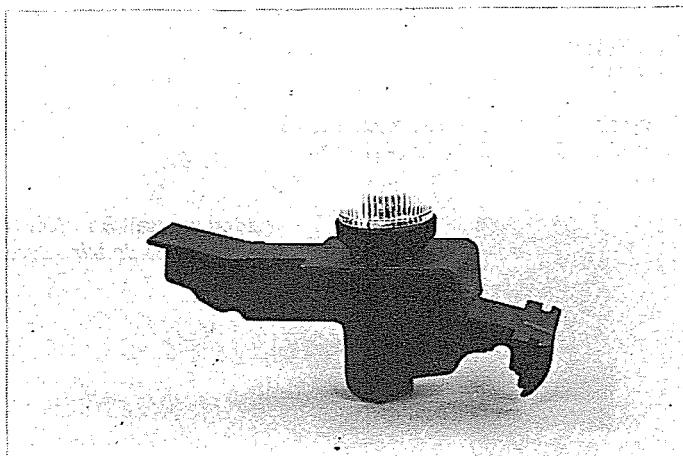
204101	Toggle pin Ø 0,31 Cardan axe Ø 8
204102	Toggle pin Ø 0,39 Cardan axe Ø 10
204103	Toggle pin Ø 0,47 Cardan axe Ø 12
204107	Toggle pin Ø 0,55 Cardan axe Ø 14
204108	Toggle pin Ø 0,62 Cardan axe Ø 16
204124	Toggle pin Ø 0,75 Cardan axe Ø 19



NAVIGATION LIGHT

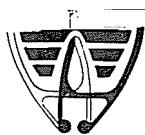
FEUX DE NAVIGATION

Anchor light on the mast head
Chapeau de tête avec feu



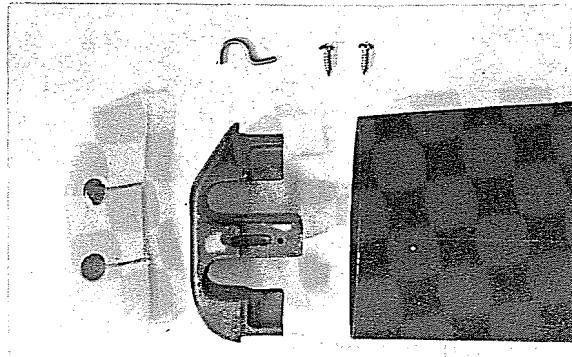
- 451208 Tricolor light
Feu 3 couleurs
- 451212 Tricolor light + Anchor light
Feu 3 couleurs + mouillage
- 451201 Anchor light
Feux de mouillage

- 565006 Deck light protect
Protecteur feu de pont
- 451214 Combined deck and steaming light
Feu combiné hune et pont
- 451206 Deck light
Projecteur de pont
- 451207 Lens
Optique
- 753001 Steaming light bracket
Support de feu de hune
- 451203 Steaming light Nalta
Feu de hune Nalta
- 451213 Steaming light Aquasignal
Feu de hune Aquasignal
- 753004 Steaming light bracket Aqua
Support de feu de hune Aqua
- 451401 Grommet Ø 0,23
Passe-fil Ø 6
- 451402 Grommet Ø 0,39
Passe-fil Ø 10

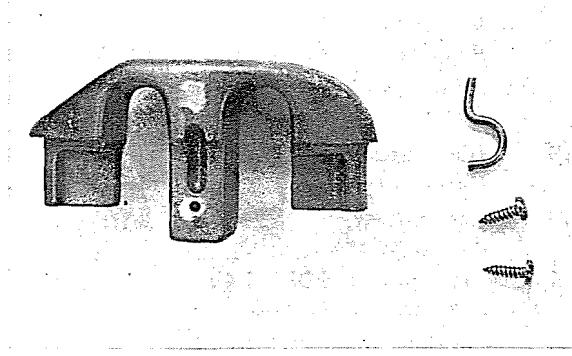
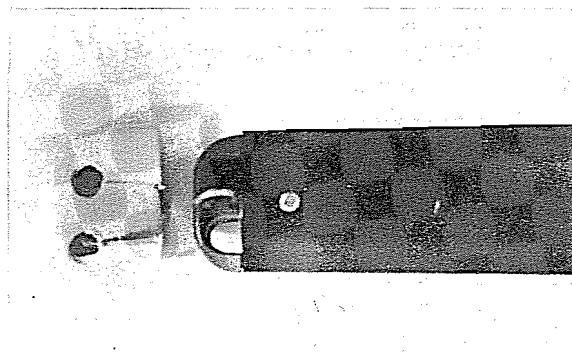


SPREADER

BARRE DE FLECHE



TIPS AND PROFILES EMBOUTS ET PROFILS



BF 3

- | | |
|--------|---------------------------------------|
| 153000 | Spreader
<i>Profil</i> |
| 304202 | Casting end
<i>Embout</i> |
| 371203 | Screw Ø 4 x 16
<i>Vis Ø 4 x 16</i> |
| 304208 | S/s Flage ring
<i>Pontet inox</i> |

BF 4

- | | |
|--------|---|
| 159000 | Spreader
<i>Profil</i> |
| 304201 | Casting end
<i>Embout</i> |
| 921237 | Screw Ø 4 x 16
<i>Vis Ø 4 x 16</i> |
| 151316 | S/s Flage ring
<i>Pontet inox</i> |
| 304210 | Spreader protect
<i>Protection plastique</i> |

BF 5

- | | |
|--------|---|
| 154000 | Spreader
<i>Profil</i> |
| 304201 | Casting end
<i>Embout</i> |
| 921237 | Screw Ø 4 x 16
<i>Vis Ø 4 x 16</i> |
| 151316 | S/s Flage ring
<i>Pontet inox</i> |
| 340210 | Spreader protect
<i>Protection plastique</i> |



SPREADER

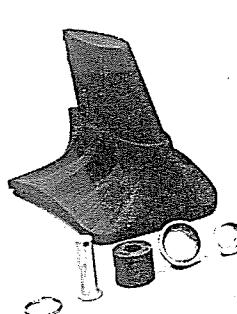
BARRE DE FLECHE

BRACKETS / PLATINES

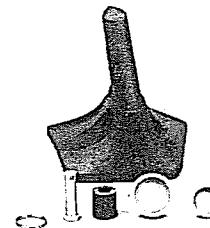


General view
Vue générale

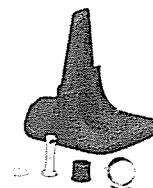
BF5



BF4



BF3



■BF 3

Profile NG 28 - 37
Possible 2nd set on profile NG 46 - 51
Profil NG 28 - 37
Possible en 2ème étage sur NG 46 - 51

555218

Left bracket
Platine gauche

555217

Right bracket
Platine droite

151162

Shock absorber Ø 0,55 x 0,51
Amortisseur Ø 14 x 13

001008

Clevis pin Ø 31 lg 1,25
Axe percé Ø 8 lg 32

261022

Open ring small
Anneau brisé PM

■BF 4

Profile NG 46 - 60
Possible 2nd set on profile NG 70 - 80
Profil NG 46 - 60
Possible en 2ème étage sur NG 70 - 80

555315

Right bracket
Platine droite

555316

Left bracket
Platine gauche

001048

Clevis pin Ø 0,39 x 1,49
Axe percé Ø 10 x 38

151163

Shock absorber Ø 0,78 x 0,82
Amortisseur Ø 20 x 21

261027

Open ring large
Anneau brisé GM

■BF 5

Profile NG 70 - 105
Profil NG 70 - 105

555313

Right bracket
Platine droite

555314

Left bracket
Platine gauche

001051

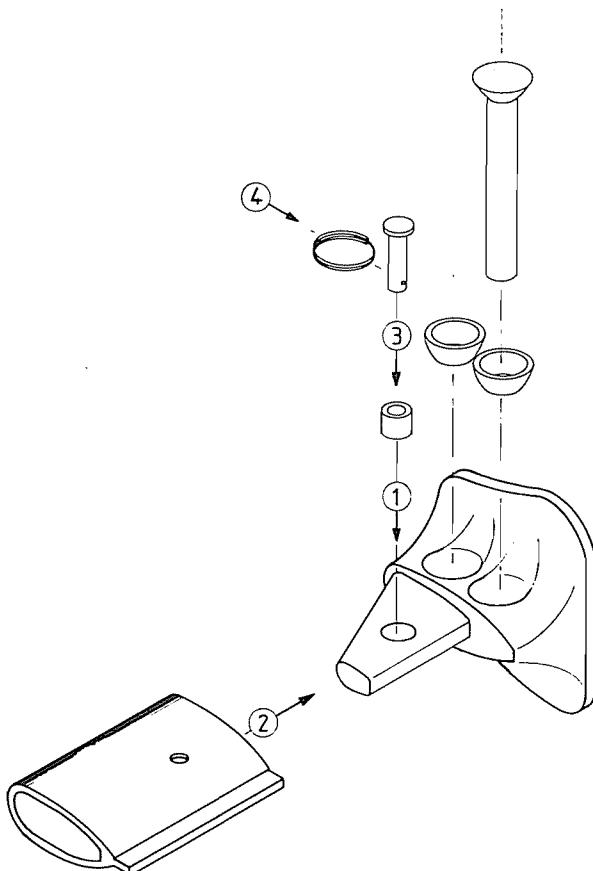
Clevis pin Ø 0,47 x 1,73
Axe percé Ø 12 x 44

151164

Shock absorber Ø 1,10 x 0,94
Amortisseur Ø 28 x 24

261027

Open ring large
Anneau brisé GM



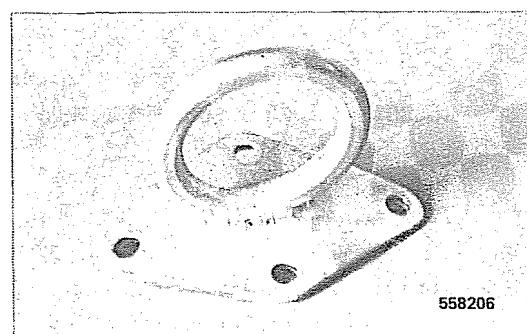
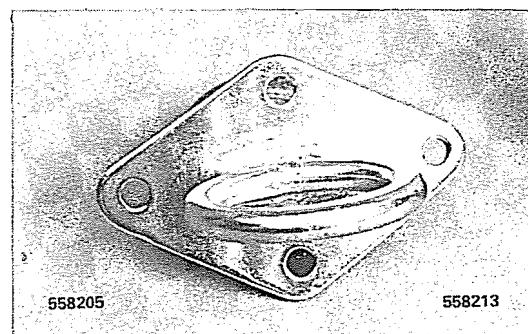
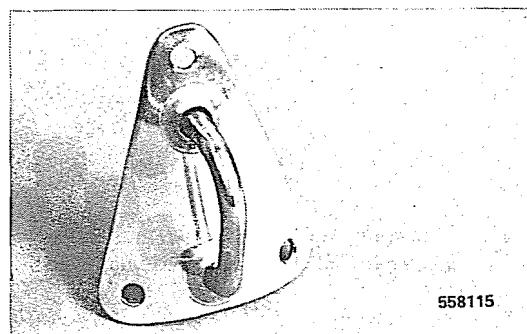
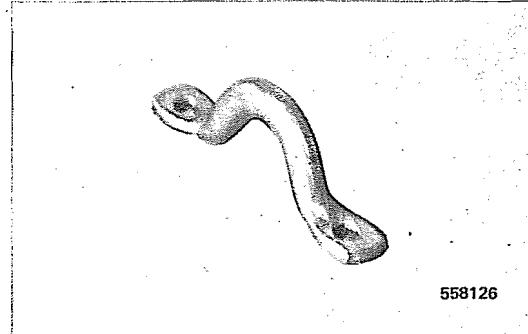
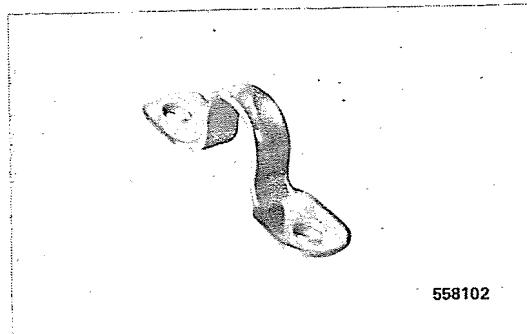
For cupel see page 38

