



# INDICE

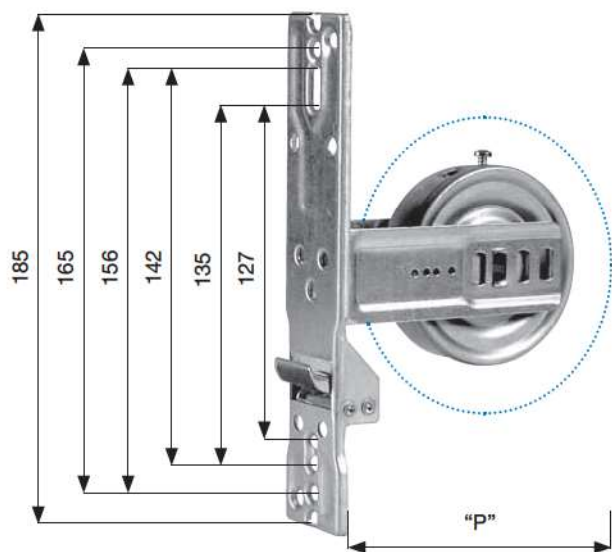
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## AVVOLGITORI E PLACCHE "ESA"

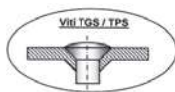
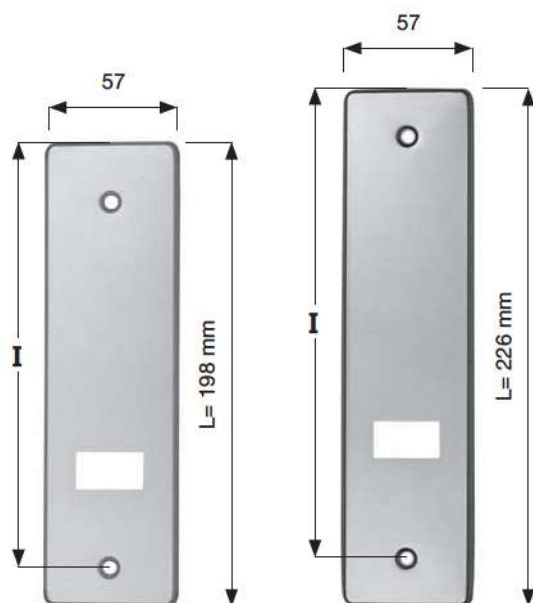
### "ESA" STRAP COILERS, COVERING PLATES

Gli avvolgitori e le placche serie ESA costituiscono una valida soluzione, soprattutto in caso di sostituzione di avvolgitori preesistenti; un unico avvolgitore ESA con la relativa placca può sostituire gli avvolgitori tradizionali con interessi 127-135-142-156-165-185.



AVVOLGITORE "ESA" - "ESA" STRAP COILER			
articolo item	capacità m	fornito per ingombro "P"	su richiesta ingombro "P"
098.A.04.20	4	143 mm	165 mm
098.A.05.20	5,5	143 mm	165 mm
098.A.06.20	6	165 mm	143 mm
098.A.08.20	8	185 mm	/
098.A.11.20	11	185 mm	/
098.A.12.20	12	210 mm	220/240 mm
*098.A.09.20	*9	*143 mm	*165 mm
*098.A.10.20	*10	*165 mm	*185 mm

\* minimo ingombro - compact strap coiler



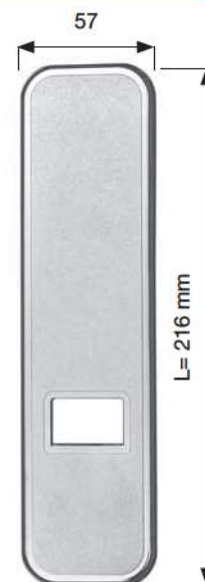
PLACCHE "ESA" CON FORI PER VITI "ESA" COVERING PLATE - HOLES FOR SCREWS		
articolo item	interasse fori " I " holes distance	lunghezza placca plate length
098.P.P1.	XX	127 mm
098.P.P2.	XX	135 mm
098.P.P3.	XX	142 mm
098.P.P4.	XX	156 mm
098.P.P5.	XX	165 mm
098.P.P6.	XX	185 mm
XX	finitura placca - finishing	
30	inox / stainless steel	
71	all.anod.argento / alu. silver anod.	
74	all.vern.marrone chiaro / alu. bronze painted	
77	all.vern.bianco / alu. white painted	
79	all.vern.oro / alu. gold painted	

n.b. le placche per avvolgitori ESA e PENTA non sono intercambiabili



PLACCHE PLASTICA "ESA" AD INCASTRO - senza viti "ESA" INTERLOCKING COVERING PLATE - no screws					
corta L = 197 mm			lunga L = 216 mm		
superficie lucida	superficie satinata			superficie lucida	superficie satinata
098.P.0L.XX	098.P.00.XX	XX	COLORE	098.P.LL.XX	098.P.L0.XX
n.d.	•	90	avorio	n.d.	•
n.d.	•	93	bianco	•	•
n.d.	n.d.	95	nero	n.d.	•
n.d.	•	96	marrone	n.d.	•
•	•	91	cromo	•	•
n.d.	•	89	argento	•	•
•	•	99	oro	•	•

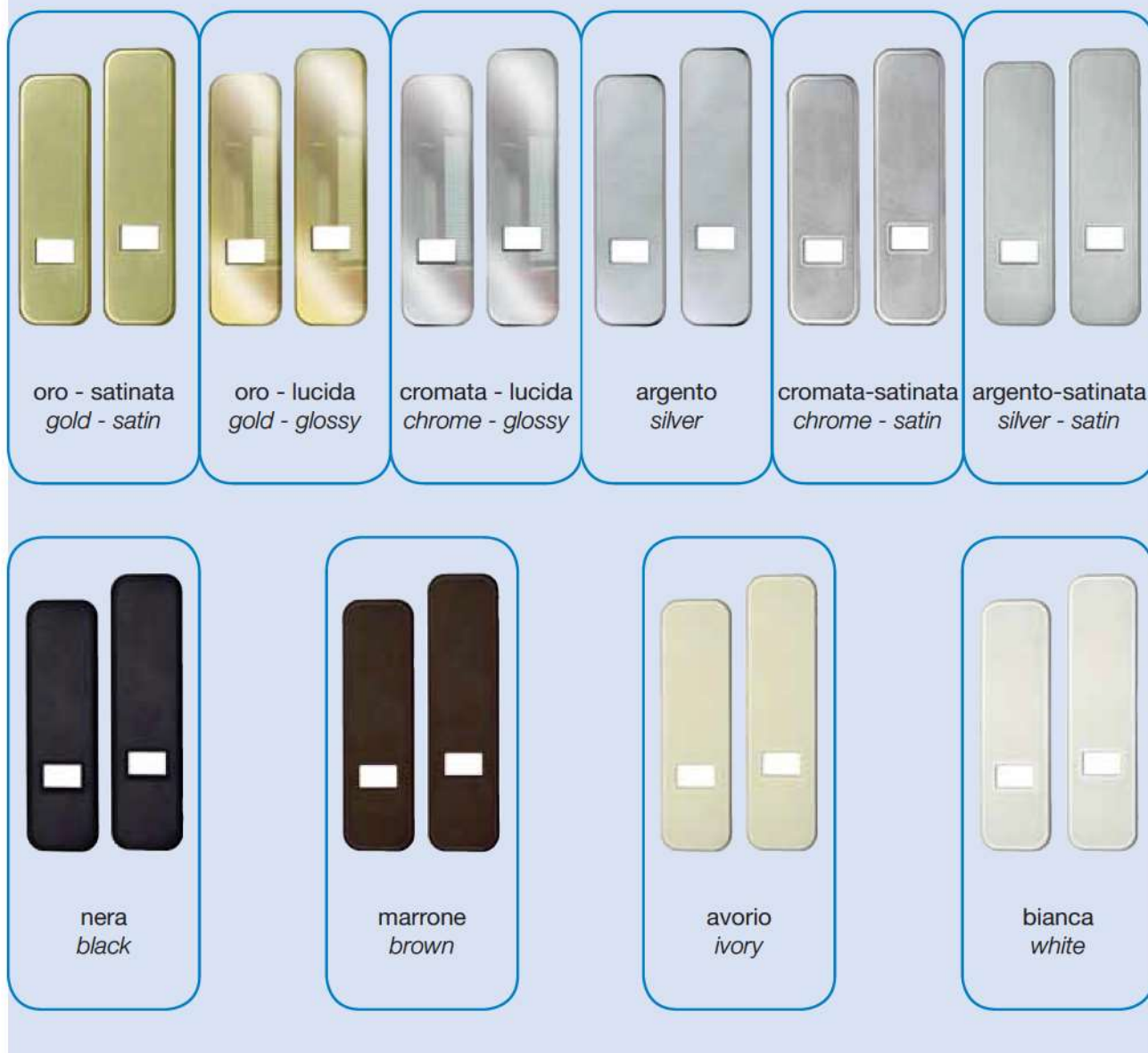
• disponibile / available - n.d. = non disponibile/not available



## COLORI E FINITURE PLACCHE

COVERING PLATES: COLOURS AND FINISHINGS

### PLACCHE IN PLASTICA (SOLO PER ESA)



### PLACCHE IN METALLO

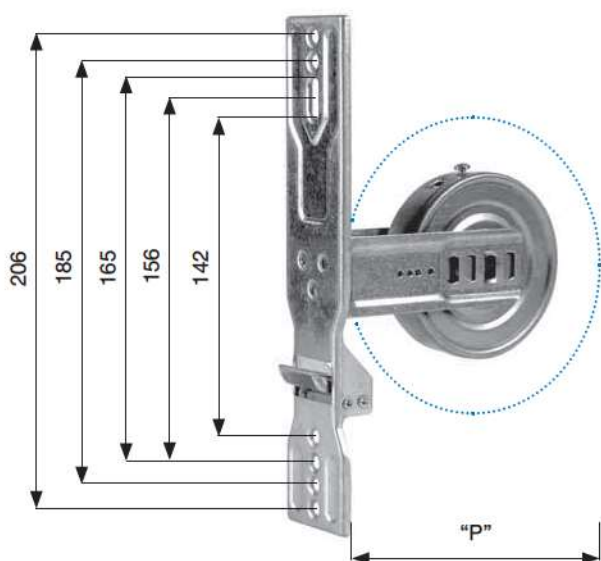




## AVVOLGITORI E PLACCHE "PENTA"

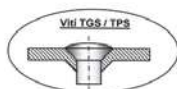
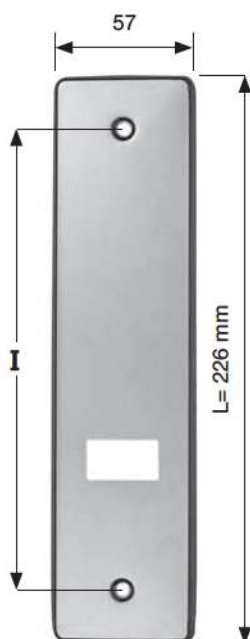
### "PENTA" STRAP COILERS, COVERING PLATES

Gli avvolgitori e le placche serie PENTA costituiscono una valida soluzione, soprattutto in caso di sostituzione di avvolgitori preesistenti; un unico avvolgitore PENTA con la relativa placca può sostituire gli avvolgitori tradizionali con interassi 142-156-165-185-206.



AVVOLGITORE "PENTA" - "PENTA" STRAP COILER			
articolo item	capacità m	fornito per ingombro "P"	su richiesta ingombro "P"
099.A.04.20	4	143 mm	165 mm
099.A.05.20	5,5	143 mm	165 mm
099.A.06.20	6	165 mm	143 mm
099.A.08.20	8	185 mm	/
099.A.11.20	11	185 mm	/
099.A.12.20	12	210 mm	220/240 mm
*099.A.10.20	*10	*165 mm	*185 mm

\* minimo ingombro - compact strap coiler

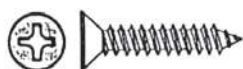


PLACCHE "PENTA" CON FORI PER VITI "PENTA" COVERING PLATE - HOLES FOR SCREWS		
articolo item	interasse fori " I " holes distance	lunghezza placca plate length
099.P.P1.	XX 142 mm	226 mm
099.P.P2.	XX 156 mm	
099.P.P3.	XX 165 mm	
099.P.P4.	XX 185 mm	
099.P.P5.	XX 206 mm	
XX	finitura placca - finishing	
30	inox stainless steel	
71	all.anod.argento alu. silver anod.	
74	all.vern.marrone chiaro alu. bronze painted	
77	all.vern.bianco alu. white painted	
79	all.vern.oro alu. gold painted	

n.b. le placche per avvolgitori ESA e PENTA **non** sono intercambiabili

## VITI AUTOFILETTANTI PER AVVOLGITORI E CASSETTE

### SELF-THREADING SCREWS FOR STRAP COILERS AND BOXES

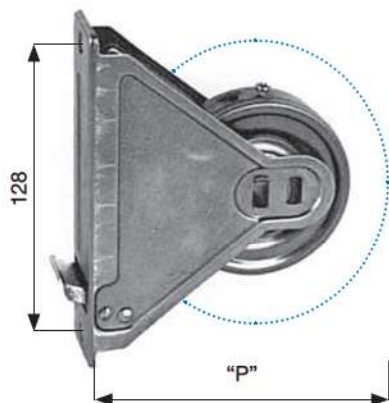


Tipo e misura size	Zincato galvanized	Zincato tropic. Yellow galvanized	Zincato nero Black galvanized
TPS 4,2X25	100.V.25.20	100.V.25.22	-
TPS 4,2 X 32	100.V.32.20	100.V.32.22	-
TC 3,9 X 9,5	100.V.09.20	-	-
TC 3,9 X 13	100.V.13.20	-	-
TC 3,9 X 25	100.V.S2.20	100.V.S2.22	100.V.S2.28
TC 3,9 X 32	100.V.S3.20	100.V.S3.22	100.V.S3.28
TC 3,9 X 38	100.V.S4.20	100.V.S4.22	100.V.S4.28
TC 3,9 X 50	100.V.S5.20	-	-

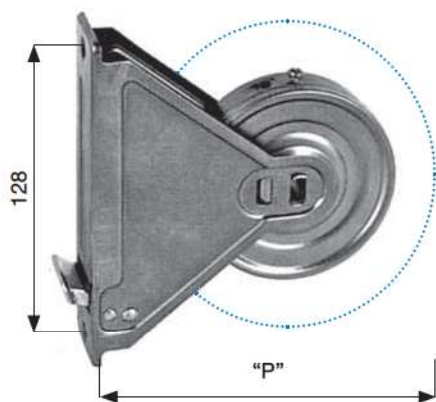
# AVVOLGITORI E PLACCHE SERIE "MIGNON"

## "MIGNON" STRAP COILERS, COVERING PLATES

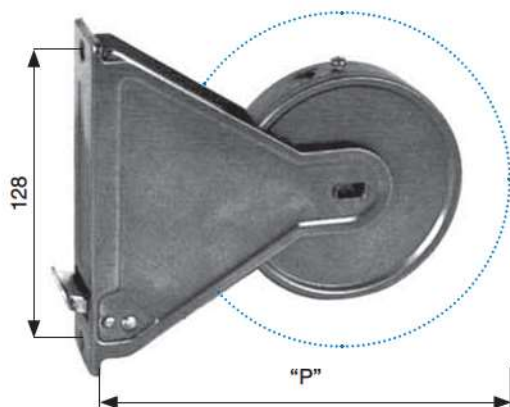
Interasse fori di fissaggio 128 mm  
Centre distance 128 mm



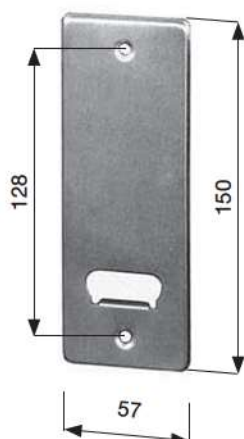
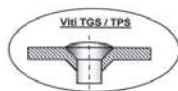
AVVOLGITORE I = 128 mm STRAP COILER	
101.A.04.20	TF mt.4 /128 P = 143 mm
101.A.P5.20	TF-P mt.5/128 minimo ingombro - smaller dept P= mm 143 (cintino spessore max mm 1,7 - max thickness strap 1,7 mm)



AVVOLGITORE I = 128 mm STRAP COILER	
101.A.05.20	TF-S mt.5/128 P = 160 mm
101.A.06.20	TS mt.6/128 P = 165 mm
101.A.P9.20	TR-P mt.10/128 minimo ingombro - smaller dept P= mm 165 (cintino spessore max mm 1,5 - max thickness strap 1,5 mm)



AVVOLGITORE I = 128 mm STRAP COILER	
101.A.12.20	TR-M mt.12/128 P = 210 mm (cintino spessore max mm 1,8 - max thickness strap 1,8 mm)



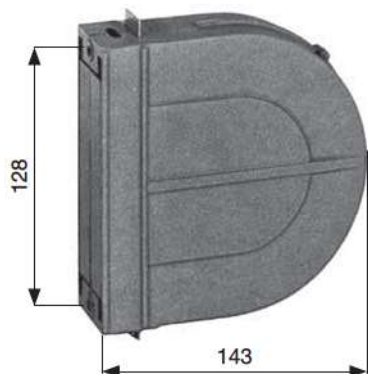
PLACCA I = 128 mm COVERING PLATE		
101.P.00.30	inox/128	stainless steel
101.P.00.71	all.anod.argento/128	alu. silver anod.
101.P.00.74	all.vern.marrone chiaro/128	alu. bronze painted
101.P.00.77	all.vern.bianco/128	alu. white painted
101.P.00.78	all.vern.nero/128	alu. black painted
101.P.00.79	all.vern.oro/128	alu. gold painted
101.P.00.93	plast.satin.bianca/128	white plastic

## CASSETTE PLASTICA SERIE "MIGNON"

### "MIGNON" PLASTIC BOXES

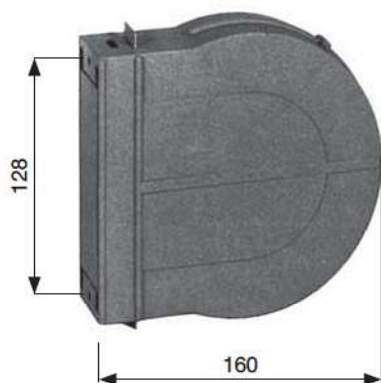
Interasse fori di fissaggio 128 mm

Centre distance 128 mm



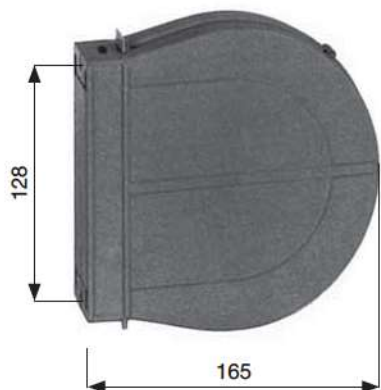
101.C.04.10

**CASSETTA PLASTICA P-TF mt 4-5/128**  
Ingombro 143 mm – inner depth 143 mm



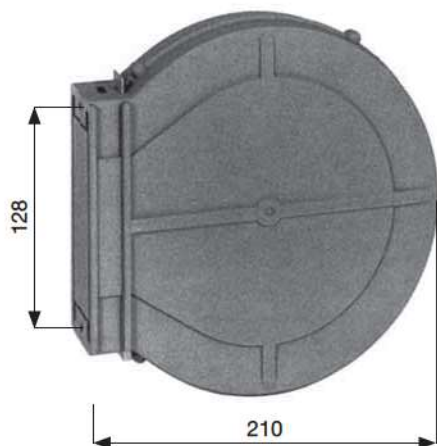
101.C.05.10

**CASSETTA PLASTICA P-TFS mt 5/128**  
Ingombro 160 mm – inner depth 160 mm



101.C.06.10

**CASSETTA PLASTICA P-TS mt 6/128**  
Ingombro 165 mm – inner depth 165 mm



101.C.0R.10

**CASSETTA PLASTICA P-TR mt 12/128**  
Ingombro 210 mm – inner depth 210 mm

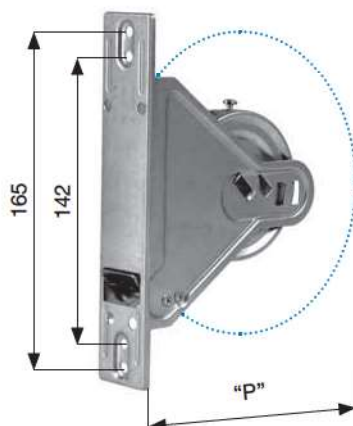
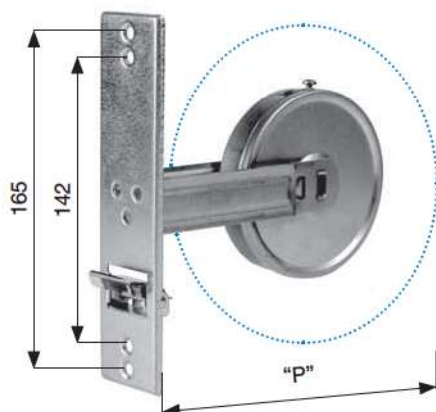
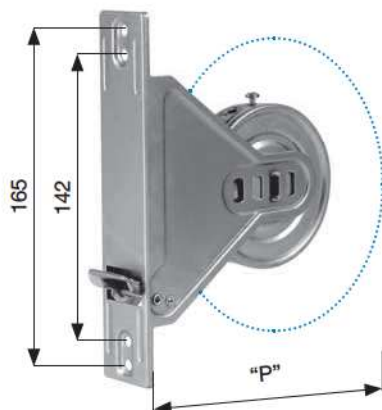


## AVVOLGITORI SERIE "ERRE"

### STRAP COILERS MOD. "R"

Interasse fori di fissaggio 142/165 mm

Centre distance 142/165 mm



#### AVVOLGITORE I = 142/165 mm

##### STRAP COILER

<b>102.A.04.20</b>	TF mt 4-142/165 P = 143 mm
<b>102.A.05.20</b>	TF-S mt 5-142/165 P = 143 mm
<b>102.A.06.20</b>	TS mt 6-142/165 P = 165 mm
<b>*102.A.C5.20</b>	TS-C mt 5-142/165 min. ingombro - <i>smaller dept</i> P= mm 125 (cintino spessore max mm 1,5 - <i>max thickness strap 1,5 mm</i> )
<b>*102.A.C9.20</b>	TR-C mt 9-142/165 min. ingombro - <i>smaller dept</i> P= mm 143 (cintino spessore max mm 1,3 - <i>max thickness strap 1,3 mm</i> )
<b>*102.A.P9.20</b>	TR-P mt 10-142/165 min. ingombro - <i>smaller dept</i> P= mm 165 (cintino spessore max mm 1,5 - <i>max thickness strap 1,5 mm</i> )
<b>102.A.P1.20</b>	TR-P mt.10-142/165 P = 185 mm (cintino spessore max mm.1,8 - <i>max thickness strap 1,8 mm</i> )
*AVVOLGITORE MINIMO INGOMBRO – COMPACT COILER/ <i>smaller dept</i>	

#### AVVOLGITORE I = 142/165 mm

##### STRAP COILER

<b>102.A.12.20</b>	TR-M mt 12-142/165 P = 220 mm (cintino spessore max mm.1,8 - <i>max thickness strap 1,8 mm</i> )
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#### AVVOLGITORI SPECIALI CON BOCCHETTA A FILO "ROSIN"

##### SPECIAL NO-JUTTING OUT STRAP LOCKING COILERS "ROSIN"

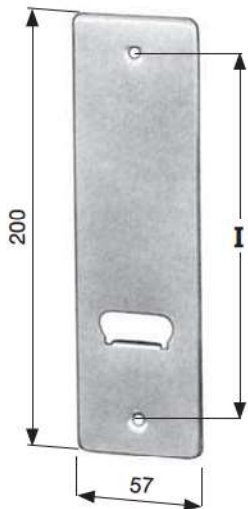
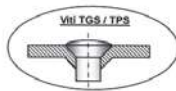
<b>*102.A.5R.20</b>	TS-C mt 5-142/165 min. ingombro - <i>smaller dept</i> P= mm 125 (cintino spessore max mm 1,3 - <i>max thickness strap 1,3 mm</i> )
<b>*102.A.R5.20</b>	TF-S mt 5-142/165 min. ingombro - <i>smaller dept</i> P= mm 143 (cintino spessore max mm 1,7 - <i>max thickness strap 1,7 mm</i> )
<b>102.A.R6.20</b>	TS mt 6-142/165 P = 165 mm (cintino spessore max mm.1,8 - <i>max thickness strap 1,8 mm</i> )
<b>*102.A.9R.20</b>	TR-C mt 9-142/165 min.ingombro - <i>smaller dept</i> P= mm143 (cintino spessore max mm 1,3 - <i>max thickness strap 1,3 mm</i> )
<b>102.A.R1.20</b>	TR-P mt 10-142/165 min.ingombro - <i>smaller dept</i> P= mm 185 (cintino spessore max mm 1,8 - <i>max thickness strap 1,8 mm</i> )
*AVVOLGITORE MINIMO INGOMBRO – COMPACT COILER/ <i>smaller dept</i>	
<b>n.b.:</b> gli avvolgitori speciali "ROSIN" sono compatibili con le placche plastica ESA ad incastro – <i>the special coilers mod."ROSIN" are compatible also with plastic interlocking plates ESA</i>	



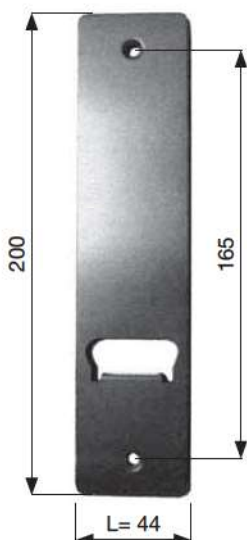
# PLACCHE PER AVVOLGITORI SERIE "ERRE"

## COVERING PLATES FOR STRAP COILERS MOD. "R"

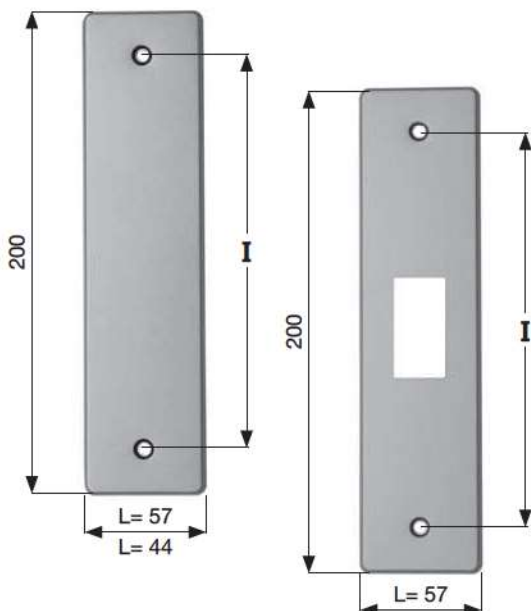
Interasse fori di fissaggio 142/165 mm  
Centre distance 142/165 mm



PLACCA L = 57 mm COVERING PLATE			
I = 165 mm	I = 142 mm	finitura	finishing
102.P.00.30	102.P.14.30	Inox	stainless steel
102.P.00.71	102.P.14.71	All. anod. argento	alu. silver anod.
102.P.00.74	102.P.14.74	All. vern. marrone chiaro	alu. bronze painted
102.P.00.77	102.P.14.77	All. vern. bianco	alu. white painted
102.P.00.78	—	All. vern. nero	alu. black painted
102.P.00.79	102.P.14.79	All. vern. oro	alu. gold painted



PLACCA STRETTA L = 44 mm NARROW COVERING PLATE		
I = 165 mm	finitura	finishing
102.P.ST.30	Inox	stainless steel
102.P.ST.71	All. anodizzato argento	alu. silver anod.
102.P.ST.74	All. vern. marrone chiaro	alu. bronze painted
102.P.ST.77	All. verniciato bianco	alu. white painted
102.P.ST.78	All. verniciato nero	alu. black painted
102.P.ST.79	All. verniciato oro	alu. gold painted
102.P.OX.79	All. ox. oro	alu. gold anod.



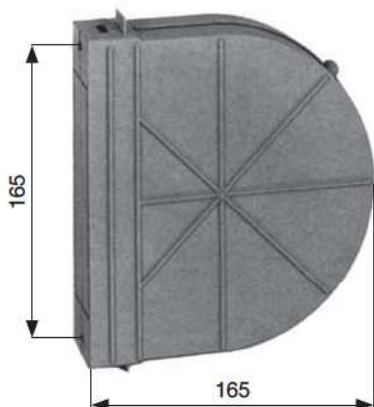
PLACCA COVERING PLATE		
102.P.C4.	XX	Placca cieca I=142 mm/L=57 mm <i>Blind covering plate</i>
102.P.CE.	XX	Placca cieca I=165 mm/L=57 mm <i>Blind covering plate</i>
102.P.CS.	XX	Placca cieca I=165 mm/L=44 mm <i>Blind covering plate</i>
102.P.M4.	XX	Placca asola puls.BTicino I = 142 mm L = 57 mm. <i>Covering plate with buttonhole</i>
102.P.M6.	XX	Placca asola puls.BTicino I = 165 mm L = 57 mm. <i>Covering plate with buttonhole</i>
XX		finitura placca
30		inox
71		all.anod.argento
74		all.vern.marrone chiaro
77		all.vern.bianco
79		all.vern.oro
		finishing
		stainless steel
		alu. silver anod.
		alu. bronze painted
		alu. white painted
		alu. gold painted

## CASSETTE PLASTICA SERIE "ERRE"

### PLASTIC BOXES MOD. "R"

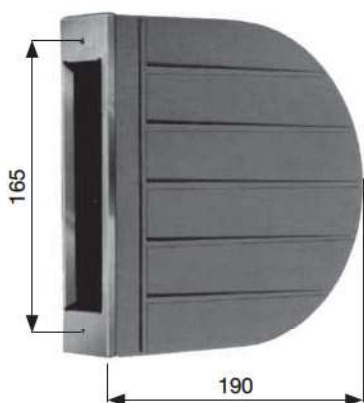
Interasse fori di fissaggio 142-165 mm

Centre distance 142-165mm



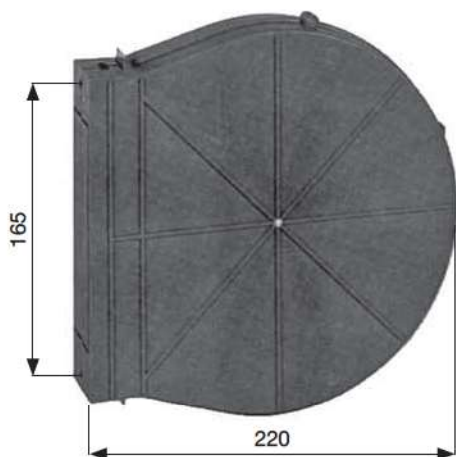
102.C.06.10

**CASSETTA PLASTICA P-TS mt 6/165**  
Ingombro 165 mm – inner depth 165 mm



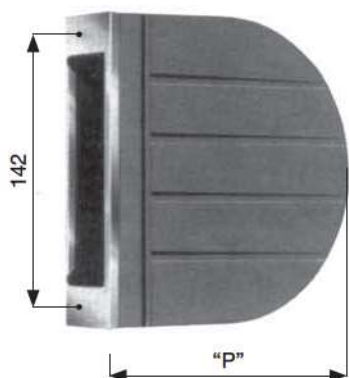
102.C.10.10

**CASSETTA PLASTICA P-TRP mt 10/165**  
Ingombro 190 mm – inner depth 190 mm



102.C.0R.10

**CASSETTA PLASTICA P-TR mt 12/165**  
Ingombro 220 mm – inner depth 220 mm



102.C.S4.10

**CASSETTA PLASTICA P-TF mt 4-5/142**  
Ingombro 140 mm – inner depth 140 mm

102.C.S6.10

**CASSETTA PLASTICA P-TS mt 6/142**  
Ingombro 165 mm – inner depth 165 mm

102.C.S9.10

**CASSETTA PLASTICA P-TRP mt.10/142**  
Ingombro 190 mm – inner depth 190 mm

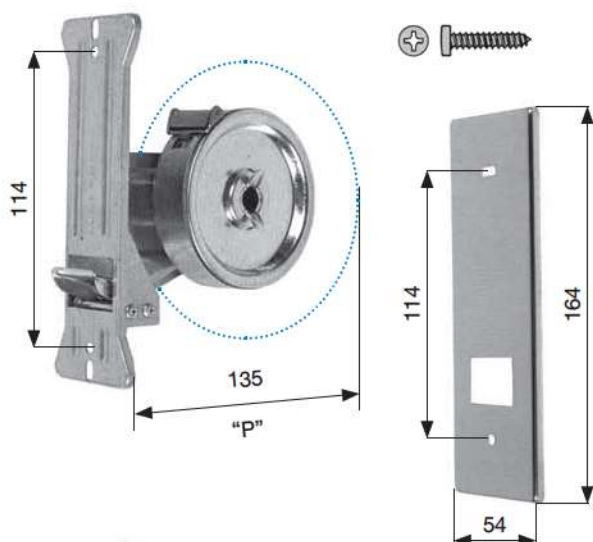
102.C.SR.10

**CASSETTA PLASTICA P-TR mt 12/142**  
Ingombro 225 mm – inner depth 225 mm



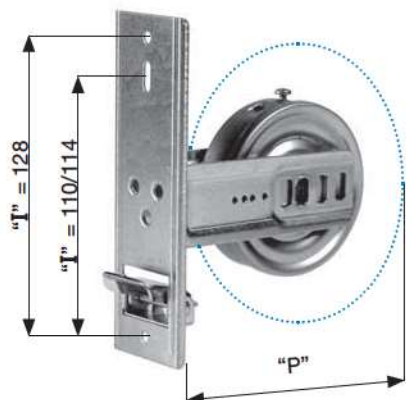
# AVVOLGITORI SERIE "ESSE" –per sostituzioni

STRAP COILERS mod. "S" - replacement



AVVOLGITORE STRAP COILER		INTERASSE centre distance	INGOMBRO "P" depth
103.A.03.20	STARPIU' mt 3,5	114 mm	135 mm

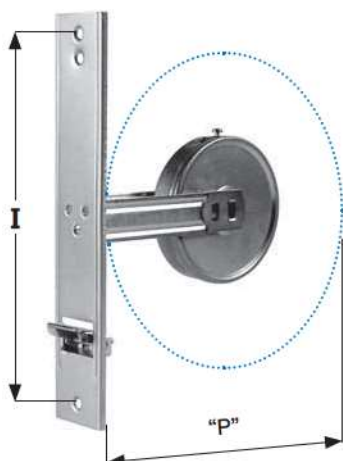
PLACCA STARPIU' COVERING PLATE	INTERASSE centre distance	FINITURA finishing
103.P.11.30	114 mm	Inox stainless steel
103.P.11.71	114 mm	All.anod.argento alu anod. silver
103.P.11.72	114 mm	All.anod.bronzo alu.anod.bronze
103.P.11.77	114 mm	All.vern.bianco alu.white painted



AVVOLGITORE STRAP COILER	INTERASSE centre distance	INGOMBRO "P" depth
103.A.4S.20	TRADIZ. mt 4	114 mm
*103.A.5S.20	TRADIZ. mt 5	114 mm
*103.A.8S.20	TRADIZ. mt 8	114 mm
103.A.A4.20	TRADIZ. mt 4	128 mm
103.A.A6.20	TRADIZ. mt 6	128 mm
103.A.A8.20	TRADIZ. mt 8	128 mm
*103.A.A9.20	TRADIZ. mt 10	128 mm
103.A.AR.20	TRADIZ. mt 12	128 mm



103.A.B4.20	TRADIZ. mt 4	155 mm	140 mm
103.A.B6.20	TRADIZ. mt 6	155 mm	165 mm
103.A.BR.20	TRADIZ. mt 12	155 mm	210 mm
103.A.C4.20	TRADIZ. mt 4	142-165 mm	140 mm
103.A.C6.20	TRADIZ. mt 6	142-165 mm	165 mm
*103.A.C9.20	TRADIZ. mt 10	142-165 mm	165 mm
103.A.D4.20	TRADIZ. mt 4	187 mm	140 mm
103.A.D6.20	TRADIZ. mt 6	187 mm	165 mm
103.A.D8.20	TRADIZ. mt 8	187 mm	185 mm
*103.A.D9.20	TRADIZ. mt 10	187 mm	165 mm
103.A.DR.20	TRADIZ. mt 12	187 mm	210 mm
103.A.E6.20	TRADIZ. mt 6	205 mm	165 mm
103.A.E8.20	TRADIZ. mt 8	205 mm	185 mm
*103.A.E9.20	TRADIZ. mt 10	205 mm	165 mm
103.A.ER.20	TRADIZ. mt 12	205 mm	210 mm



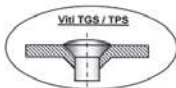
103.A.F6.20	TRADIZ. mt 6	215-230 mm	165 mm
103.A.F8.20	TRADIZ. mt 8	215-230 mm	185 mm
103.A.F9.20	TRADIZ. mt 10	215-230 mm	185 mm
103.A.FR.20	TRADIZ. mt 12	215-230 mm	220 mm
103.A.G8.20	TRADIZ. mt 8	260 mm	240 mm
103.A.GR.20	TRADIZ. mt 12	260 mm	240 mm

102.A.12.20	TR-M mt 12	142-165 mm	220 mm
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\* Avvolgitori a minimo ingombro – smaller depth

# PLACCHE PER AVVOLGITORI SERIE "ESSE" – per sostituzioni

## COVERING PLATES FOR STRAP COILERS mod. "S" - replacement

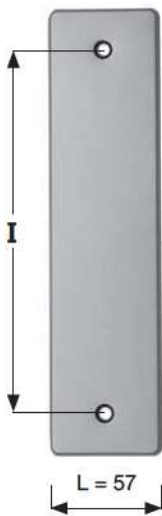


PLACCA COVERING PLATE		XX=30	XX=71	XX=74	XX=77	XX=78	XX=79
103.P.01.XX	"I"=114 mm	•	•	•	•	n.d.	•
101.P.00.XX	"I"=128 mm	•	•	•	•	•	•
102.P.14.XX	"I"=142 mm	•	•	•	•	•	•
103.P.15.XX	"I"=155 mm	•	•	n.d.	n.d.	n.d.	n.d.
102.P.00.XX	"I"=165 mm	•	•	•	•	•	•
103.P.19.XX	"I"=187 mm	•	•	•	•	n.d.	•
103.P.21.XX	"I"=205 mm	•	•	•	•	n.d.	n.d.
103.P.22.XX	"I"=215 mm	•	•	•	•	n.d.	•
103.P.23.XX	"I"=230 mm	•	•	•	•	n.d.	n.d.
103.P.26.XX	"I"=260 mm	•	•	•	•	n.d.	n.d.

