HI®

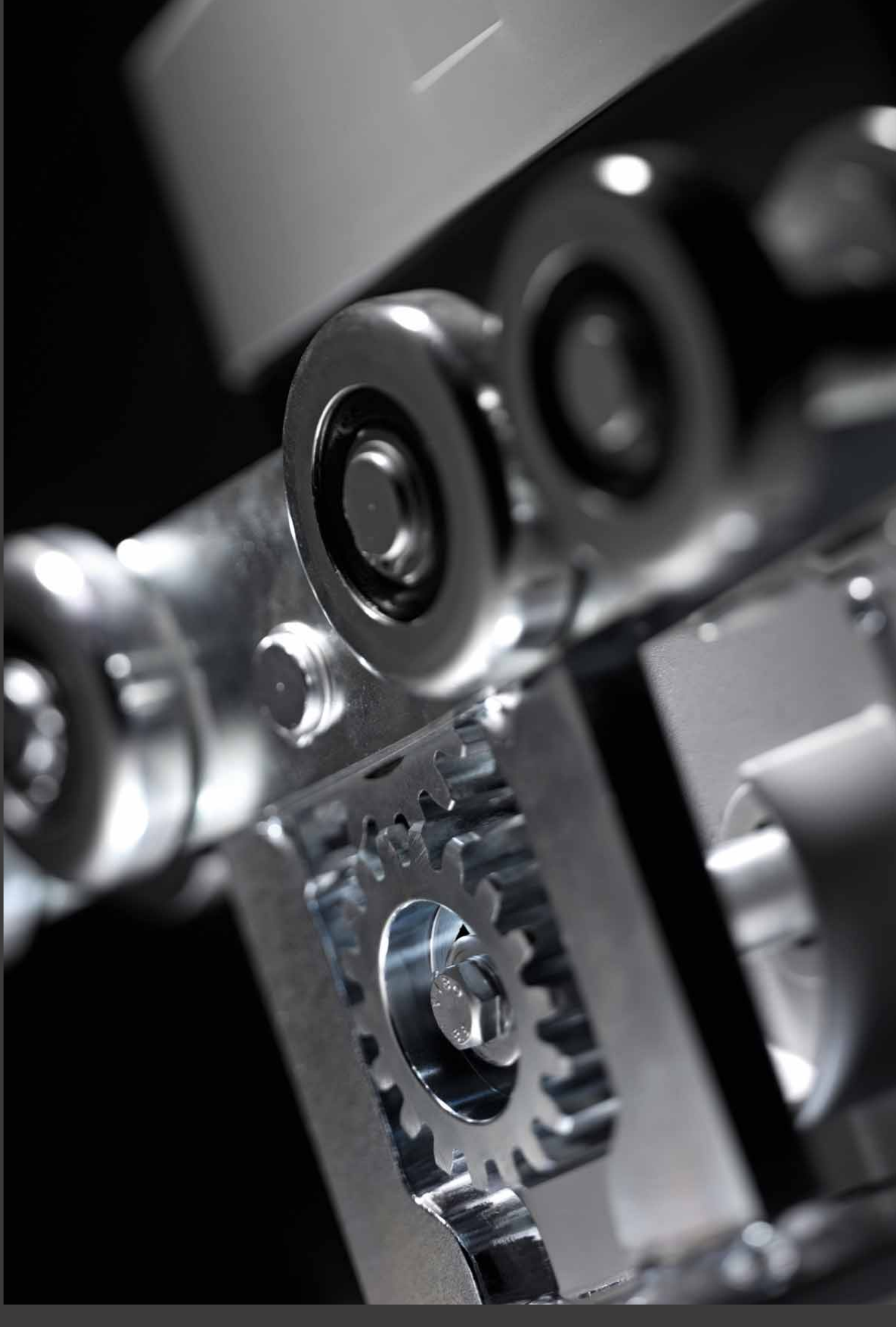
MOTIONS

OPENING SOLUTIONS

MADE IN ITALY



CATALOGO | CATALOGUE



HI MOTIONS
OPENING SOLUTIONS

INDICE
INDEX



04 INTRODUZIONE
INTRO

05 CONFIGURATORE
CONFIGURATOR

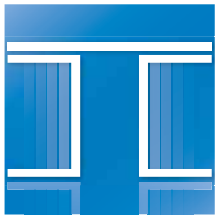
09 CANCELLI SCORREVOLI AUTOPORTANTI
CANTILEVER SLIDING GATES

10 INSTALLAZIONE E DIMENSIONAMENTO CANCELLI AUTOPORTANTI
CANTILEVER GATES INSTALLATION AND MEASUREMENT

14 GUIDA ALL'INSTALLAZIONE
INSTALLATION GUIDE



33 CANCELLI SCORREVOLI SU ROTAIA
SLIDING GATES ON TRACK



53 PORTONI INDUSTRIALI
INDUSTRIAL DOORS



63 CANCELLI AD ANTA
SWING GATES

STORIA
HISTORY

BENINCÀ · HOLDING

Il gruppo **BENINCA' HOLDING** in più di 30 anni ha fatto della specializzazione e della qualità il proprio punto di forza diventando in pochi anni uno dei principali player nel mercato internazionale dell'automazione.

HI MOTIONS è l'azienda del gruppo che porta con sé tutto il know how **BENINCÀ** con in più un forte orientamento al mercato e al cliente, principale interlocutore di tutte le scelte.

Opening solutions è il pay off che sintetizza la mission dell'azienda: offrire soluzioni per tutti i tipi di chiusure garantendo affidabilità, ma soprattutto flessibilità.

HI MOTIONS
OPENING SOLUTIONS

In more than 30 years, the specialization and the quality have become the strong point of the **BENINCÀ HOLDING**: this group is now one of the biggest player in the international automation market.

HI MOTIONS is the company of the group with all the **BENINCÀ**'s know how with , in addition, a strong focus on the market and on the customer, which is the main figure in all its choices.

The company's pay off "opening solutions" says it all about its mission: offer solutions for all professional locking systems, with quality and, most of all, with flexibility.

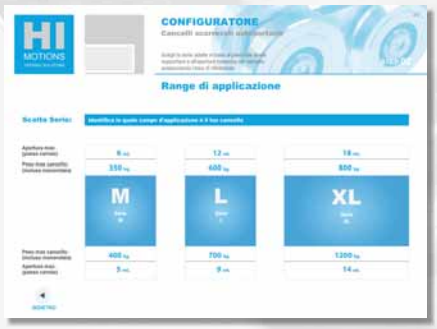
MADE IN ITALY

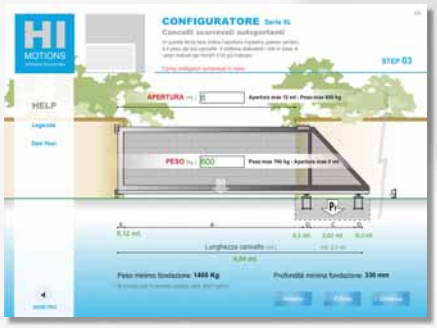
- *HI MOTIONS da sempre considera la qualità e l'affidabilità del prodotto elementi essenziali per garantire il massimo servizio ai propri clienti. Per questo nel proprio processo produttivo ha fatto delle scelte precise in termini di qualità. Tutti i prodotti sono progettati e realizzati interamente in Italia, questo consente all'azienda di garantire al cliente un prodotto in grado di rispondere alle precise esigenze e richieste del mercato in termini di affidabilità e professionalità. Il made in Italy per HI MOTIONS dunque è non solo un elemento distintivo, ma una mission che perseguiamo ogni giorno anche attraverso il servizio offerto al cliente nella progettazione di servizi e sistemi personalizzati.*

- *HI MOTIONS has always regarded product quality and reliability as essential elements in guaranteeing top-level service for its customers. For this reason, the company has implemented some specific adjustments to its production process in order to enhance quality. All the products are designed and manufactured entirely in Italy, therefore the company is able to guarantee customers a product capable of satisfying specific requirements and market requests in terms of reliability and professionalism. For HI MOTIONS, therefore, "made in Italy" quality is not only a distinctive element, but a mission we pursue day after day, also through the design of customised services and systems offered to customers.*

SERVIZIO
SERVICE









Il servizio per **HI MOTIONS** è innanzitutto dialogo.
Il cliente è per noi un partner, ma soprattutto il principale portavoce del brand sul territorio.
Per questo motivo l'azienda mette a disposizione strumenti in grado di supportare i clienti sia nella scelta che nella conoscenza della gamma prodotti, al fine di affiancarli quotidianamente nella loro attività.
Il configuratore nasce con queste importanti premesse: essere uno strumento professionale, ma facile da utilizzare grazie ad un approccio passo passo.
Uno strumento disponibile on line che attraverso l'inserimento di parametri e dati consente di configurare il proprio cancello ottenendo una lista completa di specifiche tecniche e accessori.
Sempre on line l'azienda offre inoltre ai propri clienti un servizio di consulenza sia per la progettazione e la realizzazione di impianti particolari che per fornire informazioni utili, consigli e suggerimenti.