Pour coupelle voir page 38



RINGS AND EYES

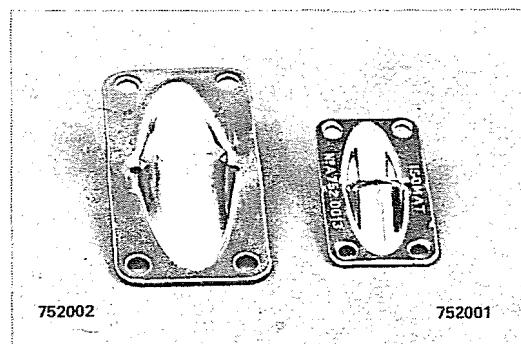
PONTETS ET ANNEAUX



- 558102** Pulley clips PN2
Pontet PN2
- 558126** Rod ring
Pontet forgé
- 558115** Topping lift eye
Pontet balancine ext.
- 558205** Cunningham eye left
Anneau cunnigham gauche
- 558213** Cunningham eye right
Anneau cunnigham droit
- 558206** Jockey pole eye
Anneau de jockey pôle
- 558217** Spi-pole eye
Anneau de tangon

HALYARD EXIT PROTECTION

PROTECTION DE SORTIE DE DRISSE

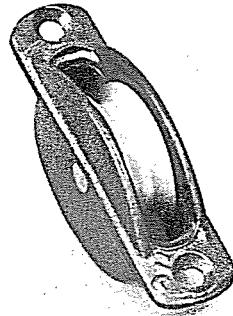


- NG 28-37** 4 exits on each side
4 sorties par côté
- NG 46-105** 5 exits on each side
5 sorties par côté
- 752001** Exit small size Ø 5/16" maxi
Sortie petit modèle Ø 8 maxi
- 752002** Exit large Ø 3/4" maxi
Sortie grand modèle Ø 18 maxi



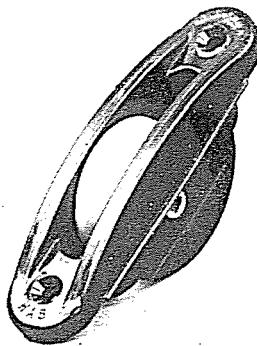
BOITES A REAS

Use for : topping lift spipole, down-up spipole system, halyards exit.
Utilisation : balancine tangon, montée/descente curseur tangon, sortie drisse.



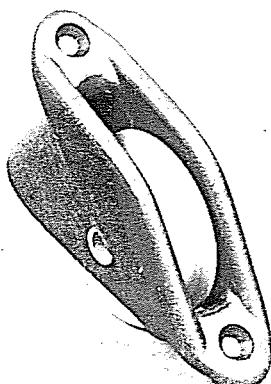
158310 Sheave box ILV
Boîte à réas ILV

For rope Ø 5/16" maxi and cable Ø 5/32" max
Pour textile Ø 8 maxi et câble Ø 4 maxi



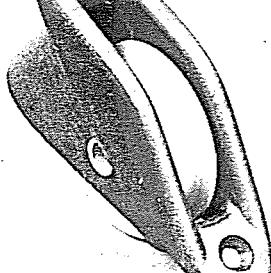
158301 Sheave box HA 8 (Nylon sheave)
Boîte à réas HA 8 (Nylon)

For rope Ø maxi 3/8"
Pour textile Ø maxi 10



158302 Sheave box HA 8 (Alu sheave)
Boîte à réas HA 8 (Alu)

For cable Ø 5/32" maxi
Pour câble Ø 4 maxi



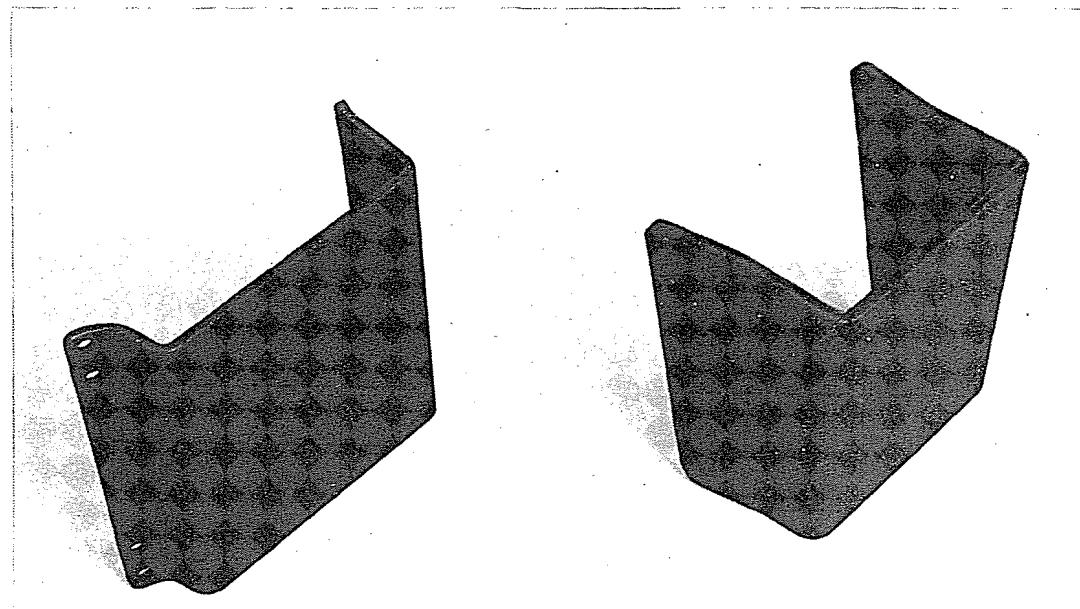
158309 Sheave box large
Boîte à réas grand modèle

For rope Ø 3/8" maxi and cable Ø 3/16" max
Pour textile Ø 10 maxi et câble Ø 5 maxi



WINCH PAD

SUPPORT DE WINCH



Winch pad side
Support de winch latéral

751139	NG 28 NG 28	base Ø Ø de base	3,13 80
751138	NG 31-37 NG 31-37	base Ø Ø de base	3,92 100
751145	NG 46-51 NG 46-51	base Ø Ø de base	4,30 110
751146	NG 60-70 NG 60-70	base Ø Ø de base	5,08 130
751147	NG 80-86 NG 80-86	base Ø Ø de base	6,26 160
751151	NG 105 NG 105	base Ø Ø de base	7,04 180

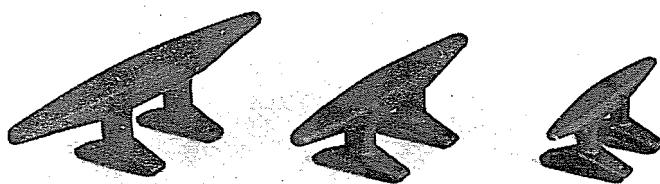
Winch pad rear
Support de winch face AR

751140	NG 28 NG 28	base Ø Ø de base	3,52 90
751141	NG 31 NG 31	base Ø Ø de base	3,52 90
751142	NG 37 NG 37	base Ø Ø de base	3,92 100
751148	NG 46-51 NG 46-51	base Ø Ø de base	4,30 110
751149	NG 60-70 NG 60-70	base Ø Ø de base	4,70 120
751152	NG 80 NG 80	base Ø Ø de base	5,08 130
751150	NG 86 NG 86	base Ø Ø de base	5,28 135
751153	NG 105 NG 105	base Ø Ø de base	5,48 140



CLEATS AND CLAM CLEATS

TAQUETS ET CLAM CLEATS



100109

100108

100107

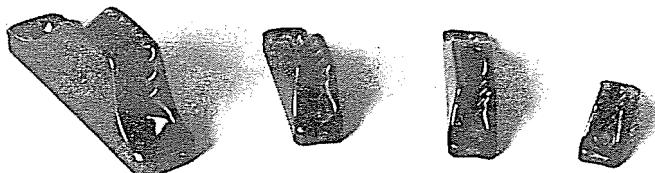
Aluminum cleat
Taquet aluminium

100107 Lg 4,72
Lg 120

100108 Lg 6,30
Lg 160

100109 Lg 7,87
Lg 200

CLAM CLEAT



100203

100202

100206

100207

ROPE/TEXTILE

		Ø Mini	Ø Maxi
100203	Clam vertical <i>Clam vertical</i>	5/16" 8	1/2" 12
100202	Clam Junior <i>Clam junior</i>	1/8" 3	1/4" 6
100206	Clam midi <i>Clam midi</i>	5/32" 4	5/16" 8
100207	Clam mini <i>Clam mini</i>	1/8" 3	1/4" 6

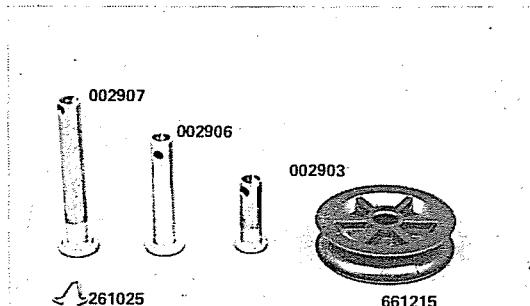
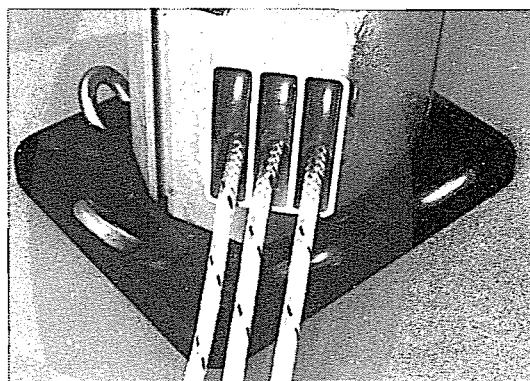


WELDED SHEAVES BOX

BOITE A REAS SOUDEE

Profile available in 20' feet long - NON ANODIZE
Profilé disponible en longueur de 6 mètres - NON ANODIZE