• = disponibile/available – n.d. = non disponibile/not available

Le placche serie "ESSE" con interasse 128/142/165 sono le stesse della serie "MIGNON" e "ERRE"

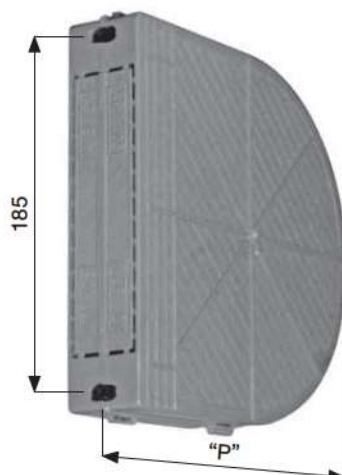
XX	FINITURA	FINISHING
30	Inox	stainless steel
71	All. anodizzato argento	alu. silver anod.
74	All. ver.marrone chiaro	alu. bronze painted
77	All. verniciato bianco	alu. white painted
78	All. verniciato nero	alu. black painted
79	All. verniciato oro	alu. gold painted



PLACCA TRADIZION. CIECA L = 57 mm blind covering plate	
103.P.CE.00	Placca I = 185 mm
103.P.CF.00	Placca I = 205 mm
103.P.CG.00	Placca I = 215 mm
103.P.CH.00	Placca I = 230 mm
103.P.CI.00	Placca I = 260 mm



PLACCA ASOLA PULS. BTicino L=57mm. Covering plate with buttonhole	
103.P.ME.00	Placca I = 185 mm
103.P.MF.00	Placca I = 205 mm
103.P.MG.00	Placca I = 215 mm
103.P.MH.00	Placca I = 230 mm
103.P.MI.00	Placca I = 260 mm



SPECIFICARE:		SPECIFY:
00	FINITURA	FINISHING
30	Inox	stainless steel
71	All. anodizzato argento	alu. silver anod.
74	All. ver.marrone chiaro	alu. bronze painted
77	All. verniciato bianco	alu. white painted

**103.C.08.90** CASSETTA PLASTICA S mt 8-10/185 plastic box  
Ingombro 200 mm – inner depth 200 mm



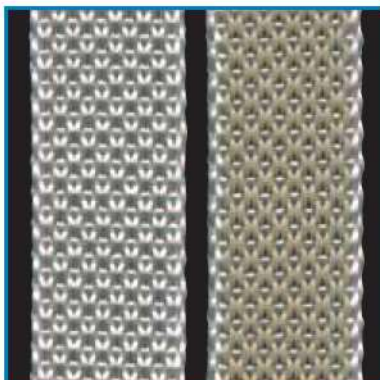
## CINTINI PER TAPPARELLE

### STRAPS FOR ROLLING SHUTTERS



**255.C.20.13**

cintino PP 20x1,3  
puntinato o testa di moro



**255.C.22.17**

cintino PP multibava 22x1,7  
bicolore: grigio/avana



**255.C.20.GA**

cintino PP 20x1,3  
bicolore: grigio/avana



**255.C.22.ML**

cintino PP multibava 22x2  
bicolore: grigio/avana



**255.C.21.RB**

cintino "fiocco viscosa"  
TMS 21,5x1,75  
bicolore: grigio/avana



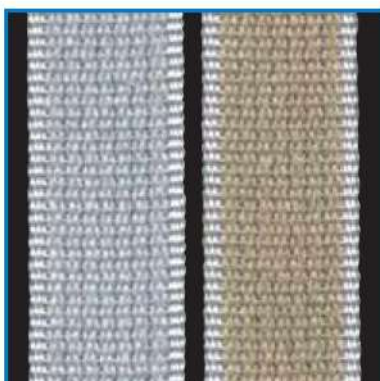
**256.C.22.SI**

cintino misto-cotone  
SI 22x1,8  
bicolore: grigio/avana



**257.C.20.BS**

cintino misto-cotone  
BS 20x1,3  
bicolore: grigio/avana



**257.C.21.BS**

cintino misto-cotone  
BS 21x1,5  
bicolore: grigio/avana

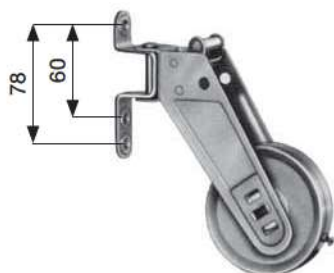


**257.C.22.BS**

cintino misto-cotone  
BS 22x1,75  
bicolore: grigio/avana

# AVVOLGITORI ESTERNI

## WALL-FIXING STRAP COILERS



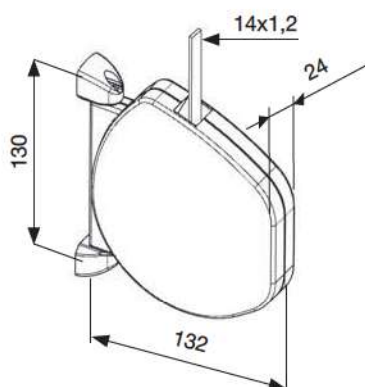
AVVOLGITORE ORIENTABILE A BANDIERA SWIVELLING 180° STRAP COILER		
104.A.06.33	mt 6	Cromato Chromium plated
104.A.08.33	mt 8	
104.A.10.33	mt 10	
(cintino spessore max mm 1,8 max thickness strap 1,8 mm)		



104.C.06.91	CASSETTA PLASTICA, COLORE AVORIO PLASTIC BOX, COLOUR IVORY
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KIT AVVOLGITORE A BANDIERA KIT SWIVELLING COILER		
104.A.0K.93	Avvolgitore orientabile a bandiera, cassetta bianca "compact", mt 6 di cintino grigio mm 20x1,2	Swivelling coiler, white plastic box "compact", 6 m grey strap (size: 20x1,2 mm)



KIT AVVOLGITORE "SHELL", CASSETTA e CINTINO KIT "SHELL" COILER, BOX AND STRAP		
	CASSETTA plastic box	CINTINO (mt 5 da mm 14X1,2) / strap
250.K.ES.92	Grigia / grey	Grigio / grey
250.K.ES.93	Bianca / white	Grigio / grey
250.K.ES.94	Marrone / brown	Marrone / brown

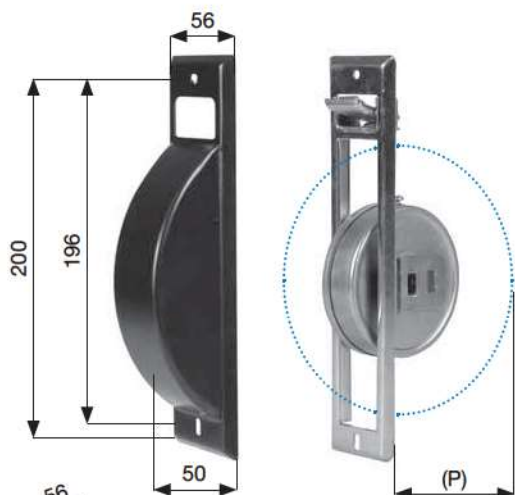


AVVOLGITORE ESTERNO FISSO WALL-FIXING STRAP COILER		
105.A.06.34	mt 6	Nichelato Nickel plated
105.A.08.34	mt 8	
105.A.10.34	mt 10	
Specificare: destro o sinistro specify : right or left		
nella foto: destro / illustrated: right		



# AVVOLGITORI A SEMINCASSO

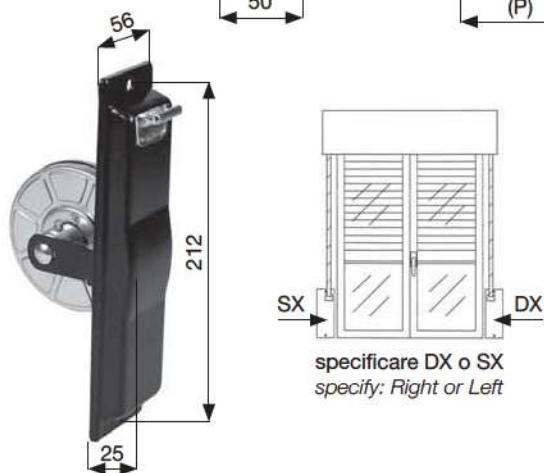
## SEMI-RECESSED STRAP COILERS



AVVOLGITORE A SEMINCASSO		INTERASSE <i>Centre distance</i>	INGOMBRO "P" <i>Depth*</i>
106.A.05.20	5,5 m	200 mm	96 mm *
106.A.10.20	10 m	200 mm	96 mm *
106.A.6S.20	6 m	196-200 mm	96 mm *
106.A.1S.20	10 m	196-200 mm	96 mm *

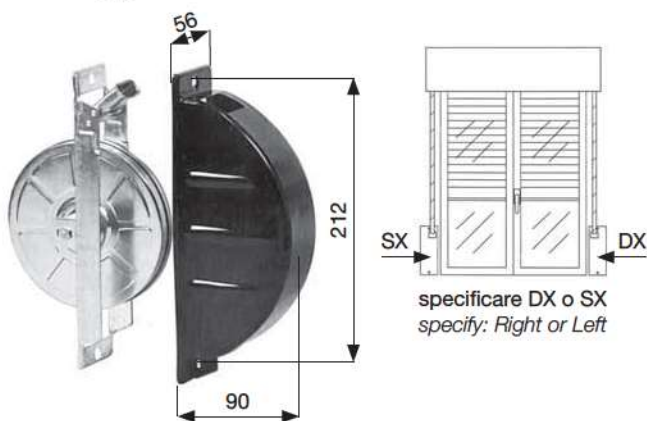
\* Su richiesta: ingombro "P" 126 mm

PLACCA PER AVVOLGITORE A SEMINCASSO			
<i>Covering plate for semi-recessed strap coilers</i>			
106.P.00.33	"I"=200 mm	cromata	Chromium plated
106.P.6S.33	"I"=196-200 mm	cromata	Chromium plated
106.P.00.76	"I"=196-200 mm	vernici.avorio	Ivory painted
106.P.00.77	"I"=196-200 mm	vernici.bianco	White painted
106.P.00.78	"I"=196-200 mm	vernici.nero	Black painted



AVVOLGITORE A SEMINCASSO MONOPEZZO "SYNTESY" m 6				
<i>SEMI-RECESSED STRAP COILER "SYNTESY" - ASSEMBLED PLATE</i>				
AVVOLGITORE 6 m		PLACCA INCORPORATA <i>Assembled plate</i>	INTERASSE <i>Centre distance</i>	INGOMBRO "P" <i>Depth</i>
106.A.D6.20	Destro <i>right</i>	Vernici. nero <i>black painted</i>	212 mm	100 mm
106.A.S6.20	Sinistro <i>left</i>	Vernici. nero <i>black painted</i>	212 mm	100 mm

Usare cintino di spessore 1,5-1,7 mm / use strap thickness 1,5-1,7 mm

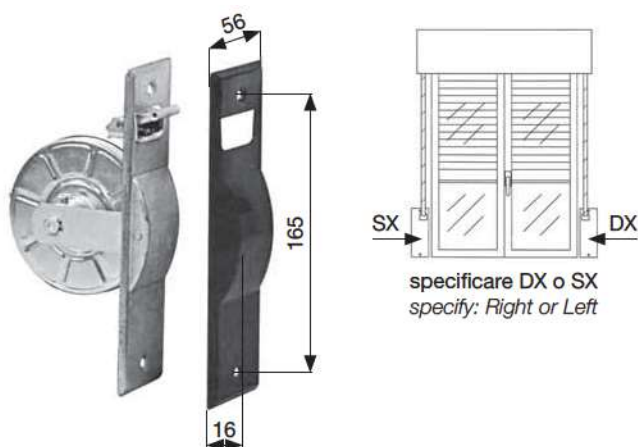


AVVOLGITORE A SEMINCASSO "SYNTESY" m 11			
<i>SEMI-RECESSED STRAP COILER "SYNTESY" m 11</i>			
AVVOLGITORE 11 m		INTERASSE <i>Centre distance</i>	INGOMBRO "P" <i>Depth</i>
106.A.Y1.20	Destro <i>right</i>	212 mm	100 mm
106.A.YS.20	Sinistro <i>left</i>	212 mm	100 mm

Usare cintino di spessore 1,5-1,7 mm / use strap thickness 1,5-1,7 mm

PLACCA PER AVVOLGITORE "SYNTESY" m 11			
<i>Covering plate for coiler "syntesy" 11 m</i>			
106.P.Y1.78	Destra <i>right</i>	Vernici.nero / black painted	"I"=212mm
106.P.YS.78	Sinistra <i>left</i>	Vernici.nero / black painted	"I"=212mm

Sporgenza 90 mm / jut 90 mm



AVVOLGITORE A SEMINCASSO "SC" m 5,5			
<i>SEMI-RECESSED STRAP COILER "SC" m 5,5</i>			
AVVOLGITORE 5,5 m		INTERASSE <i>Centre distance</i>	INGOMBRO "P" <i>Depth</i>
107.A.DC.20	Destro <i>right</i>	165 mm	100 mm
106.A.SC.20	Sinistro <i>left</i>	165 mm	100 mm

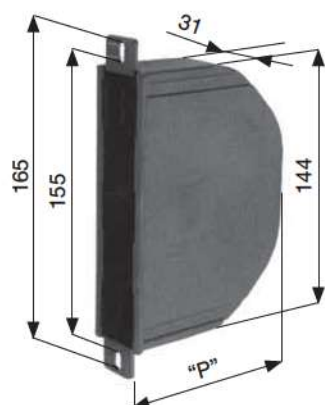
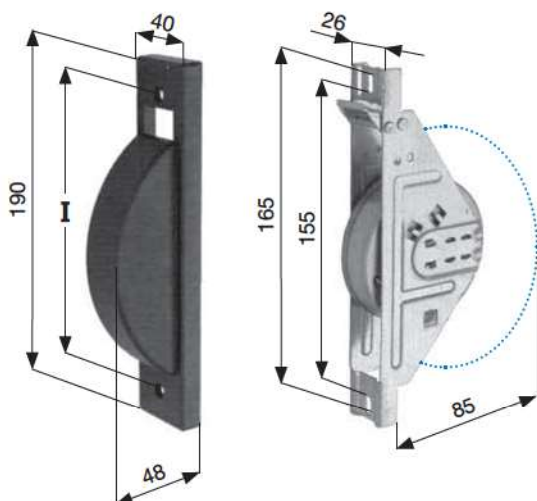
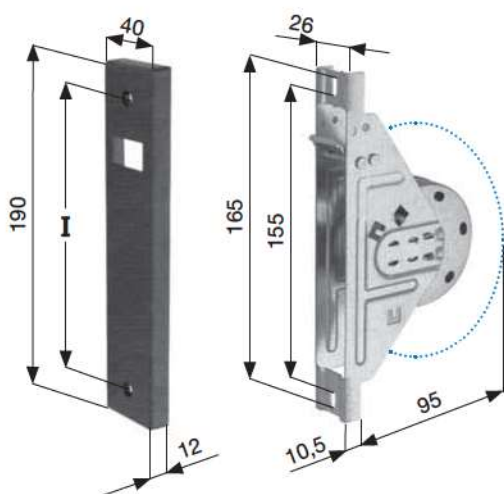
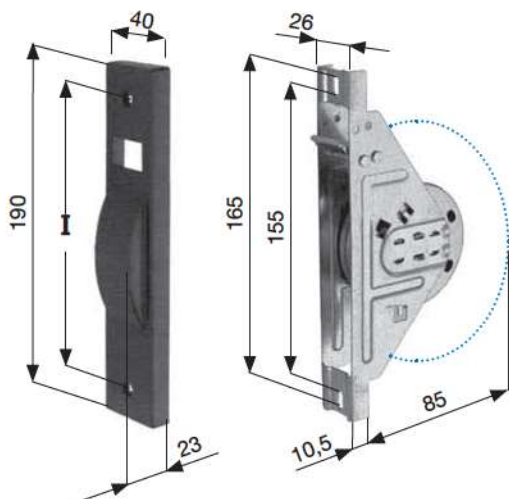
Usare cintino di spessore 1,5-1,7 mm / use strap thickness 1,5-1,7 mm

PLACCA PER AVVOLGITORE "SC" m 5,5			
<i>Covering plate for coiler "SC" m 5,5</i>			
107.P.05.77	Destra <i>right</i>	Vernici.bianco / white painted	"I"=165mm
107.P.S5.77	Sinistra <i>left</i>	Vernici.bianco / white painted	"I"=165mm
107.P.05.78	Destra <i>right</i>	Vernici.nero / black painted	"I"=165mm
107.P.S5.78	Sinistra <i>left</i>	Vernici.nero / black painted	"I"=165mm

Sporgenza 16 mm / jut 16 mm

# AVVOLGITORI A SEMINCASSO SERIE "SIGMA"

## SEMI-RECESSED STRAP COILERS MOD. "SIGMA"



AVVOLGITORE "SIGMA 5" - INTERASSE 155/165 "Sigma 5" coiler - centre distance 155/165		INGOMBRO depth
028.S.05.20	Pre caricato with loaded spring	85 mm
028.S.05.92	Con 5 ,5 m di cintino grigio 20x1,2 with 5,5 m grey strap 20x1,2	85 mm

PLACCA PLASTICA PER AVVOLGITORE "SIGMA 5" Plastic covering plate for "Sigma 5" coilers			
028.P.0A.93	"I"=165 mm	bianca	White
028.P.0A.95	"I"=165 mm	nera	Black
028.P.0B.93	"I"=155 mm	bianca	White
028.P.0B.95	"I"=155 mm	nera	Black

AVVOLGITORE "SIGMA P5" - INTERASSE 155/165 "Sigma P5" coiler - centre distance 155/165		INGOMBRO depth
028.S.P5.20	Pre caricato with loaded spring	95 mm
028.S.P5.92	Con 5 ,5 m di cintino grigio 20x1,2 with 5,5 m grey strap 20x1,2	95 mm

PLACCA PLASTICA PER AVVOLGITORE "SIGMA P5" Plastic covering plate for "Sigma P5" coilers			
028.P.PA.93	"I"=165 mm	bianca	White
028.P.PA.95	"I"=165 mm	nera	Black
028.P.PB.93	"I"=155 mm	bianca	White
028.P.PB.95	"I"=155 mm	nera	Black

AVVOLGITORE "SIGMA R8" - INTERASSE 155/165 "Sigma R8" coiler - centre distance 155/165		INGOMBRO depth
028.S.R8.20	Pre caricato with loaded spring	85 mm
028.S.R8.92	Con 9 m di cintino grigio 20x1,2 with 9 m grey strap 20x1,2	85 mm

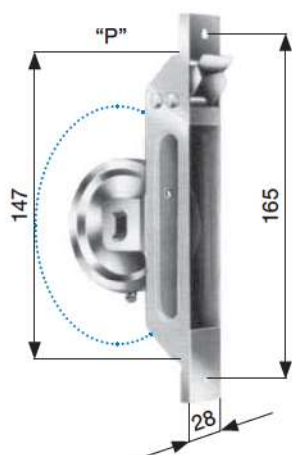
PLACCA PLASTICA PER AVVOLGITORE "SIGMA R8" Plastic covering plate for "Sigma R8" coilers			
028.P.RA.93	"I"=165 mm	bianca	White
028.P.RA.95	"I"=165 mm	nera	Black
028.P.RB.93	"I"=155 mm	bianca	White
028.P.RB.95	"I"=155 mm	nera	Black

CASSETTA PLASTICA "SIGMA" Plastic box for "Sigma" coilers	
028.C.0F.90	INGOMBRO " P" 99 mm inner depth "P" 99 mm
028.C.TF.90	INGOMBRO "P" 89 mm inner depth "P" 89 mm

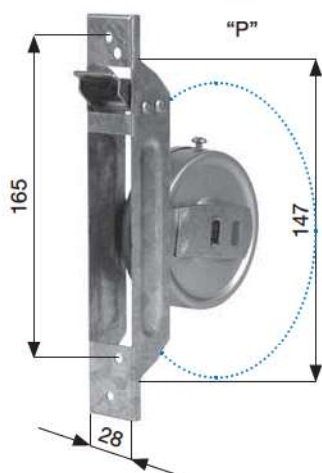


# “MINI”AVVOLGITORI A SEMINCASSO SERIE “S”

## SEMI-RECESSED STRAP “MINI”-COILERS MOD. “S”



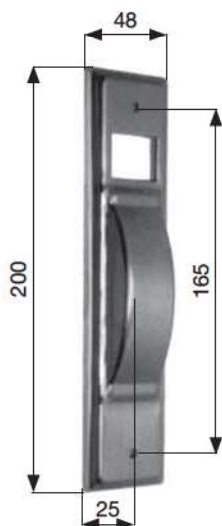
MINIAVVOLGITORE A SEMINCASSO “S” I =165 mm SEMI-RECESSED STRAP MINI-COILER “S”	
108.A.05.20	S mt 5/165 (ingombro P= 95 mm - cintino spessore max 1,6 mm) <i>(inner depth = 95 mm / max thickness strap 1,6 mm)</i>
108.A.S5.20	S mt 5/165 (ingombro P= 85 mm - cintino spessore max 1,3 mm) <i>(inner depth = 85 mm / max thickness strap 1,3 mm)</i>



MINIAVVOLGITORE A SEMINCASSO “S” I =165 mm SEMI-RECESSED STRAP MINI-COILER “S”	
108.A.09.20	S mt 9/165 (ingombro P=125 mm - cintino spessore max 1,3 mm) <i>(inner depth = 125 mm / max thickness strap 1,3 mm)</i>
108.A.S8.20	S mt 8/165 (ingombro P=105 mm - cintino spessore max 1,3 mm) <i>(inner depth = 105 mm / max thickness strap 1,3 mm)</i>



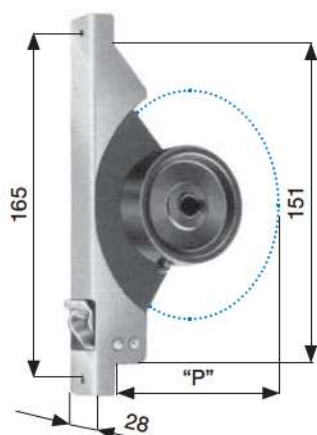
MINIPLACCA “S” L = 40 mm – I = 165 mm MINI-COVERING PLATE “S”		
108.P.00.71	All. anodizzato argento	<i>alu. silver anod.</i>
108.P.00.72	All. anodizzato bronzo	<i>alu. bronze anod.</i>
108.P.00.76	All. verniciato avorio	<i>alu. ivory painted</i>
108.P.00.77	All. verniciato bianco	<i>alu. white painted</i>
108.P.00.78	All. verniciato nero	<i>alu. black painted</i>
Sporgenza = 25 mm / jut = 25 mm		



MINIPLACCA “S” LARGA L = 48 mm – I = 165 mm MINI-COVERING LARGE PLATE “S”		
108.P.L0.71	All. anodizzato argento	<i>alu. silver anod.</i>
108.P.L0.72	All. anodizzato bronzo	<i>alu. bronze anod.</i>
108.P.L0.77	All. verniciato bianco	<i>alu. white painted</i>
108.P.L0.78	All. verniciato nero	<i>alu. black painted</i>
108.P.L0.79	All. oxidato oro	<i>alu. gold oxid.</i>
108.P.L0.84	Ottone cromato	<i>chromium plated brass</i>
108.P.L0.85	Ottone lucido	<i>polished brass</i>
Sporgenza = 25 mm / jut = 25 mm		

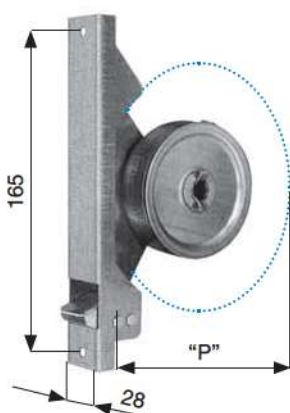
## “MINI”AVVOLGITORI A SEMINCASSO SERIE “SP”

SEMI-RECESSED STRAP “MINI”COILERS MOD. “SP”



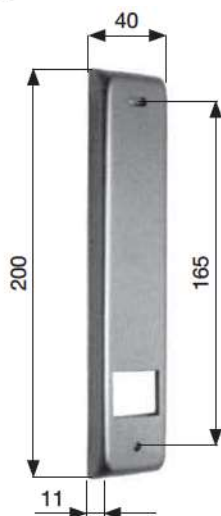
### MINIAVOLGITORE A SEMINCASSO “SP” I =165 mm SEMI-RECESSED STRAP MINI-COILER “SP”

<b>109.A.05.20</b>	SP mt 5/165 (ingombro P = 95 mm - cintino spessore max 1,3 mm) (inner depth = 95 mm / max thickness strap 1,3 mm)
<b>109.A.15.20</b>	SP mt 5/165 (ingombro P = 105 mm - cintino spessore max 1,5 mm) (inner depth = 105 mm / max thickness strap 1,5 mm)



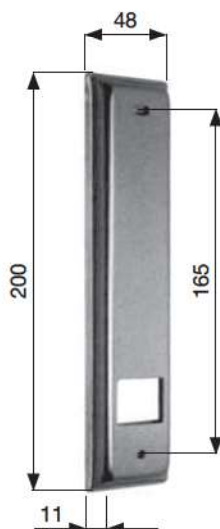
### MINIAVOLGITORE A SEMINCASSO “SP” I=165 mm PER RIDUTTORE SEMI-RECESSED STRAP MINI-COILER “SP” – FOR REDUCTION GEAR

<b>109.A.08.20</b>	SP mt 8/165 (ingombro P = 130 mm - cintino spessore max 1,5 mm) (inner depth = 130 mm / max thickness strap 1,5 mm)
<b>109.A.11.20</b>	SP mt 11/165 (ingombro P = 180 mm - cintino spessore max 1,8 mm) (inner depth = 180 mm / max thickness strap 1,8 mm)



### MINIPLACCA “SP” L = 40 mm – I = 165 mm MINI-COVERING PLATE “SP”

<b>109.P.00.71</b>	All. anodizzato argento	alu. silver anod.
<b>109.P.00.72</b>	All. anodizzato bronzo	alu. bronze anod.
<b>109.P.00.77</b>	All. verniciato bianco	alu. white painted
<b>109.P.00.78</b>	All. verniciato nero	alu. black painted
<b>109.P.00.79</b>	All. oxidato bianco	alu. gold oxid.
Sporgenza = 11 mm / jut = 11 mm		

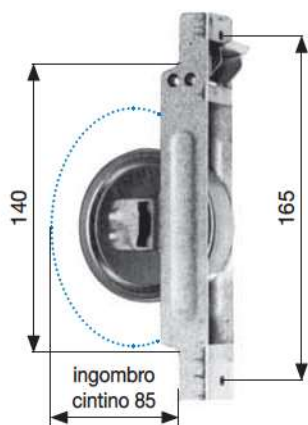


### MINIPLACCA “SP” LARGA L = 48 mm – I = 165 mm MINI-COVERING LARGE PLATE “SP”

<b>109.P.L0.71</b>	All. anodizzato argento	alu. silver anod.
<b>109.P.L0.72</b>	All. anodizzato bronzo	alu. bronze anod.
<b>109.P.L0.77</b>	All. verniciato bianco	alu. white painted
<b>109.P.L0.78</b>	All. verniciato nero	alu. black painted
<b>109.P.L0.79</b>	All. oxidato oro	alu. gold oxid.
<b>109.P.L0.84</b>	Ottone cromato	chromium plated brass
<b>109.P.L0.85</b>	Ottone lucido	polished brass
Sporgenza = 11 mm / jut = 11 mm		

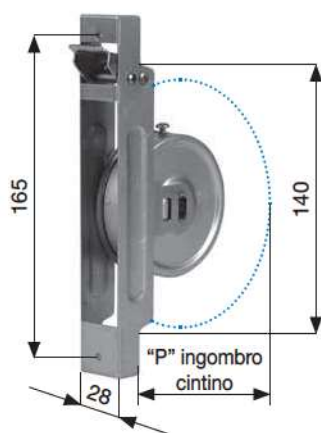


# “MINI”AVVOLGITORI A SEMINCASSO SERIE “SR” – PER RIDUTTORI SEMI-RECESSED STRAP “MINI”-COILERS MOD. “SR” – FOR REDUCTION GEARS



## MINIAVOLGITORE A SEMINCASSO “SR” I = 165 mm SEMI-RECESSED STRAP MINI-COILER “SR”

<b>110.A.08.20</b>	SR mt 8/165 (ingombro P = 85 mm - cintino spessore max 1,2 mm) (inner depth = 85 mm / max thickness strap 1,2 mm)
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## MINIAVOLGITORE A SEMINCASSO “SR” I = 165 mm PER RIDUTTORE SEMI-RECESSED STRAP MINI-COILER “SR” – FOR REDUCTION GEAR

<b>110.A.09.20</b>	SR mt 9/165 (scatola molla diam.84 mm - ingombro P = 95 mm - cintino spessore max 1,2-1,3 mm) (spring box diam 84-inner depth = 95 / max thickness strap 1,2-1,3 mm)
<b>110.A.C9.20</b>	SR mt 9/165 (scatola molla diam.75 mm - ingombro P = 95 mm - cintino spessore max 1,2-1,3 mm) (spring box diam 75-inner depth = 95 / max thickness strap 1,2-1,3 mm)
<b>110.A.C1.20</b>	SR mt 9/165 (scatola molla diam.84 mm - ingombro P = 105 mm - cintino spessore max 1,5 mm) (spring box diam 84-inner depth = 105 / max thickness strap 1,5 mm)



## MINIPLACCA “SR” L = 40 mm – I = 165 mm MINI-COVERING PLATE “SR”

<b>110.P.00.71</b>	All. anodizzato argento	alu. silver anod.
<b>110.P.00.72</b>	All. anodizzato bronzo	alu. bronze anod.
<b>110.P.00.77</b>	All. verniciato bianco	alu. white painted
<b>110.P.00.78</b>	All. verniciato nero	alu. black painted
<b>110.P.00.79</b>	All. oxidato oro	alu. gold oxid.

Sporgenza = 50 mm / jut = 50 mm



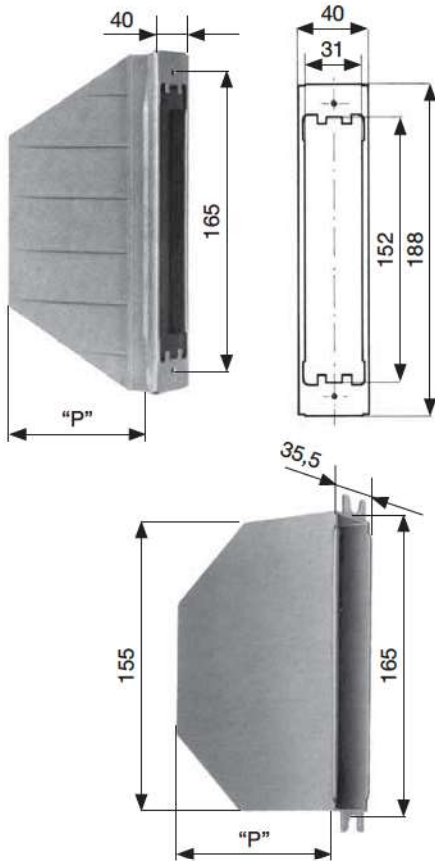
## MINIPLACCA “SR” LARGA L = 48 mm – I = 165 mm MINI-COVERING LARGE PLATE “SR”

<b>110.P.L0.71</b>	All. anodizzato argento	alu. silver anod.
<b>110.P.L0.72</b>	All. anodizzato bronzo	alu. bronze anod.
<b>110.P.L0.77</b>	All. verniciato bianco	alu. white painted
<b>110.P.L0.78</b>	All. verniciato nero	alu. black painted
<b>110.P.L0.79</b>	All. oxidato oro	alu. gold oxid.
<b>110.P.L0.84</b>	Ottone cromato	chromium plated brass
<b>110.P.L0.85</b>	Ottone lucido	polished brass

Sporgenza = 50 mm / jut = 50 mm

# “MINI”CASSETTE PER AVVOLGITORI A SEMINCASSO

## “MINI”BOXES FOR SEMI-RECESSED STRAP COILERS

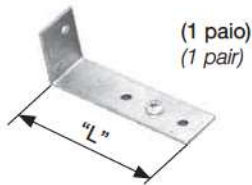


MINI CASSETTA PER AVVOLGITORI A SEMINCASSO “S” – “SP” – “SR” Mini-box for semi-recessed strap coilers “S” – “SP” – “SR”	
110.C.00.10	INGOMBRO “P” 96 mm / inner depth “P” 96 mm
110.C.80.10	INGOMBRO “P” 80 mm / inner depth “P” 80 mm
110.C.13.10	INGOMBRO “P” 135 mm / inner depth “P” 135 mm

MINI CASSETTA AD INSERIMENTO FRONTALE PER AVVOLGITORI A SEMINCASSO “S” – “SP” – “SR” Mini-box for semi-recessed strap coilers “S” – “SP” – “SR” – FRONTAL INSERTION	
110.C.FR.10	INGOMBRO “P” 97 mm / inner depth “P” 97 mm
110.C.F8.10	INGOMBRO “P” 80 mm / inner depth “P” 80 mm
110.C.F1.10	INGOMBRO “P” 135 mm / inner depth “P” 135 mm

# SQUADRETTE DISTANZIATRICI PER CASSETTE-AVVOLGITORI

## SPACER BRACKETS FOR BOXES-COILERS



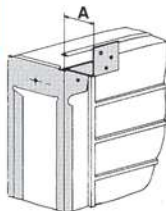
SQUADRETTE DISTANZIATRICI SFUSE (PAIA) LOOSE SPACER BRACKETS (PAIRS)	
100.S.0C.20	“L” = 44 mm
100.S.00.20	“L” = 64 mm
100.S.0L.20	“L” = 98 mm



**100.SM.3.20**  
Squadretti montati schema 3 - (1 paio)  
Angle brackets attached scheme 3 - (1 pair)



**100.SM.6.20**  
Squadretti montati schema 6 - (1 paio)  
Angle brackets attached scheme 6 - (1 pair)



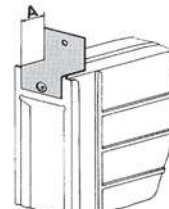
**100.SM.1.20**  
A = 20/25/30/35 mm  
Squadretti montati schema 1 - (1 paio)  
Angle brackets attached scheme 1 - (1 pair)  
Specificare misura  
Specify size  
A = 7-12-20-28-33-38



**100.SM.4.20**  
Squadretti montati schema 4 - (1 paio)  
Angle brackets attached scheme 4 - (1 pair)



**100.SM.5.20**  
Attacchi montati schema 5 - (1 paio)  
Fixing clips scheme 5 - (1 pair)  
per applicazione su telai di spessore 20-25-45-55 mm (specify thickness of wooden frame)



**100.SM.2.20**  
Squadretti montati schema 2 - (1 paio)  
Angle brackets attached scheme 2 - (1 pair)



# AVVOLGITORI A CASSONETTO

## COILERS FOR ROLLING SHUTTER BOX

AVVOLGITORE A CASSONETTO - PER PULEGGIA - SUPPORT COILER - FOR PULLEY -	
112.A.14.20	mt 5/140 destro (right)
112.A.14.20SX	mt 5/140 sinistro (left)
112.A.16.20	mt 5/160 destro (right)
112.A.16.20SX	mt 5/160 sinistro (left)
112.A.18.20	mt 5/180 destro (right)
112.A.18.20SX	mt 5/180 sinistro (left)
112.A.19.20	mt 5/190 destro (right)
112.A.19.20SX	mt 5/190 sinistro (left)
112.A.21.20	mt 5/210 destro (right)
112.A.21.20SX	mt 5/210 sinistro (left)

h.max: 2,5 m



PULEGGIA ZINCATA per avvolgitore a cassonetto GALVANIZED PULLEY for support coiler	
112.P.14.20	Ø 140
112.P.16.20	Ø 160
112.P.18.20	Ø 180
112.P.19.20	Ø 190
112.P.21.20	Ø 210

AVVOLGITORE A CASSONETTO - PER RIDUTTORE - SUPPORT COILER - FOR PULLEY -	
112.A.R6.20	mt 8/160 destro (right)
112.A.R6.20SX	mt 8/160 sinistro (left)
112.A.RP.20	mt 8/180 destro (right)
112.A.RP.20SX	mt 8/180 sinistro (left)
112.A.RG.20	mt 8/200 destro (right)
112.A.RG.20SX	mt 8/200 sinistro (left)

h.max: 2,5 m

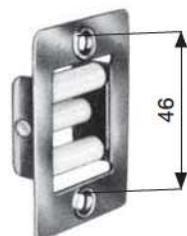


RIDUTTORE per avvolgitore a cassonetto REDUCTION GEAR for support coiler	
125.R.H6.20	Ø 160
125.R.H8.20	Ø 180
125.R.H0.20	Ø 200
Rapporto di riduzione 1:2,66 Reduction ratio 1:2,66	

AVVOLGITORE A CASSONETTO "MODULAR" "MODULAR" SUPPORT COILER	
112.A.MD.20	mt 7 destro (right)
112.A.MD.20SX	mt 7 sinistro (left)

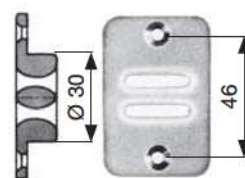
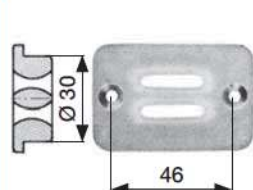


BLOCCACINTINO STRAP-LOCK	
112.B.00.20	Zincato/ galvanized
112.B.00.22	Tropical./ yellow galvan.
112.B.00.37	Bronzato/ bronzed



GUIDACINGHIA A 3 RULLINI STRAP-GUIDE WITH 3 ROLLERS	
112.G.3R.20	Zincato / galvanized
112.G.3R.37	Bronzato / bronzed

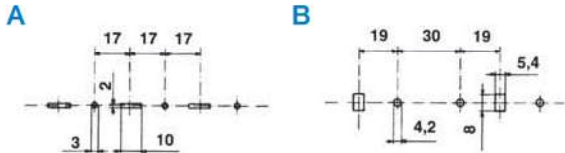
GUIDACINGHIA NYLON TRASVERSALE A 2 ASOLE TRASVERSAL NYLON STRAP- GUIDE-2 HOLES	
112.T.2A.93	Bianco / white
112.T.2A.94	Marrone / brown
112.T.2A.95	Nero / black



GUIDACINGHIA NYLON A 2 ASOLE NYLON STRAP-GUIDE 2 HOLES	
112.G.2A.93	Bianco / white
112.G.2A.94	Marrone / brown
112.G.2A.95	Nero / black

# RULLI OTTAGONALI – PROLUNGHE PER RULLO

## OCTAGONAL ROLLERS, TUBES EXTENSION

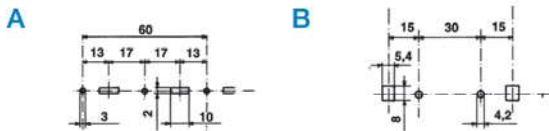
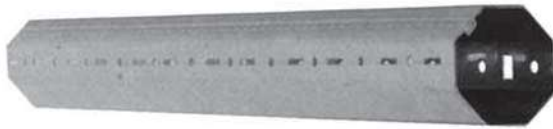


Schema foratura rulli ottagonali Ø 60/70 mm  
Holes scheme octagonal rollers Ø 60/70 mm

### RULLO OTTAGONALE IN FERRO ZINCATO OCTAGONAL GALVANIZED IRON ROLLER

Sezione Ø section	Spessore mm thickness	In barre 6 m** bars	Tagliato a misura Cut to measure
60 mm	6/10	116.R.06.20	116.T.06.20
60 mm	8/10	116.R.08.20	116.T.08.20
60 mm	9/10	116.R.09.20	116.T.09.20
60 mm	10/10	116.R.10.20	116.T.10.20
70 mm	11/10	117.R.11.20	117.T.11.20
70 mm	15/10	117.R.15.20	

\*\* su richiesta lunghezza barre 5,8 m  
on request lenght bars 5,8 m



Schema foratura rulli ottagonali Ø 40 mm  
Holes scheme octagonal rollers Ø 40 mm

