

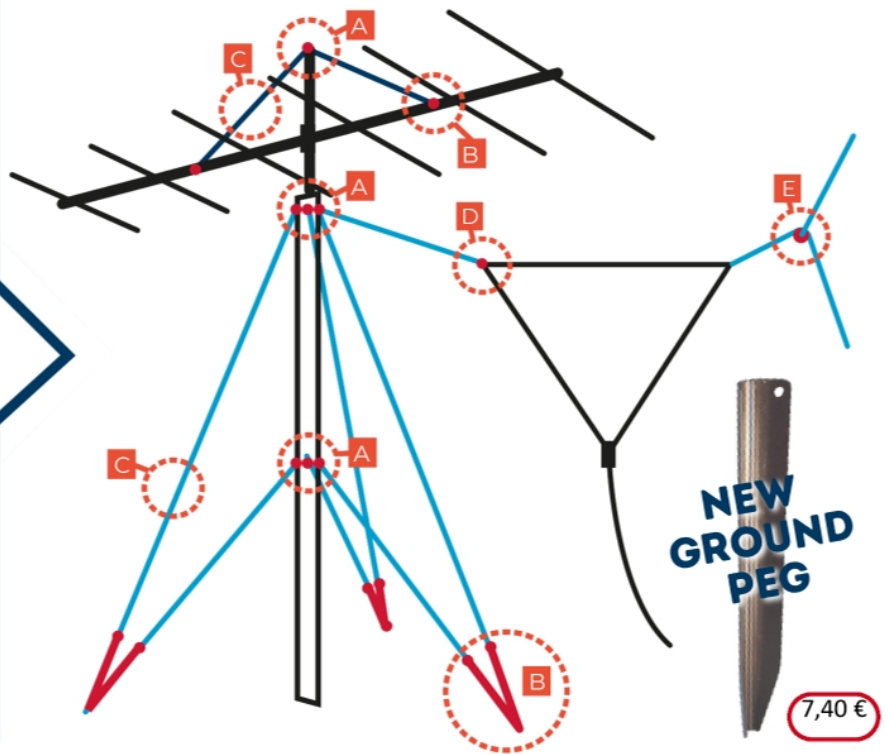
WHY GUY WITH SYNTHETIC ROPES?
 NO RF INTERACTION * LIGHT WEIGHT * EASY HANDLING * COST EFFECTIVE

MASTRANT

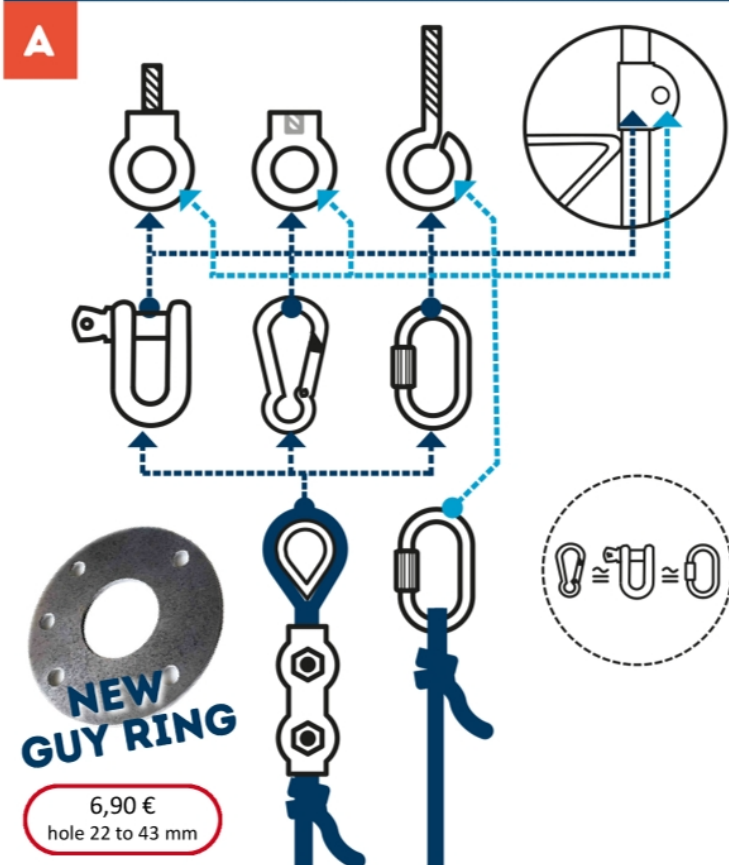
ANTENNA GUYING

WHY MASTRANT?
 DESIGNED FOR GUYING * UV RESISTANCE * HIGH STRENGTH * LOW ELONGATION - NO STRETCH * WEATHER DURABILITY * WIDE RANGE OF ACCESSORIES AND TOOLS