NG /



3 TYPES

Simple
158114

002903 Auto pin Ø 0,39 x 1,28
Axe auto Ø 10 x 32,5

Double
158115

002904 Auto pin Ø 0,39 x 2,04
Axe auto Ø 10 x 52

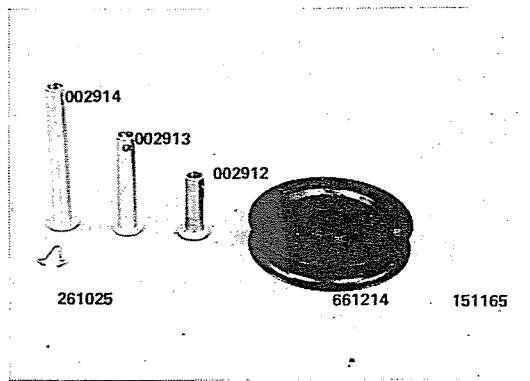
Triple
158116

002905 Auto pin Ø 0,39 x 2,80
Axe auto Ø 10 x 71

661215 Sheave Ø 2,36 x 0,57
Réas Ø 60 x 14,5

261025 Safety pin
Epingle

NG //



3 TYPES

Simple
158110

002912 Auto pin Ø 0,39 x 1,37
Axe auto Ø 10 x 35

Double
158111

002913 Auto pin Ø 0,39 x 2,22
Axe auto Ø 10 x 56,5

Triple
158112

002914 Auto pin Ø 0,39 x 3,15
Axe auto Ø 10 x 80

151165 Spacing ring
Bague entretoise

661214 Sheave Ø 3,35 x 0,63
Réas Ø 85 x 16

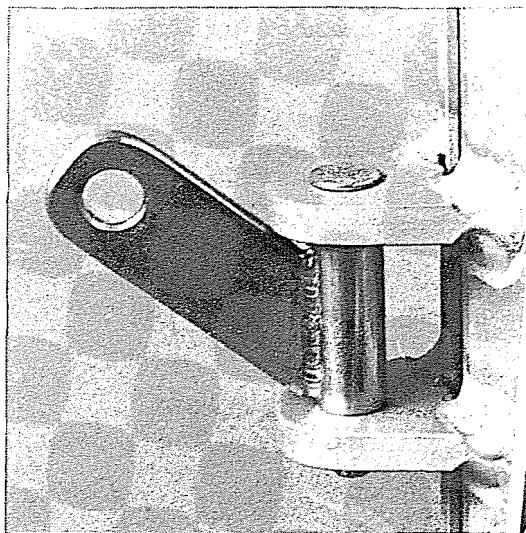
261025 Safety pin
Epingle



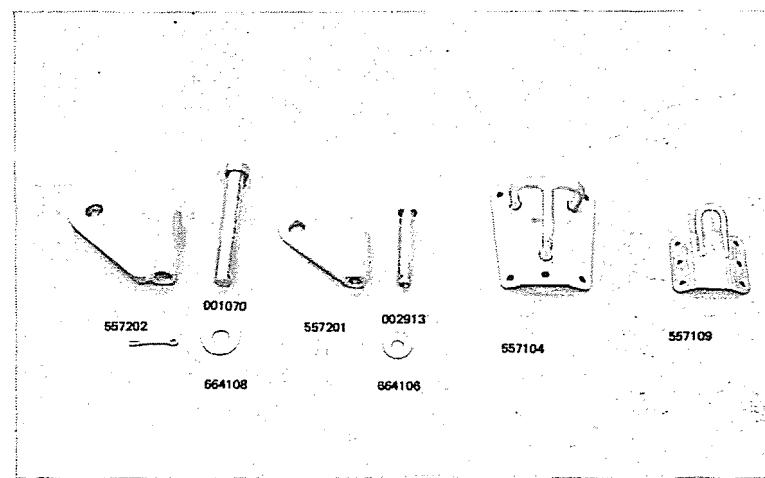
BOOM VANG ATTACHMENT

PRISE HALE BAS

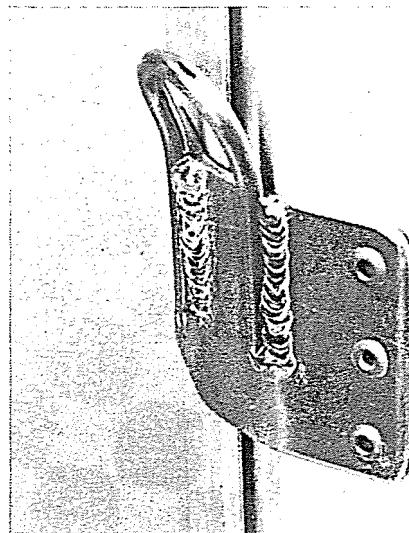
Other than U-bolt on mast foot or mast collar
Autres que le pontet sur le pied de mât ou le passage d'étambrai



Rod kicker attachment
Prise hale-bas rigide



Rod kicker fittings
Pièce pour hale-bas rigide



Boom wang attachment S.S. Plate
Prise hale-bas sur plaque

Profile NG 28 - 60 *Profil NG 28 - 60*

557201	Rod kicker attachment	$\emptyset 0,56$
	<i>Prise hale-bas rigide perçage $\emptyset 14,3$</i>	
002914	Auto pin	$\emptyset 0,39 \times 3,15$
	<i>Axe automatique</i>	$\emptyset 10 \times 80$
664106	Washer $\emptyset 0,40$	
	<i>Rondelles $\emptyset 10,3$</i>	

Profile NG 60 - 105 *Profil NG 60 - 105*

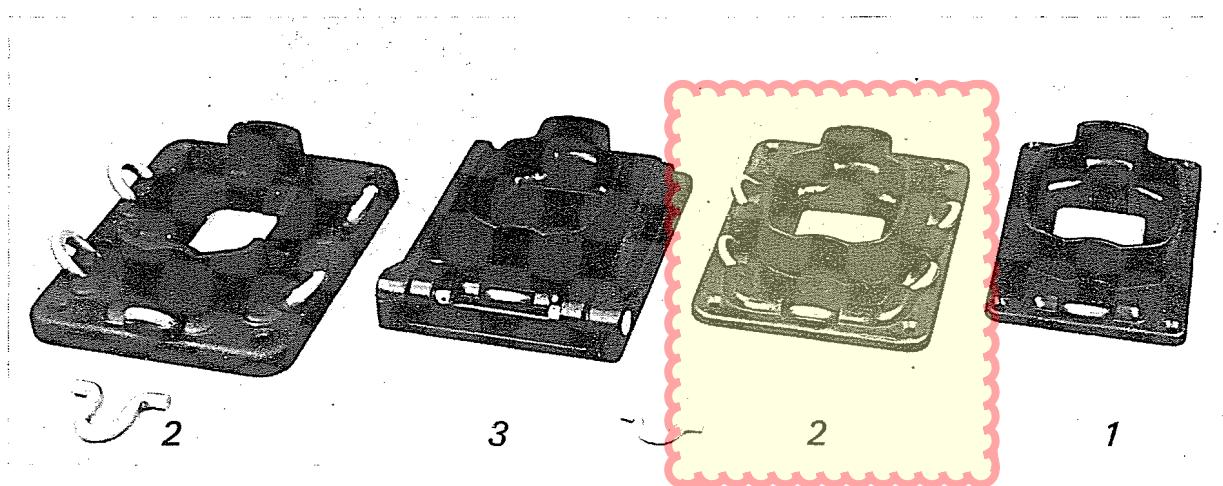
557202	Rod kicker attachment	$\emptyset 0,64$
	<i>Prise hale-bas rigide</i>	$\emptyset 16,3$
001070	Clevis pin	$\emptyset 0,55 \times 4,11$
	<i>Axe percé</i>	$\emptyset 14 \times 105$
664108	Washer $\emptyset 0,56$	
	<i>Rondelles $\emptyset 14,3$</i>	

557109	Boom vang attachment on S.S. plate	NG 28 - 31 - 37
	<i>Prise hale-bas sur plaque</i>	
557104	Boom vang attachment for 3 points	NG 45 to 86
	<i>Prise hale-bas 3 points</i>	



MAST FOOT

PIED DE MAT



Single mast foot <i>Pied de mât simplifié</i>		1	Standard mast foot <i>Pied de mât standard</i>		2	Pivoting mast foot <i>Pied de mât pivotant</i>		3
556137	for/pour profil NG 28		556146	NG 28		556143	NG 28	
556138		NG 31	556147	NG 31		556144	NG 31	
556139		NG 37	556148	NG 37		556145	NG 37	
* 558123	U-bolt NG I <i>Pontet NG I</i>		* 558123	U-Bolt NG I <i>Pontet NG I</i>		556140	NG 46	
556149		NG 46	556131	NG 46		556141	Base plate NG 28 - 31 <i>Semelle NG 28 - 31</i>	
556150		NG 51	556132	NG 51		556142	Base plate NG 37 - 46 <i>Semelle NG 37 - 46</i>	
* 558124	U-bolt NG II <i>Pontet NG II</i>		556133	NG 60		002904	Auto pin Ø 0,39 x 2,04 <i>Axe auto Ø 10 x 52</i>	
			556134	NG 70		* 558123	U-bolt NG I <i>Pontet NG I</i>	
			556135	NG 80				
			556136	NG 86				
			556157	NG 105				
			* 558124	U-bolt NG II <i>Pontet NG II</i>				

* With 1 U-bolt for boom vang attach
Avec 1 Pontet pour prise hale-bas

* With 4 U-bolt for halyard fairlead
1 U-bolt for boom vang attach
Avec 4 Pontets pour renvoi drisse
1 Pontet pour prise hale-bas

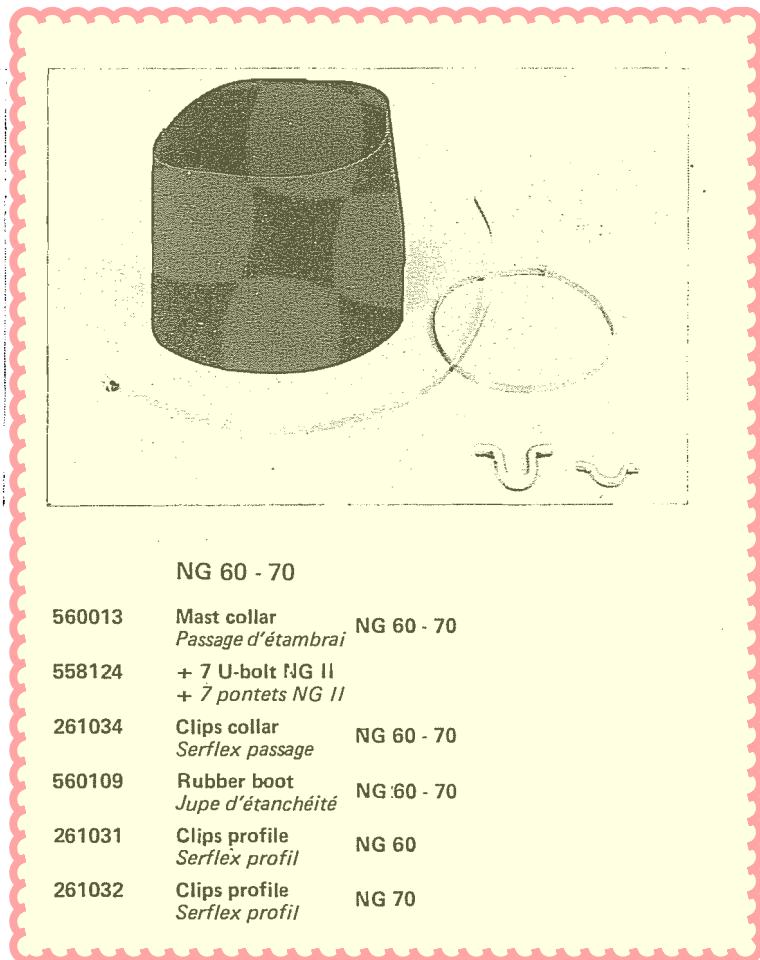
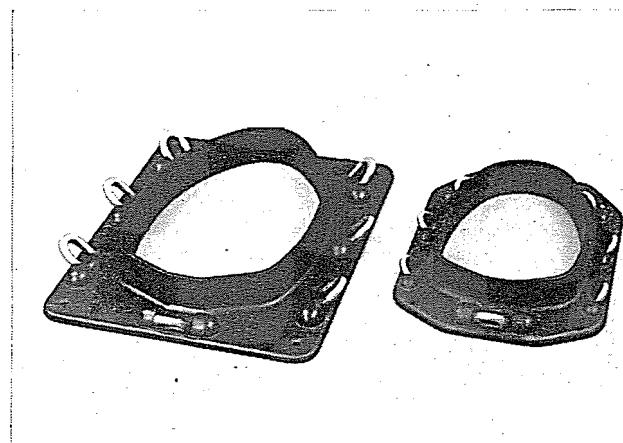
* With 1 U-bolt for boom vang attach
Avec 1 Pontet pour prise hale-bas



MAST COLLAR

PASSAGE ETAMBRAI

Mast collar with water proof coat and clips
Collier étambrai avec jupe d'étanchéité et serflex



NG 28 - 31 - 37

560012	Mast collar <i>Passage d'étambrai</i>	NG 28 - 31 - 37
558123	+ 5 U-bolt NG I + 5 pontets NG I	
261032	Clips collar <i>Serflex passage</i>	NG 28 - 37
560111	Rubber boot <i>Jupe d'étanchéité</i>	NG 28
261028	Clips profile <i>Serflex profil</i>	NG 28
560107	Rubber boot <i>Jupe d'étanchéité</i>	NG 31 - 37
261029	Clips profile <i>Serflex profil</i>	NG 31
261030	Clips profile <i>Serflex profil</i>	NG 37

NG 46 - 51

560015	Mast collar <i>Passage d'étambrai</i>	NG 46 - 51
558124	+ 1 U-bolt NG II + 1 pontet NG II	
558123	+ 6 U-bolt NG I + 6 pontets NG I	
261033	Clips collar <i>Serflex passage</i>	NG 46 - 51
360108	Rubber boot <i>Jupe d'étanchéité</i>	NG 46 - 51
261030	Clips profile <i>Serflex profil</i>	NG 46 - 51

NG 60 - 70

560013	Mast collar <i>Passage d'étambrai</i>	NG 60 - 70
558124	+ 7 U-bolt NG II + 7 pontets NG II	
261034	Clips collar <i>Serflex passage</i>	NG 60 - 70
560109	Rubber boot <i>Jupe d'étanchéité</i>	NG 60 - 70
261031	Clips profile <i>Serflex profil</i>	NG 60
261032	Clips profile <i>Serflex profil</i>	NG 70

NG 80 - 86

560014	Mast collar <i>Passage d'étambrai</i>	NG 80 - 86
558124	+ 7 U-bolt NG II + 7 pontets NG II	
261028	(2) Clips collar (2) Serflex passage	NG 80 - 86
560110	Rubber boot <i>Jupe d'étanchéité</i>	NG 80 - 86
261033	Clips profile <i>Serflex profil</i>	NG 80
261034	Clips profile <i>Serflex profil</i>	NG 86