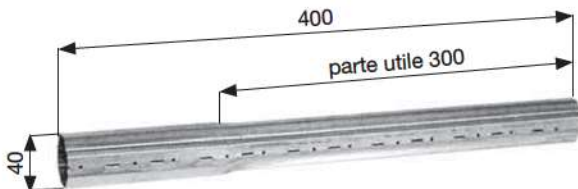
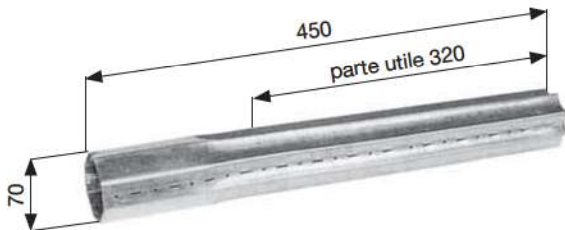
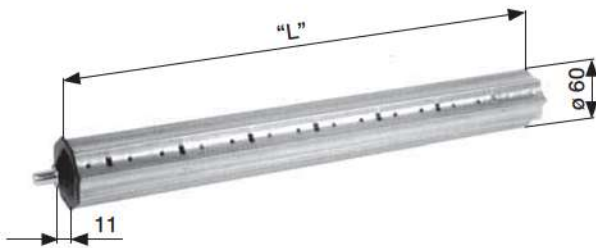
### MINI-RULLO OTTAGONALE IN FERRO ZINCATO OCTAGONAL GALVANIZED IRON MINI-ROLLER

Sezione Ø section	Spessore mm thickness	In barre 6 m** bars	Tagliato a misura Cut to measure
40 mm	5/10	250.R.05.20	
40 mm	6/10	250.R.06.20	250.T.06.20
40 mm	8/10	250.R.08.20	250.T.08.20

\*\* su richiesta lunghezza barre 5,8 m  
on request lenght bars 5,8 m

### PROLUNGA CON CALOTTA per rullo Ø 60 mm TUBE EXTENSION WITH CAP

116.P.06.20	"L" 500 mm	Per rullo / For roller 5/10-6/10
116.P.08.20	"L" 500 mm	Per rullo / For roller 8/10-10/10
116.P.35.20	"L" 350 mm	Per rullo / For roller 5/10-6/10
116.P.R5.20	"L" 350 mm	Per rullo / For roller 8/10-10/10



117.P.11.20

**PROLUNGA per rullo Ø 70 mm**  
TUBE EXTENSION for Ø70 mm roller

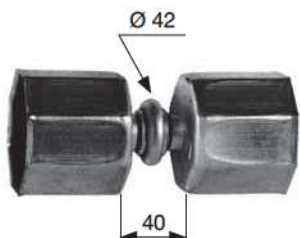
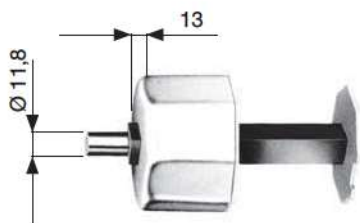
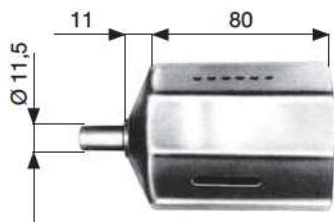
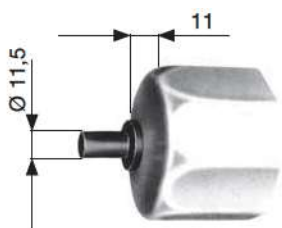
250.P.8G.20

**PROLUNGA per mini-rullo Ø40 mm**  
TUBE EXTENSION for mini-roller Ø40 mm



# ACCESSORI E CALOTTE PER RULLO OTTAGONALE

## ACCESSORIES AND CAPS FOR OCTAGONAL ROLLERS



**ANELLO ADATTATORE per rullo Ø 60mm**  
*ADAPTER RING for octagonal roller Ø 60 mm*

<b>116.A.08.90</b>	Ø 80 mm
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**ANELLO ADATTATORE per rullo Ø 70 mm**  
*ADAPTER RING for octagonal roller Ø 70 mm*

<b>117.A.08.90</b>	Ø 80 mm
--------------------	---------

<b>117.A.10.90</b>	Ø 101 mm
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<b>117.A.13.90</b>	Ø 130 mm
--------------------	----------

**ANELLO ADATTATORE per rullo Ø 40 mm**  
*ADAPTER RING for octagonal roller Ø 40 mm*

<b>250.R.AD.90</b>	Ø 50 mm
--------------------	---------

**FLANGIA di CONTENIMENTO per rullo Ø 60 mm**  
*PLASTIC GUIDE FLANGE for octagonal roller Ø 60*

<b>123.D.FC.90</b>	Ø 210 mm
--------------------	----------

**CALOTTA (in ferro zincato)**  
*CAP (galvanized iron)*

<b>118.C.00.20</b>	Per rullo Ø 60 mm for octagonal roller Ø 60 mm
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<b>119.C.00.20</b>	Per rullo Ø 70 mm for octagonal roller Ø 70 mm
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**CALOTTA REGISTRABILE (in ferro zincato)**  
*ADJUSTABLE CAP (galvanized iron)*

<b>118.C.RG.20</b>	Per rullo Ø 60 mm for octagonal roller Ø 60 mm
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<b>119.C.RG.20</b>	Per rullo Ø 70 mm for octagonal roller Ø 70 mm
--------------------	---

**CALOTTA RINFORZATA (in ferro zincato)**  
*REINFORCED CAP (galvanized iron)*

<b>118.C.RF.20</b>	Per rullo Ø 60 mm for octagonal roller Ø 60 mm
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<b>119.C.RF.20</b>	Per rullo Ø 70 mm for octagonal roller Ø 70 mm
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**CALOTTA DOPPIA (in ferro zincato)**  
*DOUBLE CAP (galvanized iron)*

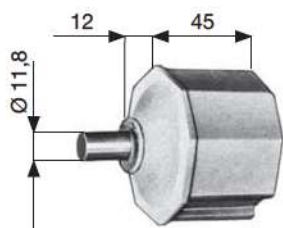
<b>118.C.DP.20</b>	Per rullo Ø 60 mm for octagonal roller Ø 60 mm
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<b>119.C.DP.20</b>	Per rullo Ø 70 mm for octagonal roller Ø 70 mm
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## CALOTTE PER RULLO OTTAGONALE

### CAPS FOR OCTAGONAL ROLLERS

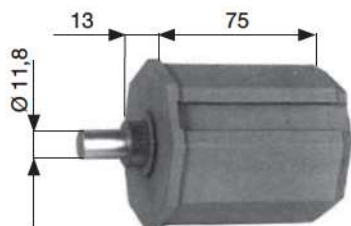


#### CALOTTA (in plastica)

CAP (plastic)

121.C.00.90

Per rullo Ø 60 mm  
for octagonal roller Ø 60 mm



#### CALOTTA LUNGA L=75 mm (in plastica)

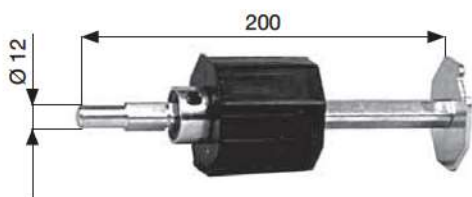
LONG CAP (plastic)

121.C.L6.90

Per rullo Ø 60 mm  
for octagonal roller Ø 60 mm

121.C.L7.90

Per rullo Ø 70 mm  
for octagonal roller Ø 70 mm



#### CALOTTA TELESCOPICA (in plastica)

ADJUSTABLE CAP (plastic)

121.C.E6.90

Per rullo Ø 60 mm / for octagonal roller Ø 60 mm  
perno Ø 12 mm / pivot Ø 12 mm



#### CALOTTA TELESCOPICA (in plastica)

ADJUSTABLE CAP (plastic)

121.C.R7.90

Per rullo Ø 70 mm / for octagonal roller Ø 70 mm  
perno Ø 12 mm / pivot Ø 12 mm

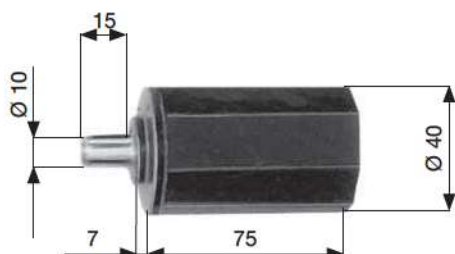


#### MINICALOTTA (in ferro zincato)

MINI-CAP (galvanized iron)

250.C.12.20

Per rullo Ø 40 mm / for roller octagonal Ø 40 mm  
perno Ø 12 mm / pivot Ø 12 mm



#### MINICALOTTA (in plastica)

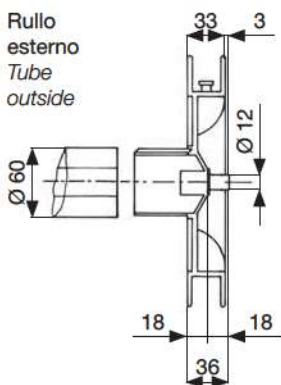
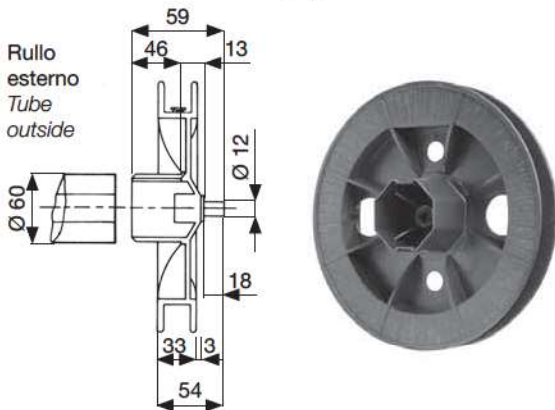
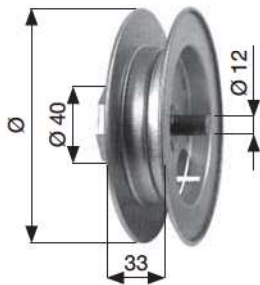
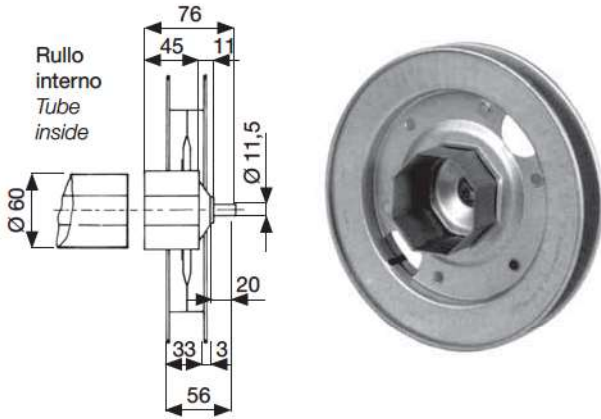
MINI-CAP (plastic)

250.C.10.90

Per rullo Ø 40 mm / for octagonal roller Ø 40 mm  
perno Ø 10 mm / pivot Ø 10 mm

# PULEGGE PER RULLO OTTAGONALE

## PULLEYS FOR OCTAGONAL ROLLERS



### PULEGGIA (in ferro zincato) PULLEY (galvanized iron)

120.P.16.20	Ø 160 mm	Per rullo Ø 60 mm / for roller Ø 60 mm
120.P.18.20	Ø 180 mm	Per rullo Ø 60 mm / for roller Ø 60 mm
120.P.20.20	Ø 200 mm	Per rullo Ø 60 mm / for roller Ø 60 mm
120.P.22.20	Ø 220 mm	Per rullo Ø 60 mm / for roller Ø 60 mm
120.P.24.20	Ø 240 mm	Per rullo Ø 60 mm / for roller Ø 60 mm
120.P.26.20	Ø 260 mm	Per rullo Ø 60 mm / for roller Ø 60 mm

### PULEGGIA PASSANTE (in ferro zincato) SLIDING PULLEY (galvanized iron)

120.P.P8.20	Ø 180 mm	Per rullo Ø 60 mm / for roller Ø 60 mm
120.P.P0.20	Ø 200 mm	Per rullo Ø 60 mm / for roller Ø 60 mm
120.P.P2.20	Ø 220 mm	Per rullo Ø 60 mm / for roller Ø 60 mm
120.P.P4.20	Ø 240 mm	Per rullo Ø 60 mm / for roller Ø 60 mm
120.P.P6.20	Ø 260 mm	Per rullo Ø 60 mm / for roller Ø 60 mm

### MINIPULEGGIA (in ferro zincato) MINI-PULLEY (galvanized iron)

250.P.14.20	Ø 140 mm	Per rullo Ø 40 mm / for roller Ø 40 mm
250.P.18.20	Ø 180 mm	Per rullo Ø 40 mm / for roller Ø 40 mm
250.P.22.20	Ø 220 mm	Per rullo Ø 40 mm / for roller Ø 40 mm
perno Ø 12 mm / pivot Ø 12 mm		

### PULEGGIA INTERNA (in plastica) INNER PULLEY (plastic)

121.P.18.90	Ø 180 mm	Per rullo Ø 60 mm / for roller Ø 60 mm
121.P.20.90	Ø 200 mm	Per rullo Ø 60 mm / for roller Ø 60 mm
121.P.22.90	Ø 220 mm	Per rullo Ø 60 mm / for roller Ø 60 mm

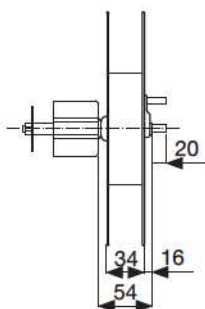
### PULEGGIA con PERNO INCASSATO (in plastica) PULLEY with INNER PIVOT (plastic)

122.P.18.90	Ø 180 mm	Per rullo Ø 60 mm / for roller Ø 60 mm
122.P.20.90	Ø 200 mm	Per rullo Ø 60 mm / for roller Ø 60 mm
122.P.22.90	Ø 220 mm	Per rullo Ø 60 mm / for roller Ø 60 mm



# RIDUTTORI

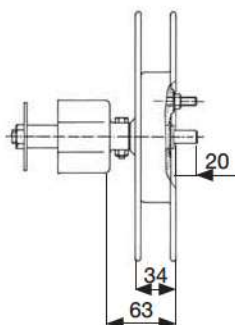
## REDUCTION GEARS



### RIDUTTORE – corona e ingranaggi in GHISA

#### REDUCTION PULLEY – CAST IRON gears

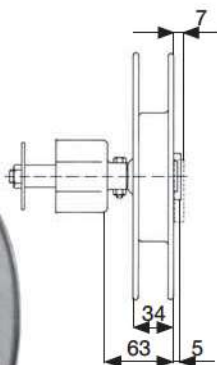
Articolo item	Rapporto ratio	Puleggia Pulley	Portata max load	Spessore cintino max Thickness strap	Rullo roller
125.R.GH.20	1:2,5	Ø 210	Kg 30	1,8 mm	Ø 60 mm
125.R.GH.24	1:2,5	Ø 240	Kg 30	1,8 mm	Ø 60 mm



### RIDUTTORE – corona e ingranaggi in ZAMA

#### REDUCTION PULLEY – ZAMAK gears

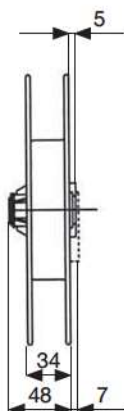
Articolo item	Rapporto ratio	Puleggia Pulley	Portata max load	Spessore cintino max Thickness strap	Rullo roller
125.R.18.20	1:2,66	Ø 180	Kg 30	1,5 mm	Ø 60 mm
125.R.20.20	1:2,66	Ø 200	Kg 30	1,8 mm	Ø 60 mm
125.R.22.20	1:2,66	Ø 220	Kg 30	1,8 mm	Ø 60 mm
125.R.24.20	1:3,14	Ø 240	Kg 45	1,8 mm	Ø 60 mm
126.R.24.20	1:3,14	Ø 240	Kg 50	1,8 mm	Ø 70 mm



### RIDUTTORE AD INCASTRO 30 mm-CALOTTA INCORPORATA

#### REDUCTION PULLEY 30 MM GAIN- WITH CAP

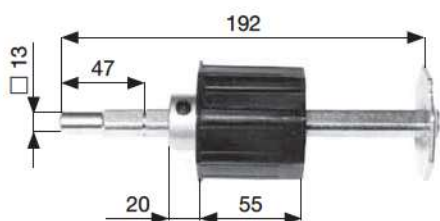
Articolo item	Rapporto ratio	Puleggia Pulley	Portata max load	Spessore cintino max Thickness strap	Rullo roller
Corona ingranaggi HOSTAFORM / HOSTAFORM gear					
125.R.H6.20	1:2,66	Ø 160	Kg 30	1,3 mm	Ø 60 mm
125.R.H8.20	1:2,66	Ø 180	Kg 30	1,5 mm	Ø 60 mm
125.R.H0.20	1:2,66	Ø 200	Kg 30	1,8 mm	Ø 60 mm
125.R.H2.20	1:2,66	Ø 220	Kg 30	1,8 mm	Ø 60 mm
Corona e ingranaggi in ZAMA / ZAMAK gears					
125.Z.20.20	1:2,66	Ø 200	Kg 30	1,8 mm	Ø 60 mm
125.Z.22.20	1:2,66	Ø 220	Kg 30	1,8 mm	Ø 60 mm



### RIDUTTORE AD INCASTRO 30 mm Foro □ 13 mm per CALOTTA PASSANTE

#### REDUCTION PULLEY 30 MM GAIN - hole □ 13 mm for SLIDING CAP

Articolo item	Rapporto ratio	Puleggia Pulley	Portata max load	Spessore cintino max Thickness strap	Rullo roller
Corona ingranaggi HOSTAFORM / HOSTAFORM gear					
125.R.F6.20	1:2,66	Ø 160	Kg 30	1,3 mm	Ø 60 mm
125.R.F8.20	1:2,66	Ø 180	Kg 30	1,5 mm	Ø 60 mm
125.R.F0.20	1:2,66	Ø 200	Kg 30	1,8 mm	Ø 60 mm
125.R.F2.20	1:2,66	Ø 220	Kg 30	1,8 mm	Ø 60 mm
Corona e ingranaggi in ZAMA / ZAMAK gears					
125.Z.FO.20	1:2,66	Ø 200	Kg 30	1,8 mm	Ø 60 mm
125.Z.FP.20	1:2,66	Ø 220	Kg 30	1,8 mm	Ø 60 mm



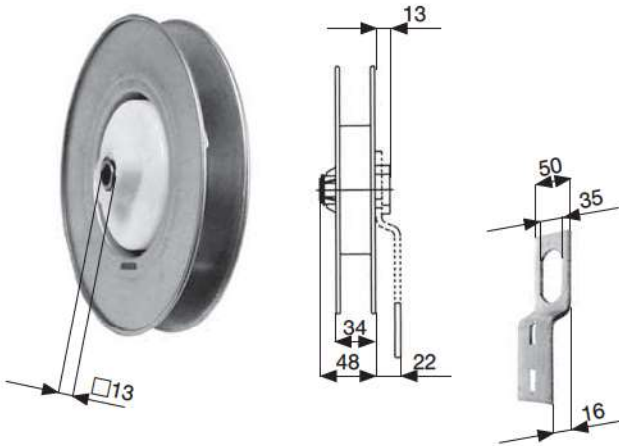
### CALOTTA TELESCOPICA PER RIDUTTORE (in plastica-con foro passante)

#### ADJUSTABLE CAP FOR REDUCTION GEAR (plastic - with sliding hole)

125.C.13.90	Per rullo Ø 60 mm / for roller Ø 60 mm perno □ 13 mm / pivot □ 13 mm
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## RIDUTTORI "EXTRA" REDUCTION GEARS "EXTRA"

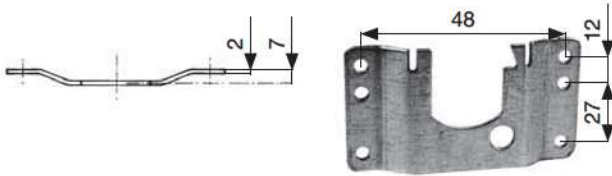


**RIDUTTORE "EXTRA" Foro □ 13 mm per CALOTTA PASSANTE Corona ingranaggi HOSTAFORM**  
REDUCTION PULLEY "EXTRA" hole □ 13 mm  
for SLIDING CAP - HOSTAFORM gear

Articolo item	Rapporto ratio	Puleggia Pulley	Portata max load	Spessore cintino max Thickness strap	Rullo roller
125.R.PF.20	1:2,66	Ø 200	Kg 30	1,8 mm	Ø 60 mm
125.R.PF.22	1:2,66	Ø 220	Kg 30	1,8 mm	Ø 60 mm

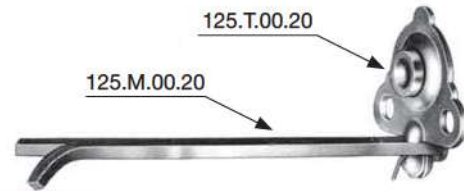
**125.S.EX.20** SUPPORTO PER RIDUTTORE "EXTRA"  
Support for reduction pulley "Extra"

## SUPPORTI E CUSCINETTI PER RIDUTTORI SUPPORTS AND BALL BEARINGS FOR REDUCTION PULLEY

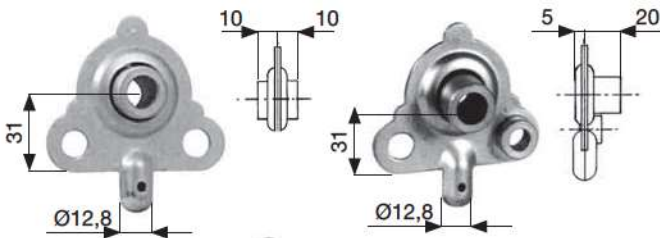


**SUPPORTO A LEGNO per riduttore - incastro 30 mm**  
Support for reduction pulley - 30 mm gain

**125.P.07.20** Sbalzo 7 mm / jut 7 mm

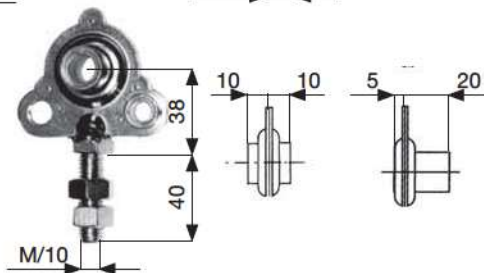


**125.S.00.20** SUPPORTO A MURO per riduttore  
Wall fixing support for reduction pulley



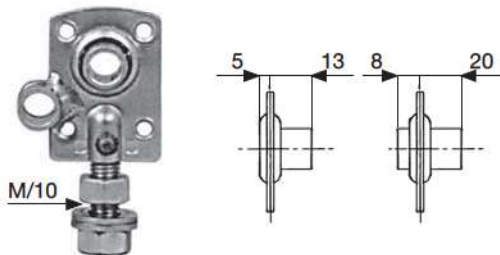
**TESTINA A SFERE per riduttore**  
Ball-bearing for reduction pulley

125.T.00.20	boccola (10+10) / bush (10+10)
125.T.DS.20	boccola (5+20) / bush (5+20)



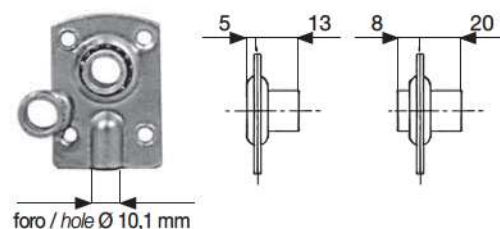
**TESTINA A SFERE REGISTRABILE per riduttore**  
Adjustable ball-bearing for reduction pulley

125.T.RE.20	boccola (10+10) / bush (10+10)
125.T.RD.20	boccola (5+20) / bush (5+20)



**TESTINA A SFERE "TN" REGISTRABILE per riduttore**  
Adjustable ball-bearing "TN" for reduction pulley

125.T.RF.20	boccola (5+13) / bush (5+13)
125.T.RS.20	boccola (8+20) / bush (8+20)



**TESTINA A SFERE "TN" ESTRAIBILE per riduttore**  
removable ball-bearing "TN" for reduction pulley

125.T.TR.20	boccola (5+13) / bush (5+13)
125.T.TS.20	boccola (8+20) / bush (8+20)

# SUPPORTI A MURARE – CUSCINETTI A SFERE

## WALL SUPPORTS – BALL BEARINGS

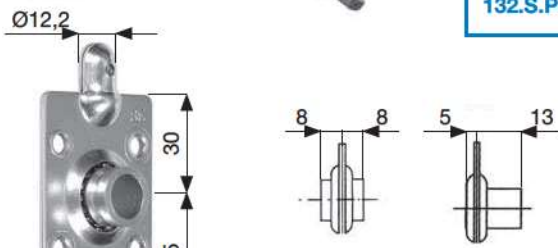


SUPPORTO A MURARE "TE-E" Muratura stampata in ferro+testina a sfere zincata WALL SUPPORT "TE-E" – galvanized ball bearing	
<b>129.S.00.10</b>	boccola 16 mm ( 8+ 8) - foro Ø 12,4 mm bush 16 mm (8+8) - hole Ø 12,4 mm
<b>129.S.PR.10</b>	boccola 18 mm ( 5+13) - foro Ø 12,4 mm bush 18 mm ( 5 +13) - hole Ø 12,4 mm

SUPPORTO A MURARE "TE" Muratura in ferro piatto mm 25x5+testina a sfere zincata WALL SUPPORT "TE" – galvanized ball bearing	
<b>130.S.00.10</b>	boccola 16 mm ( 8+ 8)-foro Ø 12,4 mm bush 16 mm (8+8)- hole Ø 12,4 mm
<b>130.S.PR.10</b>	boccola 18 mm ( 5+13)-foro Ø 12,4 mm bush 18 mm ( 5 +13)- hole Ø 12,4 mm



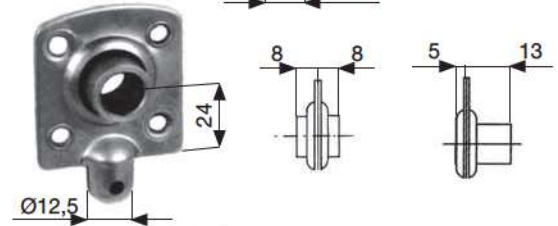
SUPPORTO A MURARE "TN" Muratura in ferro piatto mm 25x5 – perno Ø 10 mm testina a sfere zincata estraibile WALL SUPPORT "TN" – pivot Ø 10 mm Removable galvanized ball bearing	
<b>132.S.00.10</b>	boccola 16 mm (8+ 8) – foro Ø 12,4 mm bush 16 mm (8+8)- hole Ø 12,4 mm
<b>132.S.PR.10</b>	boccola 18 mm ( 5+13) – foro Ø 12,4 mm bush 18 mm ( 5 +13) - hole Ø 12,4 mm



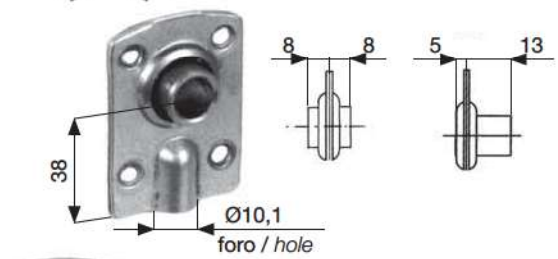
TESTINA A SFERE "DUAL" Doppia scelta altezza: 30 o 35 mm BALL BEARING "DUAL" – double size: 30 or 35 mm	
<b>128.T.DS.20</b>	boccola 16 mm (8+ 8) – foro Ø 12,4 mm bush 16 mm (8+8) - hole Ø 12,4 mm
<b>128.T.DU.20</b>	boccola 18 mm (5+13) – foro Ø 12,4 mm bush 18 mm ( 5 +13) - hole Ø 12,4 mm



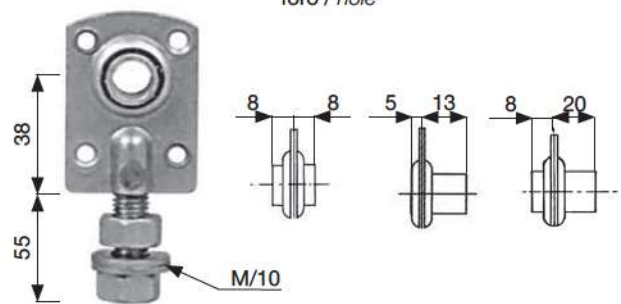
TESTINA A SFERE "TE-EZ" – h : 30 mm BALL BEARING "TE-EZ"– h: 30 mm	
<b>128.T.30.20</b>	boccola 16 mm (6+10) – foro Ø 12,4 mm bush 16 mm (6+10) - hole Ø 12,4 mm



TESTINA A SFERE "TE-Z" – h : 24 mm BALL BEARING "TE-Z"– h: 24 mm	
<b>130.T.00.20</b>	boccola 16 mm (8+ 8) - foro Ø 12,4 mm bush 16 mm (8+8) - hole Ø 12,4 mm
<b>130.T.PR.20</b>	boccola 18 mm (5+13) – foro Ø 12,4 mm bush 18 mm ( 5 +13) - hole Ø 12,4 mm



TESTINA A SFERE "TN" estraibile Removable BALL BEARING "TN"	
<b>132.T.00.20</b>	boccola 16 mm (8+ 8) – foro Ø 12,4 mm bush 16 mm (8+8) - hole Ø 12,4 mm
<b>132.T.PR.20</b>	boccola 18 mm (5+13) – foro Ø 12,4 mm bush 18 mm ( 5 +13) - hole Ø 12,4 mm

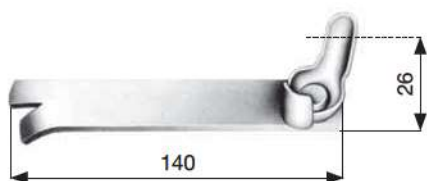


TESTINA A SFERE "TN" registrabile con vite Adjustable BALL BEARING "TN" with screw	
<b>132.T.RF.20</b>	boccola 16 mm (8+ 8) – foro Ø 12,4 mm bush 16 mm (8+8) - hole Ø 12,4 mm
<b>132.T.RP.20</b>	boccola 18 mm (5+13) – foro Ø 12,4 mm bush 18 mm ( 5 +13) - hole Ø 12,4 mm
<b>132.T.RS.20</b>	boccola 28 mm (8+20) – foro Ø 12,4 mm bush 28 mm ( 8 +20) - hole Ø 12,4 mm



## SUPPORTI TIPO "G" – (Cuscinetto Ø 42 mm)

WALL AND SCREW-FIXING SUPPORTS TYPE "G"-(ball bearing Ø 42 mm)



### SUPPORTO A MURARE TIPO "G" WALL-FIXING SUPPORT TYPE "G"

133.S.14.20

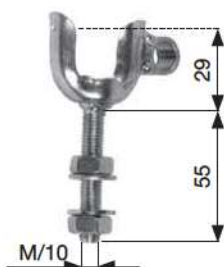
Zincato – per cuscinetto Ø 42 mm  
Galvanized – for ball bearing Ø 42 mm



### SUPPORTO REGISTRABILE CON VITE TIPO "G" ADJUSTABLE BEARING HOLDER TYPE "G"

146.P.00.20

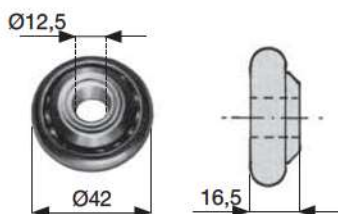
Zincato – per cuscinetto Ø 42 mm  
Galvanized – for ball bearing Ø 42 mm



### SUPPORTO REGISTRABILE CON VITE TIPO "G" PER RIDUTTORE ADJUSTABLE BEARING HOLDER "G" FOR REDUCTION PULLEY

146.P.RR.20

Zincato – per cuscinetto Ø 42 mm  
Galvanized – for ball bearing Ø 42 mm



### CUSCINETTO A SFERE TIPO "G" Ø 42 mm BALL BEARING TYPE "G" Ø 42 mm

145.C.FE.20

Zincato –boccola ferro, foro Ø12,5 mm  
Galvanized – iron bush, hole Ø 12,5 mm

145.C.NY.20

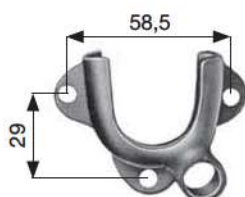
Zincato –boccola nylon, foro Ø12,5 mm  
Galvanized –nylon bush, hole Ø 12,5 mm



### SUPPORTO A CASSONETTO TIPO "G" SCREW-FIXING SUPPORT TYPE "G"

150.S.00.20

Zincato – per cuscinetto Ø 42 mm  
Galvanized – for ball bearing Ø 42 mm



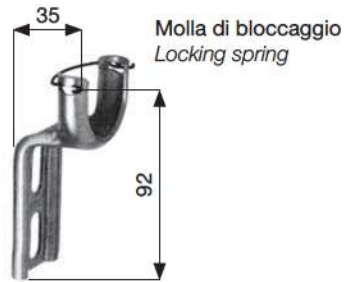
### SUPPORTO A CASSONETTO TIPO "G" CON FERMO PER RIDUTTORE SCREW-FIXING SUPPORT TYPE "G" WITH STOP FOR REDUCTION PULLEY

150.S.GR.20

Zincato – per cuscinetto Ø 42 mm  
Galvanized – for ball bearing Ø 42 mm

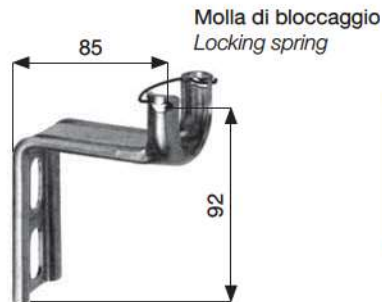
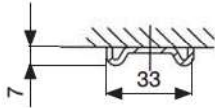
## SUPPORTI TIPO "G" – (Cuscinetto Ø 42 mm)

WALL AND SCREW-FIXING SUPPORTS TYPE "G"-(ball bearing Ø 42 mm)



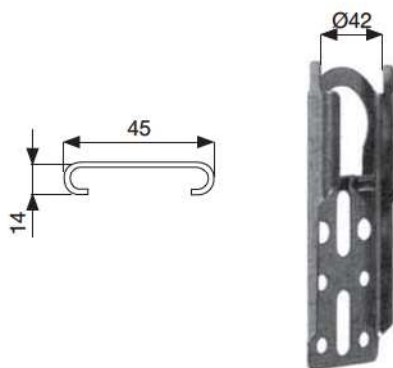
### SUPPORTO A MENSOLA TIPO "G" - sbalzo 35 mm SCREW-FIXING SUPPORT TYPE "G" -projector 35mm

**151.S.35.20** Zincato – per cuscinetto Ø 42 mm  
Galvanized – for ball bearing Ø 42 mm



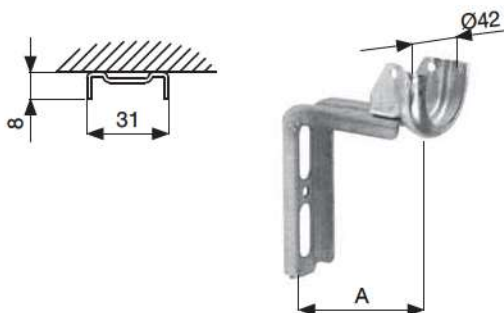
### SUPPORTO A MENSOLA TIPO "G" - sbalzo 85 mm SCREW-FIXING SUPPORT TYPE "G" - projector 85mm

**151.S.85.20** Zincato – per cuscinetto Ø 42 mm  
Galvanized – for ball bearing Ø 42 mm



### SUPPORTO PIANO TIPO "G" DIRITTO-da avvitare SCREW-FIXING STRAIGHT SUPPORT TYPE "G"

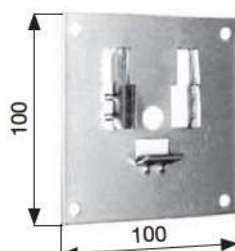
**156.E.00.20** Zincato – per cuscinetto Ø 42 mm  
Galvanized – for ball bearing Ø 42 mm



### SUPPORTO PIANO TIPO "G" – da avvitare SCREW-FIXING SUPPORT TYPE "G"

**156.E.35.20** Zincato -per cuscinetto Ø42mm- A = 35 mm  
Galvanized-for ball bearing Ø42 mm-projector 35mm

**156.E.85.20** Zincato -per cuscinetto Ø42mm- A = 85 mm  
Galvanized-for ball bearing Ø42 mm-projector 85mm



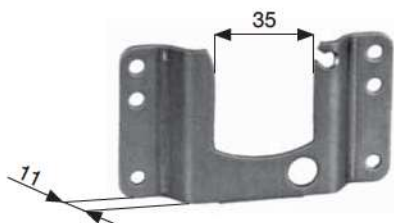
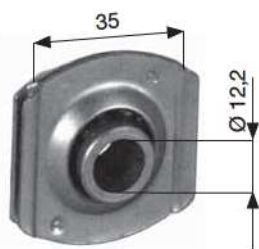
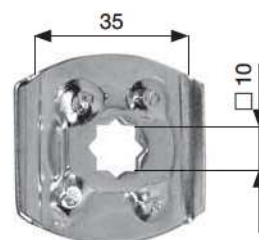
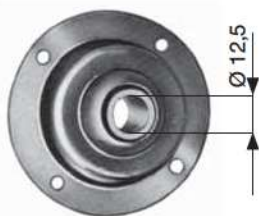
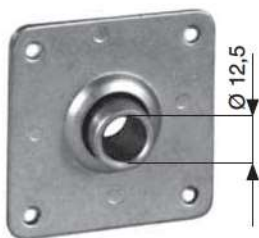
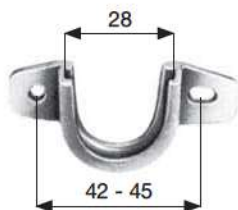
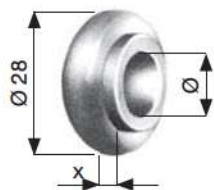
### PIASTRA QUADRA PER CUSCINETTO TIPO "G" PLATE SUPPORT FOR BALL BEARING TYPE "G"

**250.P.10.20** Zincata – per cuscinetto Ø 42 mm  
Galvanized – for ball bearing Ø 42 mm



## SUPPORTI A CASSONETTO

### SCREW-FIXING SUPPORTS



#### CUSCINETTO A SFERE Ø esterno 28 mm

#### BALL BEARING Ø outside 28 mm

Articolo item	Ø interno Ø inside	Sporgenza X Jutting X	BOCCOLA FERRO IRON BUSH
250.F.08.20	10 mm	8 mm	
250.F.L8.20	12 mm	8 mm	
250.F.28.20	10 mm	2 mm	
250.F.G8.20	12 mm	2 mm	
250.N.28.20	10 mm	2 mm	BOCCOLA NYLON NYLON BUSH
250.N.G8.20	12 mm	2 mm	

#### SUPPORTO A CASSONETTO

#### SCREW-FIXING SUPPORT

250.S.28.20	Zincato – per cuscinetto Ø 28 mm Galvanized – for ball bearing Ø 28 mm
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#### SUPPORTO A CASSONETTO QUADRO A SFERE

#### SCREW-FIXING SQUARE SUPPORT

155.S.QS.20	Zincato – Ø boccola 12,5 mm Galvanized – bush Ø 12,5 mm
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#### SUPPORTO A CASSONETTO A CONCHIGLIA

#### SCREW-FIXING SHELL-SUPPORT

156.S.00.20	Zincato – Ø boccola 12,5 mm Galvanized – bush Ø 12,5 mm
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#### TESTINA estraibile-foro a stella □ 10-innesto 35 mm

#### Removable bush-star hole □ 10-joint 35 mm

160.C.QM.20	Zincata-per perno □ 10 mm (motore) Galvanized-for pivot □ 10 mm
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#### TESTINA A SFERE estraibile innesto 35 mm