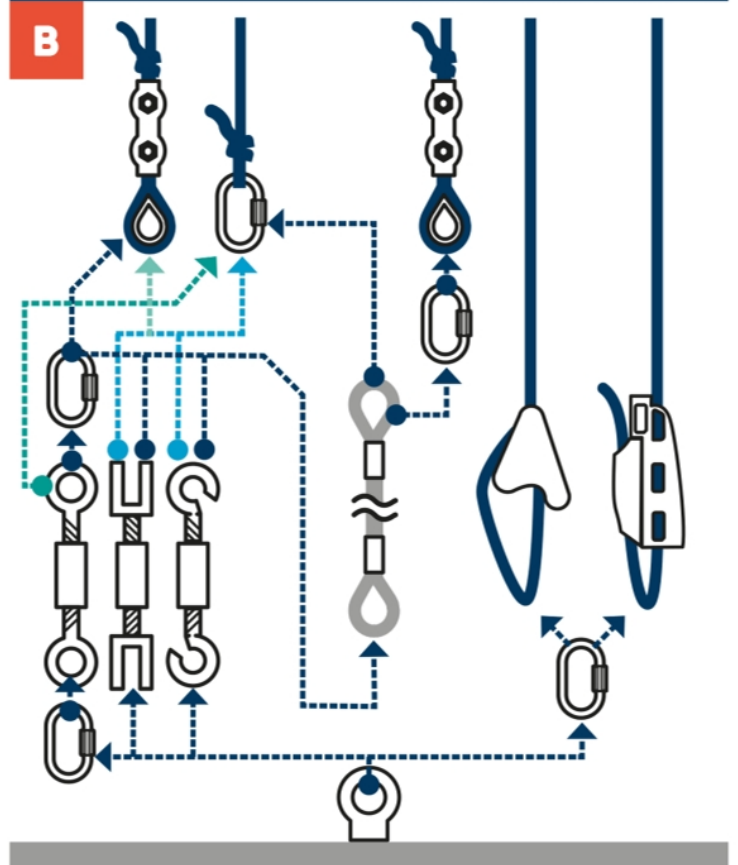
HOW?
 CHOOSE APPROPRIATE GUYROPE * CALCULATE LENGTHS * THINK ABOUT IT * DO IT * REGULARLY CHECK IT



MAST / TOWER GUY POINT



TENSIONING + CONNECTING

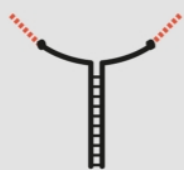


C

TYPICAL INSTALLATIONS + RECOMMENDED GUY ROPES

TYPE OF USE

Wire antenna suspension



Conventional wire antennas

High tension - heavy wire, 160m

Vertical antenna



Up to 20m, Ø 25-75 mm

Up to 40m, Ø 50-100 mm

Mast Ø 1 to 4"



Up to 10m with 3 el. 3-B or long VHF Yagi

Up to 20m, 5 el. Yagi for 20m

Lattice tower



Up to 20m 7 el. tribander

Up to 60m 3 stack of 5 el. Yagi 20m

MASTRANT

ANTENNA GUYING

breaking strength (BS)

safe working load (SWL)