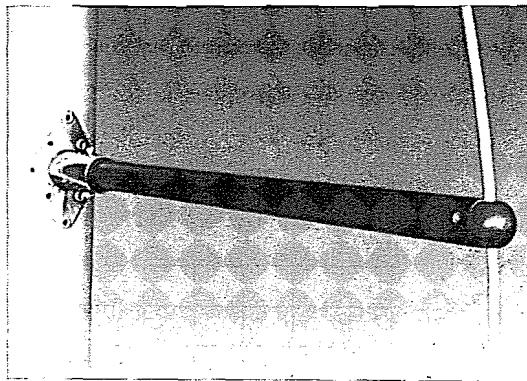
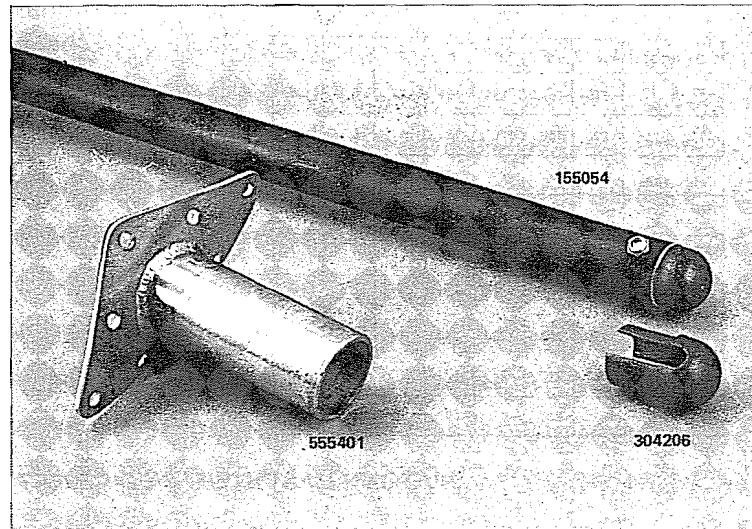
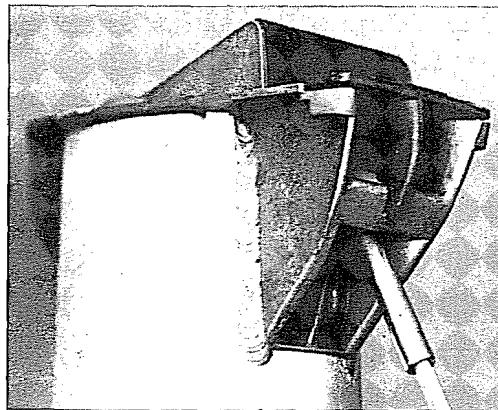
NG 105

560017	Mast collar <i>Passage d'étambrai</i>	NG 105
558124	+ 7 U-bolt NG II + 7 pontets NG II	
261029	Clips collar <i>Serflex passage</i>	NG 105
560112	Rubber boot <i>Jupe d'étanchéité</i>	NG 105
261035	Clips profile <i>Serflex profil</i>	NG 105

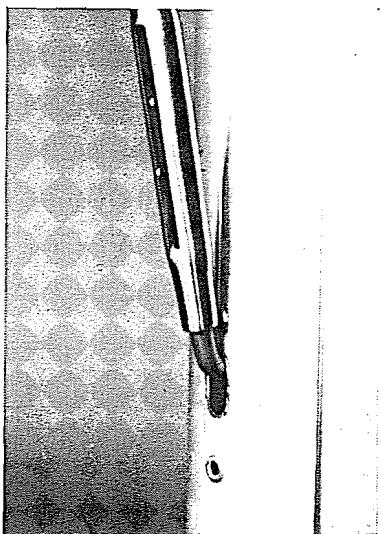


JUMPER STRUT GUIGNOL

On mizzen mast - Profile NG 28 - 60 with cable Ø maxi 9/32"
Sur Artimon - Profil NG 28 - 60 avec câble Ø maxi 7



Qty



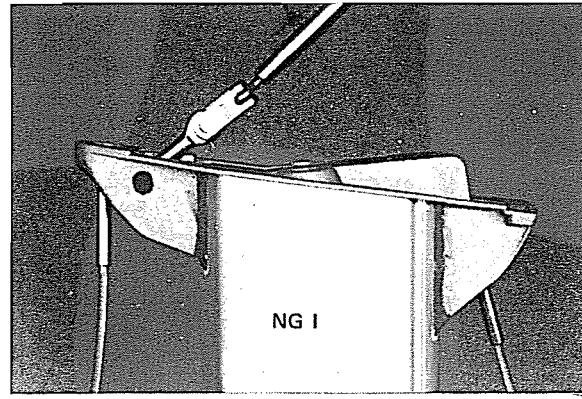
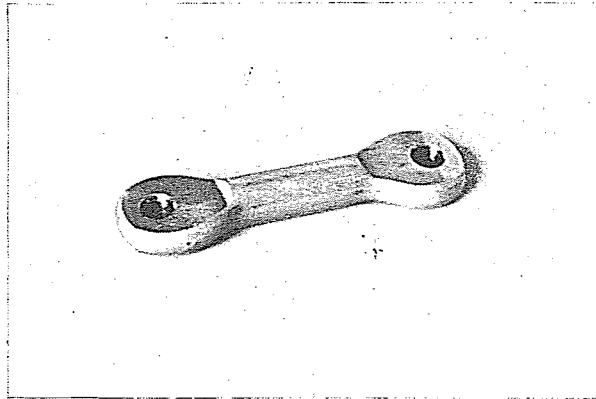
304206	1	Jumper end <i>Embout de guignol</i>
921233	1	Screw Ø 0,19 lg = 1,18 <i>Vis Ø 5 lg 30 TC</i>
301305	1	Nylstop Nut Ø 0,19 <i>Ecrou Nylstop Ø 5</i>
921237	1	Screw Ø 0,23 lg = 1,57 <i>Vis Ø 6 lg 40 TC</i>
301306	1	Nylstop Nut Ø 0,23 <i>Ecrou Nylstop Ø 6</i>
555401	1	Jumper bracket <i>Platine de guignol</i>
155054	1	Jumper profile (tube) Ø 1 in. <i>Tube de guignol Ø 25</i>



TRIATIC STAY FIXATION

FIXATION MAROQUIN

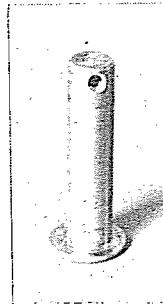
NG I



Fitting to fix the triatic stay on the Mizzen Mast NG I
Pièce de fixation de maroquin sur Mât d'Artimon NG I

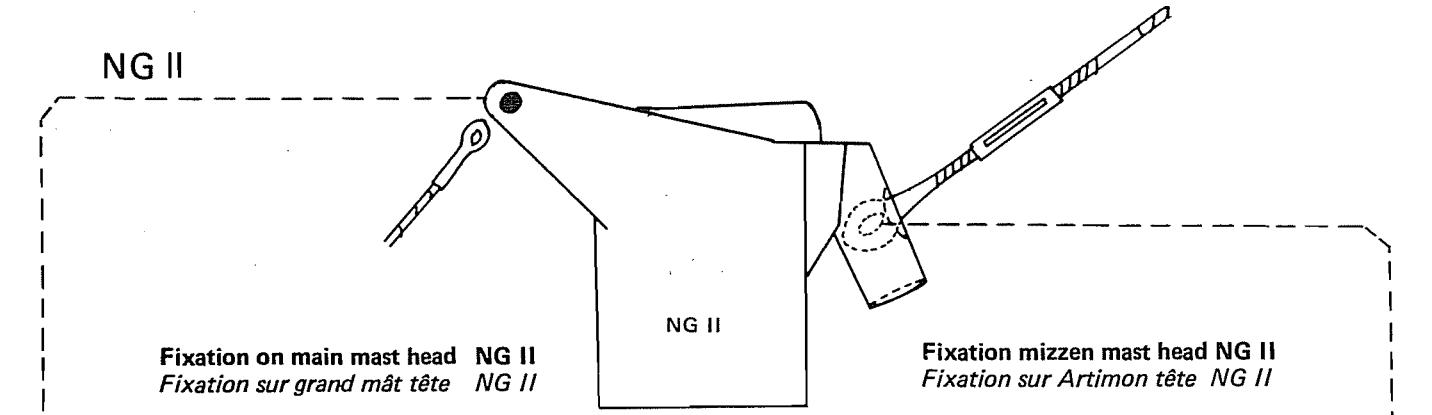
TRIATIC STAY fixation on Mizzen Mast top NG I
Fixation du MAROQUIN sur un Mat d' Artimon en NG I

452916	Eye-eye terminal <i>Embout oeil-oeil</i>	$\varnothing 8,3$
452917	Eye-eye terminal <i>Embout oeil-oeil</i>	$\varnothing 10,3$
452918	Eye-eye terminal <i>Embout oeil-oeil</i>	$\varnothing 12,3$



001027	Clevis pin <i>Axe percé</i>	$\varnothing 0,47 \times 2,28$
--------	--------------------------------	--------------------------------

NG II



Fixation on main mast head NG II
Fixation sur grand mât tête NG II

Fixation mizzen mast head NG II
Fixation sur Artimon tête NG II



001067	Clevis pin <i>Axe percé</i>	$\varnothing 0,31 \times 2,28$
001068	Clevis pin <i>Axe percé</i>	$\varnothing 0,39 \times 2,28$
001027	Clevis pin <i>Axe percé</i>	$\varnothing 0,47 \times 2,28$

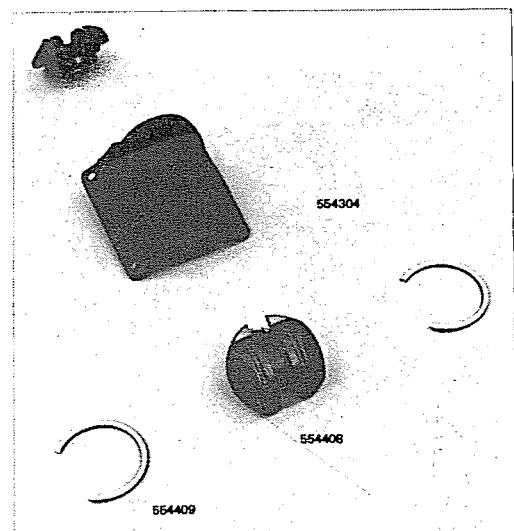
001059	Clevis pin <i>Axe percé</i>	$\varnothing 0,39 \times 1,73$
001051	Clevis pin <i>Axe percé</i>	$\varnothing 0,47 \times 1,73$





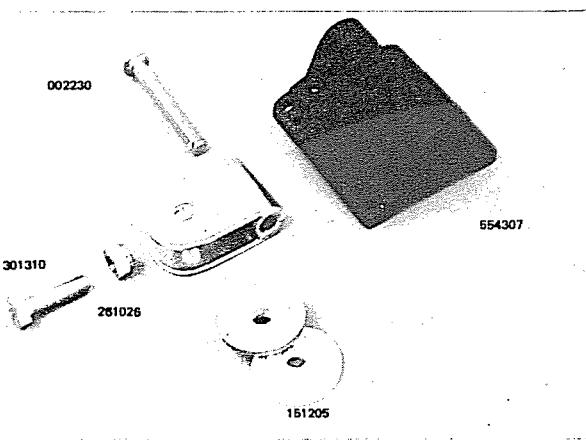
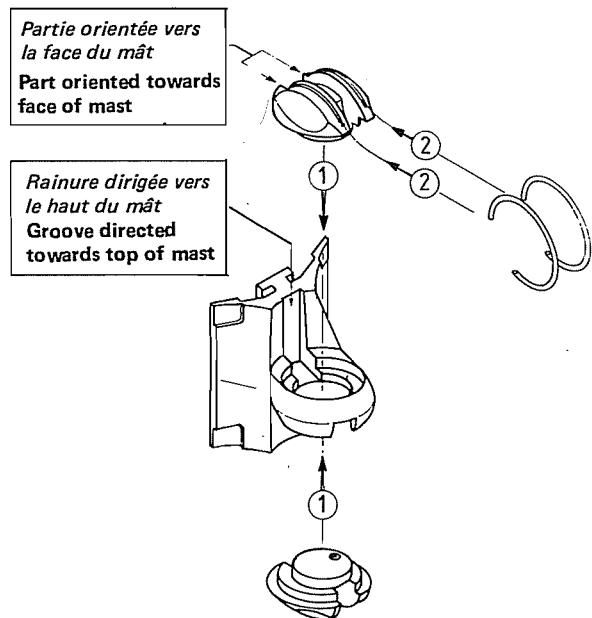
GOOSENECK