#### Removable ball bearing - joint 35 mm

160.C.00.20	Zincata- boccola Ø 12,2 mm Galvanized - bush Ø 12,2 mm
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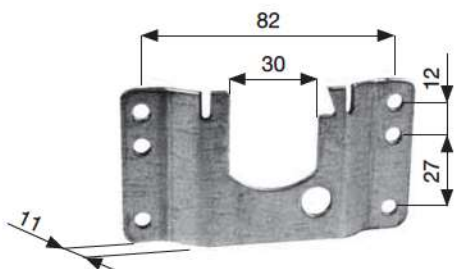
#### SUPPORTO A CASSONETTO - innesto 35 mm

#### SCREW-FIXING SUPPORT - joint 35 mm

160.S.00.20	Zincato - sbalzo 11 mm Galvanized – jut 11 mm
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## SUPPORTI A CASSONETTO

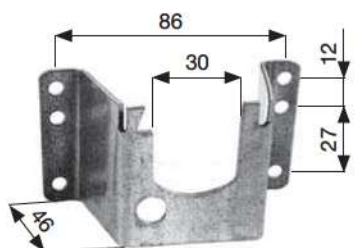
### SCREW-FIXING SUPPORTS



#### SUPPORTO A CASSONETTO - innesto 30 mm

##### SCREW FIXING SUPPORT - joint 30 mm

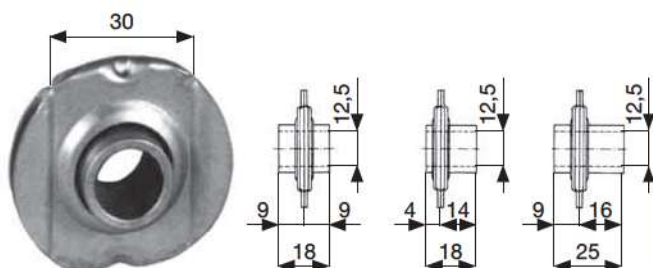
**161.S.00.20** Zincato - sbalzo 11 mm  
Galvanized - jut 11 mm



#### SUPPORTO A CASSONETTO - innesto 30 mm

##### SCREW FIXING SUPPORT - joint 30 mm

**161.S.46.20** Zincato - sbalzo 46 mm  
Galvanized - jut 46 mm



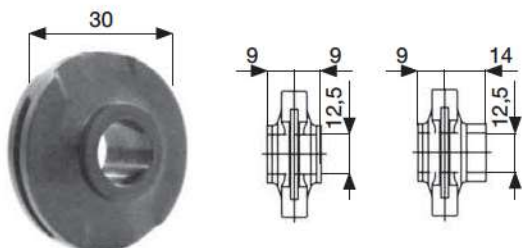
#### TESTINA A SFERE zincata estraibile innesto 30mm

##### galvanized removable BALL BEARING - joint 30 mm

**161.C.00.20** Boccola / bush 18 mm (9+9) - Ø 12,5 mm

**161.C.P4.20** Boccola / bush 18 mm (4+14) - Ø 12,5 mm

**161.C.PR.20** Boccola / bush 25 mm (9+16) - Ø 12,5 mm

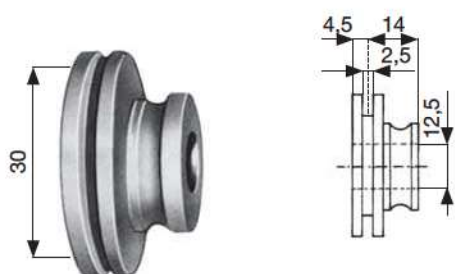


#### TESTINA NYLON estraibile - innesto 30mm

##### Removable NYLON BUSH - joint 30 mm

**161.C.00.90** Boccola / bush 18 mm (9+9) - Ø 12,5 mm

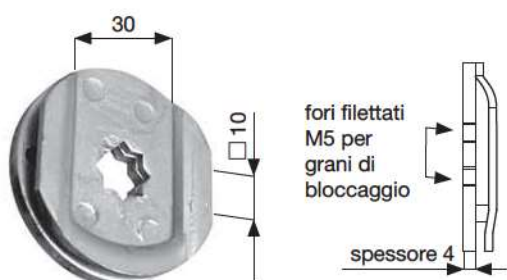
**161.C.14.90** Boccola / bush 23 mm (9+14) - Ø 12,5 mm



#### BOCCOLA NYLON circolare - innesto 30 mm

##### Round NYLON BUSH - joint 30 mm

**161.C.NY.90** Ø 12,5 mm



#### TESTINA estraibile-foro a stella □ 10-innesto 30 mm

##### Removable BUSH - star hole □ 10 - joint 30 mm

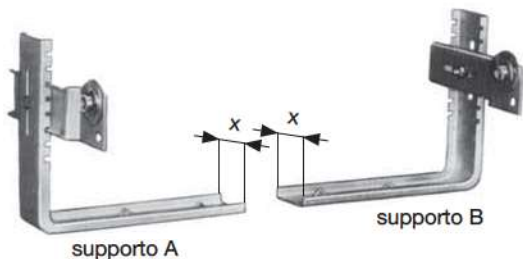
**161.C.QM.20** Zincata-per perno □ 10 mm (motore)  
Galvanized-for pivot □ 10 mm

Con bloccaggio a grani filettati / with locking through screws



## SUPPORTI REGISTRABILI A TELAIO

### ADJUSTABLE FRAME SUPPORTS



#### SUPPORTI A TELAIO TIPO "TORINO" KIT COMPLETO (1 paio)

FRAME SUPPORTS TYPE "TORINO" - COMPLETE KIT (1 pair)

Articolo item	SUPP. "A" Piega bend "P"	SUPP. "B" Piega bend "P"	Solo parte verticale-zinc. Only vertical part-galvanized
165.K.00.20	0 mm	0 mm	n. 2 art.165.S.00.20
165.K.22.20	25 mm	25 mm	n. 2 art.165.S.02.20
165.K.28.20	25 mm	80 mm	165.S.02.20+165.S.08.20
165.K.21.20	25 mm	100 mm	165.S.02.20+165.S.10.20
165.K.77.20	70 mm	70 mm	n. 2 art.165.S.07.20
165.K.88.20	80 mm	80 mm	n. 2 art.165.S.08.20
165.K.11.20	100 mm	100 mm	n. 2 art.165.S.10.20

Il kit comprende anche:

n.1	165.M.11.20	Mensola tipo "TORINO" piega 11 destra zincata
n.1	165.M.11.20SX	Mensola tipo "TORINO" piega 11 sinistra zincata
n.2	161.C.00.20	Testina a sfere estraibile innesto 30 mm zinc.
n.2	167.K.VD.20	Vite e dado 6x20 zincato

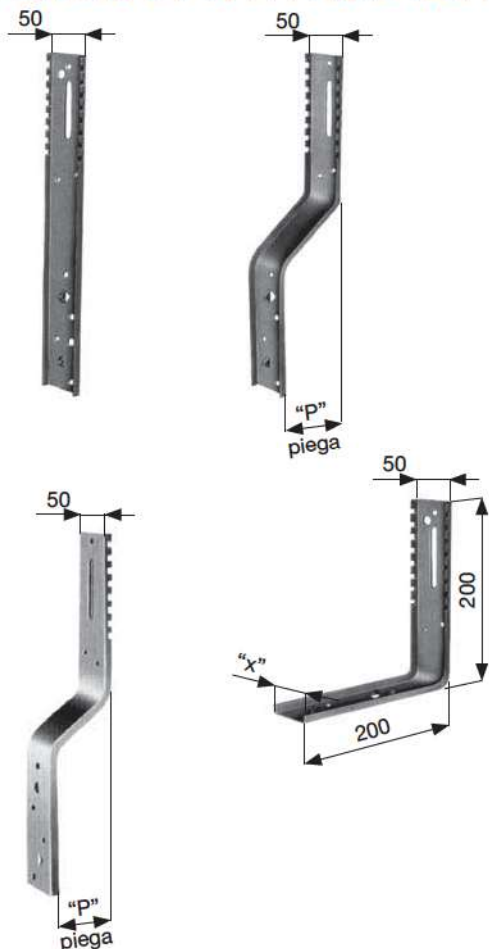
#### SUPPORTI A TELAIO TIPO "TORINO" A SQUADRO - KIT COMPLETO (1 paio)

RIGHT-ANGLE 90° FRAME SUPPORTS  
TYPE "TORINO" COMPLETE KIT (1 pair)

165.K.SQ.20	Zincato / galvanized Base "X" 50 mm
166.K.SQ.20	Zincato / galvanized Base "X" 46 mm
166.K.S4.20	Zincato / galvanized Base "X" 40 mm

## COMPONENTI PER SUPPORTI A TELAIO TIPO "TORINO"

### COMPONENTS FOR FRAME SUPPORTS TYPE "TORINO"



#### SUPPORTO VERTICALE TIPO "TORINO" - zincato

VERTICAL PART FOR FRAME SUPPORT TYPE "TORINO"

165.S.00.20	Diritto / straight
165.S.02.20	Piega / bend "P" 25 mm
165.S.07.20	Piega / bend "P" 70 mm
165.S.08.20	Piega / bend "P" 80 mm
165.S.10.20	Piega / bend "P" 100 mm
165.S.12.20	Piega / bend "P" 120 mm

#### SUPPORTO VERTICALE TIPO "TORINO" A SQUADRO - zincato

RIGHT ANGLE 90° FRAME SUPPORT TYPE "TORINO"

165.S.SQ.20	Base "X" 50 mm
166.S.SQ.20	Base "X" 46 mm
166.S.S4.20	Base "X" 40 mm
166.S.SF.20	Base "X" 40 mm con fori filettati

#### SUPPORTO VERTICALE TIPO "TORINO" ROVESCiato - zincato

VERTICAL PART FOR SUPPORT TYPE "TORINO"  
INVERTED - galvanized

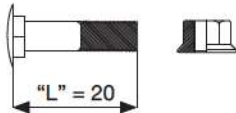
167.S.R6.20	Piega / bend "P" 65 mm
167.S.R8.20	Piega / bend "P" 85 mm

# COMPONENTI PER SUPPORTI A TELAIO TIPO "TORINO"

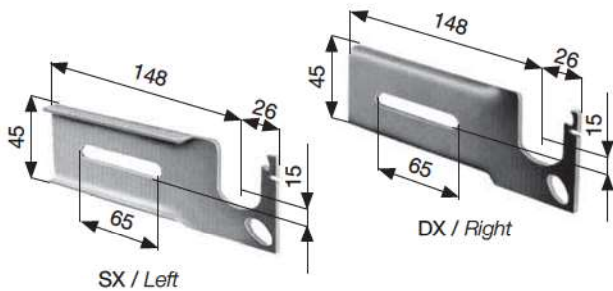
## COMPONENTS FOR FRAME SUPPORTS TYPE "TORINO"



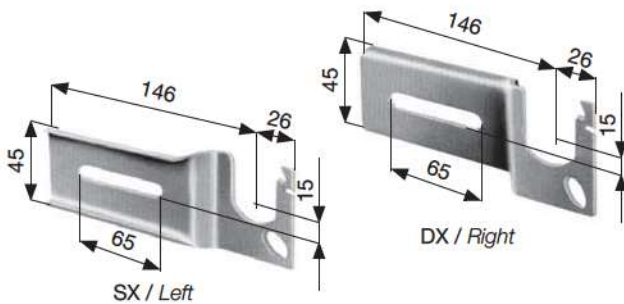
STAFFA A MURARE PER SUPPORTO VERTICALE TIPO "TORINO" WALL FIXING STRUT FOR VERTICAL SUPPORT TYPE "TORINO"	
<b>167.Z.14.20</b>	Zincata - sfusa / Galvanized - loose
<b>167.Z.RB.20</b>	Zincata - ribattuta / Galvanized - clenched



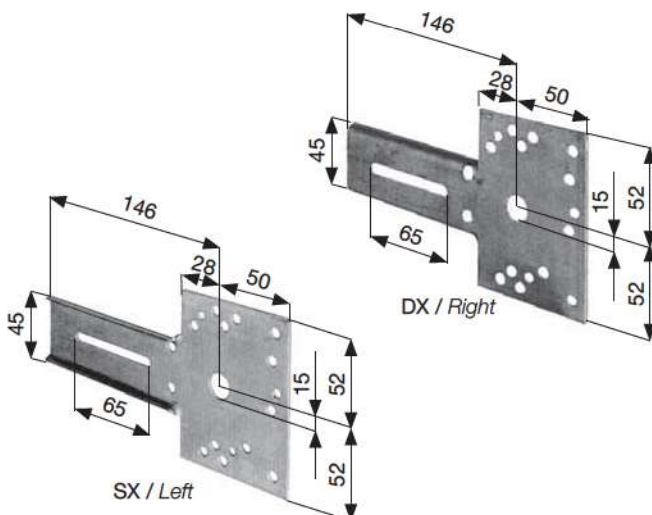
VITE E DADO PER SUPPORTO "TORINO" SCREW+NUT FOR SUPPORT TYPE "TORINO"	
<b>167.K.VD.20</b>	Vite TTQST M6 con dado flangiato e zigrinato- L = 20 mm



MENSOLA "TORINO" DIRITTA zincata STRAIGHT BRACKET FOR SUPPORT "TORINO" galvanized	
<b>165.M.00.20</b>	Destra-innesto 30 mm Right - 30 mm joint - galvanized
<b>165.M.00.20SX</b>	Sinistra-innesto 30 mm Left - 30 mm joint



MENSOLA "TORINO" CON PIEGA - zincata (innesto 30 mm) BENT BRACKET FOR SUPPORT "TORINO" galvanized (30 mm joint)	
<b>165.M.07.20</b>	Destra - piega 7 mm / Right - 7 mm bend
<b>165.M.07.20SX</b>	Sinistra - piega 7 mm / Left - 7 mm bend
<b>165.M.11.20</b>	Destra-piega 11 mm / Right - 11 mm bend
<b>165.M.11.20SX</b>	Sinistra - piega 11 mm / Left - 11 mm bend

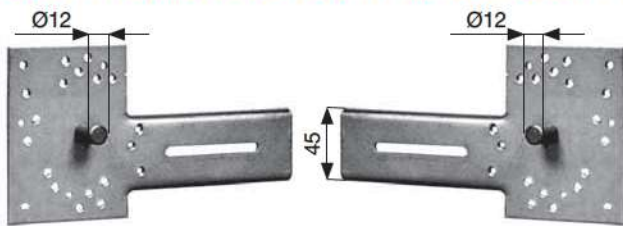


MENSOLA "TORINO" zincata per argano "Monaco" e avvolgitore "Omega" "TORINO" BRACKET galvanized for winch "Monaco" and coiler "Omega"	
<b>165.M.AM.20</b>	Destra / Right
<b>165.M.AM.20SX</b>	Sinistra / Left
<b>165.M.AF.20</b>	Destra - fori filettati / Right - threaded holes
<b>165.M.AF.20SX</b>	Sinistra - fori filettati / Left - threaded holes



# COMPONENTI PER SUPPORTI A TELAIO TIPO "TORINO"

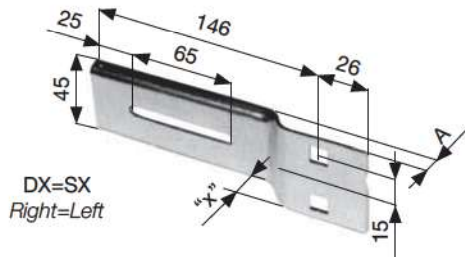
## COMPONENTS FOR FRAME SUPPORTS TYPE "TORINO"



SX / Left

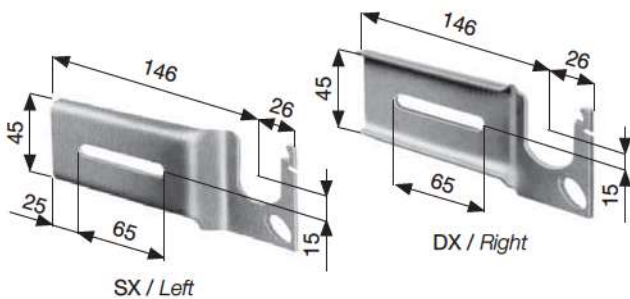
DX / Right

MENSOLA "TORINO" zincata per argano "Sydney" - con perno di centraggio "TORINO" BRACKET for winch "Monaco" - with pivot	
165.M.AP.20	destra - fori filettati / Right - threaded holes
165.M.AP.20SX	Sinistra - fori filettati / Left - threaded holes



DX=SX  
Right=Left

MENSOLA "TORINO" per motore - fori □ 10 mm "TORINO" BRACKET for tubular motor - holes □ 10 mm	
165.M.OQ.20	Diritta (X= 0 mm) -zincata flat - galvanized
165.M.Q1.20	Con piega (X= 11 mm) - zincata 11 mm bend /galvanized
Destra = sinistra / right = left	



SX / Left

DX / Right

MENSOLA "TORINO" ROVESCIAITA Per supporto rovesciato (innesto 30) INVERTED BRACKET for inverted support "TORINO" (30 mm joint)	
167.M.RV.20	Destra - zincata / Right - galvanized
167.M.RV.20SX	Sinistra - zincata / Left - galvanized



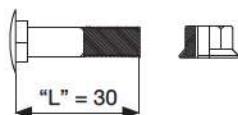
DX=SX  
Right=Left

MENSOLA "UNI" zincata "UNI" BRACKET galvanized	
165.M.UN.20	Per bussola nylon / use nylon bush
Destra=sinistra / right=left	



DX=SX  
Right=Left

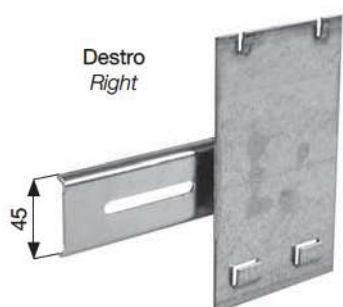
BUSSOLA NYLON "UNI" NYLON BUSH	
170.B.DF.90	Per mensola "UNI" e "DE FAVERI"



"L" = 30

MENSOLA "UNI" PER MOTORE "UNI" BRACKET FOR TUBULAR MOTOR	
165.M.UM.20	Foro □ 10 mm a stella - zincata Star-hole □ 10 mm - galvanized
Destra=sinistra / right=left	

VITE E DADO PER MENSOLA "UNI" SCREW+NUT FOR "UNI" BRACKET	
167.K.VU.20	Vite TTQST M6 con dado flangiato L= 30 mm

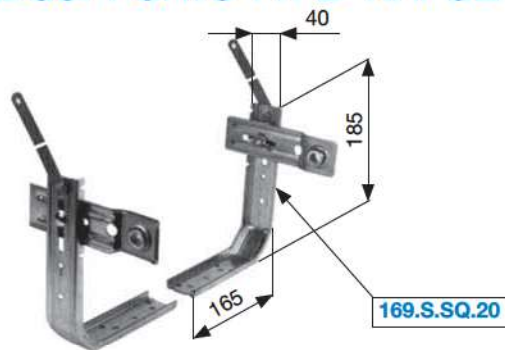


Destro  
Right

MENSOLA "TORINO" PER MICROLIFT "TORINO" BRACKET FOR MICROLIFT	
165.M.MC.20	Destra - zincata / Right - galvanized
165.M.MC.20SX	Sinistra - zincata / left - galvanized

## SUPPORTI A TELAIO TIPO "NAPOLI"

### FRAME SUPPORTS TYPE "NAPOLI"



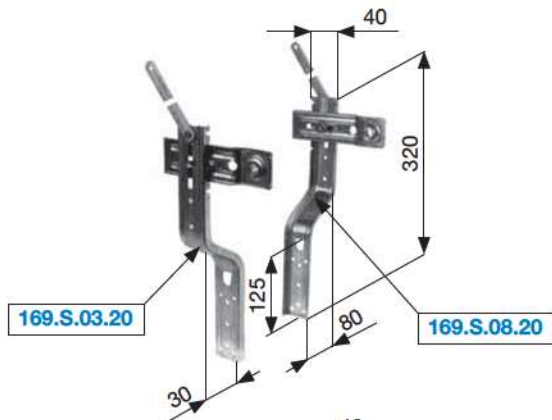
#### SUPPORTI A TELAIO TIPO "NAPOLI"

##### A SQUADRO - zincati

RIGHT-ANGLE 90° FRAME SUPPORTS TYPE "NAPOLI"

169.K.SQ.20

KIT COMPLETO (1 paio)  
COMPLETE KIT (1 pair)



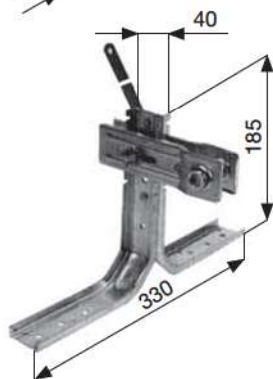
#### SUPPORTI A TELAIO TIPO "NAPOLI"

##### (PIEGA 30/80 mm) - zincati

FRAME SUPPORTS TYPE "NAPOLI" (BEND 30/80 mm)

169.K.38.20

KIT COMPLETO (1 paio)  
COMPLETE KIT (1 pair)



#### SUPPORTI A TELAIO TIPO "NAPOLI"

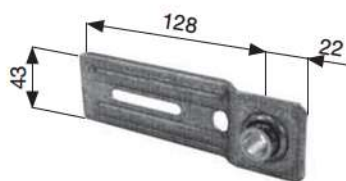
##### (per BIFORA) - zincati

FRAME SUPPORTS TYPE "NAPOLI"

(for MULLIONED WINDOW) - galvanized

169.K.SB.20

KIT COMPLETO (1 paio) - assemblato  
COMPLETE KIT (1 pair) - assembled



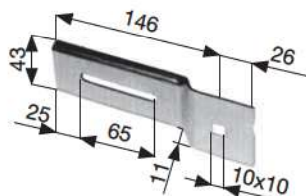
#### MENSOLA "NAPOLI"

##### "NAPOLI" BRACKET

169.M.NA.20

Con cuscinetto fisso - zincata  
With ball bearing - galvanized

Destra=sinistra / right=left



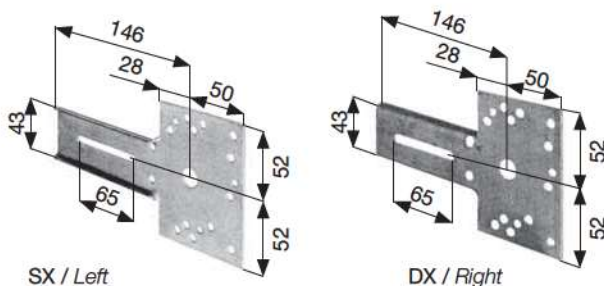
#### MENSOLA "NAPOLI" PER MOTORE

##### "NAPOLI" BRACKET FOR TUBULAR MOTOR

169.M.Q1.20

Con foro □ 10 mm - zincata  
With hole □ 10 mm - galvanized

Destra=sinistra / right=left



#### MENSOLA "NAPOLI" PER ARGANO

##### "NAPOLI" BRACKET FOR WINCH

169.M.AM.20

Destra - zincata / Right - galvanized

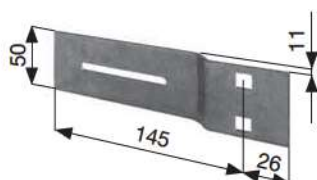
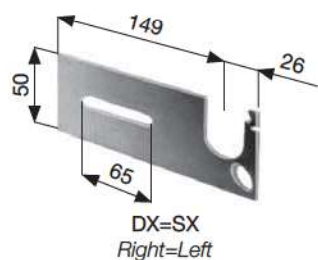
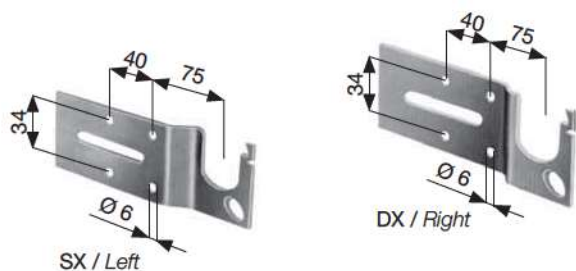
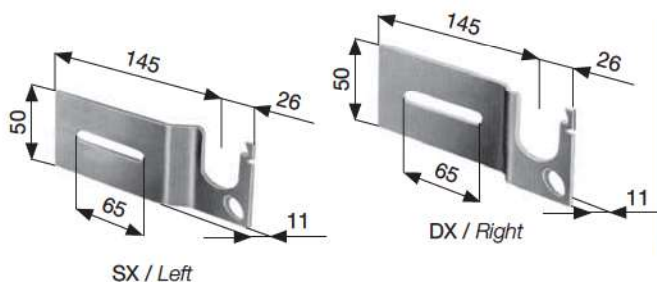
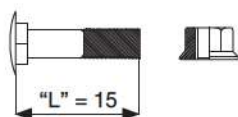
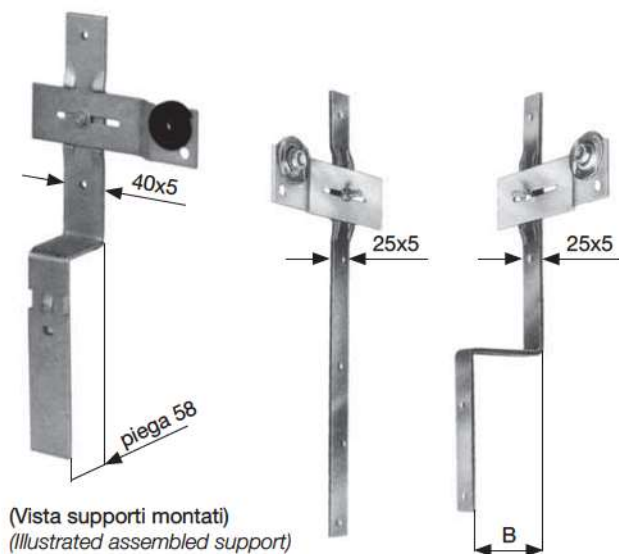
169.M.AM.20SX

Sinistra - zincata / Left - galvanized



## SUPPORTI A TELAIO

### FRAME SUPPORTS



#### SUPPORTO A TELAIO TIPO "ALL.CO" - zincato

##### LATERAL FRAME SUPPORT TYPE "ALL.CO" - galvanized

<b>170.S.AL.20</b>	Solo supporto verticale-piega 58 mm Only vertical support - bend 58 mm
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#### SUPPORTO A TELAIO TIPO "MANTOVA"- zincato

##### LATERAL FRAME SUPPORT TYPE "MANTOVA" - galvanized

<b>171.S.00.20</b>	Solo supporto verticale- diritto Only vertical support - straight
<b>171.S.75.20</b>	Solo supporto verticale - piega "B" 75 mm Only vertical support - bend "B" 75 mm
<b>171.S.95.20</b>	Solo supporto verticale - piega "B" 95 mm Only vertical support - bend "B" 95 mm

#### VITE E DADO per supporti "ALL.CO" e "MANTOVA"

##### SCREW+NUT for supports "ALL.CO" and "MANTOVA"

<b>170.K.VD.20</b>	Vite TTQST M6 con dado flangiato e zigrinato- L= 16 mm
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#### MENSOLA Per supporti "ALL.CO" e "MANTOVA"

##### CON PIEGA - zincata (innesto 30 mm)

##### BRACKET for supports "ALL.CO" and "MANTOVA" - galvanized (30 mm joint)

<b>170.M.11.20</b>	Destra - piega 11 mm / Right - 11 mm bend
<b>170.M.11.20SX</b>	Sinistra - piega 11 mm / Left - 11 mm bend

#### MENSOLA Per supporti "ALL.CO" e "MANTOVA"

##### CON FORI - zincata (innesto 30 mm)

##### BRACKET for supports "ALL.CO" and "MANTOVA" WITH HOLES- galvanized (30 mm joint)

<b>170.M.4F.20</b>	Destra - piega 11 mm / Right - 11 mm bend
<b>170.M.4F.20SX</b>	Sinistra - piega 11 mm / Left - 11 mm bend

#### MENSOLA DIRITTA Per supporti "ALL.CO" e "MANTOVA"

##### STRAIGHT BRACKET For supports "ALL.CO" and "MANTOVA"

<b>170.M.00.20</b>	zincata (innesto 30 mm) galvanized (30 mm joint)
Destra=sinistra / right=left	

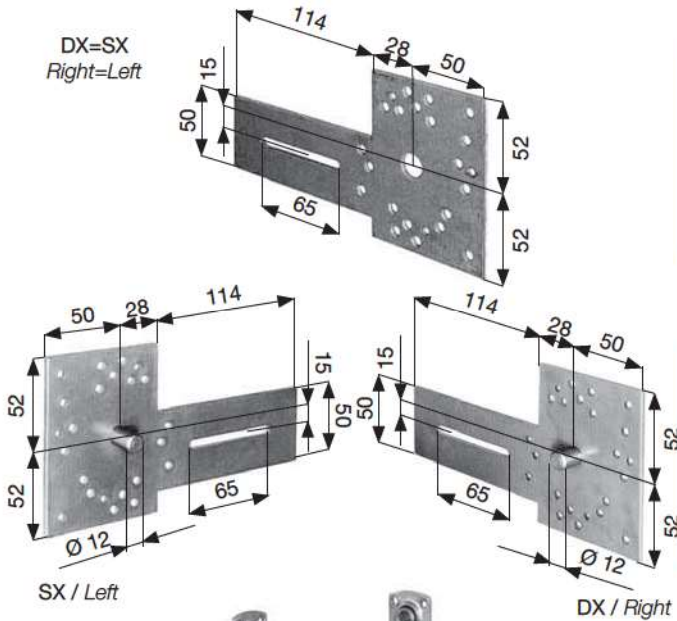
#### MENSOLA "ALL.CO" e "MANTOVA" PER MOTORE

##### "ALL.CO" AND "MANTOVA BRACKET FOR TUBULAR MOTOR

<b>170.M.AS.20</b>	Con foro □ 10 mm - zincata With hole □ 10 mm - galvanized
Destra=sinistra / right=left	

## SUPPORTI A TELAIO

### FRAME SUPPORTS



#### MENSOLA "ALL.CO" e "MANTOVA" PER ARGANO E AVVOLGITORE "OMEGA" "ALL.CO" / "MANTOVA" BRACKET FOR WINCH AND COILER "OMEGA"

**170.M.AM.20** zincata / galvanized

Destra=sinistra / right=left

#### MENSOLA "ALL.CO" e "MANTOVA" PER ARGANO "SYDNEY" -fori filettati- perno Ø 12mm "ALL.CO" / "MANTOVA" BRACKET FOR "SYDNEY" WINCH - threaded holes-pivot Ø 12 mm

**170.M.AP.20** Destra - zincata / Right - galvanized

**170.M.AP.20SX** Sinistra - zincata / Left - galvanized

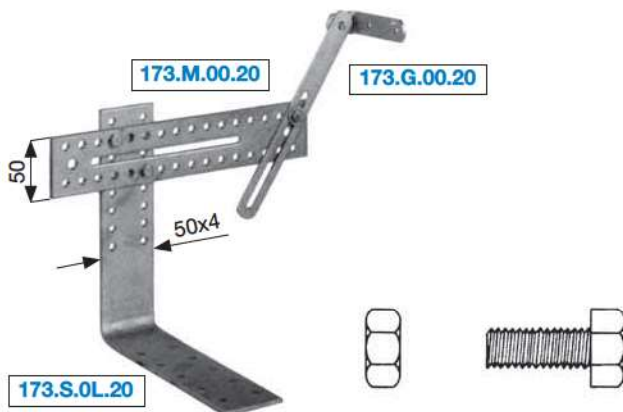


#### SUPPORTO A TELAIO TIPO "MODENA"- zincato Con testina estraibile TN per perno Ø 10 mm LATERAL FRAME SUPPORT TYPE "MODENA" With ball bearing "TN" for pivot Ø10 mm

**172.S.00.20** Zincato - diritto / Galvanized - straight

**172.S.08.20** zincato - piega "B" 80 mm  
galvanized - bend "B" 80 mm

**172.S.10.20** zincato - piega "B" 100 mm  
galvanized - bend "B" 100 mm



#### SQUADRA DI FISSAGGIO FIXING ANGLE SUPPORT

**173.G.00.20** Gamba di forza - zincata  
Articulated angle brace - Galvanized

**173.M.00.20** Mensola per supporto a L - zincata  
Bracket for L support - galvanized

**173.S.0L.20** Supporto telaio a L - zincato L  
Frame support - galvanized

#### VITE TE M6X15 CON DADO

Hexagonal head screw (M6X15) with nut

**173.K.VD.20** Zincata / galvanized

## SUPPORTI PER BIFORE

### MIDDLE SUPPORTS FOR MULLIONED WINDOWS



#### SUPPORTO A MURO PER BIFORA MIDDLE SUPPORT FOR MULLIONED WINDOW

**175.S.RM.10** Con testine a sfere fisse e rinforzo chiodato  
With fixed ball bearings and wall brace



## SUPPORTI PER BIFORE

### MIDDLE SUPPORTS FOR MULLIONED WINDOWS



#### SUPPORTO A MURO PER BIFORA

MIDDLE SUPPORT FOR MULLIONED WINDOW

175.S.RG.10

Con testine a sfere tipo "G" estraibili  
with removable ball bearings type "G"

#### SUPPORTO A TELAIO TIPO "TORINO"

PER BIFORA REGISTRABILE-con zanca a murare  
ADJUSTABLE FRAME SUPPORT TYPE "TORINO" FOR  
MULLIONED WINDOW - with wall-fixing brace

178.S.TO.20

Kit completo - zincato - destro  
Complete kit - galvanized - right

178.S.TO.20SX

Kit completo - zincato - sinistro  
Complete kit - galvanized - left

#### SUPPORTO A TELAIO REGISTRABILE

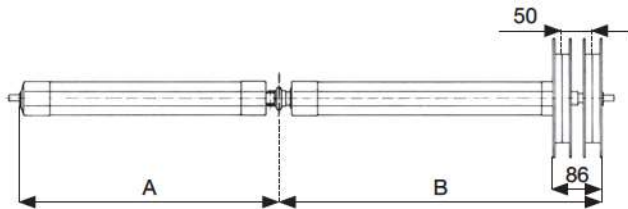
PER BIFORA con zanca a murare  
ADJUSTABLE SWIVEL FRAME SUPPORT FOR  
MULLIONED WINDOW - with wall-fixing brace

177.S.RG.20

Kit completo - zincato  
Complete kit - galvanized

## RULLI COASSIALI E COMPONENTI

### COAXIAL ROLLERS AND COMPONENTS



#### RULLO COASSIALE A 2 PULEGGE

COAXIAL ROLLER WITH 2 PULLEYS

180.C.P3.20

A + B fino a 3 m / A+B max length 3 m

180.C.P5.20

A + B da 3 a 5 m / A+B max length 5 m



180.S.MU.20

Supporto a murare  
per coassiale  
Wall support for  
coaxial roller



180.S.RG.20

Supporto registrabile  
a telaio per coassiale  
- con zanca a murare  
Adjustable swivel frame  
support for coaxial roller  
with wall-fixing brace

180.K.PP.20

KIT COMPLETO COMPONENTI COASSIALE (A+B+C+D+E+F+G - esclusi supporti)

COMPLETE KIT COMPONENTS FOR COAXIAL ROLLER - no supports



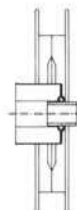
(A)  
180.P.RP.00

Perno Ø18 mm con  
ripresa 12 mm  
Pivot Ø18 mm with  
reduced 12 mm



(B)  
180.P.IN.00

Perno Ø18 mm per  
collegamento 2° rullo  
Pivot Ø18 mm for  
connection with 2nd  
roller



(C)  
180.P.IN.20

Puleggia interna Ø 220  
mm con cuscinetto a  
sfere incorporato  
Inner pulley Ø 220 mm  
with ball bearing



(D)  
180.P.ES.20

Puleggia esterna  
fissa Ø 220 mm  
Outer fixed pulley  
Ø 220 mm



(E)  
180.C.ES.20

Calotta  
esterna fissa  
Outer fixed  
cap



(F)  
180.C.18.20

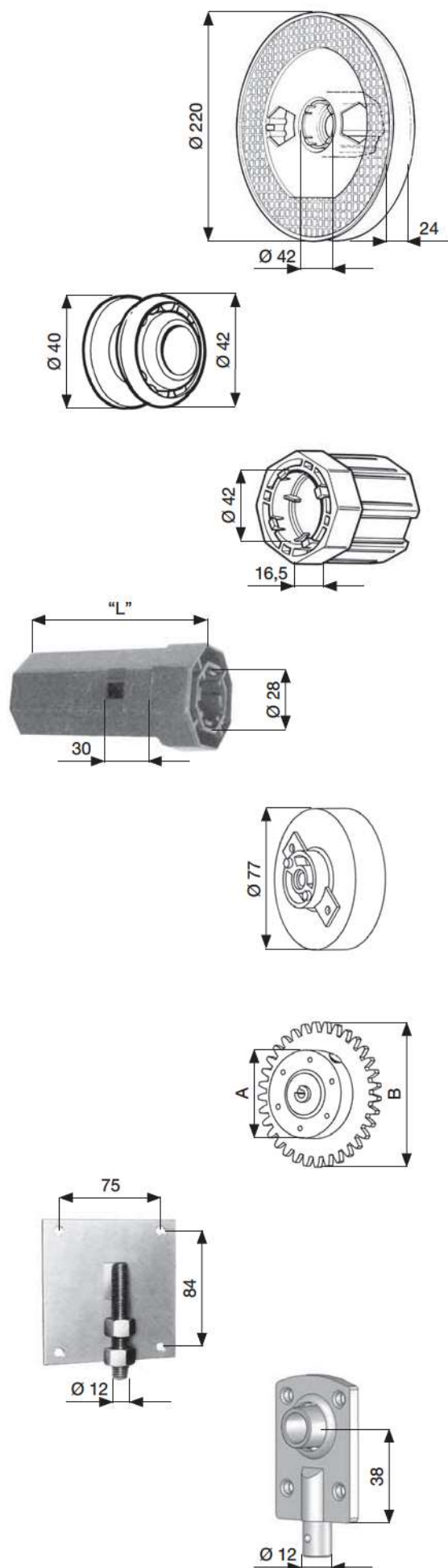
cuscinetto a  
sfere foro Ø  
18 mm  
ball bearing  
hole Ø 18 mm



(G)  
180.C.IN.20

Calotta interna  
con cuscinetto a  
sfere incorporato  
Inner cap with  
ball bearing

## RICAMBI E ACCESSORI SPECIALI SPARE PARTS AND SPECIAL ACCESSORIES



### PULEGGIA "COMPACT ALFA" (in plastica) PLASTIC PULLEY "COMPACT ALFA"

<b>112.P.22.90</b>	Ø 220 mm	Per rullo Ø 60 mm for roller Ø 60 mm
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### 145.C.FL.20 CUSCINETTO "G" Ø 42 con flangia BALL BEARING Ø 42 with flange

### 112.C.CB.90 CALOTTA PLASTICA per cuscinetto Ø 42 mm PLASTIC CAP for ball bearing Ø 42 mm

<b>112.C.CB.90</b>	Per rullo Ø 60 mm / for roller Ø 60 mm
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### 250.C.60.90 CALOTTA PLASTICA per cuscinetto Ø 28 mm PLASTIC CAP for ball bearing Ø 28 mm

<b>250.C.60.90</b>	Per rullo Ø 60 mm / "L" = 120 mm for roller Ø 60 mm
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<b>250.M.00.90</b>	Per rullo Ø 40 mm / "L" = 100 mm for roller Ø 40 mm
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### 112.M.CA.20 MOLLA COMPACT "ALFA" SPRING COMPACT "ALFA"