ROPE TYPE

PRICE

€

Longer spools available

Spool meters

100

31

1

Size of couplers



LEVELS*

Ø SIZE

MASTRANT CLASSIC

STRETCH = ELONGATION: 2.4%, CORE = POLYESTER & POLYPROPYLENE, COVER = POLYESTER

Ø SIZE	MASTRANT CLASSIC	breaking strength (BS)	safe working load (SWL)	ROPE TYPE	PRICE	Spool meters	Size of couplers
2 1/16"		100	30	P 20 n/a 0,28 R 22 n/a 0,31	5	5	6
3 1/8"		200	60	P 28 12 0,39 R 32 14 0,45	5	5	6
3+ 9/64"		300	90	P 38 13 0,53 C 49 17 0,69	6	5	6
4 5/32"		440	130	P 45 18 0,59 P 66 25 0,86	6	5	6
5 3/16"		540	160	R 81 n/a 1,05 O n/a 34 1,29	6	5	6
6 1/4"		730	220	Q 102 n/a 1,22 C 124 n/a 1,49 S 124 n/a 1,49	8	6	8
8 5/16"		1700	510	Q 134 n/a 1,61	10	6	8
11 7/16"		2780	830	Q 193 n/a 2,32	HD	7	10
14 9/16"		3230	970	Q 263 n/a 3,16	-	10	14

Ø SIZE

MASTRANT PREMIUM

EXTRA STRONG

STRETCH = ELONGATION: <1.2%, CORE = DYNEEMA® DM 20, COVER = POLYESTER

Ø SIZE	MASTRANT PREMIUM	breaking strength (BS)	safe working load (SWL)	ROPE TYPE	PRICE	Spool meters	Size of couplers
1 3/64"		100	30	M 40 15 0,56	5	5	6
2 3/32"		220	70	M 47 17 0,66	5	5	6
3 1/8"		390	120	M 77 27 1,09	6	5	6
4 5/32"		900	270	M 156 n/a 2,03	7	5	6
5 3/16"		1200	360	M 241 n/a 3,13	8	6	8
6 1/4"		1850	560	M 300 n/a 3,60	10	7	10
8 5/16"		2600	780	M 427 n/a 5,12	HD	8	12
10 3/8"		3850	1160	M 739 n/a 8,87	-	10	16
12 1/2"		5500	1650	M 1049 n/a 12,6	-	12	20

WHY PREMIUM?

Double strength for the same diameter
+
Half the stretch

* LEVELS = NUMBER OF GUY ATTACHMENT POINTS. OTHER ASSUMPTIONS: WIND SPEED UP TO 160 km/h, DISTANCE BETWEEN ANCHOR POINT AND BASE OF MAST > 70% OF THE HEIGHT

DETAILED INSTRUCTIONS, USEFUL TIPS, TRICKS AND ADVICE ON WEBSITE WWW.MASTRANT.COM

MASTRANT - P



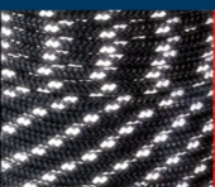
MASTRANT - R



MASTRANT - C



MASTRANT - Q



MASTRANT - S



MASTRANT - O



MASTRANT - M

A: Terminating

Thimbles (stainless A4)

ATH02	2 mm (min.int.diam. 8 mm)	0,27
ATH03	3 mm (min.int.diam. 10 mm)	0,31
ATH04	4 mm (min.int.diam. 11 mm)	0,42
ATH05	5 mm (min.int.diam. 13 mm)	0,54
ATH06	6 mm (min.int.diam. 14 mm)	0,65
ATH08	8 mm (min.int.diam. 18 mm)	1,10
ATH10	10 mm (min.int.diam. 24 mm)	1,70
ATH12	12 mm (min.int.diam. 30 mm)	1,90
ATH14	14 mm (min.int.diam. 32 mm)	2,70



Duplex wire rope clips (stainless A4)

ADC02	2 mm (M4, wrench 7)	1,20
ADC03	3 mm (M4, wrench 7)	1,50
ADC04	4 mm (M5, wrench 8)	2,10
ADC05	5 mm (M5, wrench 8)	2,70
ADC06	6 mm (M6, wrench 10)	3,70
ADC08	8 mm (M8, wrench 13)	5,50
ADC10	10 mm (M10, wrench 16)	10,40



Fist-grips (galvanised)

APC06	6 mm (5-8 mm, M6)	2,70
APC08	8 mm (8-10 mm, M6)	3,80
APC10	10 mm (10-12, M8)	5,40
APC12	12 mm (12-14, M10)	6,90
APC16	16 mm (14-18, M12)	9,20