VIT DE MULET



Gooseneck NG I
Vit de mulet NG I NB 16 - NB 26

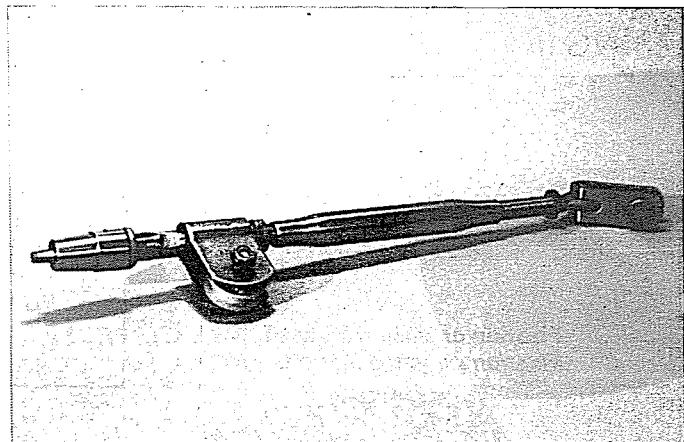
With profile
Avec profil NG 28 - 51



554304 Gooseneck slider NG I
 Curseur vit de mulet NG I

554408 1/2 plastic ball
 1/2 rotule

554409 S.S. clips
 Clips inox



Gooseneck special
Vit de mulet special NB 26 With profile
 Avec profil

NG 37 - 60

or for staysail boom
ou pour bâme de trinquette NB 16 - 26

554307 Gooseneck slider NG II
 Curseur vit de mulet NG II

002230 Clevis pin Ø 0,39 x 4,40
 Axe percé Ø 10 lg 112

151205 Alu. connection
 Bague de liaison

921103 Screw Ø 0,39 x 1,57
 Vis Ø 10 x 40

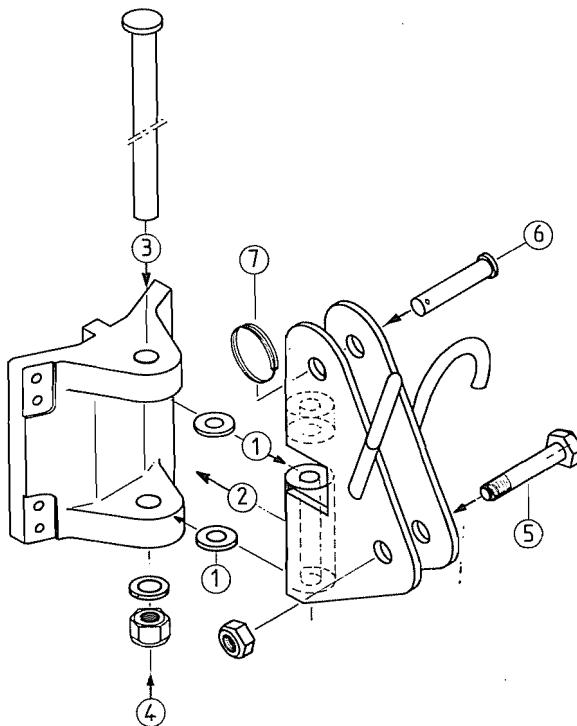
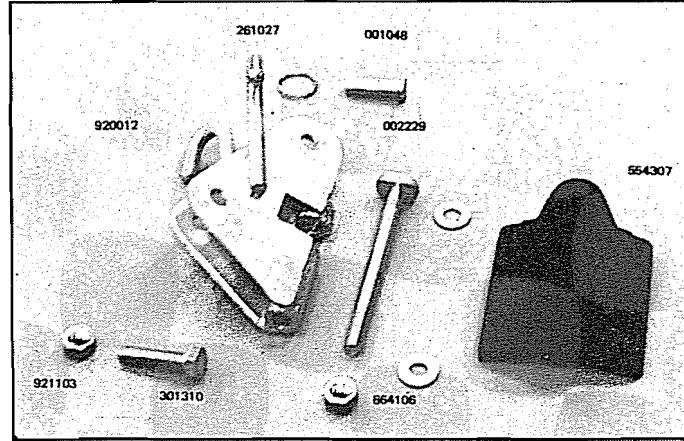
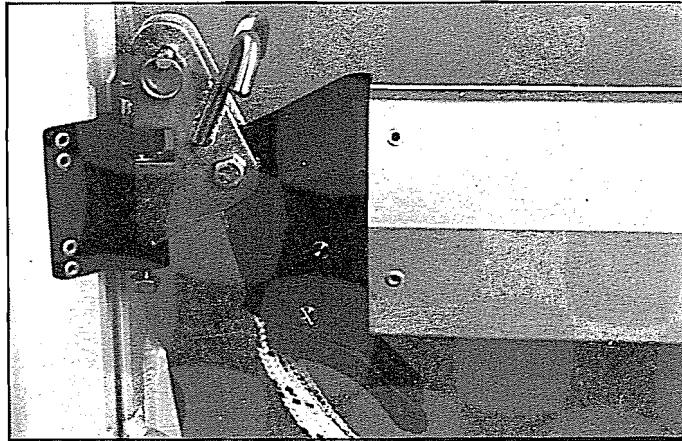
301310 Nylstop nut Ø 0,39
 Ecrou nylstop Ø 10

664106 Washer Ø 10,3
 Rondelles Ø 10,3



GOOSENECK NG II

VIT DE MULET NG II

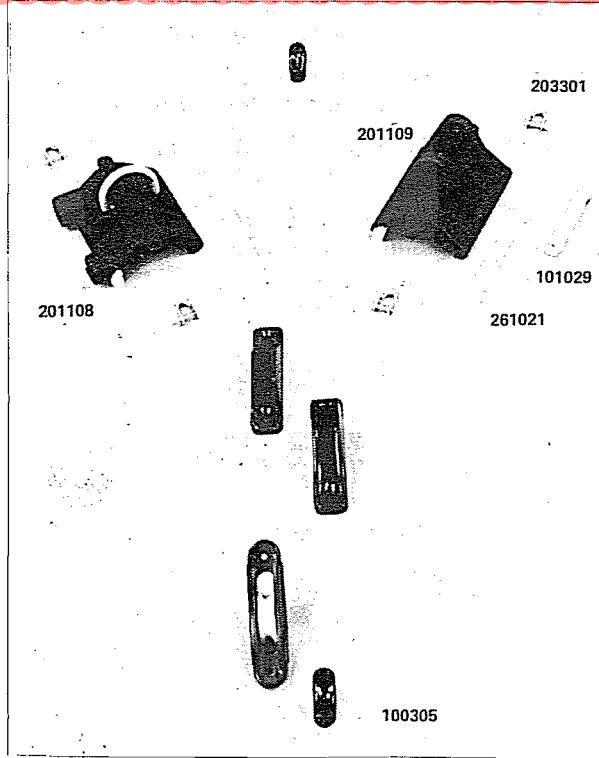
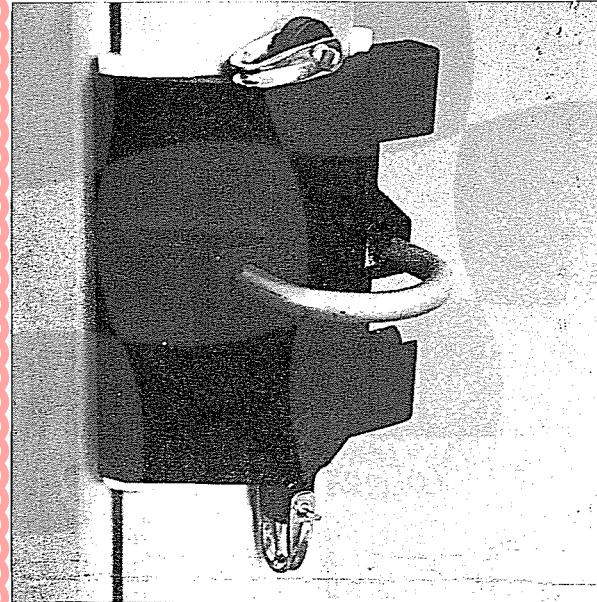
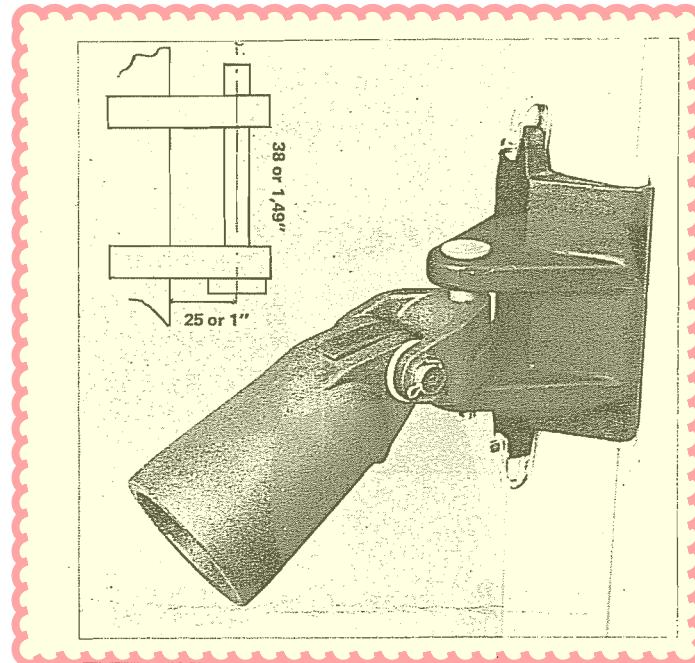


Gooseneck NG II NB 32 - 40 - 55 With profile
Vit de mulet NG II Vit de mulet Avec profil NG 51 - 10.

554307	Gooseneck slider NG II Curseur vit de mulet NG II
920012	Gooseneck toggle Chapelle cardan de vit de mulet
002229	Clevis pin Ø 0,39 x 5,11 Axe percé Ø 10 x 130
664106	Washer Ø 0,40 Rondelles Ø 10,3
921103	Screw Ø 0,39 x 1,57 Vis Ø 10 x 40
301310	Nylstop nut Ø 0,39 Ecrou nylstop Ø 10
001048	Clevis pin Ø 0,39 Axe percé Ø 10 x 38
261027	Open ring Anneau brisé

SPINNAKER GEAR

EQUIPEMENT DE SPI

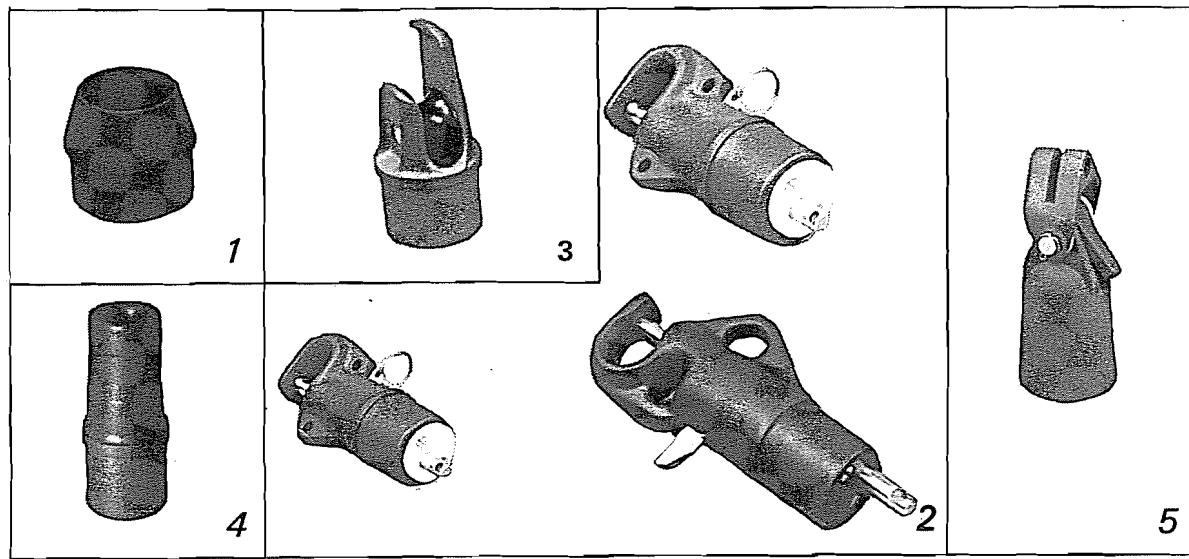


- | | |
|--------|--|
| 201108 | Spi eye slider int Ø 1,57
<i>Curseur à œil Ø int 40</i> |
| 201109 | Spi bell slider
<i>Curseur pour cloche</i> |
| 261021 | Bearing brass
<i>Frotteur</i> |
| 101029 | Clevis pin Ø 0,47 lg 2,95 + 2 washers Ø 0,47
<i>Axe percé Ø 12 lg 75 + 2 rondelles Ø 12,3</i> |
| 203301 | Shackle Ø 0,157
<i>Manille Ø 4</i> |
| 100301 | Plastic lead
<i>Filoire</i> |
| 158301 | Sheave box HA 8
<i>Boîte à réa HA 8</i> |
| 100203 | Clam vertical
<i>Clam vertical</i> |