### 112.M.OP.20 MOLLA COMPACT "BETA" SPRING COMPACT "BETA"

<b>112.M.OP.20</b>	Per puleggia - destra / A = 44 mm B = 84 mm For pulley - right
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<b>112.M.OP.20SX</b>	Per puleggia - sinistra / A = 44 mm B = 84 mm For pulley - left
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<b>112.M.0G.20</b>	Per riduttore - destra / A = 64 mm B = 104 mm For reduction pulley - right
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<b>112.M.0G.20SX</b>	Per riduttore - sinistra / A = 64 mm B = 104 mm For reduction pulley - left
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### 470.S.MU.20 PIASTRA multifunzione da avvitare su muratura screw-fixing support through wall bracket

### 132.T.12.20 TESTINA A SFERE "TN" BALL BEARING "TN"

<b>132.T.12.20</b>	Con codolo Ø 12 mm / With pivot Ø 12 mm
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## ACCESSORI PER RULLO ED AVVOLGIBILI IN LEGNO

### ACCESSORIES FOR WOODEN ROLLER AND ROLLING SHUTTERS



185.P.22.20

**PULEGGIA per rullo in legno Ø 220 mm - zincata**  
PULLEY for wooden roller - Ø 220 mm - galvanized



185.S.00.20

**STAFFA A FORCELLA per rullo in legno - zincata**  
FORK for wooden roller - galvanized



185.S.GM.20

**SQUADRETTA DI ARRESTO zincata - con gommino**  
ANGLE STOP - galvanized - with plastic stopper



185.G.TA.20

**GANCIO TERMINALE D'ATTACCO zincato**  
UPPER HOOK - galvanized



185.G.FS.20

**GANCIO FISSO di collegamento zincato - "A" = 42,2 mm**  
connecting FIXING HOOK - galvanized  
"A"=42,2 mm

185.G.FS.22

**GANCIO FISSO di collegamento zincato - "A" = 41,5 mm**  
connecting FIXING HOOK - galvanized  
"A"=41,5 mm



185.G.FD.20

**FIBBIA DI GANCIO DISTANZIABILE zincato**  
CONNECTING-SPACER HOOK - galvanized



185.G.MD.20

**MAGLIETTA DI GANCIO DISTANZIABILE - zincato**  
LINK FOR CONNECTING-SPACER HOOK galvanized



185.G.PB.20

**PIASTRINA PER BALZA - zincata**  
LOWER HOOK galvanized



185.C.00.22

**CATENACCIO DI SICUREZZA tropicalizzato - per tapparella in legno**  
LOCKING BOLT- yellow galvanized-for wooden rolling shutter

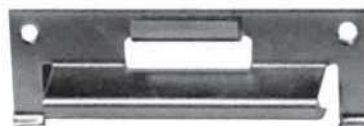
## GANCI PER RULLO METALLICO E AVVOLGIBILI IN PLASTICA

HOOKS FOR METAL ROLLER AND PLASTIC ROLLING SHUTTERS



186.G.2A.20

**GANCIO TERMINALE DI ATTACCO a 2 asole - zincato**  
UPPER CONNECTING HOOK with 2 buttonholes - galvanized



186.G.AA.20

**GANCIO TERMINALE DI ATTACCO - asola antitaglio - zincato**  
UPPER CONNECTING HOOK with buttonhole cut resistant, - galvanized



187.G.3A.20

**GANCIO DI ATTACCO AL RULLO zincato**  
CONNECTING HOOK FOR METAL ROLLER - galvanized



187.G.FL.20

**GANCIO PER RULLO A FILO zincato**  
HOOK FOR METAL ROLLER - galvanized



188.G.00.20

**GRAPPA DI FERMO CINTINO zincata**  
BELT FASTENER - galvanized

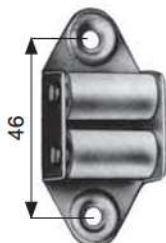


190.C.AG.00

**CINTINO CON ASOLA per aggancio telo**  
TAPE WITH BUTTONHOLE for hooking

## GUIDACINGHIA

STRAP GUIDES



### GUIDACINGHIA con rullini nylon

STRAP GUIDE with nylon rollers

195.G.VP.20

zincato / white galvanized

195.G.VP.22

ottonato / brass covered

195.G.VP.37

brunito / dark brown

### GUIDACINGHIA con rullini ferro

STRAP GUIDE with iron rollers

195.G.VF.20

zincato / white galvanized

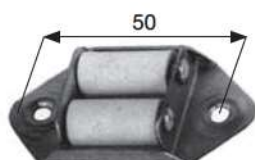
195.G.VF.22

ottonato / brass covered



195.S.OV.20

**SUPPORTO A MURARE per guidacinghia**  
WALL FIXING SUPPORT for strap-guide



### GUIDACINGHIA TRASVERSALE con rullini nylon

TRANSVERSAL STRAP GUIDE with nylon rollers

196.G.TP.20

zincato / white galvanized

196.G.TP.22

ottonato / brass covered

### GUIDACINGHIA TRASVERSALE con rullini ferro

TRANSVERSAL STRAP GUIDE with iron rollers

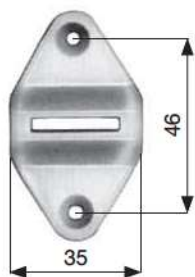
196.G.RT.20

zincato / white galvanized



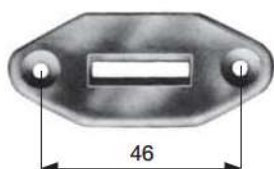
# GUIDACINGHIA

## STRAP GUIDES



**197.G.VP.XX**

**GUIDACINGHIA NYLON piano**  
*NYLON STRAP GUIDE - flat*



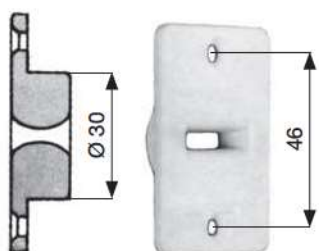
**GUIDACINGHIA NYLON TRASVERSALE**  
*TRANSVERSAL NYLON STRAP GUIDE*

**198.G.TP.XX**

*piano / flat*

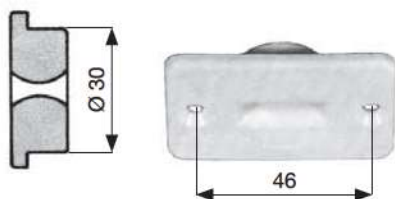
**198.G.NV.XX**

*Con invito rettangolare interno*  
*With rectangular lip*



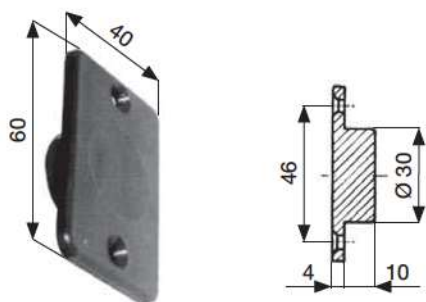
**199.G.VI.XX**

**GUIDACINGHIA NYLON ad incastro Ø 30 mm**  
*NYLON STRAP GUIDE joint Ø 30 mm*



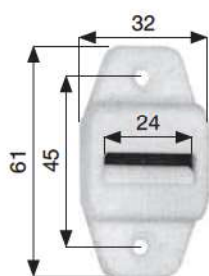
**200.G.TI.XX**

**GUIDACINGHIA NYLON TRASVERSALE**  
**ad incastro Ø 30 mm**  
*NYLON STRAP GUIDE joint Ø 30 mm*



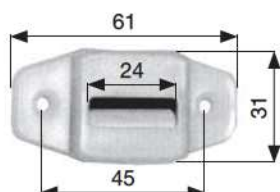
**200.T.PG.XX**

**TAPPO NYLON per foro guidacinghia**  
*NYLON PLUG for strap guide hole*



**204.G.SP.XX**

**GUIDACINGHIA NYLON Con spazzolino**  
*NYLON STRAP GUIDE with brush*

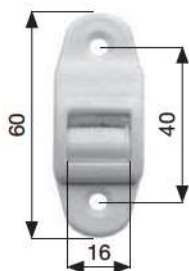


**204.T.SP.XX**

**GUIDACINGHIA NYLON TRASVERSALE**  
**Con spazzolino**  
*TRANSVERSAL NYLON STRAP GUIDE with brush*

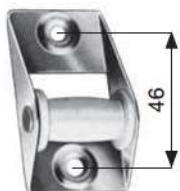
**n.b.:** XX = specificare il colore dei guidacinghia nylon (*specify strap guide colour*)  
 93 = bianco / *white* - 94 = marrone / *brown* - 95 = nero / *black*

## GUIDACINGHIA STRAP GUIDES

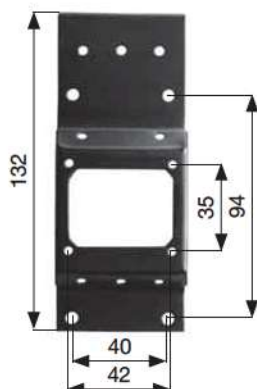


**GUIDACINGHIA NYLON CON SPAZZOLINO per cintino 14 mm**  
*NYLON STRAP GUIDE WITH BRUSH -for strap*

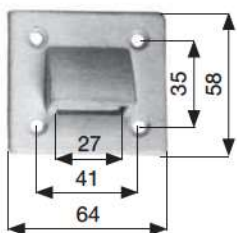
<b>250.G.SP.93</b>	bianco / white
<b>250.G.SP.94</b>	marrone / brown
<b>250.G.SP.95</b>	nero / black



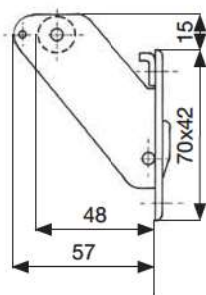
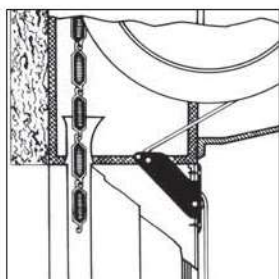
**201.G.1V.20** **GUIDACINGHIA VERTICALE AD UN RULLINO - zincato**  
*FRONTAL VERTICAL STRAPGUIDE WITH ONE ROLLER-galvanized*



**204.S.00.20** **SUPPORTO per guidacinghia a cassonetto - zincato**  
*SUPPORT for box strap guide- galvanized*



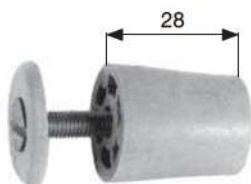
**204.G.00.90** **GUIDACINGHIA NYLON per cassonetto prefabbricato - bianco**  
*BOX NYLON FRONTAL STRAP GUIDE - white*



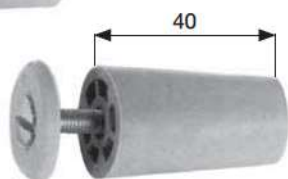
**GUIDACINGHIA NYLON FRONTALE per montante monoblocco**  
*NYLON FRONTAL STRAP GUIDE*

<b>202.G.MN.93</b>	bianco / white
<b>202.G.MN.94</b>	marrone / brown
<b>202.G.MN.95</b>	nero / black

## TAPPI D'ARRESTO PLASTIC STOPPER



**205.T.28.XX** **TAPPO D'ARRESTO 28 mm Con vite e rondella**  
*PLASTIC STOPPER 28 mm*



**205.T.40.XX** **TAPPO D'ARRESTO 40 mm Con vite e rondella**  
*PLASTIC STOPPER 40 mm*

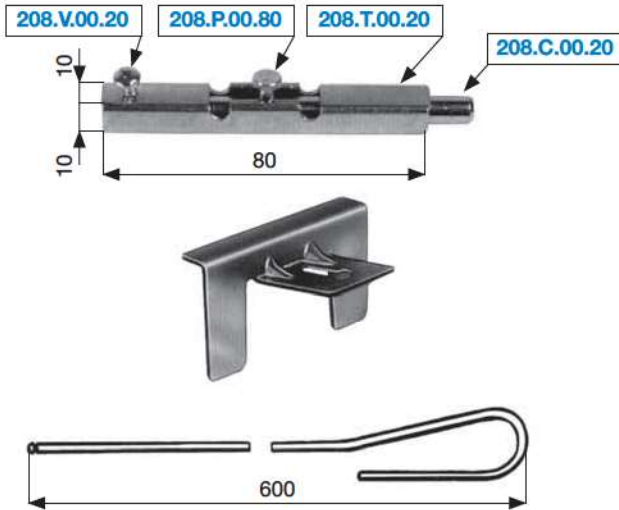
**n.b.:** XX = specificare il colore dei tappi (specify colour):

91 = avorio / ivory - 92 = grigio / grey - 93 = bianco / white - 94 = douglas / wood colour  
 95 = nero / black - 96 = testa di moro / dark brown - 97 = verde / green - 99 = ocre / yellow ochre



# CATENACCIOLI DI SICUREZZA

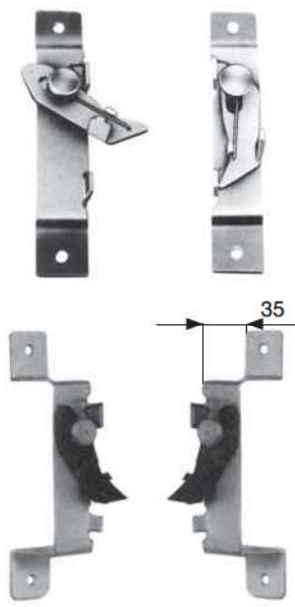
## SECURITY LOCKING BOLTS



**208.K.00.20** CATENACCIOLO DI SICUREZZA (kit) per tapparella in plastica  
LOCKING BOLT for plastic rolling shutter

**209.S.00.20** SQUADRETTA ANTIFURTO - zincata  
LOCKING STOP ANTITHEFT - galvanized

**209.A.00.20** ASTINA PER SQUADRETTA ANTIFURTO - zincata  
HANDLE FOR LOCKING STOP - galvanized

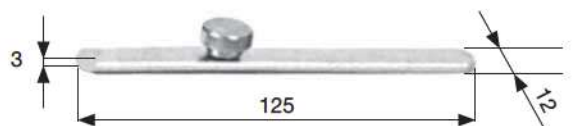


**CATENACCIOLI LATERALI A SCATTO (1 paio)**  
LATERAL SECURITY LOCKING BOLTS (1 pair)

<b>210.C.LS.20</b>	Zincati / galvanized
<b>210.C.LS.37</b>	Bruniti / burnished

**CATENACCIOLI LATERALI A SCATTO PER TELAI A SPORGERE (1 paio)**  
LATERAL SECURITY LOCKING BOLTS for projection frame (1 pair)

<b>212.C.SP.20</b>	Zincati / galvanized
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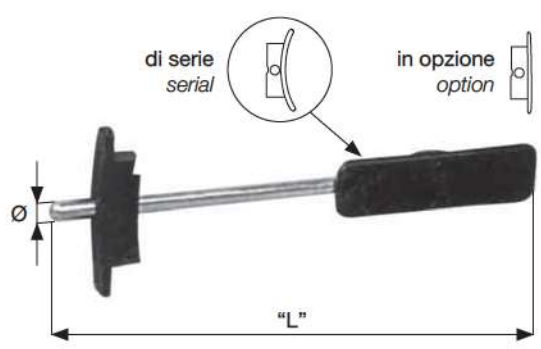


**214.C.12.20** CATENACCIOLO CON POMELLO PER BALZA ALLUMINIO - zincato  
LOCKING BOLT WITH POMMEL FOR ALUMINIUM END SLAT - galvanized



**CATENACCIOLO PER BALZA ALLUMINIO**  
LOCKING BOLT FOR ALUMINIUM END SLAT

<b>214.C.AB.20</b>	L=150 mm	<b>214.C.B1.20</b>	L=1000 mm
<b>214.C.B3.20</b>	L=350 mm	<b>214.C.B2.20</b>	L=1200 mm
<b>214.C.B6.20</b>	L=600 mm	<b>214.C.B5.20</b>	L=1600 mm
<b>214.C.B8.20</b>	L=800 mm		

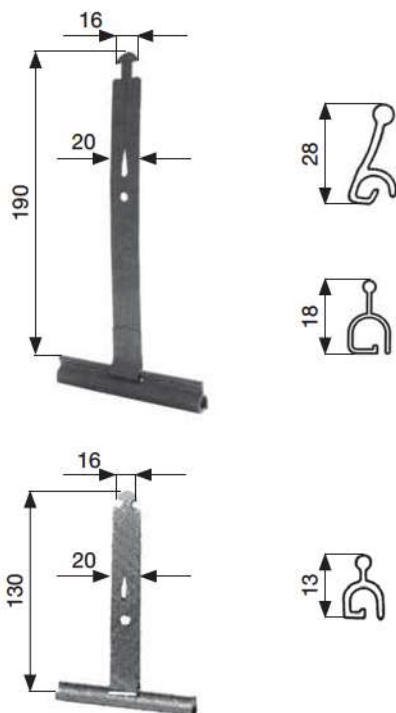


**CATENACCIOLO PER STECCA ALLUMINIO**  
LOCKING BOLT FOR ALUMINIUM SLAT

<b>215.C.A6.20</b>	Ø 6-L= 170 mm	<b>215.C.AS.20</b>	Ø 7-L= 170 mm
<b>215.C.S6.20</b>	Ø 6-L= 600 mm	<b>215.C.S7.20</b>	Ø 7-L= 600 mm
<b>215.C.S3.20</b>	Ø 6-L= 800 mm	<b>215.C.S8.20</b>	Ø 7-L= 800 mm
<b>215.C.S4.20</b>	Ø 6-L= 1000 mm	<b>215.C.S9.20</b>	Ø 7-L= 1000 mm
<b>215.C.SL.20</b>	Ø 6-L=+1000 mm	<b>215.C.7L.20</b>	Ø 7-L=+1000 mm

## MOLLE DI SICUREZZA

### SAFETY SPRINGS



**216.M.G3.30**

**MOLLA DI SICUREZZA per stecca 14 mm**  
SAFETY SPRING for slat 14 mm

**216.M.J3.30**

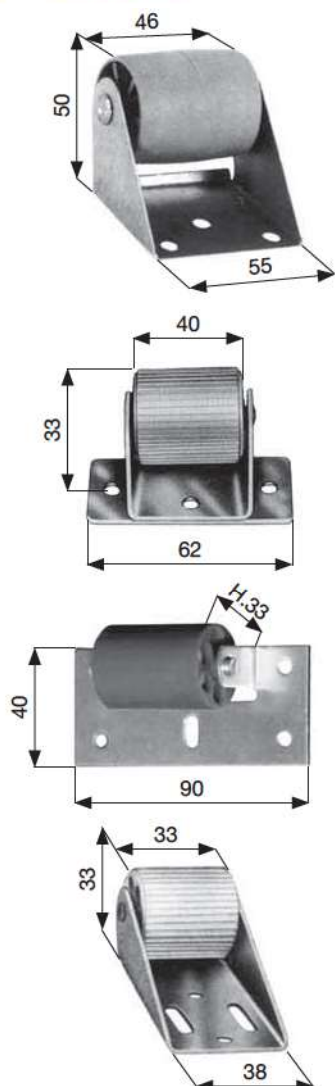
**MOLLA DI SICUREZZA per stecca 14 mm**  
SAFETY SPRING for slat 14 mm

**216.M.P0.30**

**MOLLA DI SICUREZZA per stecca 9 mm**  
SAFETY SPRING for slat 9 mm

## RULLI DI RINVIO

### GLIDE ROLLERS



**220.R.50.20**

**RULLINO DI RINVIO tipo MEDIO**  
Medium GLIDE ROLLER

**220.R.F3.20**

**RULLINO DI RINVIO tipo PICCOLO**  
Small GLIDE ROLLER

**220.R.B3.20**

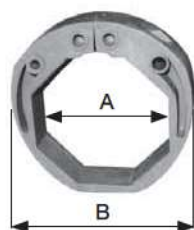
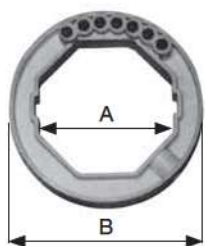
**RULLINO DI RINVIO tipo BLS (h.33)**  
GLIDE ROLLER

**220.R.R3.20**

**RULLINO DI RINVIO tipo PICCOLO REGISTRABILE**  
Small ADJUSTABLE GLIDE ROLLER



## DISPOSITIVI DI SICUREZZA SECURITY DEVICES



### ADATTATORE PER "EUROBLOCK" ADAPTER RING "EUROBLOCK"

<b>475.A.00.90</b>	Per rullo Ø 60 mm (A) for roller Ø 60 mm	B = 88 mm
<b>475.A.40.90</b>	Per rullo Ø 40 mm (A) for roller Ø 40 mm	B = 69 mm
<b>475.A.70.90</b>	Per rullo Ø 70 mm (A) for roller Ø 70 mm	B = 104 mm

### "EUROBLOCK"

<b>475.S.3E.90</b>	3 elementi/ 3 links	Per stecca 14 mm For slat 14 mm
<b>475.S.4E.90</b>	4 elementi/ 4 links	Per stecca 14 mm For slat 14 mm
<b>475.S.M2.90</b>	2 elementi/ 2 links	Per stecca 9 mm For slat 9 mm
<b>475.S.M3.90</b>	3 elementi/ 3 links	Per stecca 9 mm For slat 9 mm

### ADATTATORE PER "SUPERBLOCK" ADAPTER RING "SUPERBLOCK"

<b>477.A.S6.90</b>	Per rullo Ø 60 mm (A) for roller Ø 60 mm	B = 80 mm
<b>477.A.S7.90</b>	Per rullo Ø 70 mm (A) for roller Ø 70 mm	B = 90 mm

### "SUPERBLOCK"

<b>477.S.N2.90</b>	2 elementi/ 2 links	Per stecca 14 mm For slat 14 mm
<b>477.S.N3.90</b>	3 elementi/ 3 links	Per stecca 14 mm For slat 14 mm

### "UNIBLOCK" Molle di aggancio rapido sul rullo – profilo intercambiabile di aggancio su stecca da 14 mm e 9 mm Fast coupling on the roller - dual hook for slat 14 mm and 9 mm

<b>479.U.20.90</b>	2 elementi/ 2 links
<b>479.U.30.90</b>	3 elementi/ 3 links

## TELAI A SPORGERE A LEVA LATERALE

### PROJECTON FRAMES – LATERAL LEVER

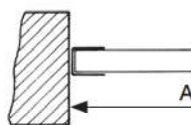


#### TELAIO A SPORGERE A LEVA LATERALE PROJECTON FRAME - LATERAL LEVER

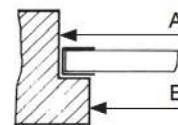
<b>260.T.LL.20</b>	Zincato / <i>galvanized</i>	Bracci LL con attacco normale
<b>260.T.LS.20</b>	Zincato / <i>galvanized</i>	Bracci LL con attacco di sicurezza
<b>260.T.LX.20</b>	Zincato / <i>galvanized</i>	Bracci LL con attacco di sicurezza e pomello inox
<b>260.T.ST.20</b>	Zincato / <i>galvanized</i>	Bracci LL con attacco stretto a scomparsa
<b>260.T.SX.20</b>	Zincato / <i>galvanized</i>	Bracci LL con attacco stretto e pomello inox
<b>260.T.L1.30</b>	INOX / <i>stainless steel</i>	Bracci LL inox con attacco di sicurezza - Base: profilo inox ad U
<b>260.T.L2.30</b>	INOX / <i>stainless steel</i>	Bracci LL inox con attacco di sicurezza - Base: tubolare inox

Quando si ordinano gli apparecchi a sporgere specificare:

- 1) la misura luce oppure effettiva del telaio
- 2) misura dell'estensione del telaio: 40 cm - 50 cm - 60 cm
- 3) tipo di guida ad U: 26x19x26x0,8 con bordino rovesciato / 22x19x22x1 / 25x19x25x1 / 32x19x32x1
- 4) tipo di telaio: normale oppure tipo ROMA (in tal caso precisare le misure A e B: vedere disegno sotto)



Telaio normale



Telaio tipo ROMA

## TELAI A SPORGERE A LEVA LATERALE IN ALLUMINIO

### ALUMINIUM PROJECTON FRAMES – LATERAL LEVER



#### TELAIO A SPORGERE IN ALLUMINIO A LEVA LATERALE ALUMINIUM PROJECTON FRAME - LATERAL LEVER

CODICE	GUIDA ALL. 30X25X30	COMPONENTI
<b>260.T.LL.37</b>	Anodizz. ARGENTO / <i>silver</i>	Cerniere e squadrette a scatola: inox satinato Bracci LL con sicurezza, con pomello inox: zincati
<b>260.T.LL.V1</b>	Anodizz. ARGENTO / <i>silver</i>	Cerniere, squadrette a scatola, bracci LL con sicurezza, con pomello inox: verniciati col. argento
<b>260.T.LL.V2</b>	Anodizz. BRONZO / <i>bronze</i>	Cerniere, squadrette a scatola, bracci LL con sicurezza, con pomello inox: verniciati col. bronzo
<b>260.T.LL.V4</b>	Vernic. MARRONE / <i>brown</i>	Cerniere, squadrette a scatola, bracci LL con sicurezza, con pomello inox: verniciati col. marrone
<b>260.T.LL.V6</b>	Vernic. AVORIO / <i>ivory</i>	Cerniere, squadrette a scatola, bracci LL con sicurezza, con pomello inox: verniciati col. avorio
<b>260.T.LL.V7</b>	Vernic. BIANCO / <i>white</i>	Cerniere, squadrette a scatola, bracci LL con sicurezza, con pomello inox: verniciati col. bianco
<b>260.T.LL.V8</b>	elettrocolore NERO / <i>black</i>	Cerniere, squadrette a scatola, bracci LL con sicurezza, con pomello inox: verniciati col. nero

Guida e base tubolare sono in alluminio 30x25x30 – su richiesta i telai a sporgere possono essere forniti con guida e base alluminio 30x19x30, per stecca da 9 mm (senza supplemento di prezzo).



# TELAIO A SPORGERE A LEVA CENTRALE

## PROJECTON FRAMES – CENTRAL LEVER

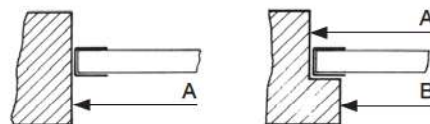


TELAIO A SPORGERE A LEVA CENTRALE PROJECTON FRAME CENTRAL LEVER		
262.T.L2.20	Zincato / galvanized	Con guida zincata bordata 26x19x26
262.T.C2.20	Zincato / galvanized	Con guida zincata 22x19x22x1
262.T.L3.20	Zincato / galvanized	Con guida zincata 32x19x32x1
262.T.C2.30	Inox / stainless steel	Con guida inox 22x19x22x0,9
262.T.C3.30	Inox / stainless steel	Con guida inox 32x19x32x0,9



Quando si ordinano gli apparecchi a sporgere specificare:

- 1) la misura luce oppure effettiva del telaio
- 2) misura dell'estensione del telaio: 50 cm - 60 cm
- 3) tipo di telaio: normale oppure tipo ROMA (in tal caso precisare le misure A e B: vedere disegno sotto)



Telaio normale

Telaio tipo ROMA

### TELAIO A SPORGERE A LEVA CENTRALE – guida e tubolare di base in alluminio PROJECTON FRAME - CENTRAL LEVER aluminium guide and aluminium tubular profile

CODICE	guida e tubolare: alluminio 30x25x30	Cerniera 27 mm Squadretta a scatola 30x25x30	Bracci LC, maniglione, occhioli, tondino Ø 14
262.T.LC.V1	Anodizz. ARGENTO / silver	Inox satinato / Satin stainless steel	Zincati / galvanized
262.T.LC.V2	Anodizz. BRONZO / bronze	Verniciati bronzo / Bronze painted	Zincati tropicale / tropical galvanized
262.T.LC.V4	Vernic. MARRONE / brown	Verniciati marrone / Brown painted	Zincati tropicale / tropical galvanized
262.T.LC.V6	Vernic. AVORIO / ivory	Verniciati avorio / Ivory painted	Zincati tropicale / tropical galvanized
262.T.LC.V7	Vernic. BIANCO / white	Verniciati bianco / White painted	Zincati / galvanized
262.T.LC.V8	Elettroclore NERO / black	Verniciati nero / Black painted	Zincati nero / black galvanized
262.T.LX.V1	Anodizz. ARGENTO / silver	Inox satinato / Satin stainless steel	INOX / stainless steel
262.T.LX.V2	Anodizz. BRONZO / bronze	Verniciati bronzo / Bronze painted	INOX / stainless steel
262.T.LX.V4	Vernic. MARRONE / brown	Verniciati marrone / Brown painted	INOX / stainless steel
262.T.LX.V6	Vernic. AVORIO / ivory	Verniciati avorio / Ivory painted	INOX / stainless steel
262.T.LX.V7	Vernic. BIANCO / white	Verniciati bianco / White painted	INOX / stainless steel
262.T.LX.V8	Elettroclore NERO / black	Verniciati nero / Black painted	INOX / stainless steel

# BRACCI PER TELAI A SPORGERE A LEVA LATERALE

## ARMS FOR PROJECTOR FRAMES – LATERAL LEVER



Vista attacco di sicurezza in posizione di chiusura. Impedisce l'apertura del telaio a sporgere dall'esterno.



BRACCI A LEVA LATERALE (1 paio) ATTACCO NORMALE ARMS for projector frame LATERAL LEVER (1 pair) LARGE FIXING PLATE		
<b>264.B.50.20</b>	Estensione 50 cm	Zincati / galvanized
<b>264.B.60.20</b>	Estensione 60 cm	Zincati / galvanized

BRACCI A LEVA LATERALE (1 paio) ATTACCO STRETTO A SCOMPARSA ARMS for projector frame LATERAL LEVER (1 pair) NARROW FIXING PLATE			
<b>264.B.5N.20</b>	Estens.50 cm	Zinc. / galvanized	Pom. zinc. / Galvanized locking
<b>264.B.6N.20</b>	Estens. 60 cm	Zinc. / galvanized	Pom. zinc. / Galvanized locking
<b>264.B.5T.20</b>	Estens. 50 cm	Zinc. / galvanized	Pom. inox / Inox locking
<b>264.B.6T.20</b>	Estens. 60 cm	Zinc. / galvanized	Pom. inox / Inox locking
<b>264.B.5T.V*</b>	Estens. 50 cm	Vernic. / painted	Pom. inox / Inox locking
<b>264.B.6T.V*</b>	Estens. 60 cm	Vernic. / painted	Pom. Inox / Inox locking

Nb: per i bracci verniciati indicare il codice **V\*** relativo al colore richiesto(vedere tabella colori)

BRACCI A LEVA LATERALE (1 paio) ATTACCO DI SICUREZZA ARMS for projector frame LATERAL LEVER (1 pair) SAFETY DEVICE			
<b>264.B.4S.20**</b>	Estens. 40 cm	Zinc. / galvanized	Pom.zinc. / Galvanized locking
<b>264.B.5S.20**</b>	Estens. 50 cm	Zinc. / galvanized	Pom.zinc. / Galvanized locking
<b>264.B.6S.20</b>	Estens. 60 cm	Zinc. / galvanized	Pom.zinc. / Galvanized locking
<b>264.B.X4.20**</b>	Estens. 40 cm	Zinc. / galvanized	Pom. Inox / Inox locking
<b>264.B.X5.20**</b>	Estens. 50 cm	Zinc. / galvanized	Pom. Inox / Inox locking
<b>264.B.X6.20**</b>	Estens. 60 cm	Zinc. / galvanized	Pom. Inox / Inox locking
<b>264.B.40.30</b>	Estens. 40 cm	Inox / stainless steel	Pom. Inox / Inox locking
<b>264.B.50.30</b>	Estens. 50 cm	Inox / stainless steel	Pom. Inox / Inox locking
<b>264.B.60.30</b>	Estens. 60 cm	Inox / stainless steel	Pom. Inox / Inox locking
<b>264.B.X5.V*</b>	Estens. 50 cm	Vernic. / painted	Pom. Inox / Inox locking
<b>264.B.X6.V*</b>	Estens. 60 cm	Vernic. / painted	Pom. Inox / Inox locking

Nb: gli articoli contrassegnati **20\*\*** possono essere richiesti:  
- zincati "tropicale" / yellow galvanized = cod.finale **22**  
- zincati nero / black galvanized = cod.finale **28**

Nb: per i bracci verniciati indicare il codice **V\*** relativo al colore richiesto (vedere tabella colori)

CODICI COLORI PER BRACCI VERNICIATI		
<b>V1</b> = Verniciati argento silver painted	<b>V2</b> = Verniciati bronzo bronze painted	<b>V4</b> = Verniciati marrone brown painted
<b>V6</b> = Verniciati avorio Ivory painted	<b>V7</b> = Verniciati bianco White painted	<b>V8</b> = Verniciati nero Black painted

BRACCI A LEVA LATERALE (1 paio) INZANCATI - ZINCATI ROUNDED ARMS for projector frame LATERAL LEVER (1 pair) – galvanized FOR WELDING WITH ROD			
<b>266.B.IC.20</b>	Estens. 50 cm	Attacco normale	Pom. zinc.
<b>266.B.CT.20</b>	Estens. 50 cm	Attacco stretto a scomparsa	Pom. zinc.
<b>266.B.CX.20</b>	Estens. 50 cm	Attacco stretto a scomparsa	Pom. inox
<b>266.B.SC.20</b>	Estens. 50 cm	Attacco di sicurezza	Pom. zinc.
<b>266.B.XC.20</b>	Estens. 50 cm	Attacco di sicurezza	Pom. inox
<b>266.B.IL.20</b>	Estens. 60 cm	Attacco normale	Pom. zinc.
<b>266.B.LT.20</b>	Estens. 60 cm	Attacco stretto a scomparsa	Pom. zinc.
<b>266.B.SL.20</b>	Estens. 60 cm	Attacco di sicurezza	Pom. zinc.
<b>266.B.XL.20</b>	Estens. 60 cm	Attacco di sicurezza	Pom. inox



## BRACCI PER TELAI A SPORGERE A LEVA CENTRALE

### ARMS FOR PROJECTOR FRAMES – CENTRAL LEVER



BRACCI A LEVA CENTRALE (1 paio) ARMS for projector frame CENTRAL LEVER (1 pair)			
268.B.40.20	Estens. 40 cm	Zincati / galvanized	
268.B.50.20**	Estens. 50 cm	Zincati / galvanized	
268.B.60.20**	Estens. 60 cm	Zincati / galvanized	
268.B.5R.20**	Estens. 50 cm	Zincati / galvanized	Tipo ROMA
268.B.6R.20**	Estens. 60 cm	Zincati / galvanized	Tipo ROMA
268.B.50.30	Estens. 50 cm	Inox / stainless steel	
268.B.60.30	Estens. 60 cm	Inox / stainless steel	
268.B.5R.30	Estens. 50 cm	Inox / stainless steel	Tipo ROMA
268.B.6R.30	Estens. 60 cm	Inox / stainless steel	Tipo ROMA
BRACCI A LEVA CENTRALE (1 paio) FISSAGGIO SU BASE TELAI ARMS for projector frame CENTRAL LEVER (1 pair) TO SCREW WITH TUBULAR BASE PROFILE			
268.B.AC.20**	Estens. 50 cm	Zincati/galvanized	
268.B.AL.20**	Estens. 60 cm	Zincati/galvanized	
<b>Nb:</b> gli articoli contrassegnati <b>20**</b> possono essere richiesti : - zincati "tropicale" / yellow galvanized = cod.finale <b>22</b> - zincati nero / black galvanized = cod.finale <b>28</b>			

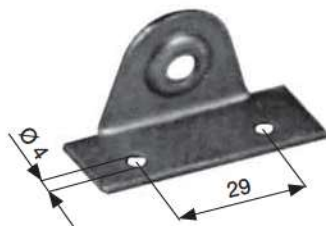
## COMPONENTI PER TELAI A SPORGERE

### COMPONENTS FOR PROJECTOR FRAMES

tipo "normale"



tipo "Roma"



ANGOLINI DI RACCORDO (1 paio) per bracci L.L. CONNECTING ANGLES (1 pair) for arms L.L.		
264.A.LS.20**	Zincati / galvanized	normali
264.A.LR.20**	Zincati / galvanized	Tipo ROMA
264.A.MN.20**	Zincati / galvanized	Montati su bracci L.L.
264.A.LP.20	Zincati / galvanized	punzonati
264.A.PM.20	Zincati / galvanized	Punzonati/montati su bracci L.L.
264.A.LS.30	Inox / stainless steel	normali
264.A.LR.30	Inox / stainless steel	Tipo ROMA
<b>Nb:</b> gli articoli contrassegnati <b>20**</b> possono essere richiesti : - zincati "tropicale" / yellow galvanized = cod.finale <b>22</b> - zincati nero / black galvanized = cod.finale <b>28</b>		

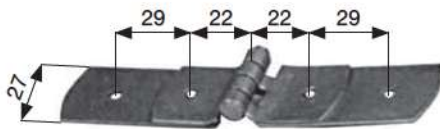
ANGOLINI DI RACCORDO (1 paio) CON FORI per bracci L.L. CONNECTING ANGLES (1 pair) WITH HOLES for arms L.L.		
264.A.LF.20**	Zincati / galvanized	normali
264.A.LF.V*	Verniciati / painted	normali
264.A.FM.20**	Zincati / galvanized	Montati su bracci L.L. zincati
264.A.FM.V*	Verniciati / painted	Montati su bracci L.L. verniciati
264.A.LF.30	Inox / stainless steel	normali
264.A.FM.30	Inox / stainless steel	Montati su bracci L.L. inox
<b>Nb:</b> gli articoli contrassegnati <b>20**</b> possono essere richiesti : - zincati "tropicale" / yellow galvanized = cod.finale <b>22</b> - zincati nero / black galvanized = cod.finale <b>28</b>		
<b>Nb:</b> per gli angolini verniciati indicare il codice <b>V*</b> relativo al colore richiesto (vedere tabella colori)		

CODICI COLORI PER ANGOLINI VERNICIATI		
<b>V1</b> = Verniciati argento silver painted	<b>V2</b> = Verniciati bronzo bronze painted	<b>V4</b> = Verniciati marrone brown painted
<b>V6</b> = Verniciati avorio Ivory painted	<b>V7</b> = Verniciati bianco White painted	<b>V8</b> = Verniciati nero Black painted



# COMPONENTI PER TELAI A SPORGERE

## COMPONENTS FOR PROJECTON FRAMES



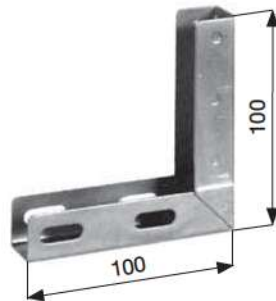
### CERNIERA PER TELAIO A SPORGERE

#### HINGE FOR PROJECTON FRAME

<b>270.C.2N.20</b>	20 mm	Zincata / galvanized	
<b>270.C.2P.20</b>	20 mm	Zincata / galvanized	punzonata with punching
<b>270.C.2N.30</b>	20 mm	Inox / stainless steel	
<b>271.C.3N.20</b>	27 mm	Zincata / galvanized	
<b>271.C.3P.20</b>	27 mm	Zincata / galvanized	punzonata with punching
<b>271.C.PO.20</b>	27 mm	Zincata / galvanized	perno ottone brass pivot
<b>271.C.PP.20</b>	27 mm	Zincata / galvanized	punzonata/perno ottone with punching / brass pivot
<b>271.C.FP.20</b>	27 mm	Zincata / galvanized	con fori / perno ottone with holes / brass pivot
<b>271.C.FP.22</b>	27 mm	Zinc. tropicale Yellow galvanized	con fori / perno ottone with holes / brass pivot
<b>271.C.FP.28</b>	27 mm	Zinc. nero Black galvanized	con fori / perno ottone with holes / brass pivot
<b>271.C.FP.V*</b>	27 mm	Verniciata / painted	con fori / perno ottone with holes / brass pivot
<b>271.C.3N.30</b>	27 mm	Inox / stainless steel	perno ottone / brass pivot
<b>271.C.3F.30</b>	27 mm	Inox / stainless steel	con fori / perno ottone with holes / brass pivot
<b>271.C.3F.V*</b>	27 mm	Inox verniciata stainless steel painted	con fori / perno ottone with holes / brass pivot