• • • • • • • • • •

For **HI MOTIONS**, the "service" is first of all "communication". The customer is for us the partner, but above all the main spokesperson of the brand in the territory.
For this reason the company supports its customers both in the choice and in the knowledge of its products.
The configurator grows out of these important premises: it is a professional instrument, available online and easy to use thanks to its step-by-step approach. With the insertion of data and parameters, this tool configures the cantilever gate and indicates the related accessories necessary to install it.
HI MOTIONS offers its customers a consulting service for the design and creation of special systems, or for providing useful information, advice and suggestions. Contact the company to discover all the potential solutions and applications for **HI MOTIONS** products, or consult on-line the configurator designed to guide customers in selecting the most suitable product and solution for their requirements!

http://www.himotions.it/configuratore/index.html



LIMIT4

BARRIERA MANUALE
MANUAL BARRIER





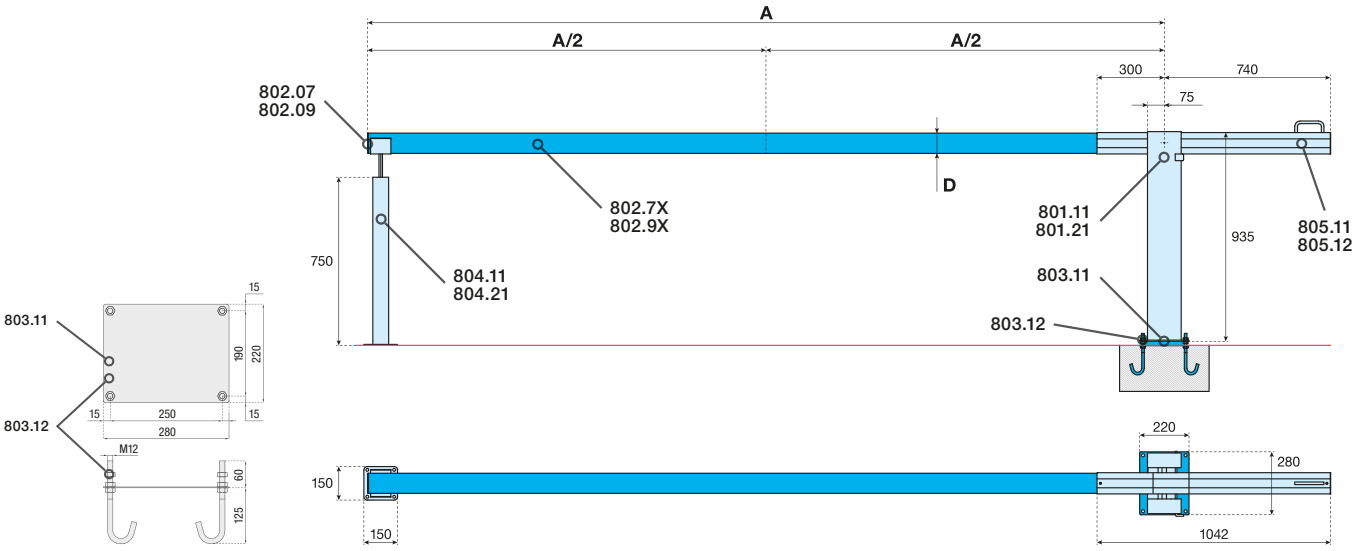




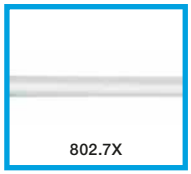
- Barriera manuale per passaggi da 2,5 m a 6,5 m
- Armoniosa ed elegante, allo stesso tempo solida e robusta
- Contrappeso posto all'interno dell'asta
- Molto facile da assemblare e veloce da installare
- Disponibile con asta tonda da 70mm e da 90mm
- Due versioni: acciaio verniciato o inox
- Un unico telaio (801.11 o 801.21) sia per l'asta da 70mm che per quella da 90mm
- Una sola leva in acciaio inox per bloccare l'asta sia in chiusura che in apertura tramite un lucchetto
- Finecorsa regolabile in chiusura
- Pratica maniglia posta alla fine dell'asta per facilitare le manovre
- Asta con diametro da 70mm disponibile nelle lunghezze da 2,5m, 4m e 5m
- Asta con diametro da 90mm disponibile nelle lunghezze da 2,5m, 3,2m, 4m, 5m e 6,5m
- Può essere fissata su un'apposita contropiastra a 4 fori

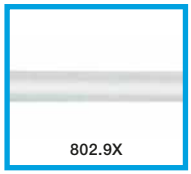
- Manual Barrier from 2,5 m up to 6,5 m passages
- Stylish and elegant but really solid and sturdy too
- Counterbalanced by weights hidden inside the arm holder
- Very easy to assemble and quick to install
- Available with 70mm and 90mm round bar
- Two versions: painted steel or stainless steel
- One unique chassis (801.11 or 801.21) for both 70mm and 90mm bars
- Just one stainless steel lever to block it in both close or open position through a padlock
- Adjustable in the closing positions by means of a screw
- Friendly handle at the end of the bar's holder to facilitate operations
- 2,5m, 4m and 5m are available for 70mm diam. bars
- 2,5m, 3,2m, 4m, 5m and 6,5m arms are available for 90mm diam. bars
- Can be fit on a dedicated four holes counterplate

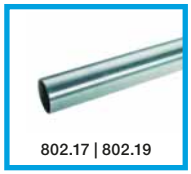
A (mm)	D (mm)	PESO ASTA (kg) BAR WEIGHT (kg)	CONTRAPPESO SERIE 805 SERIES 805 COUNTERWEIGHT		CONTRAPPESO IN CEMENTO CONCRETE COUNTERWEIGHT	
			CONTRAPPESI NECESSARI AL BILANCIAMENTO COUNTERWEIGHTS REQUIRED FOR THE BALANCE	BILANCIAMENTO BALANCING	PESO NECESSARIO AL BILANCIAMENTO WEIGHT NECESSARY FOR THE BALANCE	BILANCIAMENTO BALANCING
2,0	70	2,30	1pz - 805.11	BILANCIATA BALANCED	4	BILANCIATA BALANCED
2,5	70	2,90	1pz - 805.11 / 1pz - 805.12		7,5	
3,0	70	3,45	1pz - 805.11 / 2pz - 805.12		10	
3,5	70	4,05	1pz - 805.11 / 4pz - 805.12		12,5	
4,0	70	4,60	1pz - 805.11 / 5pz - 805.12		20	NON BILANCIATA UNBALANCED
4,5	70	5,20	1pz - 805.11 / 8pz - 805.12		25	
5,0	70	5,80	1pz - 805.11 / 10pz - 805.12		35	
2,0	90	3,00	1pz - 805.11	BILANCIATA BALANCED	4	BILANCIATA BALANCED
2,5	90	3,75	1pz - 805.11 / 2pz - 805.12		8	
3,0	90	4,50	1pz - 805.11 / 4pz - 805.12		15	
3,5	90	5,25	1pz - 805.11 / 7pz - 805.12		20	NON BILANCIATA UNBALANCED
4,0	90	6,00	1pz - 805.11 / 10pz - 805.12		25	
4,5	90	6,75	1pz - 805.11 / 12pz - 805.12		35	
5,0	90	7,50	1pz - 805.11 / 13pz - 805.12	NON BILANCIATA UNBALANCED	40	
5,5	90	8,20	1pz - 805.11 / 13pz - 805.12		50	
6,0	90	9,00	1pz - 805.11 / 13pz - 805.12		60	
6,5	90	9,70	1pz - 805.11 / 13pz - 805.12		80	