Bull-dog grips

		S.s.	Galv.
ASC02	2 mm (M3)	1,40	
ASC03	3 mm (M3)	1,60	
ASC04	4 mm (M4)	1,70	
ASC05	5 mm (M5)	1,90	0,35
ASC06	6 mm (M6)	2,20	0,42
ASC08	8 mm (M6)	2,60	0,80
ASC10	10 mm (M8)	3,80	1,10
ASC12	12 mm (M10)	7,10	
ASC13	13 mm (M10, galv. M12)	8,50	1,90



A, B: Coupling

Spring hooks - Carabiners (stainless A4)

AHO04	4 mm (BS: 230 kg)	1,40
AHO05	5 mm (BS: 400 kg)	1,50
AHO06	6 mm (BS: 480 kg)	1,80
AHO07	7 mm (BS: 600 kg)	2,60
AHO08	8 mm (BS: 850 kg)	3,30
AHO10	10 mm (BS: 1150 kg)	6,00
AHOS05	smooth 5 mm (BS: 170 kg)	1,90
AHOS07	smooth 7 mm (BS: 450 kg)	2,70
AHOS10	smooth 10 mm (BS: 950 kg)	6,30



Chain quick-acting couplers (stainless A4)

ACC04	4 mm, max.opn.5.5 mm (500 kg)	1,70
ACC05	5 mm, max.opn.6.5 mm (1350 kg)	2,00
ACC06	6 mm, max.opn.7.5 mm (2000 kg)	3,00
ACC07	7 mm, max.opn.8.5 mm (2500 kg)	4,20
ACC08	8 mm, max.opn.9.5 mm (3300 kg)	4,60
ACC10	10 mm, max.opn.12 mm (5500 kg)	8,10
ACC12	12 mm, max.opn.14.5 mm (7000 kg)	12,30



Shackles (stainless A4)

ASE04	4 mm, 8x14 mm hole (550 kg)	1,90
ASE05	5 mm, 10x17 mm hole (900 kg)	2,10
ASE06	6 mm, 12x21 mm hole (1300 kg)	2,50
ASE07	7 mm, 14x24 mm hole (1800 kg)	2,80
ASE08	8 mm, 16x28 mm hole (2400 kg)	3,10
ASE10	10 mm, 19x35 mm hole (3800 kg)	5,80
ASE12	12 mm, 23x41 mm hole (5550 kg)	8,30



Swivels (stainless A4)

ASW01	6 mm, 12x11 mm hole (1300 kg)	5,80
ASW02	8 mm, 16x16 mm hole (2500 kg)	10,00



B: Attaching

Fixing eyes (stainless)

AES061	eye - bolt M6 (hole 16, length 11, 800 kg)	2,20
AES081	eye - bolt M8 (hole 20, length 13, 1450 kg)	3,00
AES101	eye - bolt M10 (hole 25, length 17, 2300 kg)	5,70
AES121	eye - bolt M12 (hole 30, length 20, 3300 kg)	6,70
AEN06	eye - nut M6 (hole 16, 800 kg)	1,80
AEN08	eye - nut M8 (hole 20, 1450 kg)	2,60
AEN10	eye - nut M10 (hole 25, 2300 kg)	4,40
AEN12	eye - nut M12 (hole 30, 3300 kg)	6,20



Rope winder (aluminium)

ARW32A	Length 320 mm, for 20-50 m rope	7,40
--------	---------------------------------	------



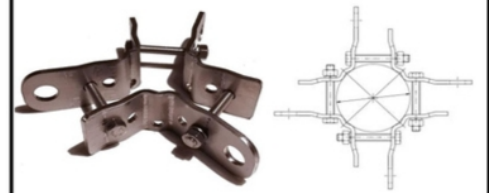
B: Attaching

Mast clamps Mastrant (stainless steel)

Parts can be used for both 3 or 4 directional setups.