**Nb:** per le cerniere verniciate indicare il codice **V\*** relativo al colore richiesto:

<b>V1</b> = Verniciati argento silver painted	<b>V2</b> = Verniciati bronzo bronze painted	<b>V4</b> = Verniciati marrone brown painted
<b>V6</b> = Verniciati avorio Ivory painted	<b>V7</b> = Verniciati bianco White painted	<b>V8</b> = Verniciati nero Black painted



### SQUADRETTA A SCATOLA PER GUIDA A "U" (22x19x22 / 26x19x26)

#### "U" RIGHT ANGLE FOR "U" GUIDE (22x19x22 / 26x19x26)

<b>272.S.2N.20</b>	Zincata / galvanized	
<b>272.S.C2.20</b>	Zincata / galvanized	Con piastrina e fori filettati per LC With plate and threaded holes for L.C.
<b>272.S.2N.30</b>	Inox / stainless steel	

### SQUADRETTA A SCATOLA con ANGOLINO SALDATO Per telaio LL normale

#### "U" RIGHT ANGLE with WELDED CONNECTING ANGLE For standard LL projector frame

<b>272.S.AS.20</b>	Zincata / galvanized	DESTRA (nella foto) e SINISTRA RIGHT(as illustrated) and LEFT
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### SQUADRETTA A SCATOLA con ANGOLINO SALDATO Per telaio LL tipo ROMA

#### "U" RIGHT ANGLE with WELDED CONNECTING ANGLE For LL projector frame type "ROMA"

<b>272.S.AR.20</b>	Zincata / galvanized	DESTRA (nella foto) e SINISTRA RIGHT(as illustrated) and LEFT
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### SQUADRETTA A SCATOLA PER GUIDA A "U" (32x19x32)

#### "U" RIGHT ANGLE FOR "U" GUIDE (32x19x32)

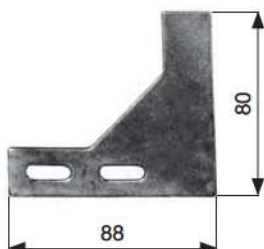
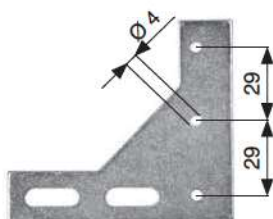
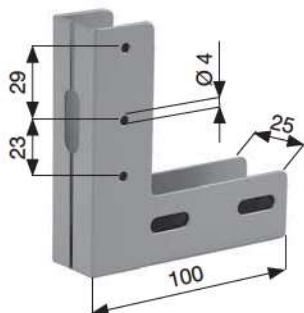
<b>272.S.3N.20</b>	Zincata / galvanized	
<b>272.S.3P.20</b>	Zincata / galvanized	punzonata / with punching
<b>272.S.C3.20</b>	Zincata / galvanized	con piastrina e fori filettati per LC With plate and threaded holes for L.C.
<b>272.S.3N.30</b>	Inox / stainless steel	
<b>272.S.3F.20</b>	Zincata / galvanized	con fori / with holes
<b>272.S.3F.30</b>	Inox / stainless steel	con fori / with holes





## COMPONENTI PER TELAI A SPORGERE

## COMPONENTS FOR PROJECTOR FRAMES



### SQUADRETTA A SCATOLA CON FORI per guida ALLUMINIO 30x25x30 "U" RIGHT-ANGLE WITH HOLES for ALUMINIUM 30x25x30 guide

273.S.00.20	Zincata / galvanized	273.S.00.22	Zinc. tropicale Yellow galvanized
273.S.00.28	Zinc. nero Black galvanized	273.S.00.30	Inox / stainless steel
273.S.00.V*	Verniciata / painted		

### ANGOLO DI COLLEGAMENTO PIANO – CON FORI CONNECTING FLAT RIGHT-ANGLE - WITH HOLES

274.A.0F.20	Zincato / galvanized	274.A.0F.22	Zinc. tropicale Yellow galvanized
274.A.0F.28	Zinc. nero Black galvanized	274.A.0F.30	Inox / stainless steel
274.A.0F.V*	Verniciato / painted	274.A.XF.V*	Inox verniciato stainless steel painted

Nb: per gli articoli verniciati indicare il codice V\* relativo al colore richiesto:

V1 = Verniciati argento silver painted	V2 = Verniciati bronzo bronze painted	V4 = Verniciati marrone brown painted
V6 = Verniciati avorio Ivory painted	V7 = Verniciati bianco White painted	V8 = Verniciati nero Black painted

### ANGOLO DI COLLEGAMENTO PIANO – DA SALDARE CONNECTING FLAT RIGHT-ANGLE – FOR WELDING

274.A.00.20	Zincato / galvanized	
274.A.0P.20	Zincato / galvanized	con punzonature (dx/sx) with punching (right/left)
274.A.00.30	Inox / stainless steel	

### MANIGLIONE STAMPATO PER TELAI A LEVA CENTRALE CENTRAL HANDLE FOR PROJECTOR FRAME CENTRAL LEVER

276.M.ST.20**	Zincato / galvanized	276.M.ST.30	Inox / stainless steel
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### LINGUETTA DI FERMO MANIGLIONE - DA SALDARE CENTRAL HANDLE CLIP – FOR WELDING

277.L.00.20**	Zincato / galvanized	277.L.00.30	Inox / stainless steel
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### LINGUETTA DI FERMO MANIGLIONE – CON FORI DI FISSAGGIO CENTRAL HANDLE CLIP – WITH FIXING HOLES

277.L.F0.20**	Zincato / galvanized	277.L.F0.30	Inox / stainless steel
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### OCCHIOLO A 1 FORO – FISSAGGIO VERTICALE EYELET WITH 1 HOLE – FOR VERTICAL FIXING

278.O.01.20**	Zincato / galvanized	278.O.01.30	Inox / stainless steel
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### OCCHIOLO A 1 FORO – PIEGA PER FISSAGGIO ORIZZONTALE EYELET WITH 1 HOLE – FOR HORIZONTAL FIXING BENTED

278.O.S1.20**	Zincato / galvanized	278.O.S1.30	Inox / stainless steel
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### OCCHIOLO A 2 FORI – FISSAGGIO VERTICALE EYELET WITH 2 HOLES – FOR VERTICAL FIXING

278.O.02.20**	Zincato / galvanized	278.O.02.30	Inox / stainless steel
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### OCCHIOLO A 2 FORI – PIEGA PER FISSAGGIO ORIZZONTALE EYELET WITH 2 HOLES – FOR HORIZONTAL FIXING BENTED

278.O.S2.20**	Zincato / galvanized	278.O.S2.30	Inox / stainless steel
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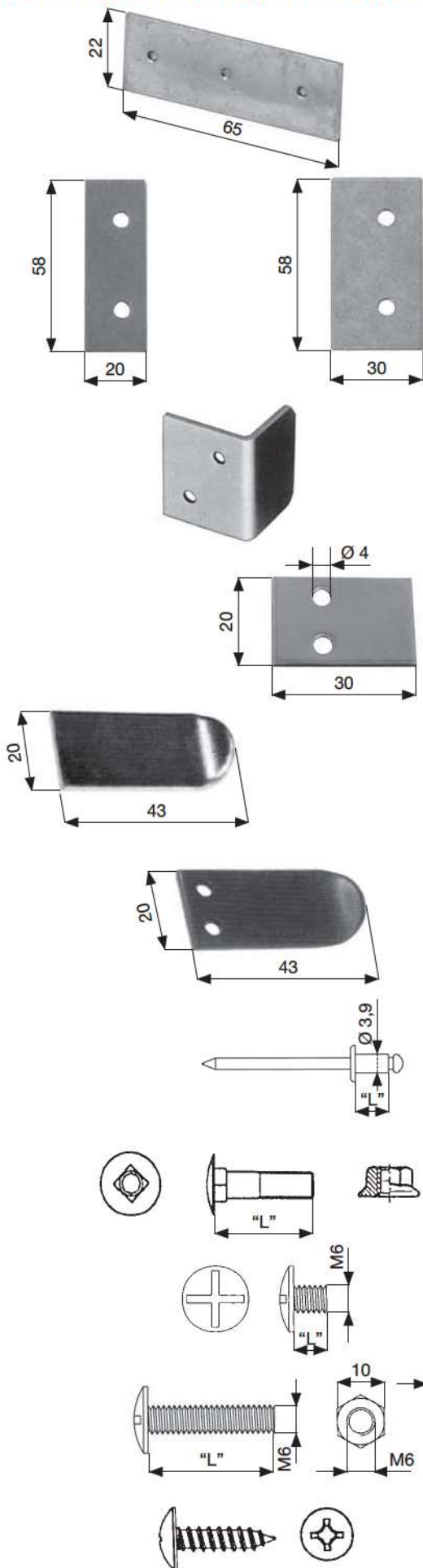
Nb: gli articoli contrassegnati 20\*\* possono essere richiesti:

- zincati "tropicale" / yellow galvanized = cod.finale 22
- zincati nero / black galvanized = cod.finale 28



# COMPONENTI PER TELAI A SPORGERE

## COMPONENTS FOR PROJECTON FRAMES



### PIASTRINA PUNZONATA per telaio a sporgere LC

PUNCHED PLATE for LC projection frame

280.P.2P.20	Zincata / galvanized	Con punzonature - per saldatura With punching - for welding
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### PIASTRINA FILETTATA per telaio a sporgere LC

THREADED PLATE for LC projection frame

280.P.2F.20	20 mm	Zincata / galvanized
280.P.2F.22	20 mm	Zincata tropicale / Yellow galvanized
280.P.2F.30	20 mm	Inox / stainless steel
280.P.3F.20	30 mm	Zincata / galvanized
280.P.3F.30	30 mm	Inox / stainless steel

### SQUADRETTINO DI BATTUTA per braccio a LC

STOP RIGHT-ANGLE for LC arm

282.S.00.20	Zincata / galvanized	282.S.00.22	Zinc. tropicale Yellow galvanized
282.S.00.28	Zinc. nero Black galvanized	282.S.00.30	Inox / stainless steel

### PIASTRINA CON FORI appoggio bracci LL e LC su guida alluminio

PLATE WITH HOLES for LL - LC arms - To save aluminium guide

284.P.AB.30	Inox / stainless steel
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### LINGUETTA DI FERMO TELO

CLIP STOP FOR PROJECTON FRAME

284.L.00.20	Zincata / galvanized
284.L.00.30	Inox / stainless steel

### LINGUETTA DI FERMO TELO - CON FORI

CLIP STOP FOR PROJECTON FRAME - WITH HOLES

284.L.F0.20	Zincata / galvanized	284.L.F0.22	Zinc. tropicale Yellow galvanized
284.L.F0.28	Zinc. nero Black galvanized	284.L.F0.30	Inox / stainless steel

### RIVETTO / RIVET

273.R.37.30	Inox / stainless steel	Ø 3,9 x L 7
273.R.38.30	Inox / stainless steel	Ø 3,9 x L 8

### VITE TTQST M6 con dado flangiato e zigrinato

SCREW WITH NUT

290.K.27.20	Zincato / galvanized	L = 27 mm
290.K.35.20	Zincato / galvanized	L = 35 mm

### VITE TMT M6 senza dado / SCREW (no NUT)

290.V.07.20	Zincata / galvanized	L = 7 mm
290.V.07.30	Inox / stainless steel	L = 7 mm

### VITE TMT M6 con dado / SCREW WITH NUT

290.K.27.30	Inox / stainless steel	L = 27 mm
290.K.32.30	Inox / stainless steel	L = 32 mm

### VITE AUTOFILETTANTE TMT PER BASE ALLUMINIO

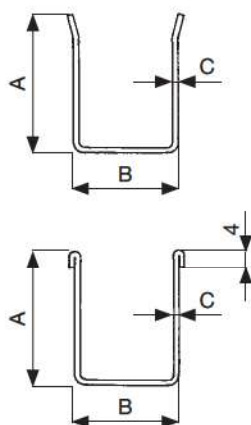
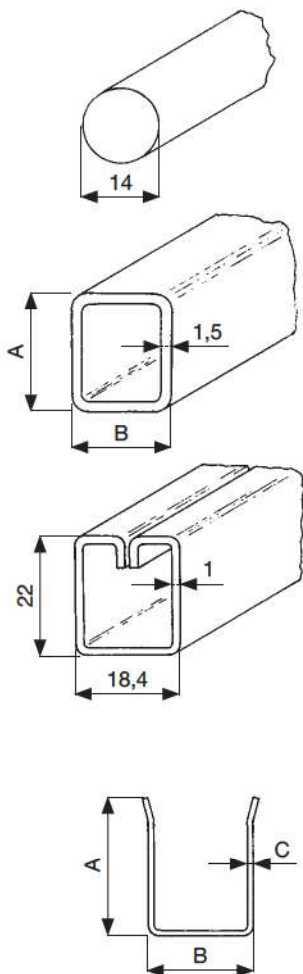
SELF THREADING SCREW FOR ALUMINIUM FRAME

290.K.FR.20	Zincata / galvanized	Ø 4,8 x 13
290.K.FR.30	Inox / stainless steel	Ø 4,8 x 13

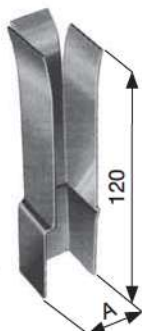


# TRAFILATI E PROFILATI

## IRON DRAWN-OUT AND IRON ROLLED SECTIONS



A = misura interna  
inner dimension



TONDINO TRAFILATO Ø 14 mm / ROD Ø 14 mm		
320.T.14.0M	barre da 6 mt	Zincato / galvanized
320.T.14.2M	barre da 6 mt	Zincato tropicale / Yellow galvanized
320.T.14.3M	barre da 6 mt	Inox / stainless steel

TUBOLARE RETTANGOLARE RECTANGULAR TUBULAR			
330.T.22.0M	22X18 mm	barre da 6 mt	Zincato / galvanized
330.T.32.0M	32X18 mm	barre da 6 mt	Zincato / galvanized
330.T.22.3M	22X19 mm	barre da 6 mt	Inox / stainless steel
330.T.32.3M	32X19 mm	barre da 6 mt	Inox / stainless steel

PROFILATO RETTANGOLARE per base di telai a sporgere RECTANGULAR TUBULAR PROFILE for projection frame			
332.P.19.0M	22X19 mm	barre da 6 mt	Zincato / galvanized

GUIDA AD "U" - ZINCATA / "U" GUIDE - GALVANIZED IRON				
A - B (mm)	C (mm)	In barre in bars	Su misura fori in fondo Cut to measure with bottom holes	Su misura fori laterali Cut to measure with lateral holes
22 X 18	8/10	340.G.08.2218	340.M.F8.2218	
22 X 19	8/10	340.G.08.2219	340.M.F8.2219	340.M.L8.2219
25 X 19	8/10	340.G.08.2519	340.M.F8.2519	
32 X 19	8/10	340.G.08.3219	340.M.F8.3219	
22 X 18	10/10	340.G.01.2218		
22 X 19	10/10	340.G.01.2219	340.M.F1.2219	
25 X 19	10/10	340.G.01.2519		
32 X 18	10/10	340.G.01.3218		
32 X 19	10/10	340.G.01.3219	340.M.F1.3219	

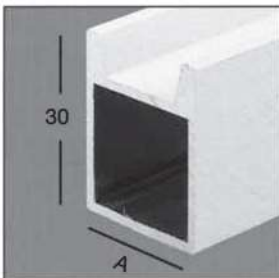
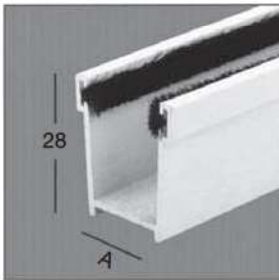
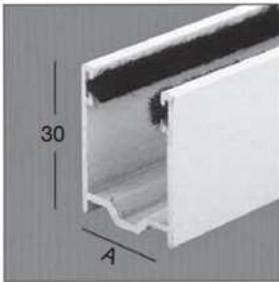
GUIDA AD "U" - INOX / "U" GUIDE - STAINLESS STEEL			
A - B (mm)	C (mm)	In barre in bars	Su misura fori in fondo Cut to measure with bottom holes
22 X 19	9/10	341.G.09.2219	341.M.F9.2219
32 X 19	9/10	341.G.09.3219	341.M.F9.3219

GUIDA AD "U" CON BORDINO - ZINCATA "U" GUIDE WITH TURNED EDGES - GALVANIZED IRON			
A - B (mm)	C (mm)	In barre in bars	Su misura fori in fondo Cut to measure with bottom holes
22 X 19	7/10	342.G.07.2219	342.M.F7.2219
26 X 19	8/10	342.G.08.2619	342.M.F8.2619

INVITO PER GUIDA / INLET FOR "U" GUIDE		
346.I.21.20	A = 21 mm	Zincato / galvanized
346.I.23.20	A = 23 mm	Zincato / galvanized

## GUIDE E TUBOLARI IN ALLUMINIO ESTRUSO

### EXTRUDED ALUMINIUM GUIDE RAILS AND TUBULAR BASE PROFILES



#### GUIDA IN ALLUMINIO ESTRUSO (barre da 6,5 mt – senza spazzolino) EXTRUDED ALUMINIUM GUIDE RAIL (6,5 mt bars – without brush)

<b>326.G.25.**</b>	A = 25 mm	Per stecca da 14 mm / For 14 mm slat
<b>326.G.19.**</b>	A = 19 mm	Per stecca da 9 mm / For 9 mm slat

#### GUIDA IN ALLUMINIO ESTRUSO PER SOSTITUZIONI (barre da 6,5 mt – senza spazzolino) EXTRUDED ALUMINIUM GUIDE RAIL FOR REPLACEMENT (6,5 mt bars – without brush)

<b>326.G.S1.**</b>	A = 17,3 mm	LARGA - Per stecca da 13 mm WIDE - For 13 mm slat
<b>326.G.S2.**</b>	A = 19 mm	Per stecca da 14 mm For 14 mm slat

**Su richiesta** (con supplemento di prezzo) la guida può essere fornita: tagliata a misura, con spacco di invito, con fori in fondo, con fori per catenacci, con spazzolino inserito.

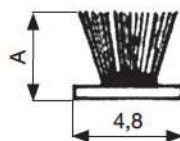
*On request* (with price increase) the guide rail may be required: cut to measure, with split for inlet, with bottom holes, with holes for locking bolts, with inserted brush.

#### TUBOLARE IN ALLUMINIO ESTRUSO (per telaio a sporgere - barre da 6,5 mt) EXTRUDED ALUMINIUM TUBULAR BASE PROFILE (for projector frames - 6,5 mt bars)

<b>326.T.25.**</b>	A = 25 mm	Per guida da 25 mm / For 25 mm guide
<b>326.T.19.**</b>	A = 19 mm	Per guida da 19 mm / For 19 mm guide

#### COLORI DISPONIBILI (indicare il codice \*\* relativo al colore richiesto) AVAILABLE COLOURS (specify the code \*\* for the required colour)

<b>70</b>	Grezzo / blank	<b>75</b>	Vern. marrone scuro / dark brown painted
<b>71</b>	Anodizz. argento / silver anod.	<b>76</b>	Vern. avorio / ivory painted
<b>72</b>	Anodizz. bronzo / bronzo anod.	<b>77</b>	Vern. bianco / white painted
<b>74</b>	Vern. marrone / brown painted	<b>78</b>	Elettrocolore nero / black anod.

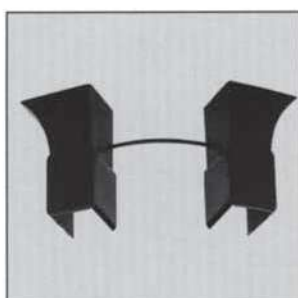


#### SPAZZOLINO PER GUIDA ALLUMINIO BRUSH GASKET FOR ALUMINIUM GUIDE RAIL

<b>326.S.00.00</b>	A = 4 mm	In rotoli da 650 mt / in 650 mt coils
<b>326.S.01.00</b>	A = 5 mm	In rotoli da 500 mt / in 500 mt coils
<b>326.S.02.00</b>	A = 7 mm	In rotoli da 325 mt / in 325 mt coils

#### INVITI PER GUIDA ALLUMINIO (1 paio) ENTRY GUIDE FOR ALUMINIUM GUIDE RAIL (1 pair)

<b>346.I.P9.90</b>	Per guida 30 x 19 x 30	In plastica
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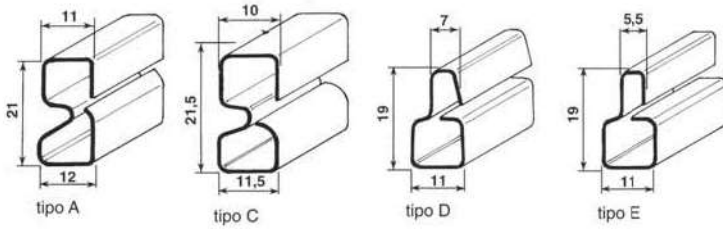
#### INVITI PER GUIDA ALLUMINIO (1 paio) ENTRY GUIDE FOR ALUMINIUM GUIDE RAIL (1 pair)

<b>346.I.PL.90</b>	Per guida 30 x 25 x 30	In plastica
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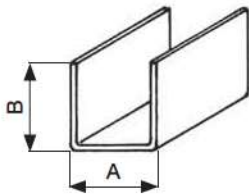


# PROFILATI

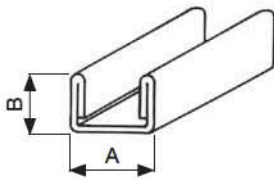
## IRON ROLLED SECTIONS



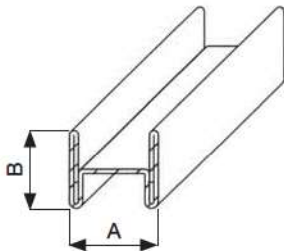
TERMINALE PER BALZA - ZINCATO TERMINAL PROFILE - GALVANIZED		
<b>350.T.0A.2M</b>	Tipo A	In barre da 6 mt
<b>350.T.0C.2M</b>	Tipo C	In barre da 6 mt
<b>350.T.0D.2M</b>	Tipo D	In barre da 6 mt
<b>350.T.0E.2M</b>	Tipo E	In barre da 6 mt



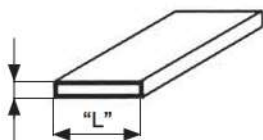
RINFORZO AD U – ZINCATO per avvolgibili in plastica REINFORCING U SHAPED PROFILE-GALVANIZED - for plastic slats			
articolo	B x A x B (mm)	Spessore thickness	In barre
<b>352.R.U5.2M</b>	9 x 6 x 9	0,8 mm	6 mt
<b>352.R.U7.2M</b>	8,2 x 6,5 x 8,2	0,8 mm	6 mt
<b>352.R.U3.2M</b>	7 x 7 x 7	0,8 mm	6 mt
<b>352.R.U8.2M</b>	8 x 8 x 8	0,8 mm	6 mt
<b>352.R.U2.2M</b>	9,5 x 9 x 9,5	0,8 mm	6 mt
<b>352.R.U9.2M</b>	10 x 9 x 10	0,8 mm	6 mt
<b>352.R.UG.2M</b>	10 x 10 x 10	0,8 mm	6 mt
<b>352.R.U1.2M</b>	11 x 11 x 11	0,8 mm	6 mt
<b>352.R.U0.2M</b>	9,5 x 11 x 9,5	0,8 mm	6 mt
<b>352.R.U4.2M</b>	7 x 11 x 7	0,8 mm	6 mt



RINFORZO AD U ZINCATO per avvolgibili in plastica AD ALI ROVESCIATE REINFORCING U SHAPED PROFILE – GALVANIZED - for plastic slats WITH FOLDED EDGES			
articolo	B x A x B (mm)	Spessore thickness	In barre
<b>354.R.A8.2M</b>	7,8 X 8 X 7,8	0,6 mm	6 mt
<b>354.R.A0.2M</b>	7 X 10 X 7	0,5 mm	6 mt



RINFORZO AD H – ZINCATO per avvolgibili in plastica REINFORCING H SHAPED PROFILE-GALVANIZED - for plastic slats			
articolo	B x A x B (mm)	Spessore thickness	In barre
<b>356.R.H8.2M</b>	8 x 7 x 8	0,5 mm	6 mt
<b>356.R.H3.2M</b>	9 x 7 x 9	0,5 mm	6 mt
<b>356.R.H0.2M</b>	7 x 8 x 7	0,5 mm	6 mt
<b>356.R.H6.2M</b>	7 x 9 x 7	0,5 mm	6 mt
<b>356.R.H2.2M</b>	9,5 x 9,2 x 9,5	0,5 mm	6 mt
<b>356.R.H1.2M</b>	7,8 x 9,3 x 7,8	0,5 mm	6 mt
<b>356.R.H4.2M</b>	9 x 10 x 9	0,5 mm	6 mt
<b>356.R.H5.2M</b>	10,5x10x10,5	0,5 mm	6 mt
<b>356.R.H7.2M</b>	7 x 11 x 7	0,5 mm	6 mt



LAMINA DI RINFORZO In acciaio temprato zinco/ ramato per stecca in plastica REINFORCING STEEL FOIL - Copper zinc- galvanized for plastic slat		
<b>357.R.L1.17</b>	L = 9,7 mm x 0,7 mm	In rotoli / coils
<b>357.R.L2.17</b>	L = 10,1 mm x 0,7 mm	In rotoli / coils
<b>357.R.L3.17</b>	L = 11,1 mm x 0,7 mm	In rotoli / coils
<b>357.R.L4.17</b>	L = 12,4 mm x 0,7 mm	In rotoli / coils

# ARGANI A FUNE METALLICA

## METAL CABLE WINCHES

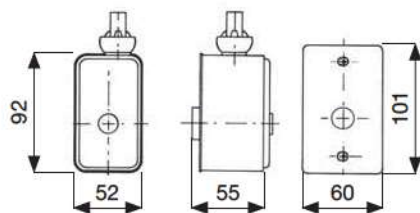


KIT ARGANO A FUNE COMPLETO (con placca inox) KIT METAL CABLE WINCH COMPLETE (with inox covering plate)	
360.K.02.30	Tipo P/25
360.K.S5.30	Tipo S/50
360.K.M5.30	Tipo M/50
360.K.10.30	Tipo G/100

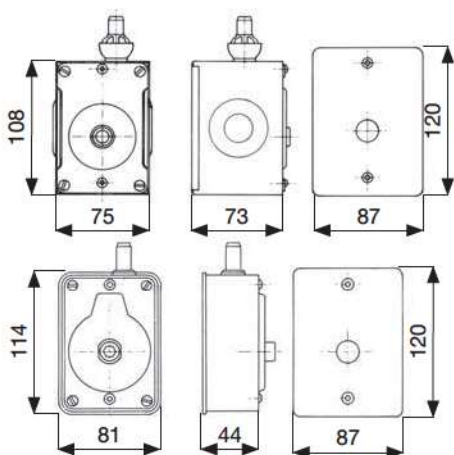
# DIMENSIONI E CARATTERISTICHE DEGLI ARGANI A FUNE

## DIMENSION AND TECHNICAL DATA OF METAL CABLE WINCHES

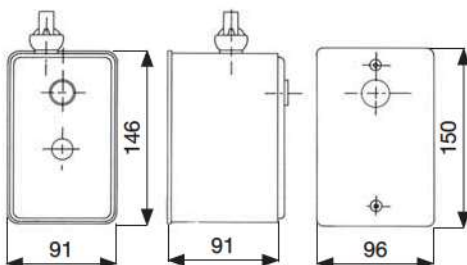
P/25 – H.MAX 1,8 mt		Portata max Capacity load	Puleggia pulley	Manovella handle	Fune cable
Meccanismo	360.A.02.70	25 KG	Ø 160mm 360.P.16.20	Esagono 7 360.M.07.33	Ø 1,8 mm x 5 mt 360.F.02.00
Cassetta plastica	360.C.02.90				
Placca inox	360.P.02.30				
Placca all argento	360.P.02.71				



S/50 – H.MAX 3 mt		Portata max Capacity load	Puleggia pulley	Manovella handle	Fune cable
Meccanismo	360.A.S5.20	KG. 50 →	Ø 240 mm 360.P.24.20	Esagono 8 360.M.08.33	Ø 2,5 mm x 6,5 mt 360.F.05.00
Cassetta ferro	360.C.S5.20				
Cassetta plastica	360.C.S5.90				
M/50 – H.MAX 3 mt		KG. 40 →	Ø 210 mm 360.P.21.20	Esagono 8 360.M.08.33	Ø 2,5 mm x 6,5 mt 360.F.05.00
Meccanismo	360.A.M5.20				
Cassetta plastica	360.C.M5.90	KG. 35 →	Ø 190 mm 360.P.19.20	PLACCA S/50 – M/50	
Inox	360.P.05.30				
All. argento	360.P.05.71				
All. bronzo	360.P.05.72				



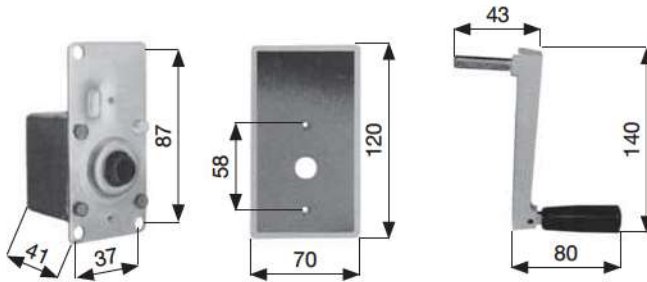
G 100 – H.MAX 4,5 mt		Portata max Capacity load	Puleggia pulley	Manovella handle	Fune cable
Meccanismo	360.A.10.70	100 KG	Ø 240 mm 360.P.24.20	Esagono 8 con distanziale 360.M.D8.33	Ø 3 mm x 7 mt 360.F.10.00
Cassetta plastica	360.C.10.90				
Placca inox	360.P.10.30				



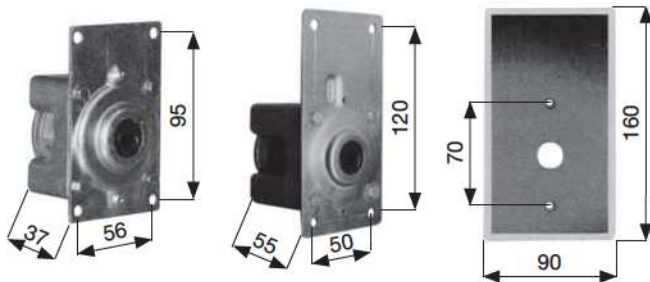


## ARGANI A FUNE METALLICA E ACCESSORI

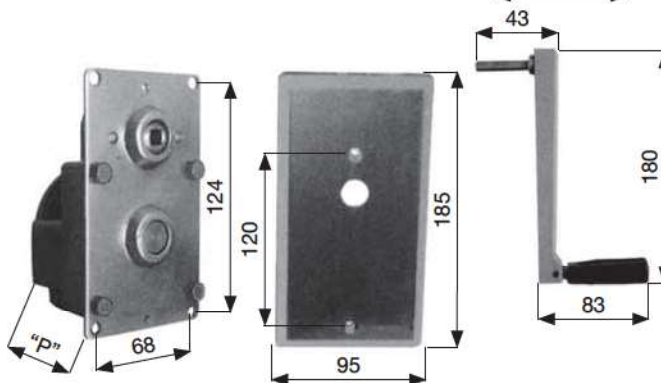
### METAL CABLE WINCHES AND ACCESSORIES



<b>360.B.G3.70</b>	MECCANISMO <i>Winch</i>	per argano a fune "BGM" 30 KG
<b>360.P.G3.90</b>	PLACCA <i>covering plate</i>	
<b>360.M.B3.00</b>	MANOVELLA <i>Handle crank</i>	

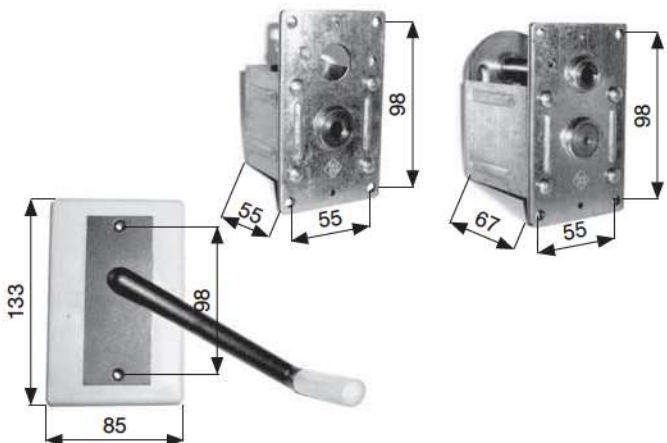


<b>360.B.G4.70</b>	MECCANISMO <i>Winch</i>	per argano a fune "BGM" 40 KG
<b>360.B.G5.70</b>	MECCANISMO <i>Winch</i>	per argano a fune "BGM" 50 KG
<b>360.P.G5.90</b>	PLACCA <i>covering plate</i>	per argani a fune "BGM" 40/50 KG



<b>360.M.BG.00</b>	MANOVELLA <i>handle crank</i>	per argani a fune "BGM" 40/50/80/100 KG
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<b>360.B.G8.70</b>	MECCANISMO <i>Winch</i>	per argani a fune "BGM" 80KG P= 48 mm
<b>360.B.G9.70</b>	MECCANISMO <i>Winch</i>	per argani a fune "BGM" 100 KG P= 70 mm
<b>360.P.G9.90</b>	PLACCA <i>covering plate</i>	per argani a fune "BGM" 80/100 KG

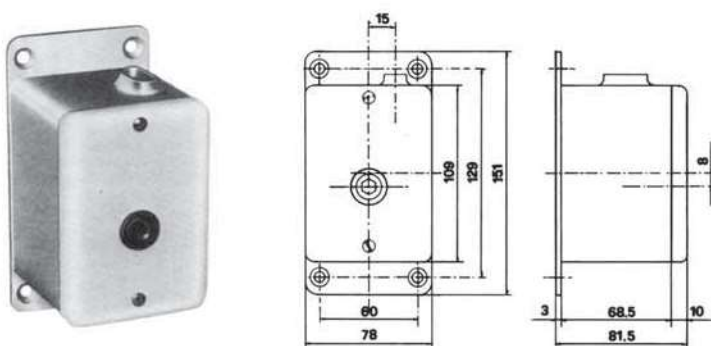


<b>360.B.C4.70</b>	MECCANISMO <i>Winch</i>	per argano a fune "BC" 40 KG
<b>360.B.C7.70</b>	MECCANISMO <i>Winch</i>	per argano a fune "BC" 70 KG

<b>360.B.CK.90</b>	KIT PLACCA +MANOVELLA KIT: COVERING PLATE AND HANDLE CRANK	per argani a fune "BC" 40/70 KG
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## ARGANO A FUNE ESTERNO

### EXTERNAL WINCH



### ARGANO A FUNE ESTERNO 50 KG EXTERNAL WINCH max load 50 kg

<b>362.A.E5.20</b>	Meccanismo - h. max 3 mt <i>Winch</i>
<b>362.C.E5.71</b>	Contenitore in alluminio <i>aluminium box</i>
<b>362.P.E5.91</b>	Placca plastica <i>plastic covering plate</i>

# ARGANI AD ASTA OSCILLANTE TIPO "MONACO" CON FINECORSA

## "MONACO" SWINGING HANDLE WINCHES WITH END-STROKE

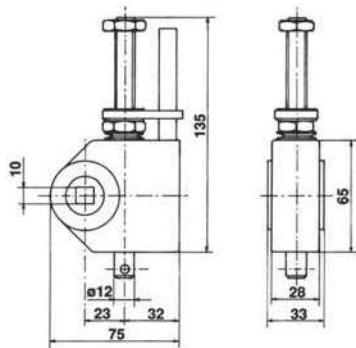
Collegamento all'asta con snodo cardanico (asta esclusa)  
 Through motion double joint (swinging handle not included)



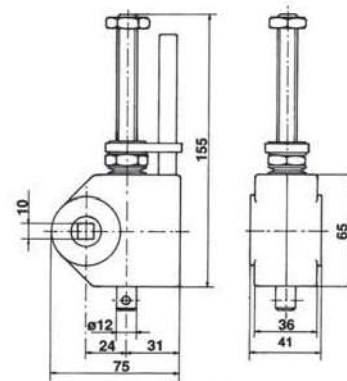
ARGANO MONACO COMPLETO con finecorsa registrabile MONACO WINCH KIT - with adjustable end-stroke			
Articolo item	Portata Max load	Rapporto ratio	Nr. Giri rotations
380.K.M2.70	20 kg	1:5	8
380.K.M3.70	30 kg	1:8	8
380.K.M5.70	45 kg	1:13	8
380.K.M6.70	60 kg	1:16	8

### DIMENSIONI ARGANI

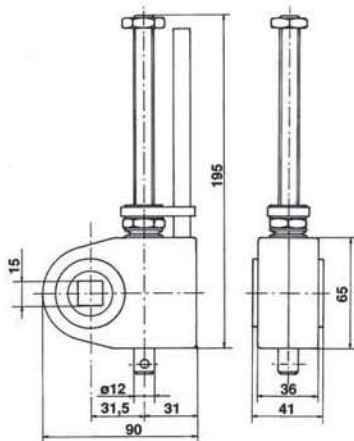
#### WINCH DIMENSIONS



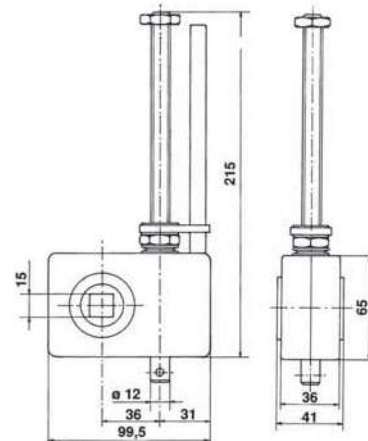
<b>380.A.M2.70</b>	20 kg	Meccanismo argano gear only
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<b>380.A.M3.70</b>	30 kg	Meccanismo argano gear only
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<b>380.A.M5.70</b>	45 kg	Meccanismo argano gear only
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<b>380.A.M6.70</b>	60 kg	Meccanismo argano gear only
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# ARGANI AD ASTA OSCILLANTE TIPO "MONACO" SENZA FINECORSA

## "MONACO" SWINGING HANDLE WINCHES WITHOUT END-STROKE

Collegamento all'asta con snodo cardanico - Calotta con finecorsa automatico (asta esclusa)

Through motion double joint - Cap with automatic end-stroke (swinging handle not included)