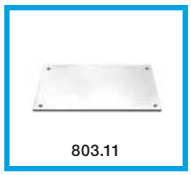

801.11 | 801.21


802.7X


802.9X

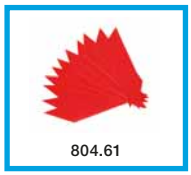

802.17 | 802.19


802.07 | 802.09


803.11


803.12


804.11 | 804.21


804.61


805.11


805.12

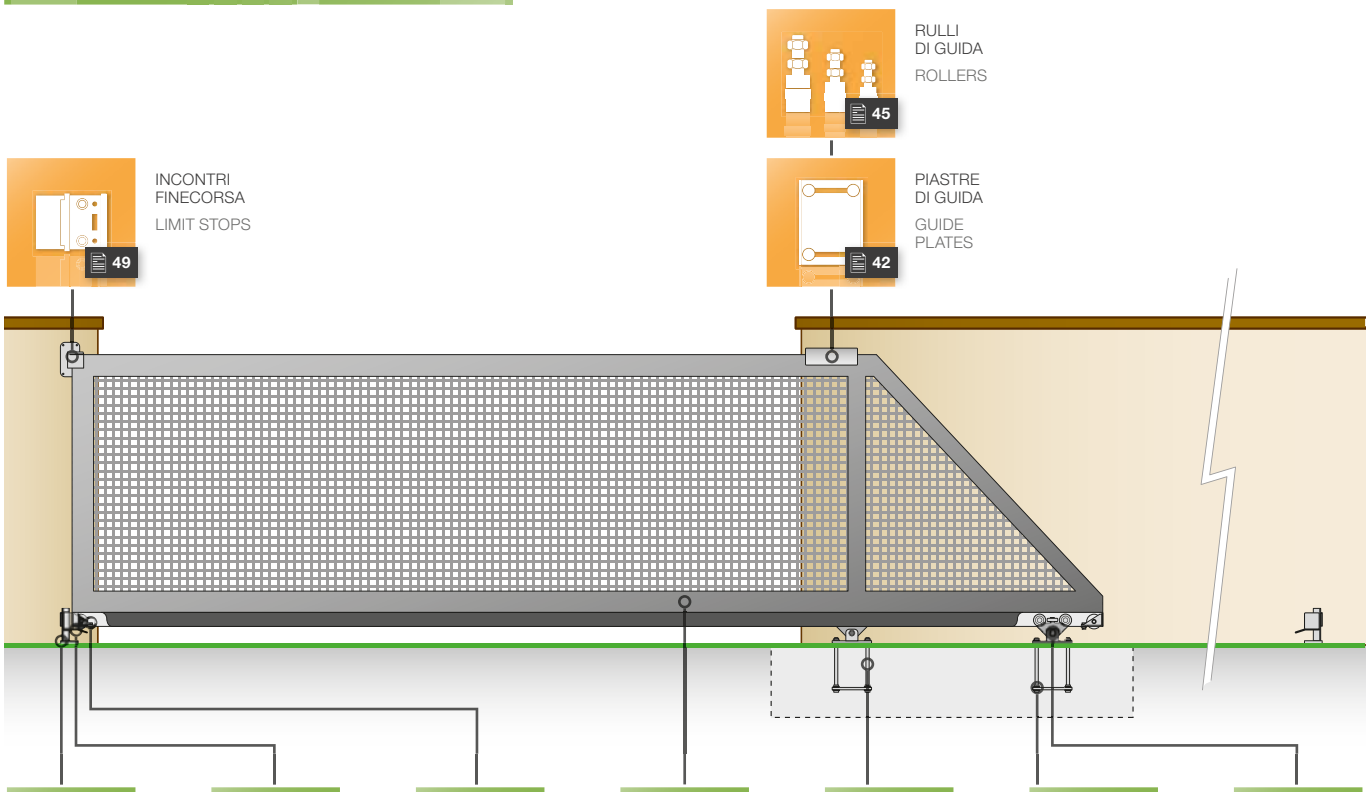
00101100	DESCRIZIONE DESCRIPTION	FINITURA FINISHING	
801.11	Telaio in acciaio verniciato con porta asta incluso Painted steel barrier's chassis with arm holder included	Verniciatura grigio RAL7021 RAL7021 Gray painting	1
801.21	Telaio in acciaio inox con porta asta incluso Stainless steel barrier's chassis with arm holder included	Inox Stainless steel	1
802.07	Tappo per tubo Ø70x2mm in plastica Plastic cap for bar Ø70x2mm	Nero Black	1
802.09	Tappo per tubo Ø90x2mm in plastica Plastic cap for bar Ø90x2mm	Nero Black	1
802.17	Giunzione in alluminio per asta da 70mm Aluminum joint for 70mm round bar	Alluminio Aluminum	1
802.19	Giunzione in alluminio per asta da 90mm Aluminum joint for 90mm round bar	Alluminio Aluminum	1
802.72	Asta in alluminio da 2,5m (diam 70mm) 2,5m aluminum bar (70mm diam)	Verniciatura bianco RAL9010 RAL9010 White painting	1
802.74	Asta in alluminio da 4,0m (diam 70mm) 4,0m aluminum bar (70mm diam)	Verniciatura bianco RAL9010 RAL9010 White painting	1
802.75	Asta in alluminio da 5,0m (diam 70mm) 5,0m aluminum bar (70mm diam)	Verniciatura bianco RAL9010 RAL9010 White painting	1
802.92	Asta in alluminio da 2,5m (diam 90mm) 2,5m aluminum bar (90mm diam)	Verniciatura bianco RAL9010 RAL9010 White painting	
802.93	Asta in alluminio da 3,5m (diam 90mm) 3,5m aluminum bar (90mm diam)	Verniciatura bianco RAL9010 RAL9010 White painting	1
802.94	Asta in alluminio da 4,0m (diam 90mm) 4,0m aluminum bar (90mm diam)	Verniciatura bianco RAL9010 RAL9010 White painting	1
802.95	Asta in alluminio da 5,0m (diam 90mm) 5,0m aluminum bar (90mm diam)	Verniciatura bianco RAL9010 RAL9010 White painting	1
802.96	Asta in alluminio da 6,5m (diam 90mm) 6,5m aluminum bar (90mm diam)	Verniciatura bianco RAL9010 RAL9010 White painting	1
803.11	Piastra 4 fori di fondazione in acciaio Four holes steel foundation plate	Zincato Galvanized	1
803.12	Piastra di fondazione con set di barre filettate Foundation plate with coach screws' complete set	Zincato Galvanized	1
804.11	Appoggio fisso per asta verniciato Painted steel fixed bar's support	Verniciato grigio RAL7021 RAL7021 Gray painting	1
804.12	Appoggio fisso per asta verniciato con bloccaggio Painted steel fixed bar's support with lock-off	Verniciato grigio RAL7021 RAL7021 Gray painting	1
804.21	Appoggio fisso per asta inox Stainless steel fixed bar's support	Inox Stainless steel	1
804.61	Strisce adesive riflettenti (28x300mm) Arm's adhesives reflectors (28x300mm)	---	20
805.11	Peso da 3,0kg con barra filettata (forma cilindrica, spessore 50mm) 3,0kg weight with thread bar (cylindrical shape, 50mm thick)	Zincato Galvanized	1
805.12	Peso da 2,4kg (forma cilindrica, spessore 50mm) 2,4kg weight (cylindrical shape, 50mm thick)	Zincato Galvanized	1





CANCELLI SCORREVOLI AUTOPORTANTI

CANTILEVER SLIDING GATES



RULLI DI GUIDA
ROLLERS
45

INCONTRI FINECORSA
LIMIT STOPS
49

PIASTRE DI GUIDA
GUIDE PLATES
42

28
SUPPORTI
BRACKETS

27
INCONTRI
LIMIT STOPS

25
CARRELLI DI GUIDA
GUIDE ROLLERS

29
MONOROTAIE
TRACKS

22
TIRANTI
TIE RODS

23
PIASTRE DI FISSAGGIO
FIXING PLATES

16
CARRELLI PORTANTI
SUPPORT ROLLERS

26
TAPPI
CAPS

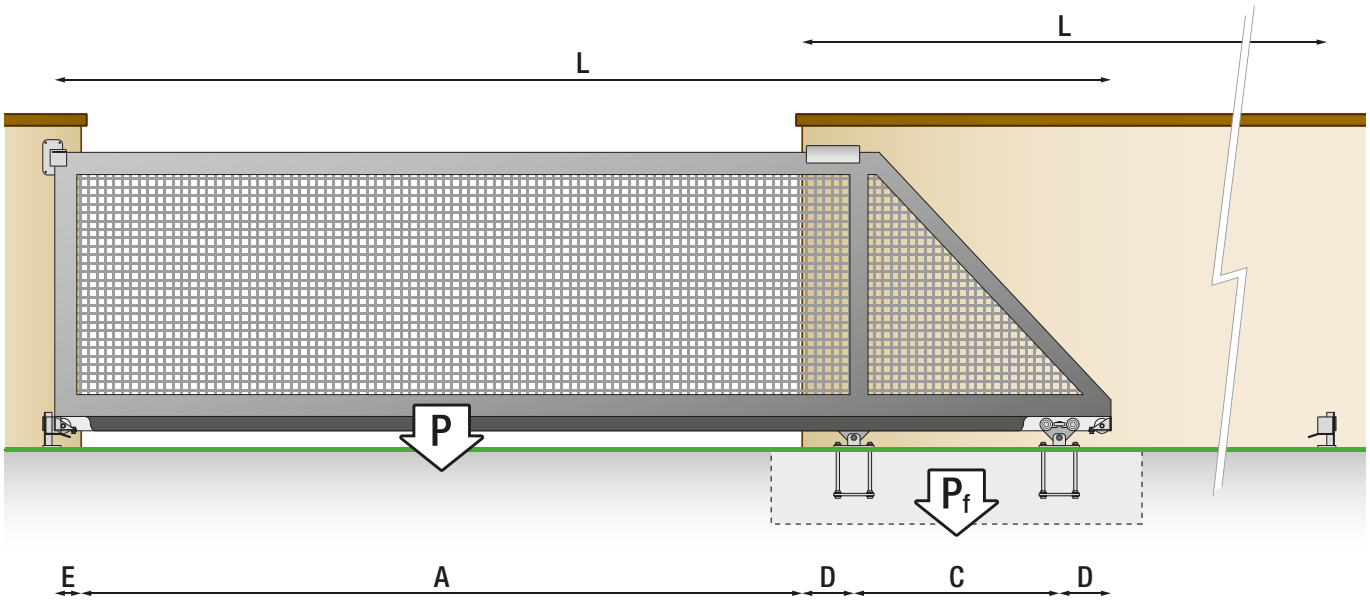
24
MENSOLE FLANGIATE
FLANGED BRACKETS

20
SISTEMA AUTOPORTANTE CON CREMAGLIERA INTERNA **"SERIE LM"**
INSIDE RACK CANTILEVER SYSTEM **"SERIE LM"**

31
KIT COMPLETI
COMPLETE SETS

30
SISTEMA AUTOPORTANTE SENZA MONOROTAIA
TRACK FREE CANTILEVER SYSTEM

INSTALLAZIONE E DIMENSIONAMENTO CANCELLI AUTOPORTANTI
CANTILEVER GATES INSTALLATION AND MEASUREMENT



LEGENDA
LEGEND

A (m) apertura per il passaggio
clear opening

P (kg) peso del cancello in kg comprendente la rotaia applicata
gate weight including track

C (m) distanza tra il centro dei due carrelli portanti
distance between the support rollers centre

D (m) spazio minimo dal centro del carrello portante all'estremità della rotaia per l'alloggiamento della ruota di supporto
minimum distance from support roller centre to track end for support roller housing

E (m) spazio minimo necessario per il posizionamento della ruota di supporto
minimum space for support wheel positioning

L (m) lunghezza totale del cancello (L=A+E+C+2xD)
overall gate length (L=A+E+C+2xD)

PM (kg) peso monorotaia
track's weight

PF (kg) peso minimo della fondazione per compensare lo sforzo del carico di trazione che subiscono i carrelli dalla parte del cancello a sbalzo
minimum weight of the foundation to compensate stress on both carriages, produced by cantilevered part

F_{max} (kg) carico massimo di compressione (sommatoria del carico di trazione e peso del cancello) a cui è sottoposto il singolo carrello quando il cancello è in posizione a sbalzo dal proprio versante
max compression load applied (sum of stress on rollers and gate's weight) to any single carriage, when cantilevered part is on its side

FORMULE PER IL DIMENSIONAMENTO
SIZING FORMULAS

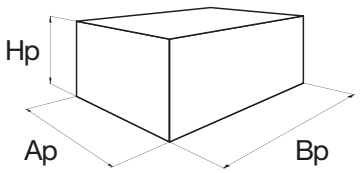
$$\mathbf{PF} \geq \frac{P \times (0{,}5xA + D)}{C} \times 2$$

Il basamento di calcestruzzo per l'ancoraggio dei carrelli portanti deve avere un peso minimo superiore al valore di Pf, tenendo conto che il suo peso specifico è di 2000 kg per metro cubo.