SPIPOLE GEAR

EQUIPEMENT DE TANGON



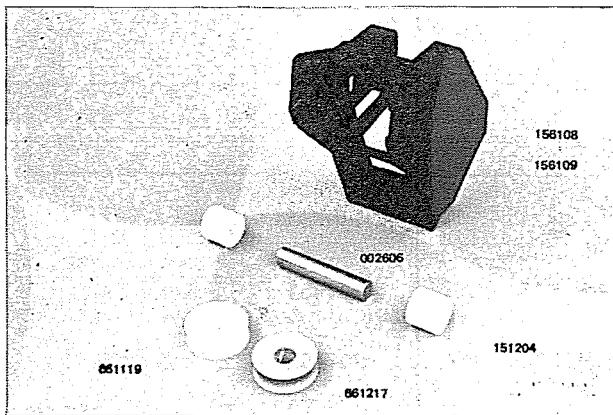
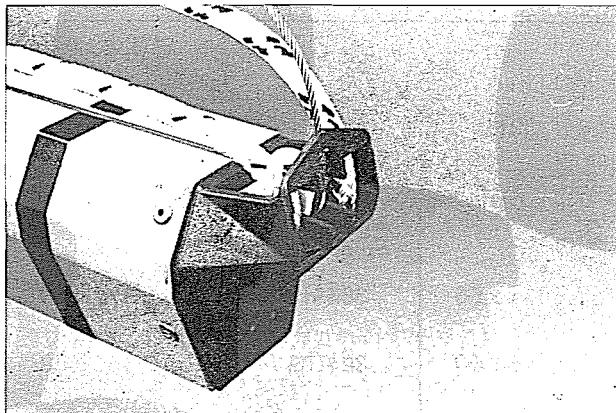
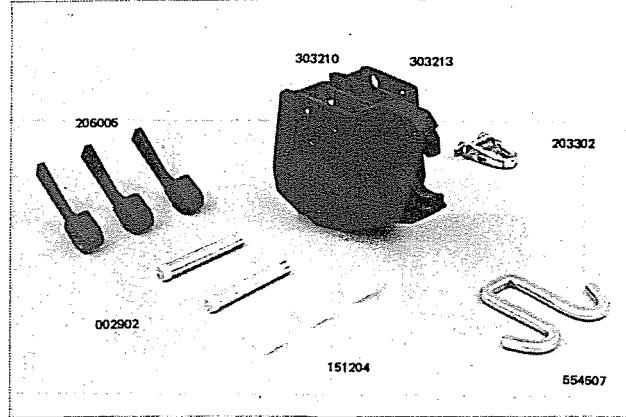
Reduction for tube <i>Réduction pour tube</i>	1	Pole piston ends <i>Embout à piston</i>	2	Jockey pole end <i>Embout jockey pôle</i>	3
304117 Ø 2,36/1,97 Ø 60/50		304106 Ref. : 141 x 50		304110 Ref. : 172 x 50	
304118 Ø 2,75/1,97 Ø 70/50		304105 Ref. : 145 x 60		304109 Ref. : 172 x 60	
304119 Ø 3,14/2,36 Ø 80/60		304104 Ref. : 145 x 80		304108 Ref. : 172 x 80	
304120 Ø 3,39/2,36 Ø 100/60					
304125 Ø 4,72/3,14 Ø 120/80					
		Pole bell fitting <i>Embout pour cloche</i>	4	Bell fitting <i>Cloche tangon</i>	5
		304101 Ref. : 131 x 60		201401 Ref. : 130	
		304102 Ref. : 121 x 80		201402 Ref. : 120	



BOOM GEAR NG I

EQUIPEMENT BOME NG I

Profile NB 16 - NB 26



303210	Inboard casting NB 16 <i>Embout vit de mulet NB 16</i>
303213	Inboard casting NB 26 <i>Embout vit de mulet NB 26</i>
206005	Jammer NG I <i>Coinceur NG I</i>
002902	Grooved pin Ø 0,39 x 2,53 <i>Axe cannelé Ø 10 - lg 64,5</i>
554507	Reefing hook NG I <i>Gros de ris NG I</i>
151204	Spacing ring Ø 0,70 x 0,59 <i>3 entretoises Ø 18 x 15</i>
203302	Shackle Ø 0,19 <i>Manille Ø 5</i>
	For textile Ø 0,39 Pour textile Ø 10
	cable Ø 0,15 Ø 4

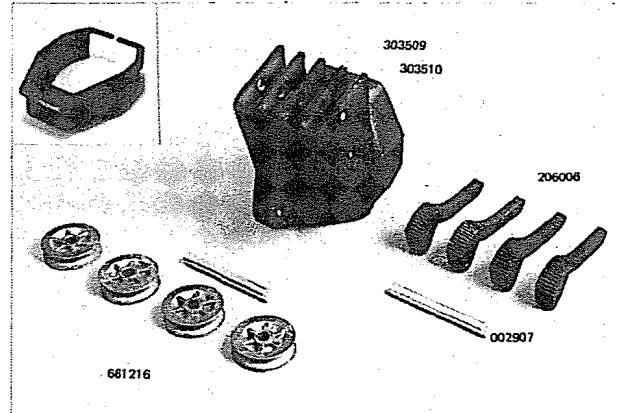
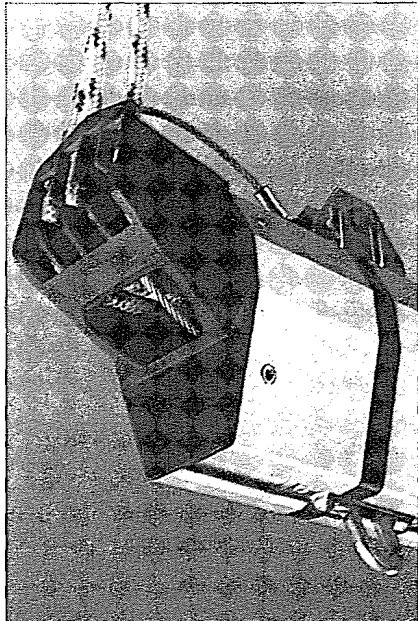
156108	Outboard casting NB 16 <i>Embout arrière NB 16</i>
156109	Outboard casting NB 26 <i>Embout arrière NB 26</i>
661217	Delrin sheave Ø 1,18 x 0,39 for NB 16 <i>Réa Delrin Ø 30 x 10 pour NB 16</i>
661119	Alu sheave Ø 1,18 x 0,39 for NB 26 <i>Réa alu Ø 30 x 10 pour NB 26</i>
002606	Straight pin Ø 0,39 lg 2 <i>Axe droit Ø 10 lg 51</i>
151204	Spacing ring Ø 0,70 x 0,59 <i>Entretoise Ø 18 x 15</i>
305107	Outhaul slider NG I <i>Curseur d'étarquage NG I</i>
	For textile Ø 3/8" Pour textile Ø 10
	cable Ø 5/32" Ø 4



BOOM GEAR NG II

EQUIPEMENT BOME NG II

Profile NB 32 - NB 40 - NB 55



303509 Inboard casting NB 32
Embout vit de mulet NB 32

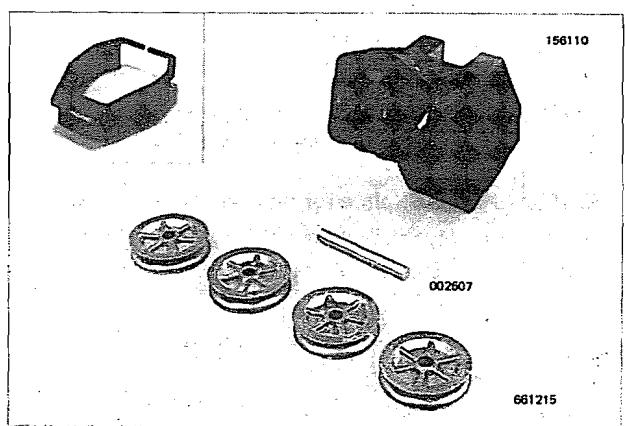
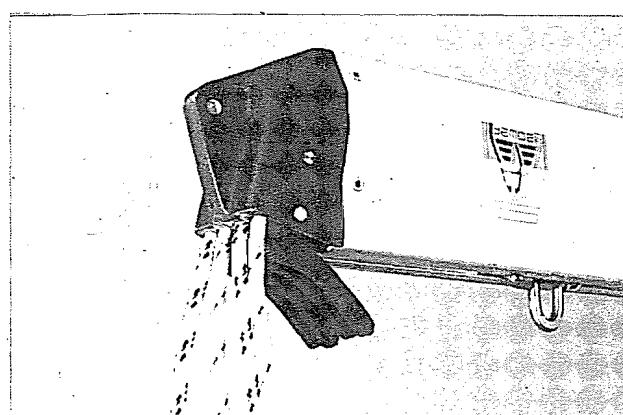
303510 Inboard casting NB 40
Embout vit de mulet NB 40

303511 Reduction NB 55
Reduction NB 55

206006 Jammer NG II
Cames NG II

002907 Grooved pin Ø 0,39 lg 3,54
Axe cannelé Ø 10 lg 90

661216 Sheaves Ø 1,96 x 0,57
Réas Ø 50 x 14,5



156110 Outboard casting NB 32
Embout arrière NB 32

156111 Outboard casting NB 40
Embout arrière NB 40

303511 Reduction NB 55
Reduction NB 55

002607 Straight pin Ø 0,39 lg 3,15
Axe droit Ø 10 lg 80

661215 Sheaves Ø 2,36 x 0,57
Réas Ø 60 x 14,5

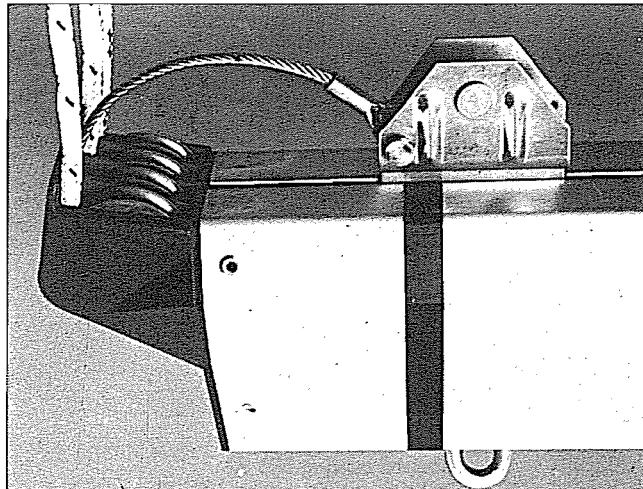
For rope Ø 9/16" cable Ø 3/16"
Pour textile Ø 14 Pour la réduction Ø 5

For Boom profile NB 55 : use the reduction
Pour profil Boom NB 55 : utiliser la réduction