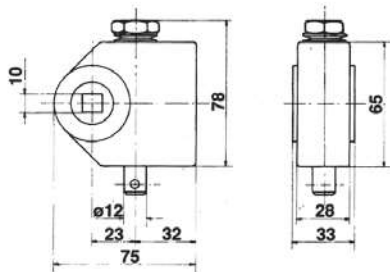


ARGANO MONACO COMPLETO senza finecorsa MONACO WINCH KIT - without end-stroke			
DESTRO <i>right</i>	SINISTRO <i>left</i>	Portata <i>Max load</i>	Rapporto <i>ratio</i>
381.K.M2.70	381.K.M2.70SX	20 kg	1:5
381.K.M3.70	381.K.M3.70SX	30 kg	1:8
381.K.M5.70	381.K.M5.70SX	45 kg	1:13
381.K.M6.70	381.K.M6.70SX	60 kg	1:16

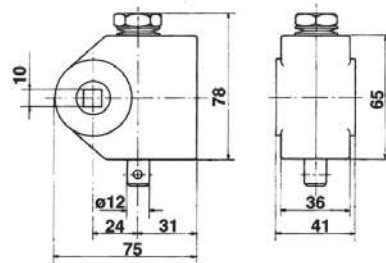
Il finecorsa in basso si ottiene tramite la calotta con finecorsa automatico.  
*Lower end-stroke is fixed automatically through cap.*

## DIMENSIONI ARGANI

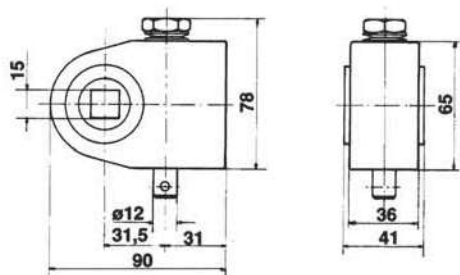
### WINCH DIMENSIONS



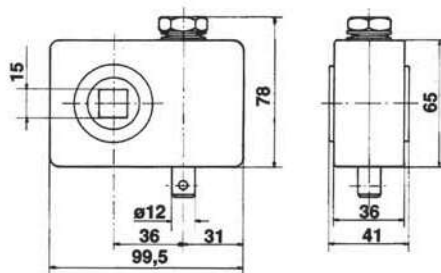
<b>381.A.M2.70</b>	20 kg	Meccanismo argano <i>gear only</i>
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<b>381.A.M3.70</b>	30 kg	Meccanismo argano <i>gear only</i>
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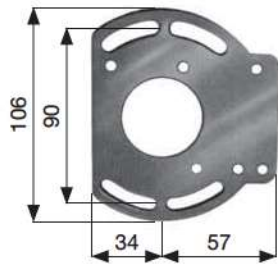
<b>381.A.M5.70</b>	45 kg	Meccanismo argano <i>gear only</i>
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<b>381.A.M6.70</b>	60 kg	Meccanismo argano <i>gear only</i>
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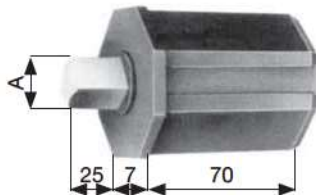
# ACCESSORI PER ARGANO AD ASTA OSCILLANTE

## ACCESSORIES FOR SWINGING HANDLE WINCHES



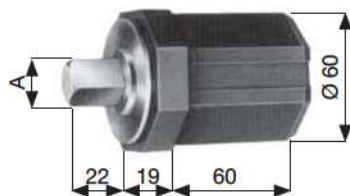
### FLANGIA SUPPORTO / FLANGE SUPPORT

<b>380.S.00.20</b>	per argano "MONACO" for "MONACO" winch
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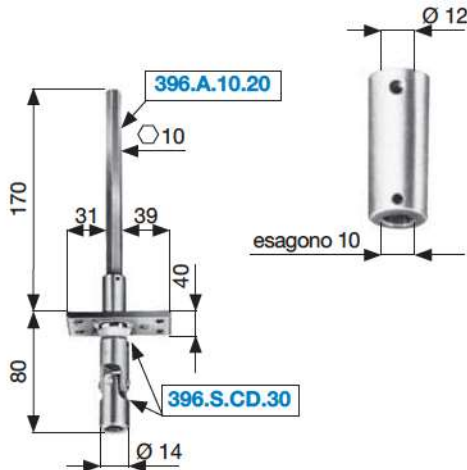
### CALOTTA in plastica - CON PERNO QUADRO Plastic CAP - WITH SQUARE PIVOT

<b>380.C.41.90</b>	A = □ 10 mm	Per rullo ottag. Ø 40 mm for octagonal roller Ø 40 mm
<b>380.C.10.90</b>	A = □ 10 mm	Per rullo ottag. Ø 60 mm for octagonal roller Ø 60 mm
<b>380.C.15.90</b>	A = □ 15 mm	Per rullo ottag. Ø 60 mm For octagonal roller Ø 60 mm
<b>380.C.75.90</b>	A = □ 15 mm	Per rullo ottag. Ø 70 mm for octagonal roller Ø 70 mm



### CALOTTA in plastica - CON PERNO QUADRO CON FINECORSA Per rullo ottag. Ø 60 mm Plastic CAP - WITH SQUARE PIVOT WITH END-STROKE / For octagonal roller Ø 60 mm

<b>381.C.10.90</b>	A = □ 10 mm	Destra / right
<b>381.C.10.90SX</b>	A = □ 10 mm	Sinistra / left
<b>381.C.15.90</b>	A = □ 15 mm	Destra / right
<b>381.C.15.90SX</b>	A = □ 15 mm	Sinistra / left



### BOCCOLA DI RACCORDO per argano "MONACO" e astina esagonale COUPLING BUSH for "MONACO" winch and cardan joint

<b>398.B.00.20</b>	Sfusa / loose
<b>398.B.MN.20</b>	Montata su argano / assembled with winch

### KIT

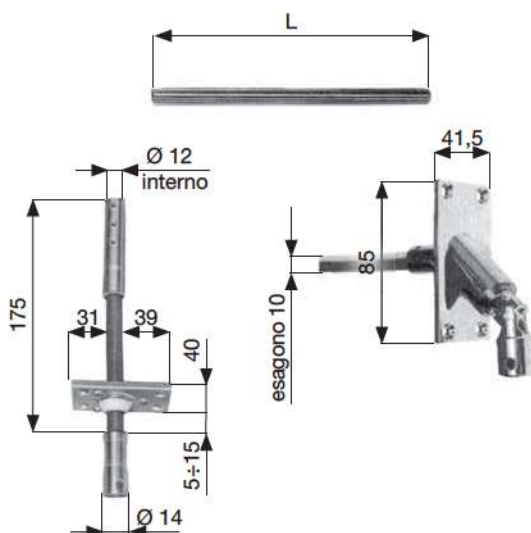
<b>392.K.CD.30</b>	Snodo cardanico + astina esagono 10 x 160 mm Cardan joint + hexagonal bar 10x160 mm
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### SNODO CARDANICO / CARDAN JOINT

<b>392.S.CD.30</b>	Con piastrina inox - senza astina Cardan joint only + stainless steel fixing plate
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### ASTINA ESAGONO 10 mm / HEXAGONAL BAR (section 10 mm)

<b>396.A.10.20</b>	L = 160 mm
<b>396.A.30.20</b>	L = 300 mm
<b>396.A.40.20</b>	L = 400 mm



### KIT (nichelato / nickel-plated)

<b>392.K.SQ.34</b>	Snodo cardanico 90° + astina esagono 10 x 500 mm 90° Cardan joint + hexagonal bar 10 x 500 mm
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### SNODO FLESSIBILE / FLEXIBLE JOINT

<b>401.S.FL.20</b>	Per argano "MONACO" For "MONACO" winch
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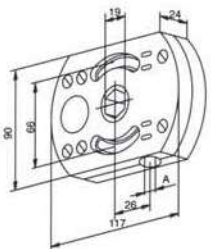


# ARGANI "SYDNEY" CON FINECORSA

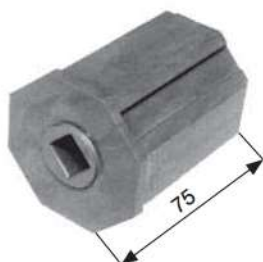
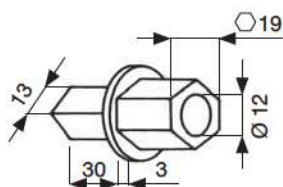
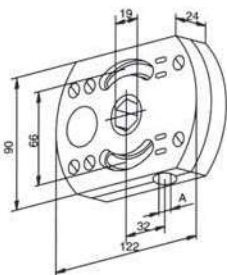
## "SYDNEY" WINCHES WITH END-STROKE

1:5

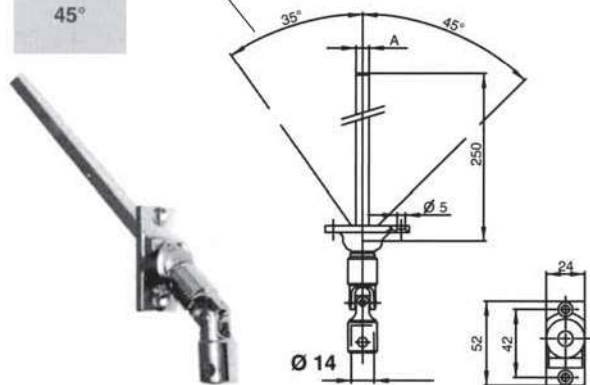
1:8



1:11



45°



**SNODO CARDANICO 45° - astina □ 8 mm**  
45° CARDAN JOINT - □ 8 mm square bar

**385.S.08.34**

Piastra 24 mm - 2 fori / nichelata  
Plate 24 mm with 2 holes / nickel-plated

### MECCANISMO ARGANO "SYDNEY"

"SYDNEY" WINCH (gear only)

Articolo item	Portata Max load	Rapporto ratio	Corpo case
<b>384.A.S5.90</b>	18 kg	1:5	plastica
<b>384.A.S8.90</b>	25 kg	1:8	plastica

Con finecorsa basso giri max 14  
With lower end-stroke max 14 rotations

### MECCANISMO ARGANO "SYDNEY"

"SYDNEY" WINCH (gear only)

Articolo item	Portata Max load	Rapporto ratio	Corpo case
<b>384.A.SY.70</b>	30 kg	1:11	zama
<b>384.A.SY.90</b>	30 kg	1:11	plastica

Con finecorsa basso giri max 10  
With lower end-stroke max 10 rotations

**n.b.:** gli argani "Sydney" possono essere forniti, su richiesta, con innesto (A) per astina esagono 7 mm anziché quadro 8 mm

### INNESTO ESAGONALE / HEXAGONAL PIVOT

**384.E.SY.70**

per argano "SYDNEY" / for "SYDNEY" winch

### CALOTTA PLASTICA Ø 60 foro □ 13 mm

per argano "SYDNEY"

PLASTIC CAP - hole □ 13 mm - for "SYDNEY" winch

**380.C.F3.90**

Per rullo ottag. Ø 60 mm  
for octagonal roller Ø 60 mm

### CALOTTA PLASTICA Ø 40 - foro □ 13 mm

per argano "SYDNEY"

PLASTIC CAP - hole □ 13 mm - for "SYDNEY" winch

**385.C.F3.90**

Per rullo ottag. Ø 40 mm  
for octagonal roller Ø 40 mm

### KIT completo ARGANO "SYDNEY" - senza asta

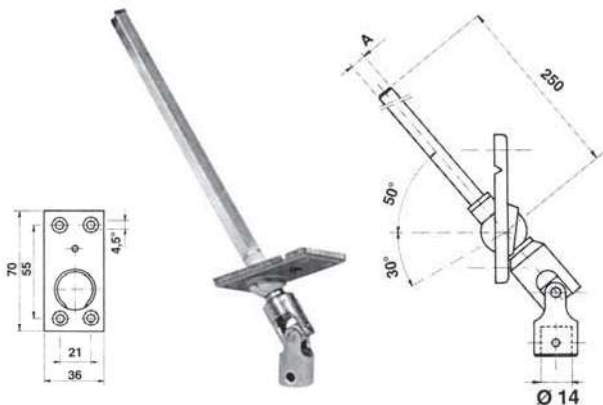
"SYDNEY" WINCH - complete KIT - without handle

Articolo item	Portata Max load	Rapporto ratio	Corpo case
<b>384.K.S5.90</b>	18 kg	1:5	plastica
<b>384.K.S8.90</b>	25 kg	1:8	plastica
<b>384.K.SY.70</b>	30 kg	1:11	zama
<b>384.K.SY.90</b>	30 kg	1:11	plastica

Il kit comprende: Meccanismo (384.A.--); innesto (384.E.SY.70); calotta (380.C.F3.90); snodo cardanico (385.S.08.--); 386.V.00.20 vite e dado x snodo/asta

# ACCESSORI PER ARGANI AD ASTA OSCILLANTE

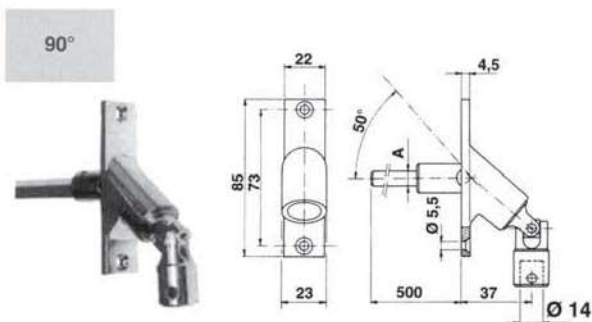
## ACCESSORIES FOR SWINGING HANDLE WINCHES



**SNODO CARDANICO 50° - astina □ 8 mm**  
50° CARDAN JOINT - □ 8 mm square bar

**385.S.08.30**

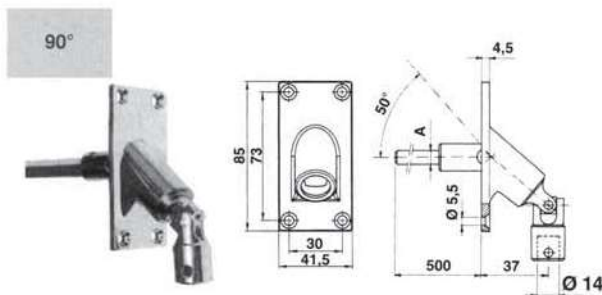
Piastra 36 mm - 4 fori / inox  
Plate 36 mm with 4 holes / stainless steel



**SNODO CARDANICO 90° - astina □ 8 mm**  
90° CARDAN JOINT - □ 8 mm square bar

**385.S.S8.34**

Piastra 23 mm - 2 fori / nichelata  
Plate 23 mm with 2 holes / nickel-plated



**SNODO CARDANICO 90° - astina □ 8 mm**  
90° CARDAN JOINT - □ 8 mm square bar

**385.S.48.34**

Piastra 41,5 mm - 4 fori / nichelata  
Plate 41,5 mm with 4 holes / nickel-plated



**390.O.SN.34**

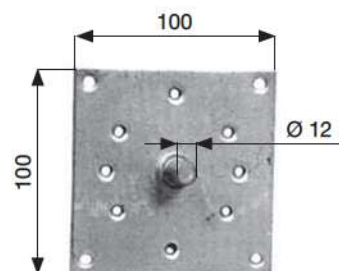
**OCCHIELLO plastica per snodi**  
Plastic EYELET for cardan joint



**SNODO CARDANICO CON PIASTRA INOX A FILO foro esagono 10 mm per innesto - astina esag. 7 mm**  
CARDAN JOINT with 10 mm hexagonal hole - 7 mm hexagonal bar

**586.K.F7.30**

Piastra 41,5 mm - 4 fori / inox  
Plate 41,5 mm with 4 holes / stainless steel



**PIASTRA CON PERNO (fori filettati)**  
BRACKET TO SCREW WITH PIVOT (threaded holes)

**384.P.SY.20**

Per argani "SYDNEY"  
For using with "SYDNEY" winches



# ACCESSORI PER ARGANI AD ASTA OSCILLANTE

## ACCESSORIES FOR SWINGING HANDLE WINCHES



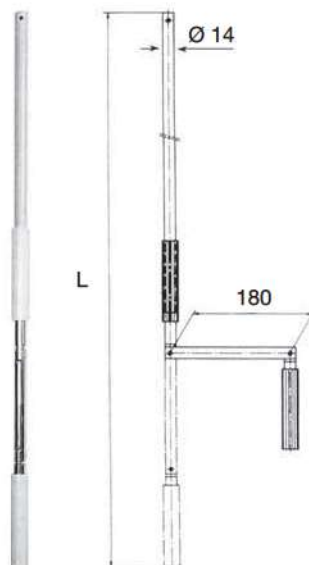
### SNODO CARDANICO SENZA PIASTRA CARDAN JOINT WITHOUT PLATE

Articolo item	A	B
394.S.22.33	Ø 12 mm	Ø 12 mm
394.S.24.33	Ø 12 mm	Ø 14 mm
394.S.2E.33	Ø 12 mm	○ 10 mm
394.S.44.33	Ø 14 mm	Ø 14 mm
394.S.4E.33	Ø 14 mm	○ 10 mm
394.S.EE.33	○ 10 mm	○ 10 mm
394.S.88.33	□ 8 mm	□ 8 mm
394.S.77.33	○ 7 mm	○ 7 mm



### ASTA SNODATA CON GANCIO PER ARGANO - Rivestita in plastica SWINGING HANDLE WITH HOOK - plastic covering

388.A.18.92	Grigia / grey
388.A.18.93	Bianca / white
388.A.18.95	Nera / black



### ASTA SNODATA PER ARGANO rivestita in plastica SWINGING HANDLE FOR WINCH plastic covering

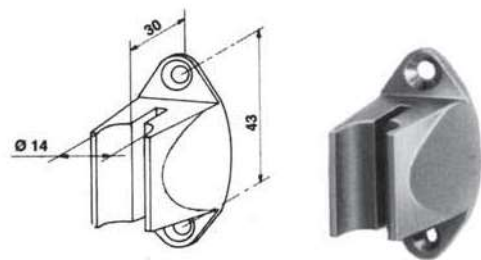
386.A.16.**	L = 1,54 mt
386.A.17.**	L = 1,64 mt
386.A.20.**	L = 1,94 mt
386.A.30.**	L = 2,94 mt

Colori disponibili \*\*: 92= grigio / grey  
93= bianco / white - 95= nero / black



586.F.E4.20

ESAGONO 10 mm CON FLESSIBILE per asta  
FLEXIBLE HESAGONAL 10 mm for swinging handle



### FERMOASTA NYLON / NYLON HANDLE LOCK

386.F.00.92	Grigio / grey
386.F.00.93	Bianco / white
386.F.00.95	Nero / black



388.G.00.20

GANCIO per asta  
HOOK for swinging handle

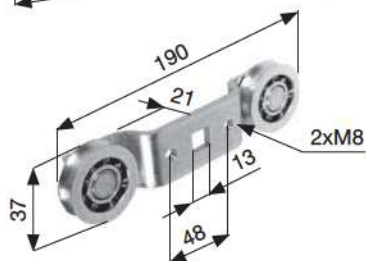
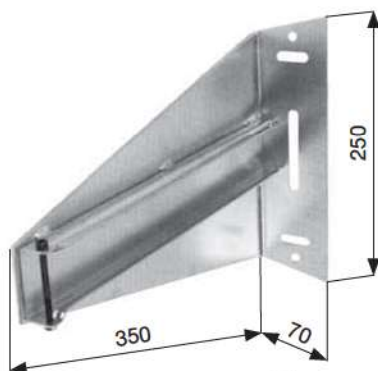
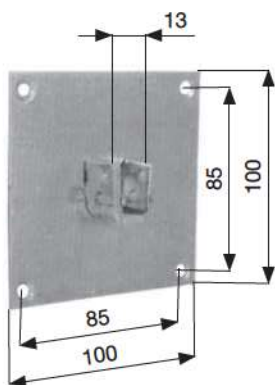
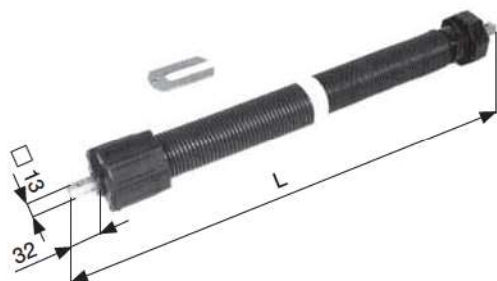


587.I.F4.34

INNESTO RAPIDO femmina per asta  
BELL COUPLING for handle

# MOLLE DI COMPENSAZIONE E TIRO DIRETTO

## ASSIST AND PUSH-UP SPRINGS



### MOLLE DI COMPENSAZIONE ASSIST AND PUSH-UP SPRINGS

articolo	Ø filo (mm)	nr spire	L (mm)	coppia/giro (kgm)	forza totale su Ø 90	nr. giri
per rullo ottagonale Ø 60 mm / for octagonal roller Ø 60 mm						
406.N.15.00	3,5	125	650	0,068	15 kg	10
406.N.24.00	4	160	860	0,090	24 kg	12
406.N.34.00	4,5	160	940	0,128	34 kg	12
406.N.62.00	5	140	940	0,215	62 kg	13
406.N.80.00	5,5	133	970	0,360	80 kg	10
per rullo ottagonale Ø 70 mm / for octagonal roller Ø 70 mm						
407.G.56.00	5	140	940	0,215	56 kg	13
407.G.75.00	5,5	188	1270	0,288	75 kg	13
407.G.00.00	6	133	1030	0,500	100 kg	10
per rullo ottagonale Ø 40 mm / for octagonal roller Ø 40 mm						
408.M.10.00	2,6	155	600	0,027	10 kg	11
408.M.17.00	2,8	175	710	0,030	17 kg	17
408.M.24.00	3	180	760	0,040	24 kg	18

409.S.13.20

**SUPPORTO per CONTROMOLLA**  
SUPPORT FOR ASSIST SPRING

409.C.00.20

**CUSCINETTO per supporto scorrevole**  
BALL BEARING for sliding bracket

409.S.CA.20

**SUPPORTO per carrello scorrevole**  
BRACKET for sliding runner

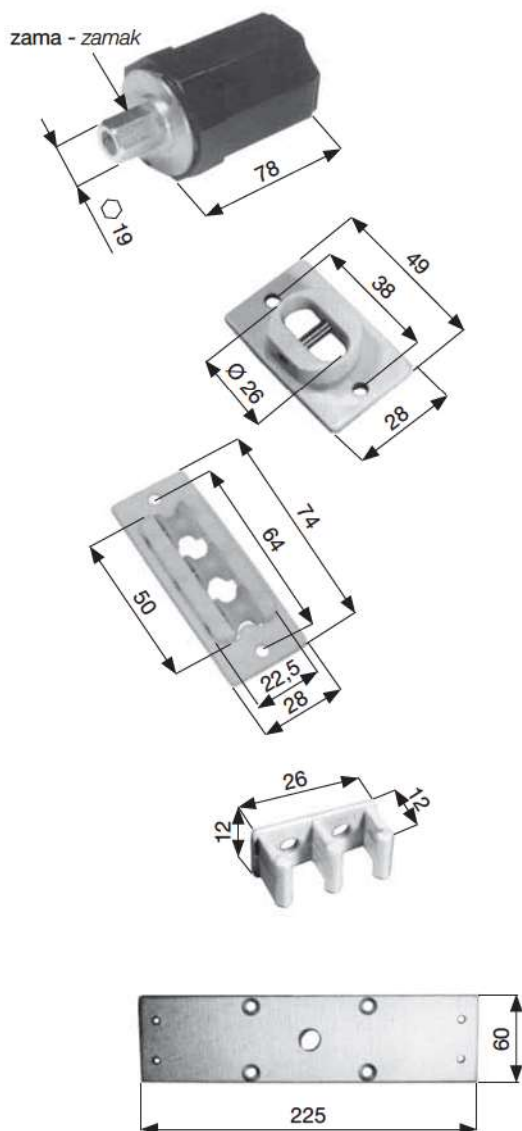
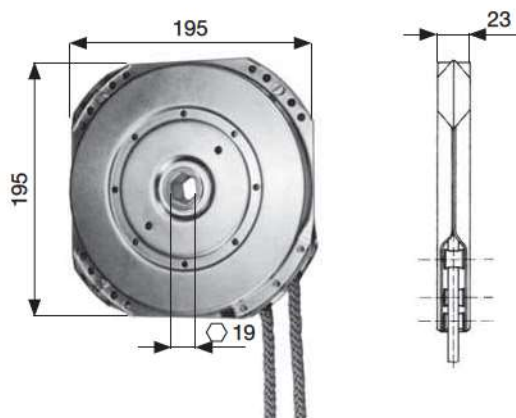
409.C.CA.20

**CARRELLO SCORREVOLE per contromolle**  
SLIDING BRACKET with ball bearings for assist springs



# AUTOFRENTANTI A CORDONE CONTINUO

## TWIST WINCHES



### AUTOFRENTANTE "ARNO" completo di cordone "ARNO" WINCH with braid

Articolo item	Portata Max load	Cordone Ø 8 mm Braid Ø 8 mm	
410.A.AR.10	25 kg	Grigio / grey	L. 3,5 mt
410.A.AR.20	25 kg	Bianco / white	L. 3,5 mt
410.A.AR.30	25 kg	Marrone / brown	L. 3,5 mt
410.A.A4.10	25 kg	Grigio / grey	L. 4,1 mt
410.A.A4.20	25 kg	Bianco / white	L. 4,1 mt

### CALOTTA "ARNO" con finecorsa "ARNO" CAP with end-stroke

410.C.ED.90	Ø 60 mm – destra / right
410.C.ES.90	Ø 60 mm – sinistra / left

### GUIDACORDONE "ARNO" "ARNO" BRAID GUIDE

410.G.AR.93	Bianco / white
410.G.AR.94	Marrone / brown

### GUIDACORDONE "ARNO" A 3 RULLINI "ARNO" BRAID GUIDE WITH 3 ROLLERS

410.G.3R.93	Bianco / white
410.G.3R.94	Marrone / brown
410.G.3R.95	Nero / black

### FERMACORDONE "ARNO" "ARNO" BRAID-LOCK

410.F.AR.93	Bianco / white
410.F.AR.94	Marrone / brown

### 410.P.AR.20 PIASTRA SUPPORTO per "ARNO" SUPPORT BRACKET FOR "ARNO"

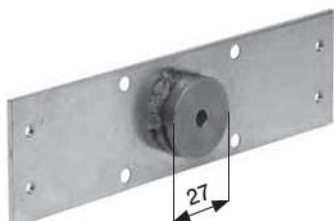
### KIT completo "ARNO" con cordone 3,5 mt KIT "ARNO" with 3,5 mt braid

410.K.AR.10	Grigio / grey	destro / right
410.K.AS.10	Grigio / grey	sinistro / left
410.K.AR.20	Bianco / white	destro / right
410.K.AS.20	Bianco / white	sinistro / left

Il kit comprende: Autofrenante (410.A.AR.--) guidacordone (410.G.AR.--) fermacordone (410.F.AR.--) calotta (410.C.E.--) viti (410.V.M6.20)

# AUTOFRENTANTI A CORDONE CONTINUO

## TWIST WINCHES



### MENSOLA "TORINO" per "ARNO"

"TORINO" BRACKET for "ARNO" WINCH

410.P.DA.20	destra / right
410.P.DA.20SX	sinistra / left

### PIASTRA SUPPORTO "ARNO" Per fianchi alluminio "standard"

"ARNO" SUPPORT BRACKET for aluminium "standard" sides

410.P.FD.20	destra / right
410.P.FS.20	sinistra / left

### PIASTRA SUPPORTO "ARNO" Tipo "MAUGERI" - incastro 27 mm

"ARNO" SUPPORT BRACKET - type "MAUGERI" - 27 mm joint

410.P.MA.20	destra / right
410.P.MA.20SX	sinistra / left

### Solo CORDONE "ARNO" (per sostituzioni)

BRAID "ARNO" only (for replacement)

Articolo item	Cordone Ø 8 mm Braid Ø 8 mm	
410.C.AR.92	Grigio / grey	L. 3,5 mt
410.C.AR.93	Bianco / white	L. 3,5 mt
410.C.AR.94	Marrone / brown	L. 3,5 mt
410.C.A4.92	Grigio / grey	L. 4,1 mt
410.C.A4.93	Bianco / white	L. 4,1 mt
410.C.A4.94	Marrone / brown	L. 4,1 mt

### AUTOFRENTANTE "MICROLIFT" completo di cordone bianco 3 mt

"MICROLIFT" WINCH with white braid

Articolo item	Portata Max load	Con calotte finecorsa With end-stroke cap
410.A.MC.00	16 kg	destra / right
410.A.MC.10	16 kg	sinistra / left

### MENSOLA "TORINO" PER MICROLIFT

"TORINO" BRACKET FOR MICROLIFT

165.M.MC.20	destra / right
165.M.MC.20SX	sinistra / left

### PIASTRA SUPPORTO "MICROLIFT"

"MICROLIFT" SUPPORT BRACKET

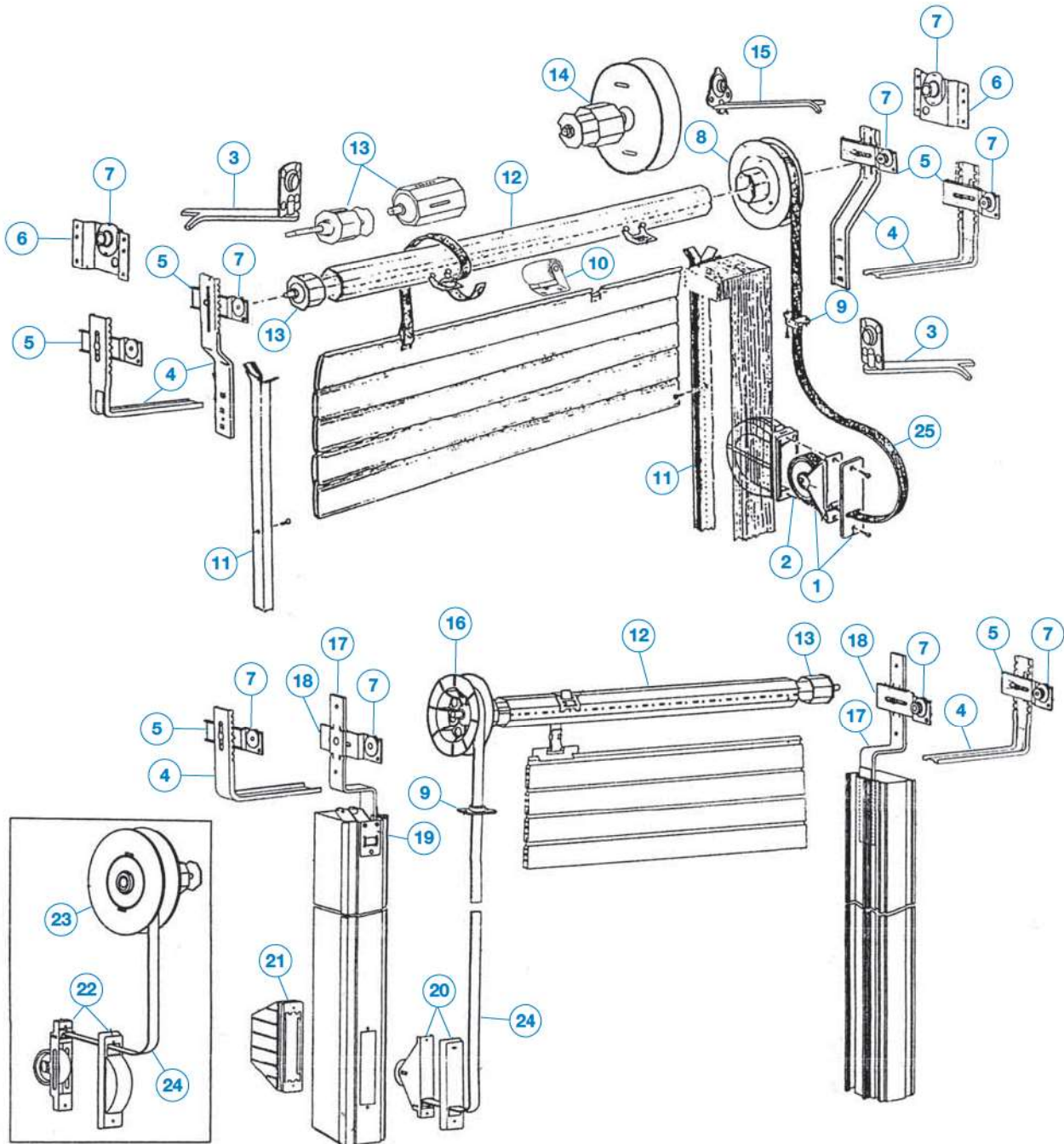
410.P.MC.20	Con vite - da avvitare su muratura pre-esistente Screw fixing on wall support
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# MANOVRA A CINGHIA

## STRAP OPERATION

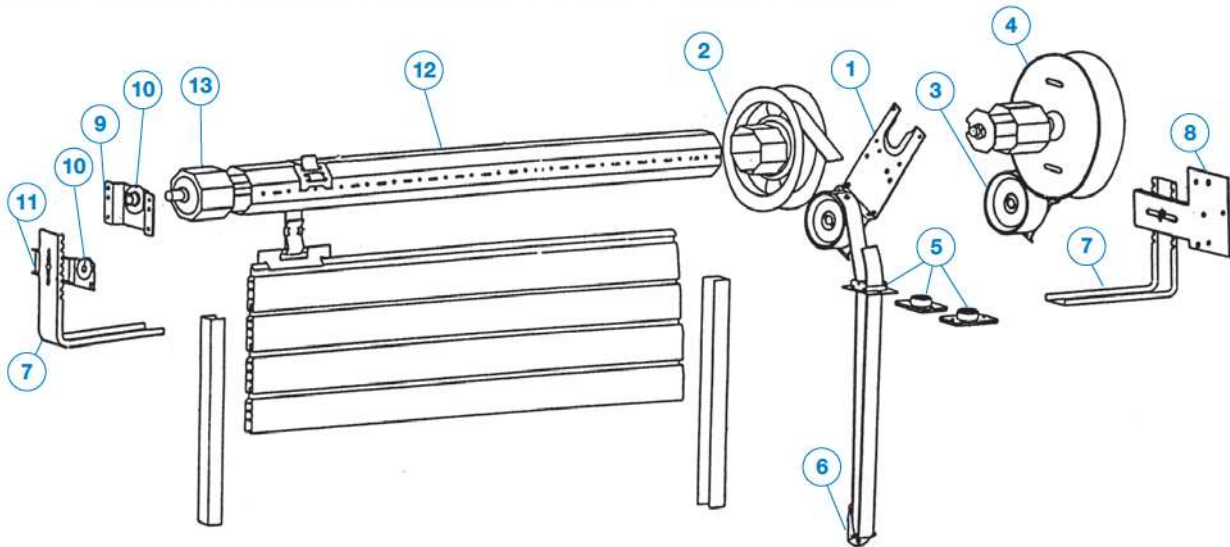


1	101.A....+101.P.... 102.A....+102.P....	8	120.P..../121.P....	14	125.R....	21	028.C.... / 110.C....
2	101.C..../ 102.C....	9	195.G.... / 196.G..../ 199.G.... / 200.G..../ 204.G.... / 204.T....	15	125.S....	22	028.S.R8... /110.A...
3	129.S.... / 132.S.... / 130.S....	10	220.R....	16	121.P.... / 122.P.	23	125.R.H.../125.Z...
4	165.S.... / 166.S....	11	340.G.... / 341.G..../ 342.G.... / 326.G....	17	170.S....	24	255.C.20... / 257.C.20...
5	165.M....	12	116.R.... / 250.R....	18	170.M....	25	255.C.21... / 255.C.22.../ 256.C.22... / 257.C.22..
6	160.S.... / 161.S....	13	118.C.... / 121.C....	19	202.G.MN...		
7	160.C.... / 161.C....			20	028.S.... + 028.P.... 108.A.... + 108.P.... 109.A.... + 109.P....		



## MANOVRA A CINGHIA CON AVVOLGITORE A CASSONETTO

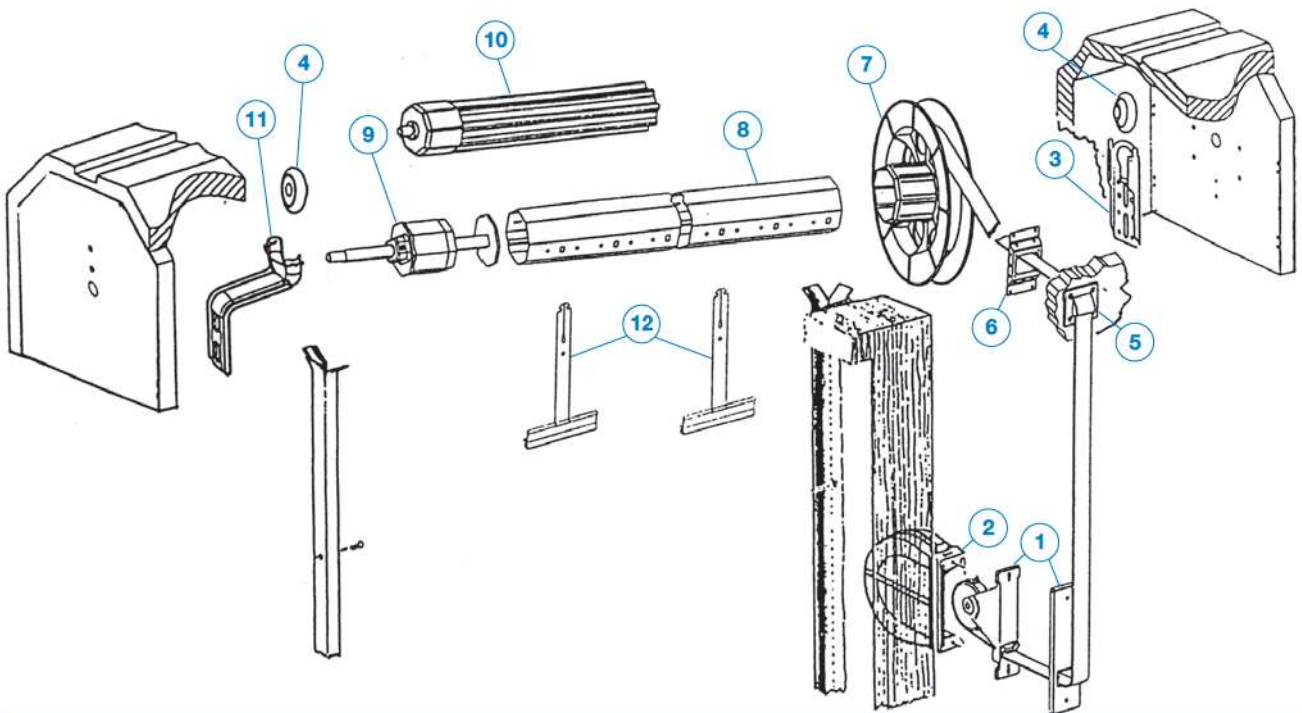
### SHUTTER HOUSING COILER STRAP OPERATION



1	112.A.....	5	112.G.3R... / 112.G.2A.../ 112.T.2A...	8	165.M.A....	11	165.M....
2	112.P.....	6	112.B...	9	160.S.../161.S....	12	116.R.....
3	112.A.R....	7	165.S.../166.S....	10	160.C.../161.C.....	13	118.C.../121.C....
4	125.R.H....						