The concrete basis to anchor the load bearing carriers must have a minimum weight higher than the Pf value, taking account that the specific weight is 2000 kg per cubic metre.

$$\mathbf{PF} = Ap \times Bp \times Hp \times 2000$$

$$\mathbf{Bp}_{min} > (C + 2xD)$$



Ap (m)	Bp (m)	Hp (m)	PF (kg)
0,25	1	0,5	250
0,25	2	0,5	500
0,5	1	0,5	500
0,5	2	0,75	1500
0,5	2	1	2000
0,5	3	1	3000
0,75	1	0,75	1125
0,75	2	0,75	2250
0,75	2	1	3000
1	1	0,5	1000
1	2	0,5	2000
1	2	1	4000
1	3	1	6000

SERIE SERIES	F_{max} (Kg)	D (mm)	E (mm)
S	400	160	80
M	800	220	140
L	1250	350	150
XL	2400	500	250

QUOTE DI INSTALLAZIONE - INSTALLATIONS QUOTAS

S

	APERTURA OPENING	PESO DEL CANCELLO CON MONOROTAIA / GATE WEIGHT WITH TRACK											
		100 kg				140 kg				180 kg			
	A	C	L	PM	PF	C	L	PM	PF	C	L	PM	PF
 301.S	2,00	0,38	3,46	15,6	600	0,62	3,7	16,7	520	0,93	4	18,1	440
	2,50	0,46	4,04	18,2	600	0,75	4,33	19,5	520	1,14	4,72	21,3	440
	3,00	0,55	4,63	20,9	600	0,88	4,96	22,4	520	1,34	5,42	24,5	440
	3,50	0,63	5,21	23,5	600	1,02	5,6	25,2	520	1,55	6,13	27,6	440
 301.5S	2,00	0,39	3,51	15,8	600	0,62	3,74	16,9	520	0,95	4,07	18,4	440
	2,50	0,47	4,09	18,4	600	0,76	4,38	19,8	520	1,15	4,77	21,5	440
	3,00	0,55	4,67	21,1	600	0,9	5,01	22,6	520	1,36	5,48	24,7	440
	3,50	0,64	5,26	23,7	600	1,03	5,65	25,5	520	1,56	6,18	27,9	440

M

	APERTURA OPENING	PESO DEL CANCELLO CON MONOROTAIA / GATE WEIGHT WITH TRACK																			
		150 kg				200 kg				250 kg				300 kg				350 kg			
	A	C	L	PM	PF	C	L	PM	PF	C	L	PM	PF	C	L	PM	PF	C	L	PM	PF
 301.5M con vite di bloccaggio with locking screw	3,00	0,75	4,32	22,7	700	1,15	4,73	24,8	600	1,72	5,3	27,8	500	2,58	6,16	32,3	400				
	3,50	0,84	4,92	25,9	700	1,31	5,39	28,3	600	1,97	6,05	31,8	500	2,96	7,04	36,9	400				
	4,00	0,95	5,53	29	700	1,48	6,06	31,8	600	2,22	6,8	35,7	500								
	4,50	1,06	6,14	32,2	700	1,65	6,73	35,3	600	2,47	7,55	39,6	500								
	5,00	1,17	6,75	35,4	700	1,81	7,39	38,8	600	2,72	8,3	43,6	500								
	5,50	1,27	7,35	38,6	700	1,98	8,06	42,3	600												
	6,00	1,17	6,75	35,4	700	2,15	8,73	45,8	600												
 301.5M senza vite di bloccaggio without locking screw	3,00	0,70	4,1	21,5	1000	0,76	4,34	22,8	900	1,08	4,66	24,4	800	1,47	5,05	26,5	700				
	3,50	0,70	4,7	24,5	1000	0,88	4,96	26	900	1,23	5,31	27,9	800	1,7	5,78	3,3	700				
	4,00	0,70	5,25	27,5	1000	1	5,57	29,2	900	1,39	5,97	31,3	800	1,9	6,48	34	700				
	4,50	0,75	5,85	30,7	1000	1,1	6,18	32,4	900	1,54	6,62	34,8	800	2,12	7,2	37,8	700				
	5,00	0,82	6,4	33,6	1000	1,21	6,79	35,6	900	1,7	7,28	38,2	800	2,33	7,91	41,5	700				
	5,50	0,90	7	36,6	1000	1,32	7,4	38,9	900	1,86	7,94	41,7	800	2,55	8,63	45,3	700				
	6,00	0,97	7,55	39,6	1000	1,43	8,01	42,1	900	2,01	8,59	45,1	800	2,76	9,34	49	700				
 301.8M	3,00	0,60	3,98	20,9	1300	0,58	4,2	22	1200	0,8	4,38	22,9	1100	1,03	4,61	24	1000	1,34	4,92	25,8	900
	3,50	0,60	4,53	23,8	1300	0,67	4,75	25	1200	0,9	4,98	26,1	1100	1,18	5,26	27,6	1000	1,53	5,61	29,5	900
	4,00	0,60	5,1	26,8	1300	0,75	5,33	27,9	1200	1,01	5,59	29,3	1100	1,33	5,91	31	1000	1,73	6,31	33,1	900
	4,50	0,60	5,65	29,7	1300	0,82	5,9	31	1200	1,12	6,2	32,6	1100	1,48	6,56	34	1000	1,92	7	36,8	900
	5,00	0,63	6,21	32,6	1300	0,91	6,5	34,1	1200	1,25	6,83	35,8	1100	1,63	7,21	38	1000	2,12	7,7	40,4	900
	5,50	0,69	6,77	35,5	1300	1	7,1	37,1	1200	1,35	7,43	39	1100	1,78	7,86	41	1000	2,31	8,39	44	900
	6,00	0,74	7,32	38,4	1300	1,1	7,7	40,2	1200	1,46	8,04	42,2	1100	1,94	8,51	44,7	1000	2,5	9,08	47,7	900

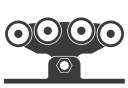
LM

	APERTURA OPENING	PESO DEL CANCELLO CON MONOROTAIA / GATE WEIGHT WITH TRACK																			
		300 kg				400 kg				500 kg				600 kg				700 kg			
	A	C	L	PM	PF	C	L	PM	PF	C	L	PM	PF	C	L	PM	PF	C	L	PM	PF
 301.8LM	3,00	0,8	4,66	54,5	1700	1	4,85	56,5	1400	1,42	5,27	61,6	1300	2,02	5,87	68,6	1100	2,88	6,73	78,6	900
	4,00	0,83	5,68	66,4	1700	1,25	6,1	71,3	1400	1,81	6,66	77,8	1300	2,56	7,41	86,7	1100	3,66	8,51	99,4	900
	5,00	1,02	6,86	80,1	1700	1,52	7,37	86,2	1400	2,19	8,04	94,0	1300	3,11	8,96	104,7	1100				
	6,00	1,18	8,03	93,9	1700	1,79	8,64	101,0	1400	2,58	9,43	110,2	1300	3,65	10,5	122,8	1100				
	7,00	1,36	9,21	107,7	1700	2,05	9,9	115,8	1400	2,96	10,81	126,4	1300	4,2	12,05	140,9	1100				
	8,00	1,54	10,39	121,4	1700	2,32	11,17	130,6	1400	3,35	12,2	142,6	1300	4,75	13,6	158,9	1100				
	9,00	1,71	11,56	135,2	1700	2,59	12,44	145,4	1400	3,73	13,58	15,8	1300								
	10,00		---			2,85	13,7	160,2	1400	4,12	14,97	174,9	1300		---						