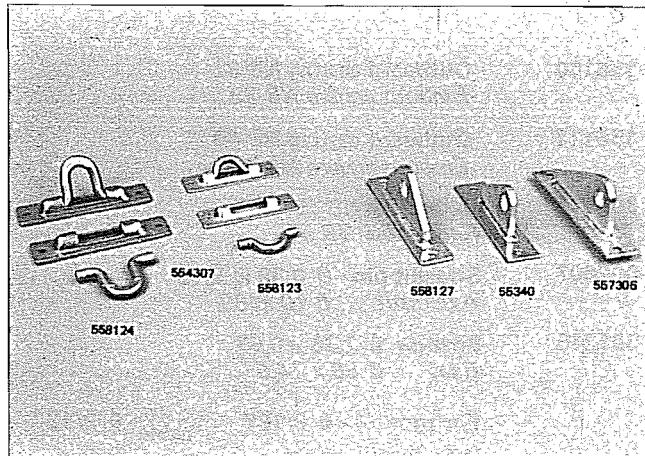
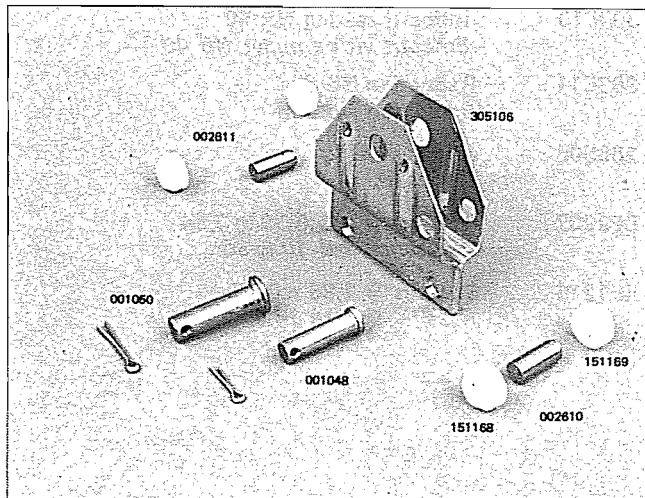
BOOM FITTING

PIECE DE BOME



For/pour NB 32 - 40 - 55

305105	Outhaul slider <i>Curseur d'étarquage</i>	NB 32 - 40 - 55
151168	Nylon ring NB 32 - 40 <i>Galet</i>	
151169	Nylon ring NB 55 <i>Galet</i>	
002610	Straight pin Ø 0,39 x 0,94 <i>Axe droit Ø 10 x 24</i>	NB 32 - 40
002611	Straight pin Ø 0,39 x 0,74 <i>Axe droit Ø 10 x 19</i>	NB 55
001050	Drilled pin Ø 0,47 x 1,49 <i>Axe percé Ø 12 x 38</i>	
001048	Drilled pin Ø 0,39 x 1,49 <i>Axe percé Ø 10 x 38</i>	



553406	S.S. plate for main sheet eye NG I <i>Plaque Inox de pontet d'écoute NG I</i>
558123	U-bolt NG I <i>Pontet NG I</i>
557305	Rigid kicker attachment NG I <i>Prise de hale-bas rigide NG I</i>
553407	S.S. plate for main sheet eye NG II <i>Plaque inox pontet d'écoute NG II</i>
558124	U-bolt NG II <i>Pontet NG II</i>
557306	Rigid kicker attachment NG II <i>Prise hale-bas rigide NG II</i>
558127	Rigid mean sheet bail NG II <i>Prise d'écoute NG II en tôle inox</i>



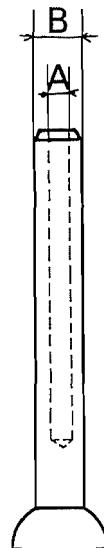
ISOMAT FITTING FOR STANDING RIGGING

PIECES ISOMAT POUR GREEMENT DORMANT

■ Stemball terminal + cupels
Embout à rotule + coupelles

■ Stemball Terminal
Embout à rotule

NOTA : For naltec rigging,
you must contact us
or our agent



				* Mast head NGI and BF 3 Tête de mât NGI et BF 3	* Mast head NGII and BF4, BF5 Tête de mât NGII et BF4, BF5
Ø cable in mm	A m.m.	B m.m.	Small head ball Petite tête Ref	cupels coupelles	Big head ball Grosse tête Ref
5/32"	4	4,2	452224	Ref : 101702	Ref : 101702 Ø 26 x 11 (m.m)
3/16"	5	9	452233	Ø 26 x 11 (m.m)	Ref : 101703 Ø 34 x 20 (m.m)
	5	5,3	452225		Ref : 101701 Ø 26 x 16,3 (m.m)
7/32"	5,8	10,8	452234		Ref : 101701 Ø 26 x 16,3 (m.m)
	6	6,3	452226		Ref : 101703 Ø 34 x 20 (m.m)
1/4"	6,7	12,6	452232	Ø 26 x 16,3 (m.m)	Ref : 101703 Ø 34 x 20 (m.m)
9/32"	7	7,4	452227	Ref : 101701	Ref : 101703 Ø 34 x 20 (m.m)
	7,4	14			452240
5/16"	8	8,3	452228	Ø 26 x 16,3 (m.m)	452229 Ref : 101703
	8,3	16			452230
3/8"	10	18			452235 Ø 34 x 20 (m.m)
	10	10,5			452231
7/16"	11,8	20			
	12	12,5			

*** IMPORTANT :**

MAST HEAD NG I + BF 3 : The stemball terminal will be always a small head ball and matche with one cupel Ref : 101702 or 101701
TETE DE MAT NG I +BF 3 : Les embouts à rotule sont toujours à petite tête et se montent avec une coupelle Ref : 101702 ou 101701.

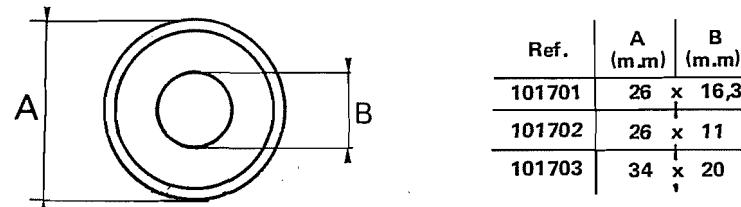
MAST HEAD NG II +BF4 +BF5 : 1 - If the terminal is a small head ball, it must be matche with one cupel Ref : 101702 or 101701 + one cupel Ref : 101703.

Si l'embout est à petite tête, il doit être monté avec une coupelle Ref : 101702 ou 101701 + une coupelle Ref : 101703

2 -If the terminal is a big head ball, it must be match with one cupel Ref : 101703.

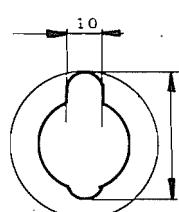
Si l'embout est à grosse tête, il doit être monté avec une coupelle Ref : 101703.

■ Cupeis/Coupelles

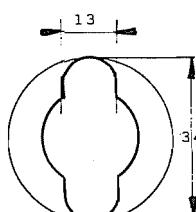


■ Stemball tang specifications/Ancre rotule spécifications

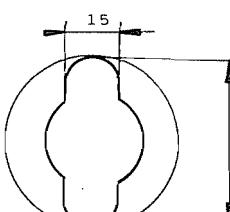
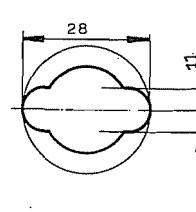
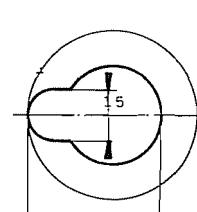
BF3



BF4



BF5

Mast head NG I
Tête NG IMast head NG II
Tête NG II

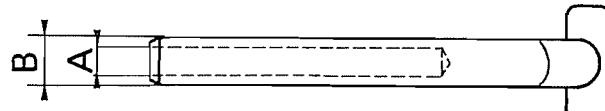


ISOMAT FITTING FOR STANDING RIGGING

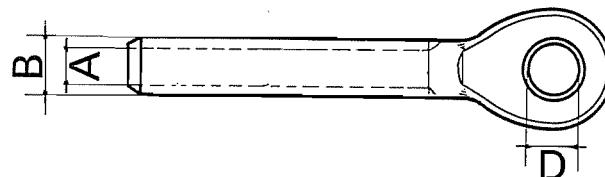
PIECES ISOMAT POUR GREEMENT DORMANT

Eye terminal <i>Embout à oeil</i>						T. Terminal <i>Embout à T</i>	T. Tang <i>Ancrage pour T</i>		
Ø cable in mm	A m.m	B m.m	Ø pin Øaxe m.m	D	Ref	Ref	E m.m	F m.m	Ref
5/32"	4,2	7,5	8	8,3	452203	452212	18	8,3	101101
4	4,2	7,5	8	8,3					
3/16"	5	9	9,6	10,3	452218	452242	23	11	101102
5	5,3	9	8	8,3	452204	452213	26	12	101103
7/32"	5,8	10,8	11,2	12,3	452217	452243	35	14,6 +screw vis	101104
6	6,3	12,6	10	10,3	452205	452214			
1/4"	6,7	12,6	12,7	13	452219	452244	37	19	101107
7	7,4	14	12	12,3	452206	452215			
9/32"	7,4	14	12,7	13	452220	452216			
8	8,3	16	12	12,3	452207	452247			
5/16"	8,3	16	15,87	16,5	452236	452241			
3/8"	10	18	15,87	16,5	452237				
10	10,5	18	14	14,3	452208				
7/16"	11,8	20	19,05	19,5	452238				
12	12,5	20	16	16,5	452209				

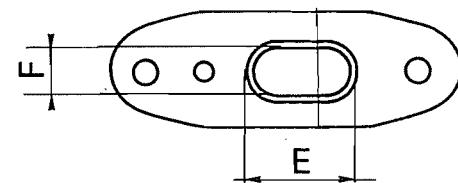
■ T TERMINAL
EMBOUT A T



■ EYE TERMINAL
EMBOUT A OEIL



■ T TANG PLATE
PLAQUE ANCRAGE A T





ISOMAT FITTING FOR STANDING RIGGING

PIECES ISOMAT POUR GREEMENT DORMANT

FIXATION : Twin backstay, twin forestay, furling system, navtec rod
Double patares, double étai, foc à rouleau, rod navtec

■ MAST HEAD NG I / TETE DE MAT NG I

	Ø A (m.m.)	Ø B (m.m.)	L (m.m.)	Ref.	Désignation
	Ø 26	Ø 8,3 Ø 10,3 Ø 12,3 Ø 13	55	452927 452928 452929* 452930	Stemball/Eye NG I Rotule/Oeil NG I Must be used with toggle Doit être utilisé avec un cardan
	Ø 26	Maxi Ø 13	55	452937	Stemball/Eye no drilled Rotule/Oeil non percé
 <i>Cardan simple NG I *</i>	Ø 12	Ø 8,3 Ø 10,3 Ø 12,3	40	452945 452946 452947	Used for furling system and rod Navtec <i>Utilisé pour foc enrouleur et rod Navtec</i>
 <i>Cardan double NG I *</i>	Ø 12	Ø 8,3 Ø 10,3 Ø 12,3	35	452939 452940 452941	Used for twin backstay and forestay <i>Utilisé pour double patares et étai</i>

* Standard clevis pin on the toggle, use stemball/Eye - Ref. : 452929
Axe du cardan standard, utiliser la rotule/Oeil - Réf. : 452929

■ MAST HEAD NG II / TETE DE MAT NG II

	Ø A (m.m.)	Ø B (m.m.)	L (m.m.)	Ref.	Désignation
	Ø 34	Ø 8,3 Ø 10,3 Ø 12,3 Ø 13 Ø 14,5 Ø 16,5	145	452931 452932 452933 452934 452935 452936*	Stemball/Eye NG II Rotule/Oeil NG II Must be used with toggle Doit être utilisé avec un cardan
	Ø 34	Maxi Ø 16,5	145	452938	Stemball/Eye no drilled Rotule/Oeil non percé
 <i>Cardan simple NG II *</i>	Ø 16	Ø 10,3 Ø 12,3 Ø 14,5 Ø 16,5	50	452948 452949 452950 452951	Used for furling system and Rod Navtec <i>Utilisé pour foc enrouleur et Rod Navtec</i>
 <i>Cardan double NG II *</i>	Ø 16	Ø 10,3 Ø 12,3 Ø 14,5	30	452942 452943 452944	Used for twin backstay and forestay <i>Utilisé pour double patares et étai</i>

* Standard clevis pin, must be use with stemball/Eye - Ref. : 452936
Axe standard, doit être utilisé avec rotule/Oeil - Réf. : 452936

NOTA :

For fixation Navtec Rod rigging on BF (Lower shroud, Intér), consult NAVTEC or ISOMAT
Pour fixation gréement Rod Navtec sur platine BF, consulter NAVTEC ou ISOMAT