## SCHEMA PER CASSONETTO PREFABBRICATO A "TUNNEL"

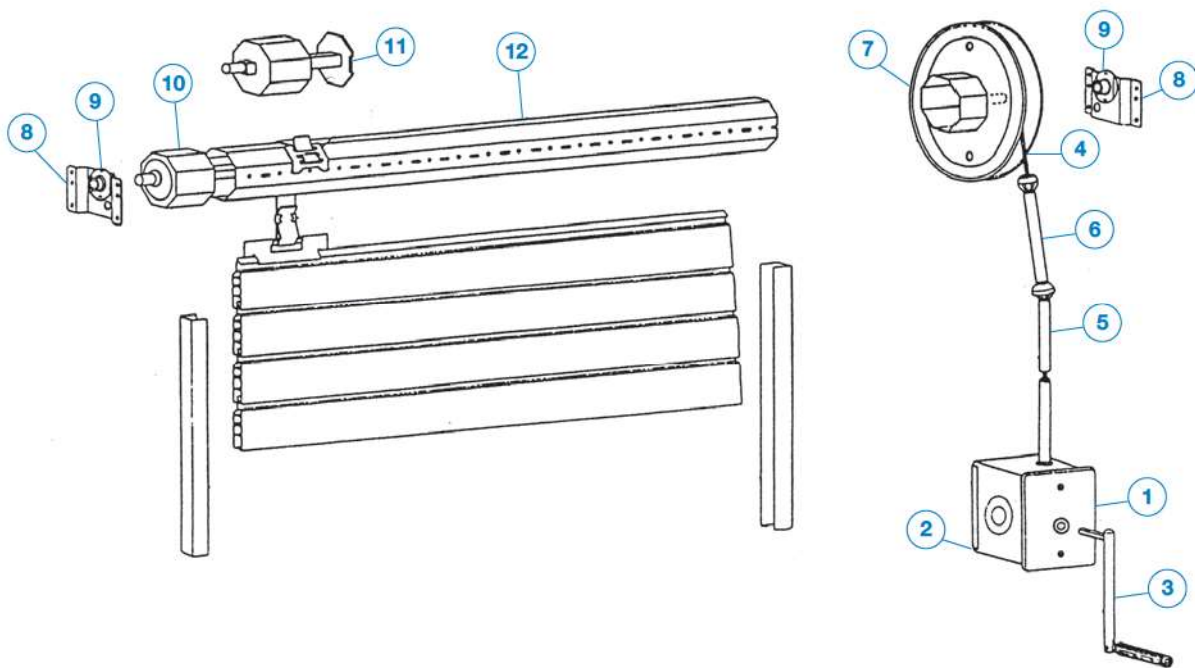
### ACCESSORIES FOR PREFABRICATED ROLLING SHUTTER TUNNEL HOUSINGS



1	101.A....+101.P.... 102.A....+102.P....	4	145.C....	7	120.P.../121.P....	10	116.P....
2	101.C.... 102.C.....	5	204.G.00.90	8	116.R....	11	156.E.85.20/ 151.S.85.20
3	156.E.../156.E.35.. 151.S.35.20	6	204.S.00.20	9	118.C.../121.C....	12	216.M....

## MANOVRA CON ARGANO A FUNE

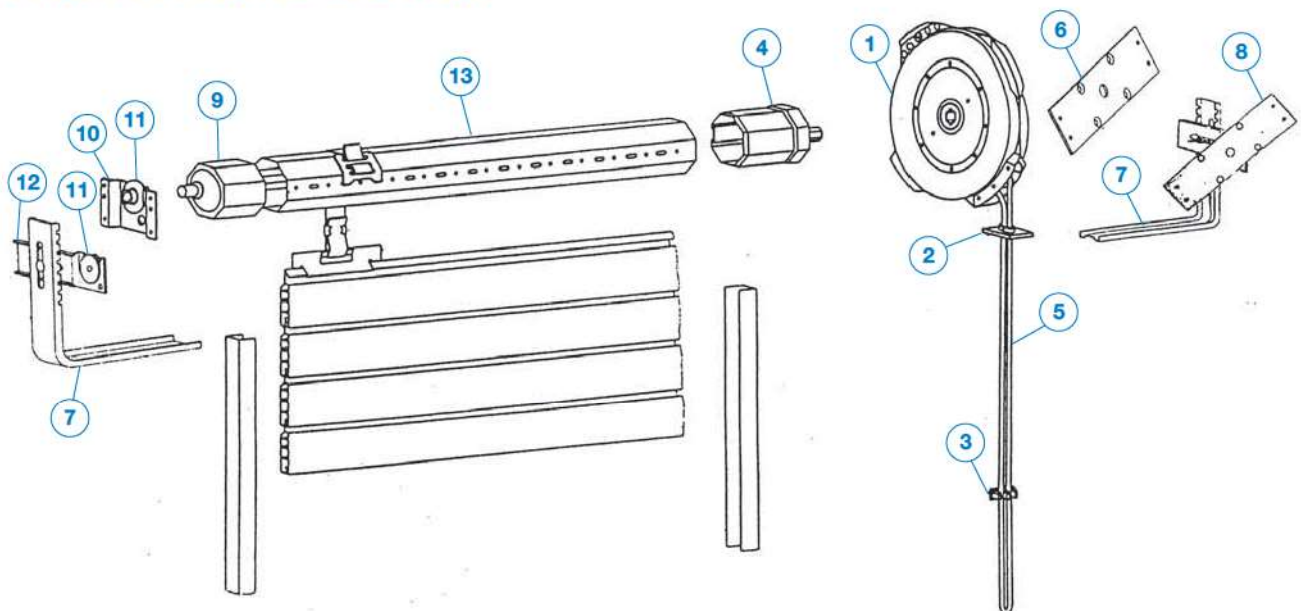
### METAL ROPE WINCH OPERATION



1	360.A....+360.P....	4	360.F....	7	360.P...20	10	118.C..../121.C....
2	360.C....	5	360.T....	8	160.S..../161.S....	11	118.C.RF.20
3	360.M....	6	360.S.00.90	9	160.C..../161.C....	12	116.R....

## MANOVRA A CORDONE

### TWIST WINCH OPERATION

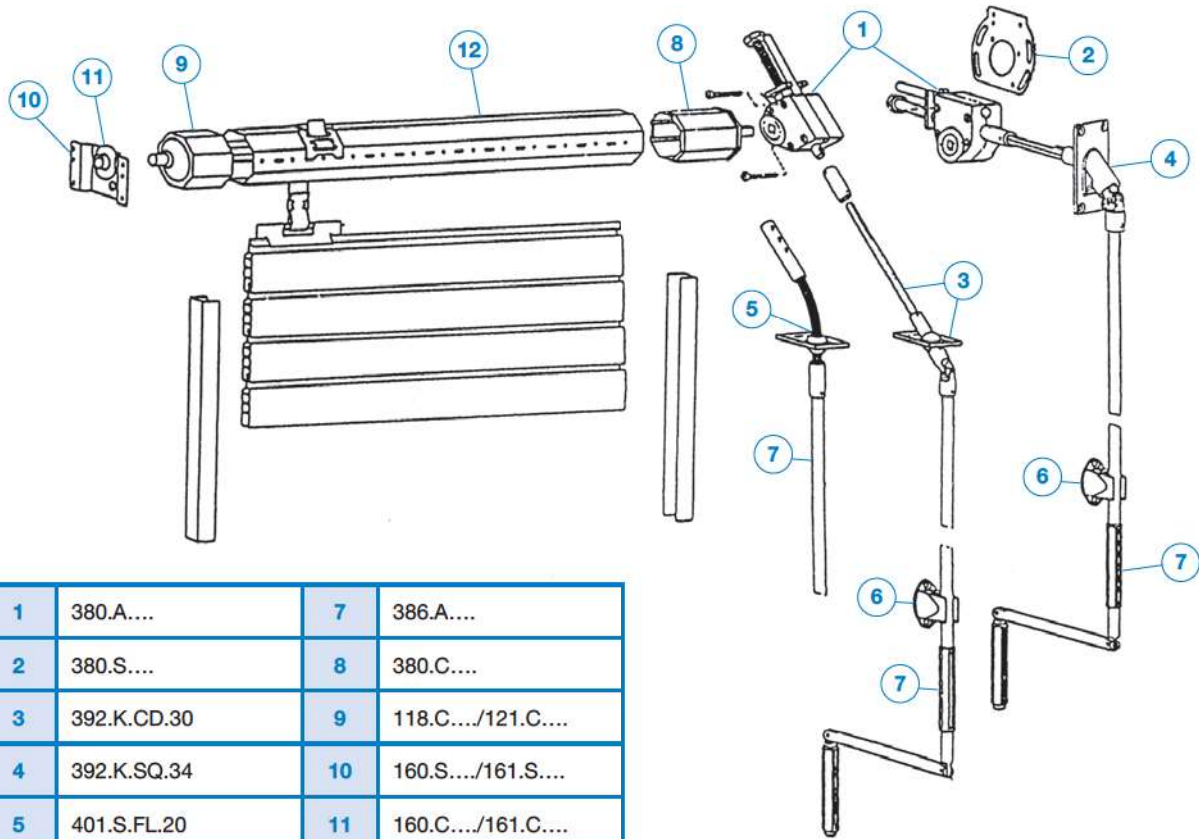


1	410.A.AR... +410.C.AR....	4	410.C.E....	7	165.S..../166.S....	10	160.S..../161.S....
2	410.G.AR.../410.G.3R...	5	410.C.AR....	8	410.P.DA.20	11	160.C..../161.C....
3	410.F.AR....	6	410.P.AR.20	9	118.C..../121.C....	12	165.M....
						13	116.R....



## MANOVRA CON ARGANO "MONACO"

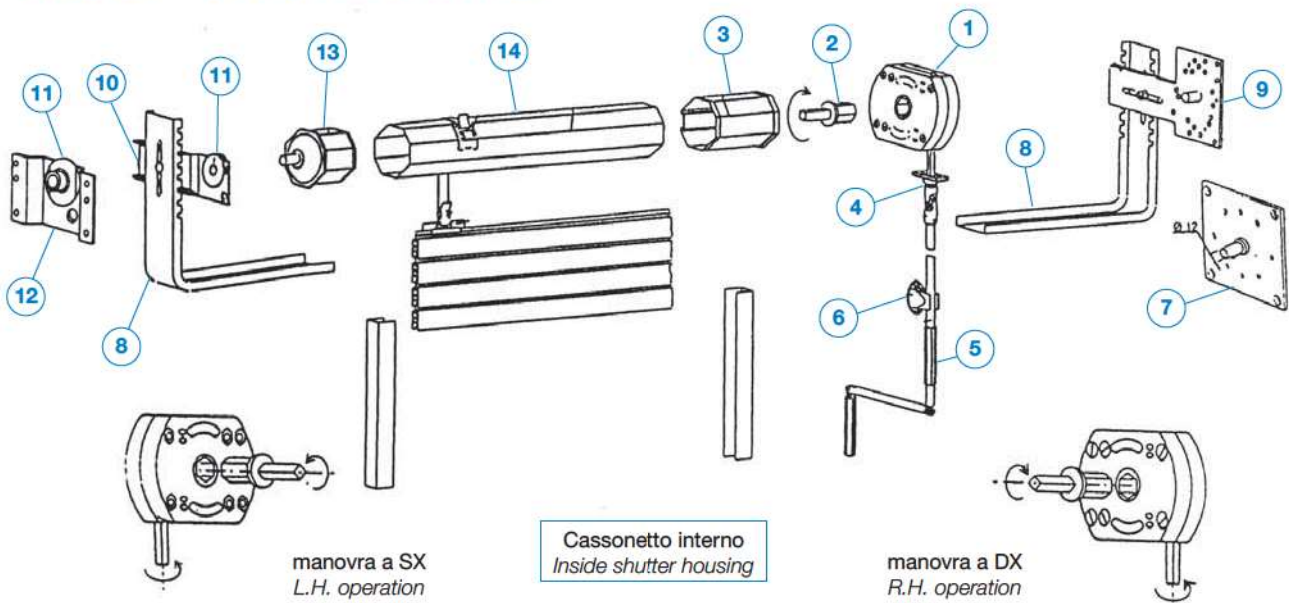
### "MONACO" WINCH OPERATION



1	380.A....	7	386.A....
2	380.S....	8	380.C....
3	392.K.CD.30	9	118.C.../121.C....
4	392.K.SQ.34	10	160.S.../161.S....
5	401.S.FL.20	11	160.C.../161.C....
6	386.F....	12	116.R....

## MANOVRA CON ARGANO "SYDNEY"

### "SYDNEY" WINCH OPERATION



manovra a SX  
L.H. operation

Cassonetto interno  
Inside shutter housing

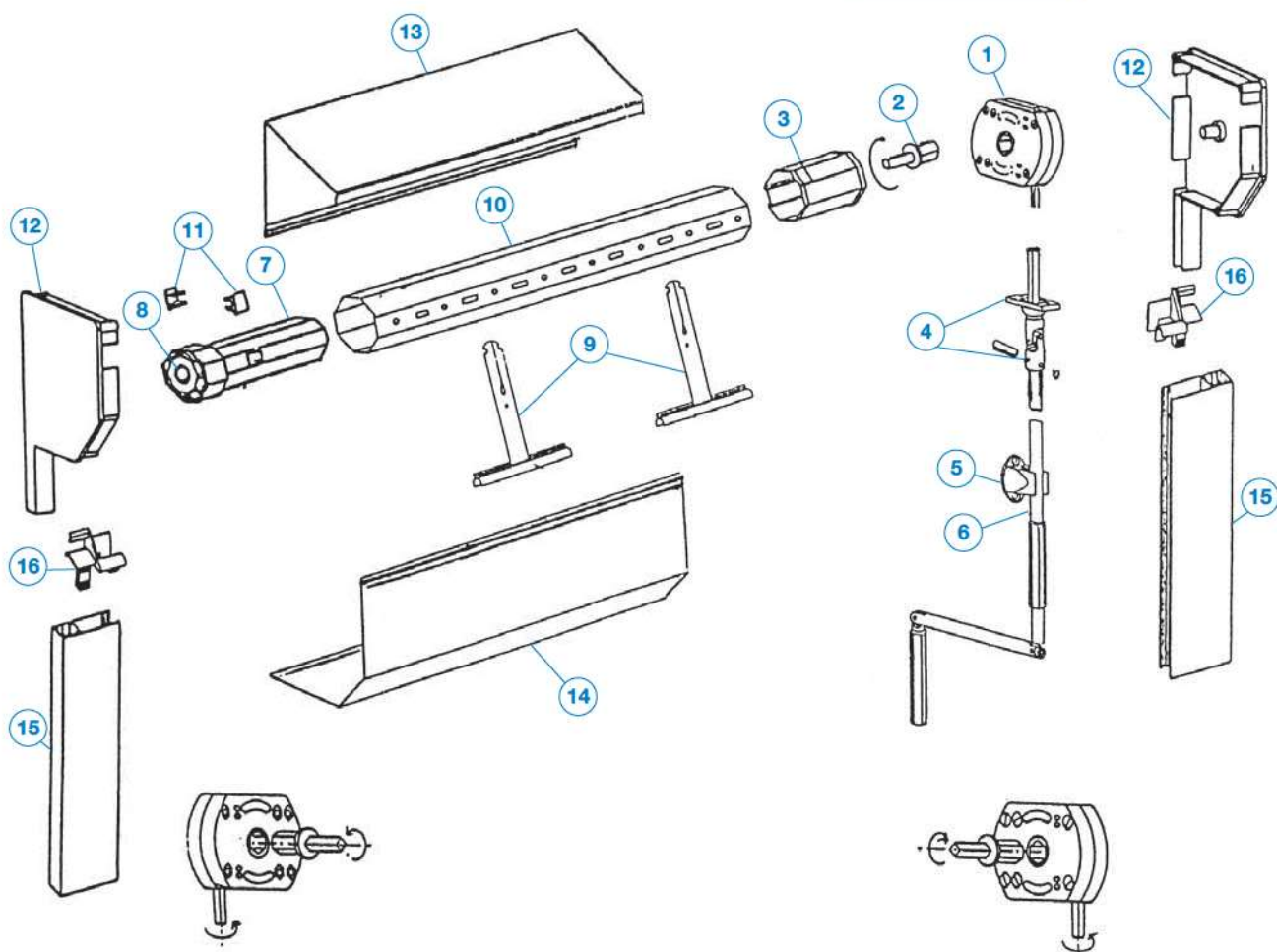
manovra a DX  
R.H. operation

1	384.A....	5	386.F....	9	165.M.AP.20	12	161.S....
2	386.E.SY.70	6	386.A....	10	165.M....	13	118.C.../121.C.... 250.C.12.20
3	380.C.F3.90 / 385.C.F3.90	7	384.P.SY.20	11	161.C....	14	116.R.../250.R...
4	385.S.08...	8	165.S.../166.S....				

# MANOVRA CON ARGANO "SYDNEY"

## "SYDNEY" WINCH OPERATION

Cassonetto interno  
Inside shutter housing



manovra a SX  
L.H. operation

manovra a DX  
R.H. operation

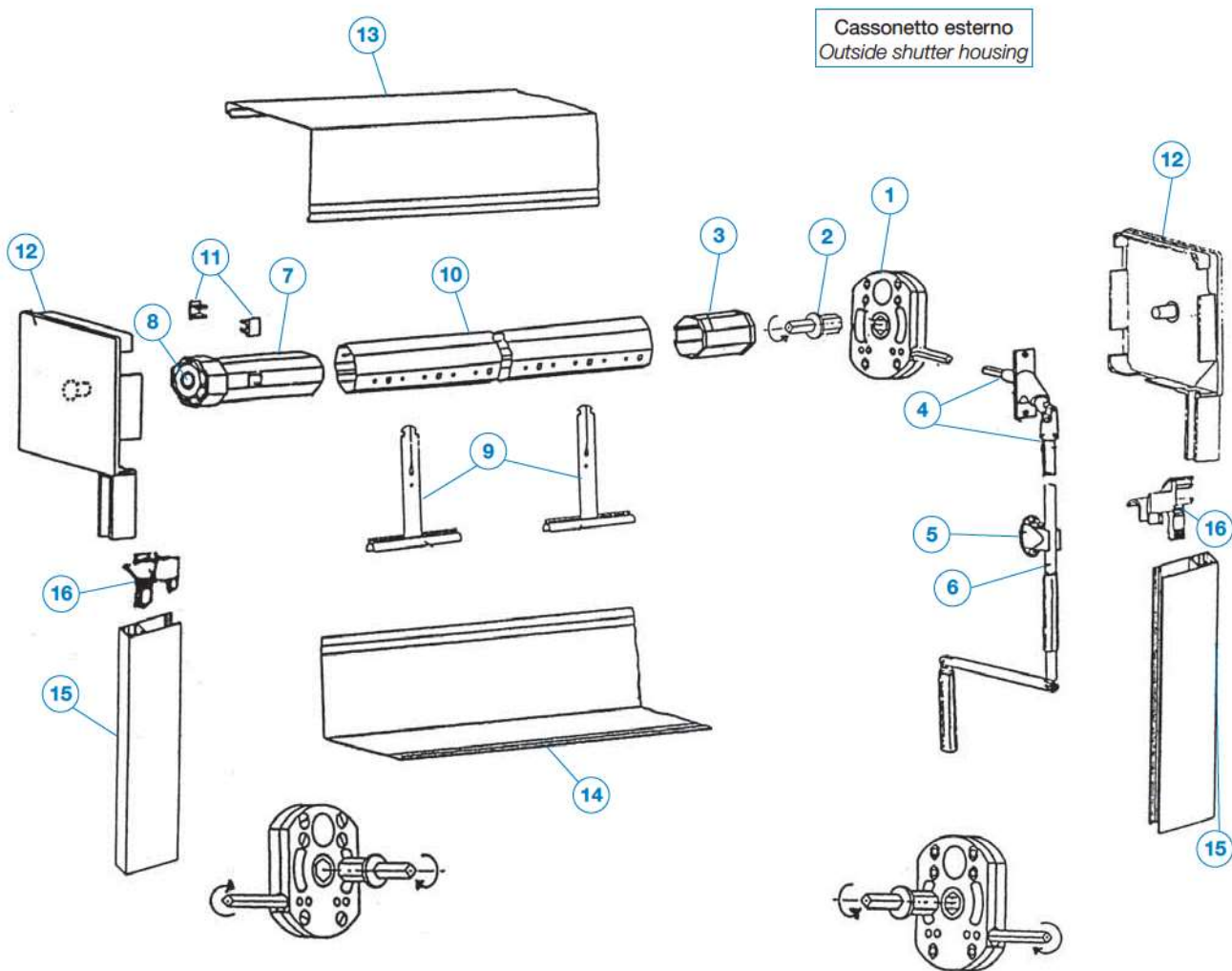
1	384.A.S....	4	385.S.08.34 / 385.S.08.30	7	250.C.60.90 / 250.M.00.90	9	216.M....
2	386.E.SY.70	5	386.F.00...	8	250.F.G8.20 / 250.N.G8.20	10	116.R.../ 250.R....
3	380.C.F3.90 / 385.C.F3.90	6	386.A.....				

11	Z.285MC090	Clip di battuta rullo / stop roller clip
12	Z.280S___/ Z.280F___	fianchi alluminio 45° (1 paio) / 45° aluminium end-caps (1 pair) fianchi alluminio 90° (1 paio) / 90° aluminium end-caps (1 pair)
13	Z.280PA__	Profilo alto alluminio / aluminium upper profile
14	Z.280PS__ Z.280PB__	Profilo basso alluminio 45° / 45° aluminium lower profile Profilo basso alluminio 90° / 90° aluminium lower profile
15	Z.281_14_/ Z.281_09_/ Z.281_L9_	Guida alluminio per stecca 14 mm / aluminium guide rail for 14 mm slat Guida alluminio per stecca 9 mm / aluminium guide rail for 9 mm slat Guida alluminio con aletta per stecca 9 mm / aluminium guide rail with tab for 9 mm slat
16	Z.282E14_/ Z.282E09_	Inviti in plastica per stecca 14 mm (1 paio) / plastic entry guide for 14 mm slat (1 pair) Inviti in plastica per stecca 9 mm (1 paio) / plastic entry guide for 9 mm slat (1 pair)



# MANOVRA CON ARGANO "SYDNEY"

## "SYDNEY" WINCH OPERATION



Cassonetto esterno  
Outside shutter housing

manovra a SX  
L.H. operation

manovra a DX  
R.H. operation

1	384.A.S....	4	385.S.S8.34 / 385.S.48.34	7	250.C.60.90 / 250.M.00.90	9	216.M....
2	386.E.SY.70	5	386.F.00...	8	250.F.G8.20 / 250.N.G8.20	10	116.R.../ 250.R....
3	380.C.F3.90 / 385.C.F3.90	6	386.A.....				

11	Z.285MC090	Clip di battuta rullo / stop roller clip
12	Z.280S___/ Z.280F___	fianchi alluminio 45° (1 paio) / 45° aluminium end-caps (1 pair) fianchi alluminio 90° (1 paio) / 90° aluminium end-caps (1 pair)
13	Z.280PA__	Profilo alto alluminio / aluminium upper profile
14	Z.280PS__ Z.280PB__	Profilo basso alluminio 45° / 45° aluminium lower profile Profilo basso alluminio 90° / 90° aluminium lower profile
15	Z.281_14_/ Z.281_09_/ Z.281_L9_	Guida alluminio per stecca 14 mm / aluminium guide rail for 14 mm slat Guida alluminio per stecca 9 mm / aluminium guide rail for 9 mm slat Guida alluminio con aletta per stecca 9 mm / aluminium guide rail with tab for 9 mm slat
16	Z.282E14_/ Z.282E09_	Inviti in plastica per stecca 14 mm (1 paio) / plastic entry guide for 14 mm slat (1 pair) Inviti in plastica per stecca 9 mm (1 paio) / plastic entry guide for 9 mm slat (1 pair)

# ISTRUZIONI PER MONTAGGI

## ASSEMBLY INSTRUCTION

### ISTRUZIONI DI MONTAGGIO PER CONTROMOLLE - Scelta del modello

L'impiego della contromolla è necessario quando il peso dell'avvolgibile è superiore alla portata dell'organo di manovra. Per la determinazione del tipo di contromolla consultare le tabelle tecniche e i grafici che riportano la forza, la coppia e il numero di giri massimo di ogni modello.

Il sistema "a contromolla" non è applicabile se la manovra è realizzata con argano a fune o con avvolgitore.

È invece possibile l'utilizzo di questo sistema per il "tiro diretto" (movimento dell'avvolgibile a mano); in questo caso la molla dovrà compensare l'intero peso dell'avvolgibile.

#### Indicazioni di montaggio con argano ad asta

- 1 Verificare la fase di montaggio. La contromolla va montata dalla parte opposta all'organo di manovra facendo attenzione che la molla si carichi durante la discesa dell'avvolgibile (vedi fig. 1). Per invertire la fase (dx o sx) è sufficiente togliere i due anelli di arresto (seeger) e invertire le calotte (vedi fig. 2).
- 2 Montare l'organo ad asta nel cassonetto in posizione di finecorsa abbassato e, dalla parte opposta, il supporto quadrato per la contromolla (rispettare l'assialità).
- 3 Ruotare l'asta dell'organo come per sollevare, facendo fare all'asse centrale un numero di giri leggermente superiore al necessario per il sollevamento dell'avvolgibile (vedi tab. 3 a titolo indicativo).
- 4 Inserire la contromolla nel rullo e montare il sistema nel cassonetto.
- 5 Ruotare l'asta dell'organo come per abbassare fino a raggiungere il finecorsa inferiore.
- 6 Agganciare l'avvolgibile al rullo.
- 7 Verificare il corretto funzionamento.

Nel caso l'azione della molla non fosse sufficientemente "sentita" sganciare il telo, ruotare l'asta come per sollevare fino a scaricare completamente la molla, smontare il rullo e procedere come sopra (dal punto 3) facendo fare all'organo un numero maggiori di giri.

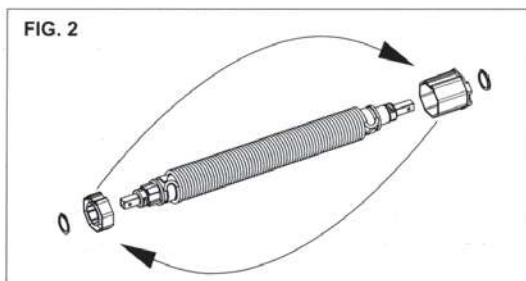
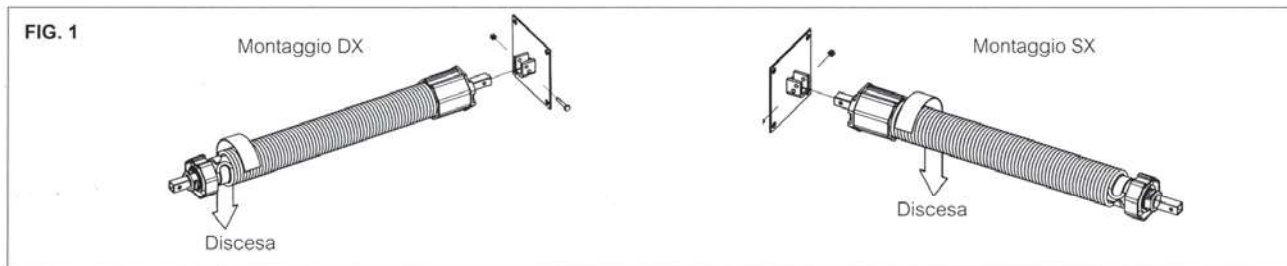
#### Indicazioni di montaggio a "tiro diretto"

- 1 Dopo aver verificato la fase (dx o sx) infilare la molla nel rullo e montare nel cassonetto.
- 2 Ruotare manualmente il rullo come per abbassare facendo fare un numero di giri uguale al necessario per il sollevamento.
- 3 Bloccare la molla inserendo la staffa di arresto in dotazione e agganciare l'avvolgibile.
- 4 Verificare il corretto funzionamento.

#### Attenzione

- Non capovolgere la fase di montaggio (si caricherebbe la molla a rovescio con conseguente rottura).
- Non caricare la molla per un numero di giri superiore a quello prescritto.
- Non utilizzare contromolle con portata superiore a quella dell'organo o comunque non caricarle oltre la portata dell'organo.

SI DECLINA OGNI RESPONSABILITÀ QUALORA NON VENGANO RISPETTATE LE ISTRUZIONI INDICATE.



		40	60	70
Ø rullo (mm)				
spessore telo (mm)				
altezza m	1,0	4,6	3,5	3,3
	1,5	5,9	4,5	4,3
	2,0	7,0	5,4	5,2
	2,5	8,0	6,2	5,9
	3,0	8,9	6,9	6,7
	3,5	9,8	7,6	7,3

### ASSEMBLY INSTRUCTIONS FOR ASSIST SPRINGS - Selection of the item

The use of assist springs is necessary when the rolling shutter weight is bigger than the load capacity of the gear box. To determine which kind of spring to use, consult the tables of technical information and the diagrams which show the strength, the torque and the maximum number of revolutions for each model.

The assist spring system is not applicable if the movement is by cable winch or strap coiler.

This system may be used instead for "direct tension" (movement of the shutter by hand); in this case the spring has to compensate the entire weight of the rolling shutters.

#### Instructions for assembly with rod winch

1. Check the position of assembly. The assist spring must be assembled on the opposite side to the hand crank gear making sure that the spring is tightened during the lowering of the rolling shutter (see picture 1). To reverse the position, (right or left) it is sufficient to remove the two blocking rings (seeger) and invert the covers (see picture 2).
2. Assemble the hand crank gear in the casing in the end position for the lowered shutter and from the opposite side, the square support for the spring (check alignment).
3. Turn the hand crank gear in the direction for raising a number of turns slightly more than necessary for raising the shutter (see table 3 for approximate number).
4. Insert the spring in the tube and assemble the system in the casing.
5. Rotate the hand crank gear in the direction of lowering until the lower limit is reached.
6. Fix the rolling shutters onto the tube.
7. Check for correct operation.

If the action of the spring is not felt sufficiently, detach the material, rotate the hand crank gear in the direction for raising until the spring is completely loose, dismantle the tube and proceed as above (from point 3) turning the hand crank gear several times.

#### Instructions for direct tension assembly

1. After checking the position (right or left) insert the spring in the tube and assemble it in the casing.
2. Turn the tube by hand in the direction of lowering and make the number of rotations necessary for raising.
3. Block the spring by inserting the blocking shaft provided and fix the rolling shutter.
4. Check for correct working.

#### Caution

- Do not invert the assembly position (the spring will be tightened in the wrong direction and break as a result).
- Do not tighten the spring by a number of turns bigger than required.
- Do not use counterweight springs having a capacity bigger than that of the gear and do not tighten them beyond the load capacity of the gear.

WE DO NOT ACCEPT LIABILITY IF THE ABOVE INSTRUCTIONS ARE NOT FOLLOWED.



# SISTEMA "EUROBLOCK"

## SCelta DEL MODELLO E DEL NUMERO DI EUROBLOCK

Consultare il grafico (fig. B) per determinare quale modello utilizzare in base alle distanze D (asse rullo - esterno guida) e H (asse rullo - ultima stecca).

Per la scelta del numero di molle da impiegare occorre valutare che devono essere montate ad una distanza non superiore a 80 cm tra loro, con le due esterne a non più di 10 cm di distanza dalla fine dell'avvolgibile. Si consiglia inoltre di verificare che non vi siano più di 30 kg. di carico su ogni molla.

ATTENZIONE: il sistema è efficace solo se il rullo è bloccato (es.: manovra a motore o argano ad asta)

## INDICAZIONI DI MONTAGGIO

Con l'avvolgibile in posizione completamente abbassata e il sistema di manovra nella sua posizione di finecorsa inferiore, verificare che l'ultima stecca sia contenuta all'interno delle guide. Posizionare gli anelli adattatori orientandoli come indicato in figura A. Agganciare il dispositivo di bloccaggio in modo che sia nella posizione di inarcamento negativo (lasciare un po' di gioco per tollerare eventuali piccoli spostamenti della posizione di finecorsa).

## SELECTING THE TYPE AND THE NUMBER OF EUROBLOCK

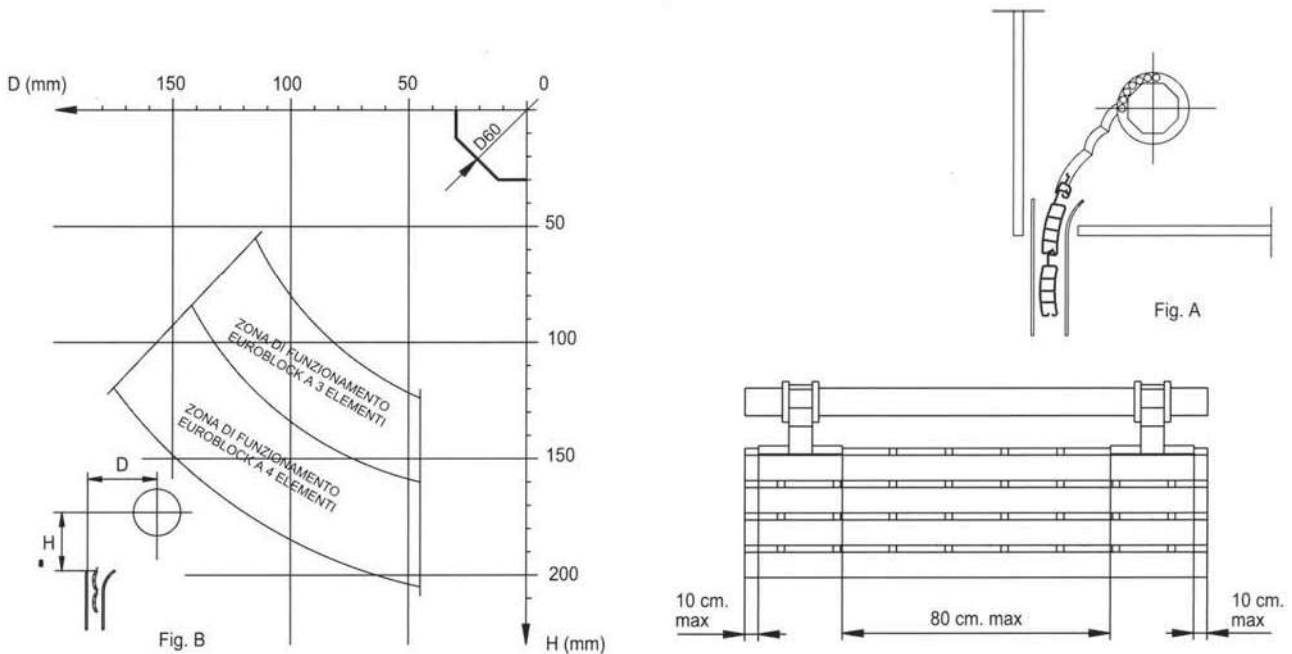
Consult the graph (fig. B) in order to determine which model to use on the basis of the distance D (tube axis - guide rail outer edge) and H (tube axis - last slat).

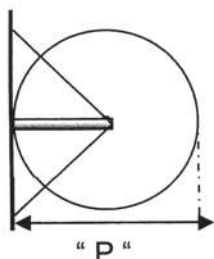
To choose the number of springs to use, you need to decide whether they must be assembled at a distance not over 80 cm apart with the two outside ones not more than 10 cm from the end of the rolling shutters. It is also advisable to check that the load on each spring is not more than 30 kg.

WARNING: The system is effective only if the rolling shutters movement is blocked (e.g. operation by motor or hand crank gear).

## ASSEMBLING PROCEDURE

With the rolling shutters completely lowered and the raising and lowering system in the lower end position, check that the last slat is inside the guide rails. Position the adapter rings turning them as shown in fig. A. Hook up the blocking mechanism so that it is the negative bending position (leave a little tolerance for any small changes in the end position).





## TABELLA INGOMBRI E UTILIZZO CINTINI PER AVVOLGITORI

STRAP COILER CAPACITY AND INSIDE MEASURES (table of use)

"P" ingombro cintino avvolto	tamburo molla		capacità effettiva di richiamo cintino nell'ingombro "P"	tipo cintino largh.x spess (mm.)	codice cintino
	diametro	capacità nominale/ mt.			
125 mm.	75 mm.	(5)	mt. 5,5	PP 20 x 1,3	255.C.20.GA
			mt. 5,5	BS 20 x 1,3	257.C.20.BS
			mt. 5,0	BS 21 x 1,5	257.C.21.BS
			mt. 4,3	BS 22 x 1,75	257.C.22.BS
140/143 mm.	75 mm.	(4)	mt. 4,3	BS 22 x 1,75	257.C.22.BS
			mt. 4,4	TMS 21,5 x 1,75	255.C.21.RB
			mt. 4,2	MLB 22 x 1,7	255.C.22.17
			mt. 4,4	SI 22 x 1,8	256.C.22.SI
	75 mm.	(5)	mt. 3,9	MLB 22 x 2	255.C.22.ML
			mt. 5,7	BS 22 x 1,75	257.C.22.BS
			mt. 5,7	MLB 22 x 1,7	255.C.22.17
			mt. 5,7	BS 22 x 1,75	257.C.22.BS
84 mm.	(6)	mt. 5,7	MLB 22 x 1,7	255.C.22.17	
		mt. 5,7	MLB 22 x 1,7	255.C.22.17	
160/165 mm.	75 mm.	(5)	mt. 5,8	MLB 22 x 1,7	255.C.22.17
			mt. 6,3	MLB 22 x 1,7	255.C.22.17
	84 mm.	(6)	mt. 5,9	MLB 22 x 2	255.C.22.ML
			mt. 6,5	BS 22 x 1,75	257.C.22.BS
			mt. 6,2	SI 22x 1,8	256.C.22.SI
			mt. 6,2	TMS 21,5 x 1,75	255.C.21.RB
	98 mm.	(8)	mt. 8,4	MLB 22 x 2	255.C.22.ML
			mt. 8,5	MLB 22 x 1,7	255.C.22.17
mt. 8,6			SI 22 x 1,8	256.C.22.SI	
mt. 8,6			TMS 21,5 x 1,75	255.C.21.RB	
<b>PER RIDUTTORI</b>					
140/143 mm.	75 mm.	(9)	mt. 9,2	PP 20 x 1,2	255.C.20.**
			mt. 9,0	PP 20 x 1,3	255.C.20.GA
			mt. 9,0	BS 20 x 1,3	257.C.20.BS
			mt. 7,9	BS 21 x 1,5	257.C.21.BS
	84 mm.	(10)	mt. 8,8	PP 20 x 1,2	255.C.20.**
			mt. 8,2	PP 20 x 1,3	255.C.20.GA
160/165 mm.	84 mm.	(10)	mt. 8,2	BS 20 x 1,3	257.C.20.BS
			mt. 9,8	PP 20 x 1,2	255.C.20.**
			mt. 10,2	PP 20 x 1,3	255.C.20.GA
			mt. 10,2	BS 20 x 1,3	257.C.20.BS
			mt. 9,2	BS 21 x 1,5	257.C.21.BS
			mt. 8,3	BS 22 x 1,75	257.C.22.BS
			mt. 8,2	MLB 22 x 1,7	255.C.22.17
			mt. 8,3	TMS 21 x 1,75	255.C.21.RB
180/190 mm.	84 mm.	(10)	mt. 10,5	TMS 21 x 1,75	255.C.21.RB
			mt. 10,5	MLB 22 x 1,7	255.C.22.17
	98 mm.	(12)	mt. 10,5	TMS 21 x 1,75	255.C.21.RB
			mt. 10,5	MLB 22 x 1,7	255.C.22.17
210/220 mm.	98 mm.	(12)	mt. 12,8	TMS 21 x 1,75	255.C.21.RB
			mt. 12,5	MLB 22 x 1,7	255.C.22.17
			mt. 12,5	BS 22 x 1,75	257.C.22.BS
			mt. 12,4	SI 22 x 1,8	256.C.22.SI

\*\* : 10=bianco - 11=avorio - 12=grigio - 13=testa di moro