L

	APERTURA OPENING	PESO DEL CANCELLO CON MONOROTAIA / GATE WEIGHT WITH TRACK											
		250 kg				300 kg				350 kg			
	A	C	L	PM	PF	C	L	PM	PF	C	L	PM	PF
 **301.5L** con vite di bloccaggio with locking screw	**3,00**	1,16	5,01	58,5	1000	1,23	5,08	59,4	900	1,62	5,47	63,9	800
	4,00	1,47	6,32	73,9	1000	1,57	6,42	75,0	900	2,06	6,91	80,7	800
	5,00	1,78	7,63	89,2	1000	1,9	7,75	90,6	900	2,49	8,34	97,5	800
	6,00	1,68	8,53	99,7	1000	2,23	9,08	106,2	900	2,93	9,78	114,3	800
	7,00	1,93	9,78	114,3	1000	2,57	10,42	121,8	900	3,37	11,22	131,1	800
	8,00	2,18	11,03	128,9	1000	2,9	11,75	137,4	900	3,81	12,66	148,0	800
	9,00	2,43	12,28	143,5	1000	3,23	13,8	152,9	900	**XL**			
 **301.5L** senza vite di bloccaggio without locking screw	**4,00**	---				1,01	5,86	68,5	1400	1,27	6,12	71,5	1300
	5,00					1,22	7,07	82,7	1400	1,53	7,38	86,3	1300
	6,00					1,44	8,29	96,9	1400	1,8	8,65	101,2	1300
	7,00					1,65	9,5	111,1	1400	2,07	9,92	116,0	1300
	8,00					1,86	10,71	125,3	1400	2,34	11,19	130,8	1300
	9,00					2,08	11,93	139,4	1400	2,61	12,46	145,7	1300
	10,00					2,29	13,14	153,6	1400	2,88	13,73	160,5	1300
	11,00					2,51	14,36	167,8	1400	3,15	15	175,4	1300
	12,00					2,72	15,57	182,0	1400	3,42	16,27	190,2	1300
 **301.8L**	**4,00**	---				0,8	6,05	65,1	1900	0,91	5,76	67,4	1800
	5,00					0,9	6,75	78,9	1900	1,11	6,96	81,3	1800
	6,00					1,06	7,91	92,4	1900	1,3	8,15	95,3	1800
	7,00					1,22	9,07	106,0	1900	1,5	9,35	109,3	1800
	8,00					1,37	10,22	119,5	1900	1,69	10,7	123,4	1800
	9,00					1,53	11,38	133,1	1900	1,89	11,8	137,5	1800
	10,00					1,69	12,54	146,6	1900	2,1	12,9	151,2	1800
	11,00					1,85	13,7	160,0	1900	2,28	14,2	165,1	1800
	12,00					2,01	14,86	173,7	1900	2,47	15,3	180,0	1800
	13,00					2,16	16,01	187,2	1900	2,66	16,5	193,1	1800
	14,00					2,32	17,17	200,7	1900	2,86	17,7	207,0	1800
	15,00					2,48	18,33	214,3	1900	3,05	18,9	220,1	1800

XL

	APERTURA OPENING	PESO DEL CANCELLO CON MONOROTAIA / GATE WEIGHT WITH TRACK											
		300 kg				400 kg				500 kg			
	A	C	L	PM	PF	C	L	PM	PF	C	L	PM	PF
 **301.5XL** con vite di bloccaggio with locking screw	**4,00**	0,80	5,82	128,3	2200	0,98	6,13	135,2	2000	1,36	6,51	143,6	1800
	5,00	0,80	6,95	153,3	2200	1,18	7,33	161,6	2000	1,64	7,79	171,7	1800
	6,00	0,94	8,09	178,4	2200	1,38	8,53	188,1	2000	1,92	9,07	199,9	1800
	7,00	1,08	9,23	203,5	2200	1,58	9,73	214,5	2000	2,19	10,34	228,1	1800
	8,00	1,21	10,36	228,5	2200	1,78	10,93	241,0	2000	2,47	11,62	256,3	1800
	9,00	---				1,98	12,13	267,5	2000	2,75	12,9	284,4	1800
	10,00					---				3,03	14,18	312,6	1800
	12,00									3,58	16,73	369,0	1800
 **301.5XL** senza vite di bloccaggio without locking screw	**4,00**	---				0,80	5,88	129,5	3000	0,85	6,1	134,5	2800
	5,00					0,80	7	15,4	3000	1	7,25	159,9	2800
	6,00					0,88	8,13	179,2	3000	1,17	8,42	185,6	2800
	7,00					1	9,25	204,0	3000	1,33	9,58	221,3	2800
	8,00					1,13	10,38	228,8	3000	1,5	10,75	237,0	2800
	9,00					1,25	11,5	253,6	3000	1,67	11,92	262,8	2800
	10,00					1,38	12,63	278,4	3000	1,83	13,1	288,5	2800
	12,00					1,63	14,88	328,0	3000	2,17	15,42	339,9	2800
	14,00					---				---			
	16,00												
 **301.8XL**	**4,00**	---				L				L			
	5,00												
	6,00												
	7,00					0,8	8,95	197,1	4000	1,04	9,19	202,6	3800
	8,00					0,9	10,04	221,4	4000	1,17	10,32	227,6	3800
	9,00					1	11,15	245,6	4000	1,3	11,45	252,5	3800
	10,00					1,1	12,24	269,9	4000	1,43	12,58	277,5	3800
	12,00					1,3	14,44	318,4	4000	1,7	14,85	327,4	3800
	14,00					---				---			
	16,00												
	18,00												

PESO DEL CANCELLO CON MONOROTAIA / GATE WEIGHT WITH TRACK																
400 kg				500 kg				600 kg				700 kg				
C	L	PM	PF	C	L	PM	PF	C	L	PM	PF	C	L	PM	PF	
2,11	5,96	69,7	700	---				---				---				
3,26	9,11	106,5	700													
XL																
1,57	6,42	75,0	1200	2,35	7,2	84,2	1000	3,53	8,38	97,9	800	---				
1,9	7,75	60,6	1200	2,85	8,7	101,7	1000	4,28	10,13	118,4	800					
2,23	9,08	106,2	1200	3,35	10,2	119,2	1000	5,03	11,88	138,8	800					
2,57	10,42	121,8	1200	3,85	11,7	136,8	1000	XL								
2,9	11,75	137,4	1200	4,35	13,2	154,3	1000									
3,23	13,08	152,9	1200	4,85	14,7	171,8	1000									
3,57	14,42	168,5	1200	5,35	16,2	189,4	1000									
3,9	15,75	184,1	1200	XL												
4,23	17,08	199,7	1200													
1,12	5,97	69,7	1700	1,57	6,42	75,0	1500	2,17	7,02	82,1	1300	2,99	7,84	91,7	1100	
1,34	7,19	84,1	1700	1,9	7,75	90,6	1500	2,63	8,48	99,1	1300	3,63	9,48	110,8	1100	
1,58	8,43	38,5	1700	2,23	9,08	106,2	1500	3,09	9,94	116,2	1300	4,26	11,11	129,9	1100	
1,81	9,66	112,9	1700	2,57	10,42	121,8	1500	3,55	11,4	133,4	1300	4,9	12,75	149,0	1100	
2,05	10,9	127,4	1700	2,9	11,75	137,4	1500	4,02	12,87	15,4	1300	5,54	14,39	168,2	1100	
2,28	12,13	141,8	1700	3,23	13,08	152,9	1500	4,48	14,33	167,5	1300	XL				
2,52	13,37	156,3	1700	3,57	14,42	168,5	1500	4,95	15,8	184,7	1300					
2,75	14,6	170,7	1700	3,9	15,75	184,1	1500	5,4	17,25	201,7	1300					
2,99	15,84	185,1	1700	4,23	17,08	199,7	1500	XL								
3,22	17,07	199,6	1700	4,57	18,42	215,3	1500									
3,46	18,31	214,0	1700	4,9	19,75	230,9	1500									
3,69	19,54	228,5	1700	XL												

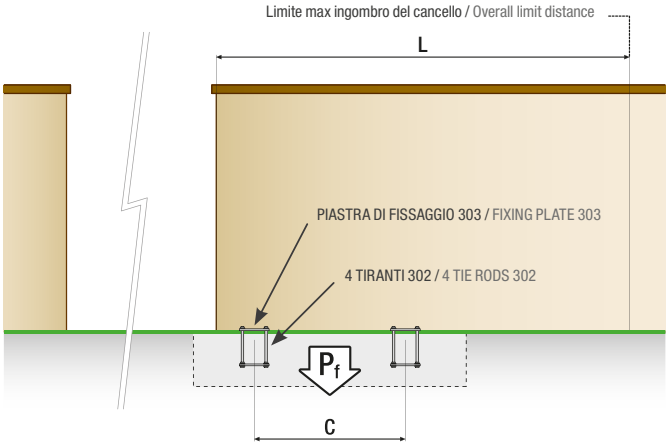
PESO DEL CANCELLO CON MONOROTAIA / GATE WEIGHT WITH TRACK																
600 kg				800 kg				1000 kg				1200 kg				
C	L	PM	PF	C	L	PM	PF	C	L	PM	PF	C	L	PM	PF	
1,84	6,99	154,1	1600	---				---				---				
2,21	8,36	184,4	1600													
2,59	9,74	214,7	1600													
2,96	11,11	245,0	1600													
3,34	12,49	275,3	1600													
3,71	13,86	305,7	1600													
4,09	15,24	336,0	1600													
4,84	17,99	396,6	1600													
1,07	6,32	139,4	2600	1,67	6,92	152,5	2200	2,5	7,75	170,9	1800	---				
1,29	7,54	166,2	2600	2	8,25	181,9	2200	3	9,25	204,0	1800					
1,5	8,75	192,9	2600	2,33	9,58	211,3	2200	3,5	10,75	237,0	1800					
1,71	9,36	219,7	2600	2,67	10,92	240,7	2200	4	12,25	270,1	1800					
1,93	11,18	246,5	2600	3	12,25	270,1	2200	4,5	13,75	303,2	1800					
2,14	12,39	273,3	2600	3,33	13,58	299,5	2200	5	15,25	336,3	1800					
2,36	13,61	300,0	2600	3,67	14,92	328,9	2200	5,5	16,75	369,3	1800					
2,79	16,04	353,6	2600	4,33	17,58	387,7	2200	6,5	19,75	435,5	1800					
3,21	18,46	407,1	2600	5	20,25	446,5	2200	7,5	22,75	501,6	1800					
3,64	20,89	460,7	2600	5,67	22,92	505,3	2200	---								
0,82	5,97	131,6	3600	1,23	6,38	140,6	3200	1,75	6,9	152,1	2800	2,45	7,6	167,6	2400	
0,98	7,13	157,3	3600	1,48	7,63	168,1	3200	2,11	8,26	182,1	2800	2,95	9,1	200,7	2400	
1,15	8,3	183,0	3600	1,73	8,88	195,7	3200	2,46	9,61	212,0	2800	3,45	10,6	233,7	2400	
1,32	9,47	208,7	3600	1,98	10,13	223,3	3200	2,82	10,97	241,9	2800	3,95	12,1	266,8	2400	
1,48	10,63	234,5	3600	2,23	11,38	250,8	3200	3,18	12,33	271,8	2800	4,45	13,6	299,9	2400	
1,65	11,8	260,2	3600	2,48	12,63	278,4	3200	3,54	13,69	301,8	2800	4,95	15,1	333,0	2400	
1,82	12,97	285,9	3600	2,73	13,88	305,9	3200	3,89	15,04	331,7	2800	5,45	16,6	366	2400	
2,15	15,3	337,4	3600	3,23	16,38	361,1	3200	4,61	17,76	391,5	2800	6,45	19,6	432,2	2400	
2,48	17,63	388,8	3600	3,73	18,88	416,2	3200	5,32	20,47	451,4	2800					
2,82	19,97	440,3	3600	4,23	21,38	471,3	3200	6,04	23,19	511,2	2800	---				
---				4,73	23,88	526,4	3200	---								