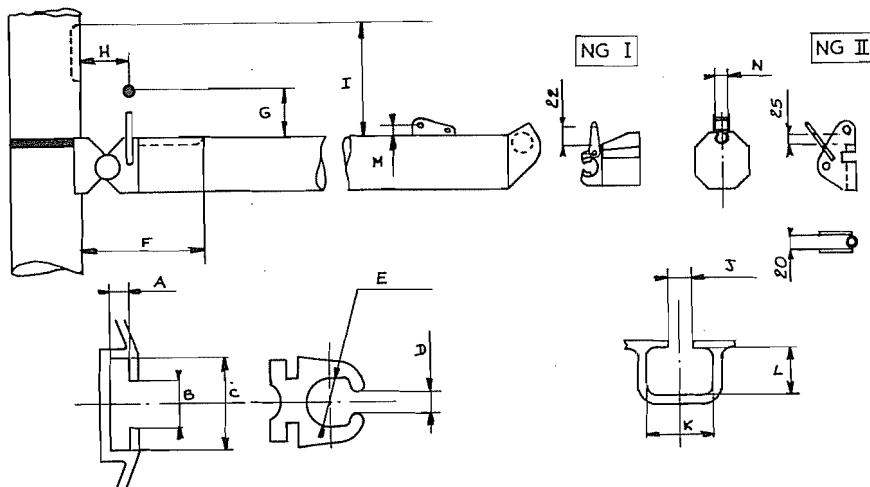
ISOMAT FITTING FOR STANDING RIGGING PIECES ISOMAT POUR GREEMENT DORMANT

Plan pièce	Ø A	Ø B	Ref. ISOMAT	Désignation de la pièce
	Ø 34	Ø 10,3	452 904	Stemball/Eye with double toggle NG II <i>Grosse rotule à chappe double</i>
	Ø 34	Ø 12,3	452 905	
	Ø 34	Ø 14,5	452 906	
				L = 180mm
	Ø 26	Ø 8,3	452 907	Stemball/Eye with double toggle NG I <i>Petite rotule à chappe double</i>
	Ø 26	Ø 10,3	452 908	
	Ø 26	Ø 12,3	452 909	
				L = 90 mm
	Ø 34	Ø 10,3	452 910	Stemball/Eye with single toggle NG II <i>Grosse rotule à chappe simple</i>
	Ø 34	Ø 12,3	452 911	
	Ø 34	Ø 14,5	452 912	
	Ø 34	Ø 16,5	452 926	
				L = 190 mm
	Ø 26	Ø 8,3	452 913	Stemball/Eye with single toggle NG I <i>Petite rotule à chappe simple</i>
	Ø 26	Ø 10,3	452 914	
	Ø 26	Ø 12,3	452 915	
				L = 100 mm



TECHNICAL SHEET FOR THE SAIL MAKER USE

RENSEIGNEMENT TECHNIQUE A L'USAGE DES VOILIERS



Profil mast	METRIQUE SPECIFICATION (m.m.)								
	COULISSEAU		RALINGUE		VIT DE MULET				
	A	B	C	D	E	F	G	H	I
NG 28	4,5	10	20	4	10	130	20	60	180
NG 31	4,5	10	20	4	10	130	20	60	180
NG 37	4,5	10	20	4	10	130	20	60	180
NG 45	4,5	10	20	4	10	130	20	60	180
NG 51	4,5	10	20	4	10	140	30	60	180
NG 60	6	14	25	5	10	140	30	60	180
NG 70	6	14	25	5	10	140	30	60	180
NG 80	6	14	25	5	10	140	30	60	180
NG 86	6	14	25	5	10	140	30	60	180
NG 105	6	14	25	5	10	140	30	60	180
MC 110	6,8	13	25,9			330	62	73	220
MC 130	6,85	13,2	25,9			330	62	73	220

ENGLISH SPECIFICATION (ins)									
SLIDER					LUFF GROOVE		GOOSENECK		
A	B	C	D	E	F	G	H	I	
.177	.393	.787	.157	.393	5.11	.787	2.36	7.08	
.177	.393	.787	.157	.393	5.11	.787	2.36	7.08	
.177	.393	.787	.157	.393	5.11	.787	2.36	7.08	
.177	.393	.787	.157	.393	5.11	.787	2.36	7.08	
.177	.393	.787	.157	.393	5.51	1.81	2.36	7.08	
.236	.551	.984	.196	.393	5.51	1.81	2.36	7.08	
.236	.551	.984	.196	.393	5.51	1.81	2.36	7.08	
.236	.551	.984	.196	.393	5.51	1.81	2.36	7.08	
.236	.551	.984	.196	.393	5.51	1.81	2.36	7.08	
.236	.551	.984	.196	.393	5.51	1.81	2.36	7.08	
.267	.511	1.01				12.9	2.44	2.87	8.66
.269	.519	1.01				12.9	2.44	2.87	8.66

Profil boom	METRIQUE SPECIFICATION (m.m.)					ENGLISH SPECIFICATION (ins)				
	COULISSEAU ou RALINGUE			CURSEUR		SLIDER or ROPE		OUTHAWL SLIDER		
	J	K	L	M	N	J	K	L	M	N
NB 16	5	13	13,6			.196	.511	.535		
NB 26	5	13	14			.196	.511	.551		
NB 32	6	26	20	35	20	.236	1.02	.787	1.37	.787
NB 40	6	26	20	35	20	.236	1.02	.787	1.37	.787
NB 55	6	26	20	35	20	.236	1.02	.787	1.37	.787

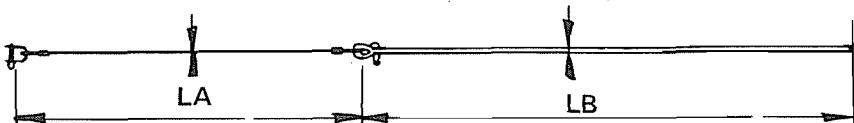


STANDARD BOOM OUTHAUL PURCHASE

PALAN DE BOME STANDARD

\emptyset A = wire/cable

\emptyset B = rope/textile



Profil	\emptyset A (m.m.)	LA (m.m.)	\emptyset B (m.m.)	LB (m.m.)	Shackle/Manille Pin Ø Axe	Ref. ENS.
NB 16	3	2.000	8	3.000	\emptyset 5	305309
NB 26	4	2.500	10	5.000	\emptyset 5	305310
NB 32	4	2.500	10	5.000	\emptyset 5	305311
NB 40	5	3.000	10	6.000	\emptyset 6	305312
NB 55	5	3.000	12	6.000	\emptyset 6	305313

Nb	Ref.	Désignation
1	203302	Shackle Manille \emptyset 5
1	207102	Cable/Câble \emptyset 3
1	803205	Rope Textile \emptyset 8
1	561151	Single block Poulie simple \emptyset 35
2	203102	Thimbles/Cosses
2	203302	Nico press slice/Manchons
1	558102	Pulley clips PN2

Rope/Textile \emptyset 8

Cable/Câble \emptyset 3

2.000

Purchase 2 strands/Palan 2 brins - Ref. 305302

Nb	Ref.	Désignation
1	203302	Shackle Manille \emptyset 5
1	207103	Cable/Câble \emptyset 4
1	803205	Rope Textile \emptyset 8
1	561151	Single block \emptyset 35 Poulie simple
1	561152	Single block with becket Poulie simple à ringot
1	203103	Thimbles/Cosses
4	203203	Nico press slice/Manchons
1	558102	Pulley clips PN2

Cable/Câble \emptyset 4

Rope/Textile \emptyset 8

2.500

Purchase 3 strands/Palan 3 brins - Ref. 305303

Nb	Ref.	Désignation
1	203309	Shackle Manille \emptyset 6
1	207103	Cable/Câble \emptyset 4
1	803206	Rope Textile \emptyset 10
1	561153	Double block \emptyset 45 Poulie double
1	561152	Single block with becket Poulie simple à ringot
1 + 4	203103 203203	Thimbles + Nico press Cosses + Manchons
1	558102	Pulley clips PN2

Cable/Câble \emptyset 4

Rope/Textile \emptyset 10

2.500

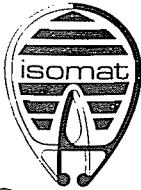
Purchase 4 strands/Palan 4 brins - Ref. 305304

Nb	Ref.	Désignation
1	203309	Shackle Manille \emptyset 6
1	207104	Cable/Câble \emptyset 5
1	803206	Rope Textile \emptyset 10
1	561153	Double block \emptyset 45 Poulie double
1	561154	Fiddle block with becket Poulie double à ringot
1 + 4	203104 203204	Thimbles + Nico press Cosses + Manchons

Cable/Câble \emptyset 5

Rope/Textile \emptyset 10

3.000



ISOMAT REPRESENTATIVES THROUGHOUT THE WORLD

NORTH AMERICA

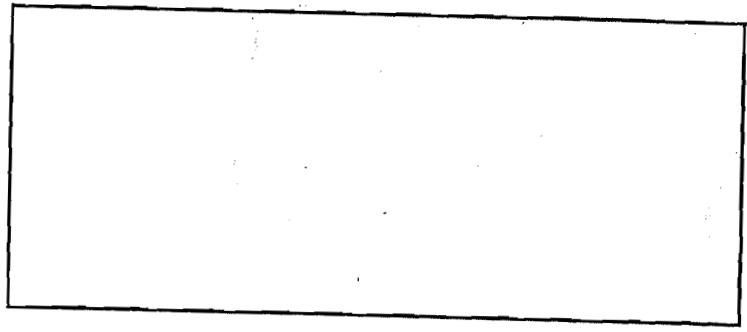
CANADA	E.B. SPARS 3201 Harwood boulevard Vaudreuil - QUEBEC Tel. : (514) 4551678 TLX : 5823501	NORTH WEST	YACHT RIGGERS 4448, 27 th Avenue West Seattle - WASH. 89199 Tel. : (206) 2827737 TLX : 91044450
U.S.A.	FRANK	CALIFORNIA	TOM HUBER 14 Clover Irvine - CAL. 92714 Tel. : (714) 5469250 TLX : 9105951911
NORTH EAST	BAY SAILING EQUIPMENT 986 Cherry street Fall River, MASS. 508 678-4419 Tel. : (617) 6784419 TLX : 951422		
FLORIDA	ENGINEERED MARINE SYSTEMS INC 80 N.W. 73rd street Miami - FL. 33150 Tel. : (305) 7516071 TLX : 6811353 (Paria)	CARRABEEN	SANDIMAR Résidence Marina les pieds dans l'eau 97110 POINTE-A-PITRE Tel. : (590) 82 99 39 TLX : 919228

EUROPE

BELGIUM	KORTJACHT Röntgenstraat 2	SOUTH GERMANY	PETER FRISCH Musto N Hyde Sails
DUTCH	Industrieterrün de Bosschen Oud Beijerlaasd - NEDERLAND	AUSTRIA	Jakob Klar Strasse a 800 München 40 - GERMANY
	Tel. : 1860.3230 TLX : 25733 (Kortjacht BV)	SWITZERLAND	Tel. : 89. 3796.59 TLX : 528549 (Frish D)
DENMARK	SOPHUS BERENDSEN MARINE A.S. Kalkbraenderihavnsgade 20 2100 Kobenhavn	SPAIN	IGENA SA Rafael Riera Prats, Nave N° 7 Vilassar de Dalt - Barcelona
	Tel. : 1-203600 TLX : 27435 (Marine DK)		Tel. : 3.759 2300 TLX : 69018 (Livie)
ENGLAND	BOYCE SPARS LTD 35 Maldon Road Burham on Crouch ESSEX CMO 8 NS	SWEDEN	WESSEL MARINE TRADING AB Varvsvagen 1 S 18146 - Lidingö
	Tel. : 621. 782 821 TLX : 995494 (Yotest G)	FINLAND	Tel. : 8.767 04 50 TLX : 12720 (canboats)
GERMANY	HAHNFELD MASTEN Neidenburger Strasse 12 2800 - Bremen 1	NORWAY	
	Tel. : (421) 44 21 90 TLX : 244828		

FAR EAST

TAIWAN	WAH LEE IND. CORP. 238, Lo Ho 2nd Road Kaoshung Tel. : 7.231 41 17 TLX : 71118 (Whalee)	WAH LEE IND. CORP. 469, Fu Hsing North Road Taipei Tel. : 2.751 20 87 TLX : 25415 (Whalee TP)
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