Mast clamps (stainless: threads A4, plates A2)

ACM1306	universal 3 dir., masts Ø 15-53 mm	20,40
ACM1310	universal 3 dir., masts Ø 15-102 mm	21,60
ACM1406	universal 3-4 dir., masts Ø 32-85 mm	27,20
ACM1410	universal 3-4 dir., masts Ø 32-127 mm	28,80



Mast clamps (stainless: threads A4, plates A2)

ACM230x	light 3 direct., masts Ø 10-34 mm	16,20
ACM240x	light 3-4 dir., masts Ø 26-52 mm	21,60



Mast clamps (galvanised)

ACL330	3 directional, masts Ø 30-55 mm	11,20
ACL445	4 directional, masts Ø 45-75 mm	14,60



Guy rings (aluminium)

AGR1*	Outer diameter of the ring 100 mm	6,90
Tube diam. 22, 28, 31, 34, 37, 40, 43 mm (7/8" to 1-11/16")		



Ground peg

ASGP3A	Ground peg 300 mm aluminium	7,40
--------	-----------------------------	------



C: Terminated guy ropes Mastrant-P & Q

Ready-made guy ropes with a thimble fitted on one end.

		Length: 20 m	30 m
NP040x0	4 mm (5/32"), blue, BS: 500 lb.	15.-	20.-
NP050x0	5 mm (3/16"), blue, BS: 600 lb.	20.-	26.-
NR050x0	5 mm (3/16"), yellow, BS: 600 lb.	23.-	31.-
NO050x0	5 mm (3/16"), refl. orange, BS: 600 lb.	26.-	36.-
NQ060x0	6 mm (1/4"), grey, BS: 800 lb.	27.-	37.-
NQ080x0	8 mm (5/16"), grey, BS: 1870 lb.	34.-	47.-
NQ110x0	11 mm (7/16"), grey, BS: 3060 lb.	64.-	83.-

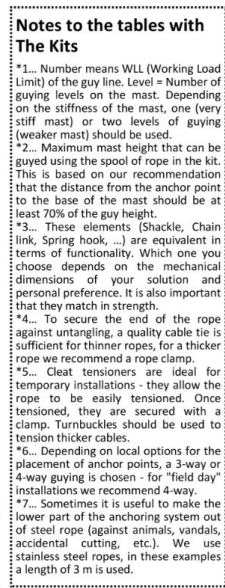


Kit 3-way (*6)	Price EUR:	39 €	83 €	54 €	102 €
	Rope length (*2) for maximum mast height [m]:	8	16	13	16
Kit 4-way (*6)	Price EUR:	48 €	101 €	65 €	124 €
	Rope length (*2) for maximum mast height [m]:	6	12	9	12
Options (check catalog or web):	Different rope color, different rope type (thickness, strength) and length Different connecting elements Mast clamps: ACM, MC-clamps, MCB, Ground pins: MCB				

Part	Options	Parts				
		Light 1 level (132 kg)	Medium 1 level (160 kg)	Heavy 1 level (220 kg)	2 levels (220 kg)	HD max (555 kg)
Mast Capture	bracket, dam ACMR, Guy ring, Tower guy Mast, Tower torque arm stabiliser					
Connection	Shackle, Chain link, Spring hook (*)	AS106	AS107	AC006	AS108	AS108
Rope protection	Thimble	AD104	AD105	AD106	AD108	AD108
Rope clamping	Rope clip	AD004	AD005	AD006	AD008	AD008
Rope securing	Knobs					
Rope hold	Cable tie, Rope clip (*)					
Rope clamping	Masthead - type Length (m)	MP04	MP05	MP05	AC006	AC006
Rope hold	Cable tie, Rope clip (*)	100	100	100	200	200
Rope securing	Knobs				AS006	AS006
Rope clamping	Rope clip	AD004	AD005	AD006	AD008	AD006
Rope protection	Thimble					
Turnbuckle	Clear or nonbreakable (*)	CL376	CL324	CL234	AC008	AC008
Tempering	Shackle, Chain link, Spring hook	AC006	AC008	AC008	AC008	AC008
Dredge anchor	Pay, Stake, Eye					

Guy line kits for TOWERS
Sorted from mast to ground, all HW is stainless steel

Kit w/o steel tail (*2)	Price EUR:	387 €	773 €	1 082 €	1 842 €
	Rope length (*2) for maximum mast height [m]:	26	32	32	32
Kit with steel tail (*2)	Price EUR:	503 €	1 007 €	1 347 €	2 230 €
	Rope length (*2) for maximum mast height [m]:	29	33	33	33
Options (check catalog or web):	Different rope type (thickness, strength) and length Different connecting elements				



Country distributors on the web. DE-ES-FR-GB-IT-PT-SE-CH