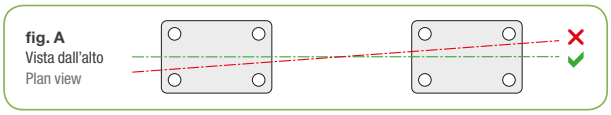
GUIDA ALL'INSTALLAZIONE

Ogni suggerimento ed informazione del presente manuale è valida sia per la versione a 5 ruote sia per la versione ad 8 ruote.
Se nella versione 5 ruote intendete utilizzare il sistema di bloccaggio del carrello, è tassativo leggere le avvertenze relative a tale applicazione riportate nella finestra "UTILIZZO DEL BLOCCAGGIO SUI CARRELLI"

INSTALLATION GUIDE

The above table of calculation is valid for both the 5 and 8 wheels cantilever carriages. If the locking system is used on the 5 wheels carriage, see CARRIAGE LOCKING SYSTEM WINDOW.





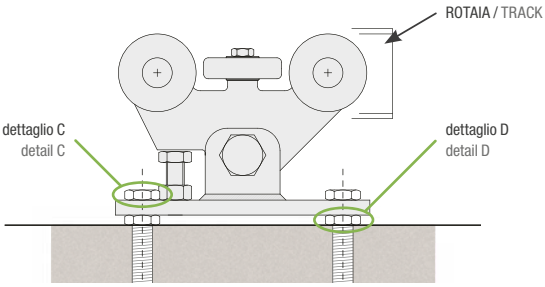


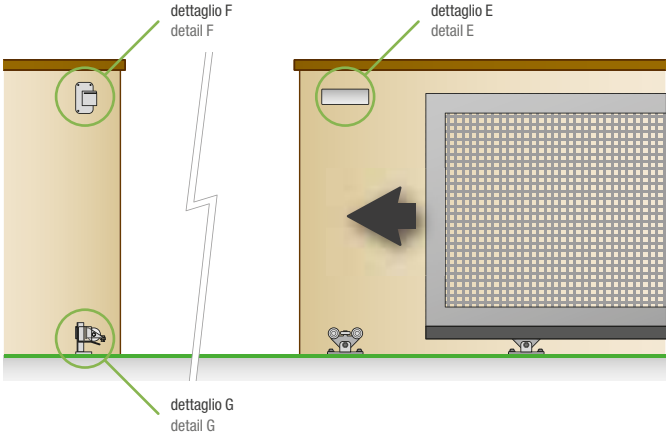
1. Fondazioni:
Da tabelle o configuratore determinare (in base alle caratteristiche predefinite del cancello) la distanza tra i carrelli "C" e la lunghezza totale del cancello "L". Assicurarsi che lo spazio disponibile con cancello tutto aperto siano sufficienti. Attenersi alla profondità minima della fondazione dove verranno fissati i carrelli e rispettare assolutamente il peso minimo di cemento suggerito dalle tabelle o dal configuratore (Pf). Considerate che il cemento ha un peso di circa 2000Kg. al metro cubo.
A cemento fresco inserire i tiranti 302 come da schema usando le piastre di fissaggio 303 come dima di riferimento. Per una corretta installazione del cancello verificare con estrema accuratezza l'allineamento delle piastre con la linea di apertura del cancello (fig.A). Si ricorda comunque che i fori ovalizzati sulla base dei carrelli consentono una ulteriore correzione dell'allineamento in fase di fissaggio dei carrelli stessi. Molto importante è verificare anche il livello con il piano del terreno (fig.B). Anche in questo caso sono possibili eventuali correzioni con i bulloni forniti nel kit 302 da montare tra la piastra e la parte inferiore della base dei carrelli.

1. Foundations:
Information from the catalogue data sheet or the Hi Motions calculator system will verify distance between carriages "C" and overall gate lenght "L". Be sure that the space available (with gate completely open) is enough to carry out the installation. Keep to the minimumfoundation depth (Pf) and concrete weight as recommended by the data sheet or by Hi Motions calculator system. Please note that reinforced concrete weight is about 2.000Kg. per cubic meter.
Before the foundation base concrete sets, install the tie rods (302) using the carriage fixing plates (303). Remember to install the carriage plates the correct distance apart. Use a straight edge or plumb line to align the fixing plates (fig.A). The carriage fixing holes are oversized to allow for slight tie rod misalignement. It is very important that the carriages are installed on a level surface (fig.B). Further level adjustment can also be achieved by adjusting the tie rod nuts supplied with kit 302. The tie rods nuts have to be installed between the fixing plate (detail D) and the top of the carriages base (detail C). Note that the best performance of the gate components is achieved by carrying out the above instructions. Both sets of carriage wheels should work together, simultaneously touching the track.

2. Posizionamento carrelli:
Il posizionamento e fissaggio dei carrelli va fatto solamente dopo la solidificazione del cemento. Prima del bloccaggio definitivo con i dadi superiori (dettaglio C), si consiglia di verificare allineamenti e livelli inserendo in essi una monorotaia, provando lo scorrimento a vuoto (senza cancello) e il buon esito di tolleranze ed allineamenti. Si ricorda che eventuali correzioni possono essere fatte tramite i dadi inferiori (dettaglio D).

2. Positioning of the carriages:
Final positioning of the carriages must be carried out after the foundation base concrete has set. We would suggest that carriage alignment and levels are checked before tightening the upper nuts (detail C). If required further level adjustments can be made by adjusting the carriage plate fixing nuts (detail D).





3. Piastra di guida (dettaglio E): - da codice 200.3 a codice 212.0
Nel caso di cancelli molto pesanti e dove NON sono predisposte le doppie colonne di sostegno (interne ed esterne al cancello), si consiglia di montare 2 piastre di guida al fine di garantire il massimo standard di sicurezza. Dopo il montaggio del cancello, si raccomanda di fissare molto bene i rulli guida in nylon alla piastra, serrando i dadi sulla piastra in modo molto deciso (meglio se usate un collante blocca filetti), dopo aver determinato la loro corretta distanza con la larghezza del cancello. Questa operazione garantisce la massima sicurezza e riduce al minimo le vibrazioni del cancello durante lo scorrimento. Si consiglia di utilizzare piastre con rulli guida adeguati al peso del cancello.

3. Guide plate (detail E): - from code 200.3 to code 212.0
In case of heavy gates and when there aren't double support posts (internal and external to gate), we suggest to use two guide plates in order to guarantee the best safety conditions. After gate installation, we reccomend to fix strongly all rollers on guide plates, locking very well bolts on plate (better if using specific locking glue). This operation must be done after check of rollers distance according gate width. Operation above guarantees best safety and reduce as well as possible any gate vibrations while sliding. We suggest rollers size according weight of the gate.

4. Incontro superiore (dettaglio. F): - da codice 250.1 a codice 254.2
Garantisce il bloccaggio completo del cancello quando chiuso nel caso di tentativo di effrazioni, colpi accidentali, vento. E' disponibile anche una versione (cod. 254.1/2) con cilindro di sicurezza per evitare aperture forzate del cancello. Effettuare il fissaggio dell'incontro dopo aver posizionato il cancello nella corretta posizione di chiusura.

4. Upper limit stop (detail F): - Part No 250.1 to 254.2
For manual gates. Provides Guaranteed gate locking after closing. Ideal for wind effected gates and for enhanced security. A locking version is available (code 254.1/2) with a safety cylinder to lock the gate manually. Final fixing of upper limit stops should be checked when the gate is in the closed position.

5. Incontro inferiore (dettaglio. G):
- Cod. 310 con supporti regolabili 311 (a fissare) o 312 (a saldare)

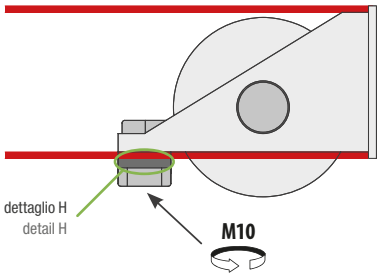
Tra le varie opzioni proposte scegliete la vostra versione.
1. Se impiegate il supporto a terra, questo va fissato al suolo, qualora in presenza di un basamento in cemento, verificando prima l'allineamento con il cancello . Bloccatelo con la contropiastra e relativi dadi che trovate nella confezione del 311. Questo supporto consente solo regolazioni verticali.
2. Se impiegate il supporto a saldare, accertatevi di verificare l'altezza prima di procedere alla saldatura. La regolazione in questo caso è consentita solo in orrizzontale.
3. Potete saldare l'incontro direttamente sulla colonna senza supporti. In questo caso non sono consentite nessun tipo di regolazioni dopo la saldatura.

5. Lower gate limit stop (detail G):
- Code 310 with adjustable support 311 (to be fixed) or 312 (to be welded)

Make your choice according to the following suggestions.
1. If you are using the ground support (311), it has to be installed on a concrete base, check the alignment with the gate. Fix limit stop (310) with bolts supplied. This support allows up and down adjustment only.
2. If you are using welded support (312), pay attention to the height of meeting point before welding into place. This support allows left and right adjustment only.
3. You can weld the limit stop bracket directly to a steel post without either of the above support brackets. Please note that there will be no vertical or horizontal adjustment.

6. Inserimento carrellino di guida (cod.307)
- Allentare la vite della piastrina di bloccaggio (part. H) in modo da consentire il passaggio del carrelino guida all'interno della monorotaia.
- Posizionare in battuta il coperchio del carrellino, quindi fissare la piastrina alla monorotaia avvitando il bullone M10. E' consigliato impiegare un collante blocca-filetti.
- Valutate il numero di aperture/giorno per installare il 307 ed il relativo incontro 310 su entrambe i terminali della monorotaia. Suggeriamo di evitare al cancello un gran numero di soste a sbalzo senza nessun supporto, in particolare per cancelli molto pesanti.

6. Guide roller assembling (code 307)
- Release screw on fixing plate (detail H) to allow guide roller assembly to slide into track.
- When the guide roller assembly is in position, lock into place using the M10 locking bolt.
- Cantilever gates require a guide roller assembly at both ends of the track. We would advise that heavy gates should not stay open for long periods without the use of any gate support. (310)



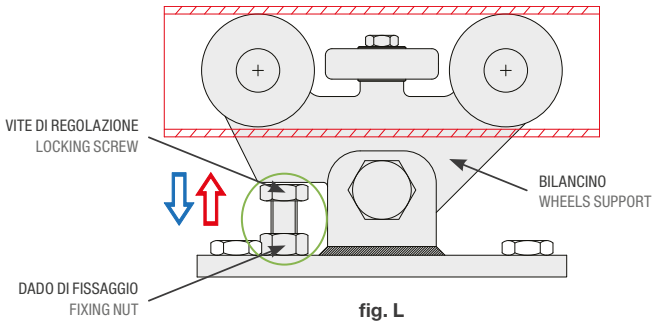


fig. L

Utilizzo del bloccaggio sui carrelli:
Tutti i carrelli 5 ruote prodotti da Hi Motions sono forniti con vite di regolazione che, qualora necessario o preferito, può essere utilizzata per eliminare il gioco tra monorotaia e ruote portanti e quindi ridurre al minimo le vibrazioni del cancello in movimento e limitare l'effetto di sbandieramento, particolarmente evidente nei cancelli molto lunghi e leggeri. L'impiego della vite di regolazione NON E' OBBLIGATORIO. Nel caso non si voglia usare è sufficiente allentare il bullone indicato nella fig. L o rimuoverlo completamente.

E' importante sapere che l'utilizzo della vite di regolazione riduce della metà la portata del carrello in quanto solo 2 ruote per carrello supportano il peso del cancello contro 4 quando il bilancino è libero. Anche per questo motivo l'uso è indicato per cancelli leggeri.

Note: Si agisce sulla vite di regolazione solamente quando il cancello e l'eventuale automazione sono stato completamente installati e collaudati. Una volta eseguite le dovute registrazioni e regolazioni e stabilito che il funzionamento è ottimale, fissare i carrelli, tramite la vite di regolazione, fissando bullone e dado di bloccaggio in modo che 2 ruote poggino sulla parte superiore della monororatia e 2 ruote sulla parte inferiore. Il procedimento va eseguito su entrambe i carrelli. In questo modo il funzionamento verificato in prova viene "congelato" ed assicurato in ogni fase di movimentazione. Si elimina così anche il fastidioso "scatto" che si verica quando, in movimento, il cancello sposta il baricentro da una metà all'altra scaricando i giochi e le tolleranze sulla monorotaia.

Carriage locking system:
5 wheeled cantilever carriages made by Hi Motions Srl are supplied with a locking screw. (fig.C). The locking screw will annul play between the track and support wheels, reduce gate vibrations while moving, reduce wind effects (particularly with very long gates) and reduce possible gate dropping when the gate weight transfers from one half to the other.

USING THE LOCKING SCREW IS OPTIONAL. If not required the screw can be released or removed. (fig.L)

IF THE LOCKING SCREW IS USED The maximum load capacity of the carriage is reduced by 50%

Notes: The optional Locking screw fixing must be locked into position when the gate and any gate automation systems are installed and tested. When the installation is complete the carriage locking device can be adjusted and locked into place by means of the locking and fixing nuts. (fig.L) Ensure that two of the carriage wheels touch the top side of the track and the other two touch the bottom side of the track. Both carriages have to be adjusted in the same way. Test the gate for smooth operation and readjust the locking screw as necessary.

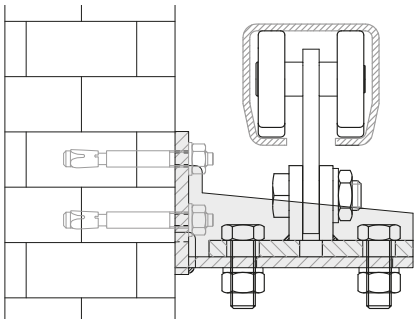


fig. M

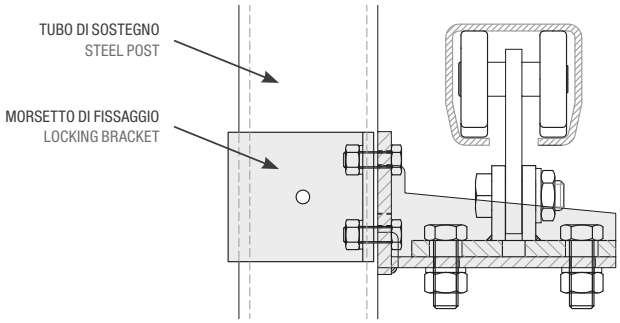


fig. N

Opzione con supporti per carrelli:
Per installazioni alternative HI Motions propone la gamma supporti per carrelli autoportanti della serie 304 che, in determinate condizioni, riduce notevolmente i tempi di installazione del cancello garantendo gli stessi standard dimensionali e di sicurezza. Partendo da una mensola di base da fissare sul muro perimetrale (fig. M), possiamo indicare questa soluzione per la serie S, M ed L inoltre, per entrambe, fornire l'opzione per l'ancoraggio su colonne tonde o quadre fino a 100mm. o 4" (fig. N).

Indicazioni (fig. M):
- L'uso della mensola è indicato esclusivamente per pareti di supporto in cemento armato, in pietra o di composizione tale da sostenere i carichi in gioco. Lo spessore minimo consigliato è di 15cm.
- E' assolutamente sconsigliato fissare la mensola su pareti in muratura leggera che non garantiscono la sicurezza dell'applicazione.
- I 4 fori per il fissaggio sono previsti per 4 viti M12. E' consigliato l'impiego di tasselli in acciaio o l'impiego di colle cementizie bi-componenti.
- Per ridurre al minimo l'aria tra il suolo ed il fondo del cancello è possibile andare in appoggio con la mensola avendo cura di installare i carrelli prima di fissare il supporto al muro.

Indicazioni (fig. N):
- In alternativa si può decidere di utilizzare dei comuni tubi in acciaio per sostenere i carrelli e quindi l'intero peso del cancello.
- Hi Motions offre la possibilità di bloccare le mensole di supporto su tubi dia.73mm. (3") e dia. 89mm (3½") max. Per i quadri sono disponibili morsetti per tubi da 80mm e 100mm.
- Il bloccaggio della mensola viene eseguito fissando il morsetto in dotazione con le 4 viti M12 che trovate nella confezione.
- Accertarsi che le fondazioni dei tubi rispettino il dimensionamento consigliato per un normale cancello autoportante come suggerito dal catalogo o dal configuratore.

Optional supports with brackets:
Hi Motions Srl offer the exciting 304 'Easy Fit' cantilever carriage support system. The 'Easy Fit' cantilever support system consists of either a pair of wall mounted brackets (fig.M) or a pair of up to 100mm square or 89mm diameter post mounted brackets (fig.N). The wall mounted brackets are for installation onto stone or concrete reinforced walls only. They are Not Suitable for brick walls. The 304 have fixing holes for series S, M and L cantilever carriages.

Notes (fig. M):
- 'East Fit' support brackets are only to be installed on to reinforced concrete or stone walls. You must adhere to the specified maximum gate weights and opening widths as recommended by the Hi Motions data sheets or calculator system. Minimum wall thickness must be 15cm.
- It is NOT Recommended to install the support brackets to brick or similar light weight material walls as this does not guarantee a safe installation.
- Four M12 fixing holes are provided. Suggested installation methods are either by suitable sized rawl bolts or chemically fixed stud fixings.
- The 304.MF/304.8LF can be floor mounted. If you use the floor mounted method, the carriage locking screws must be locked into position.

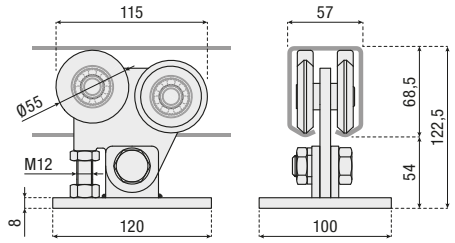
Notes (fig. N):
- 'Easy Fit' square or circular bracket supports will enable you to install a cantilever gate in unusual ground conditions.
- Hi Motions gives you the flexibility to install bracket supports on circular posts with dia. 73mm. (3") and dia. 89mm. (3½") or square posts of 80mm or 100mm.
- Support brackets can be locked into position using the 4 No M12 supplied with the kit.
- The square or circular posts have to be installed to the specified foundation details as recommended the Hi Motions data sheets or calculator system.



CARRELLI PORTANTI
SUPPORT ROLLERS

Carrello portante 4 ruote serie S
Support roller 4 wheels series S

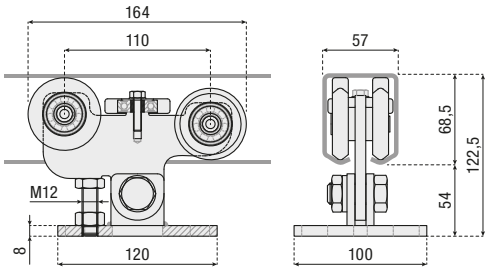




SERIE SERIES	00101100	
S	301.S	2

Carrello portante 5 ruote serie S
Support roller 5 wheels series S

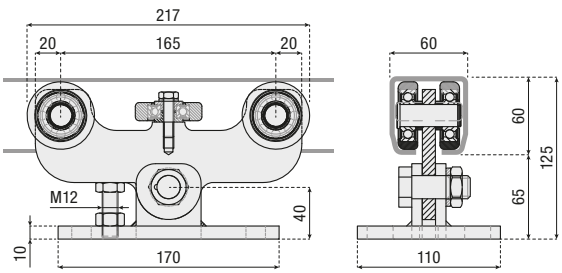




SERIE SERIES	00101100	
S	301.5S	2

Carrello portante 5 ruote serie M
Support roller 5 wheels series M

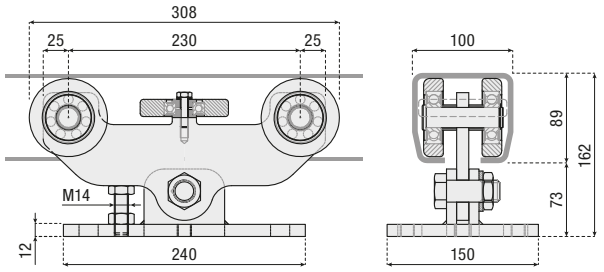




SERIE SERIES	00101100	
M	301.5M	2

Carrello portante 5 ruote serie L
Support roller 5 wheels series L

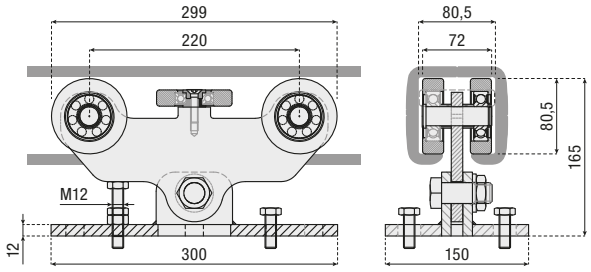




SERIE SERIES		
L	301.5L	2

Carrello portante 5 ruote serie LAG
Support roller 5 wheels series LAG



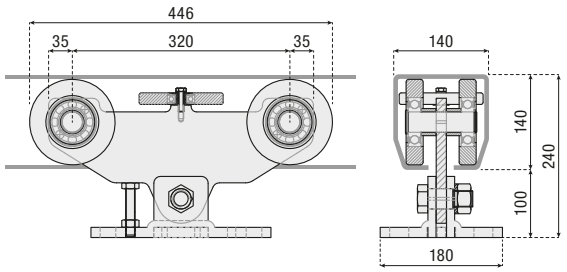


- *Monorotaia a cura del cliente, esempio C90x90x30x4 mm*
- *Truck by the customer, example C90x90x30x4 mm*

SERIE SERIES		
L	301.5LAG	2

Carrello portante 5 ruote serie XL
Support roller 5 wheels series XL

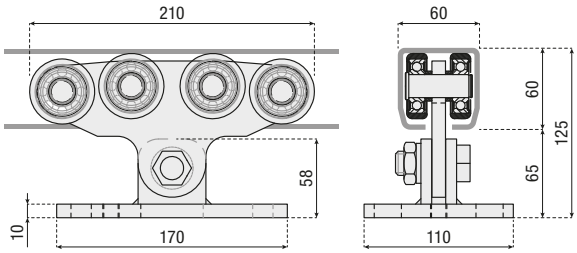




SERIE SERIES		
XL	301.5XL	2

Carrello portante 8 ruote serie M
Support roller 8 wheels series M

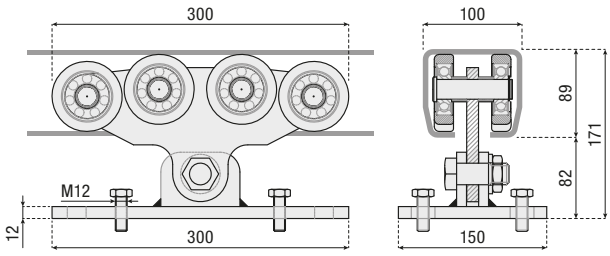




SERIE SERIES	00101100	
M	**301.8M**	2

Carrello portante 8 ruote serie L
Support roller 8 wheels series L



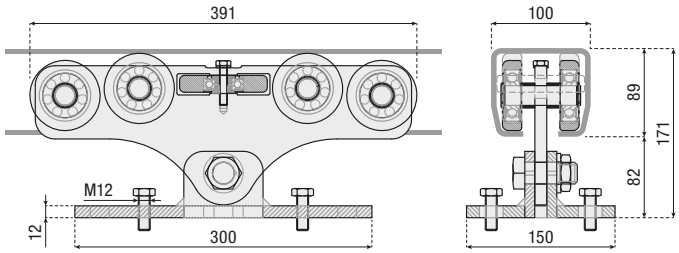


SERIE SERIES	00101100	
L	**301.8L**	2

Carrello portante 9 ruote serie L
Support roller 9 wheels series L

new

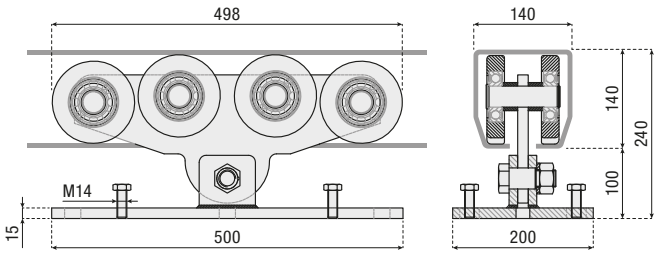




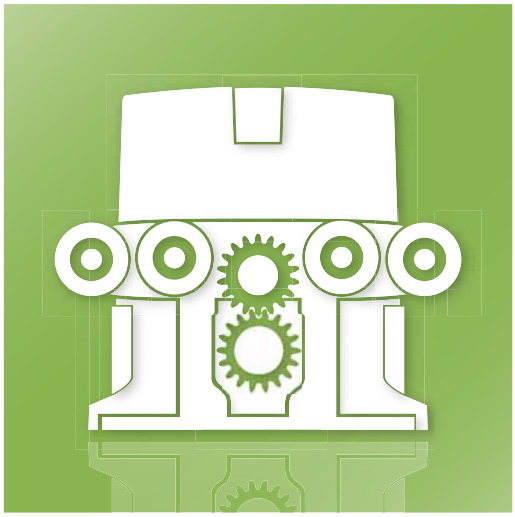
SERIE SERIES	00101100	
L	301.9L	2

Carrello portante 8 ruote serie XL
Support roller 8 wheels series XL





SERIE SERIES	00101100	
XL	301.8XL	2

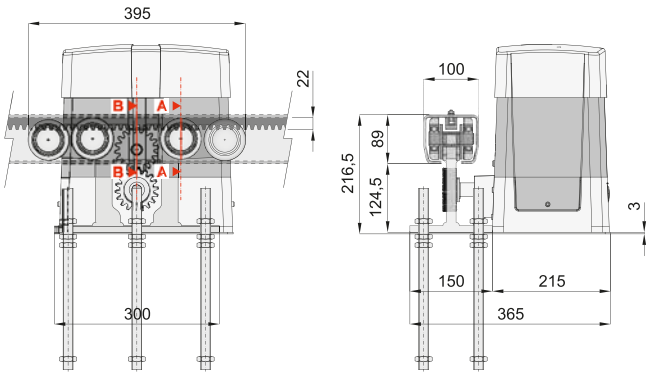


SISTEMA AUTOPORTANTE CON CREMAGLIERA INTERNA **“SERIE LM”**

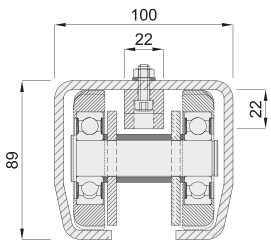
INSIDE RACK CANTILEVER SYSTEM **“SERIE LM”**

Sistema autoportante con cremagliera interna “serie LM”
Inside rack cantilever system “LM series”

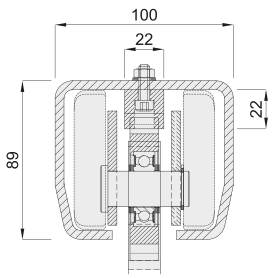




A-A



B-B



NON VENDIBILE SEPARATAMENTE • NOT SOLD SEPARATELY

Valori di applicazione
Range application

A_{max} = 10 m / **P** = 500 kg

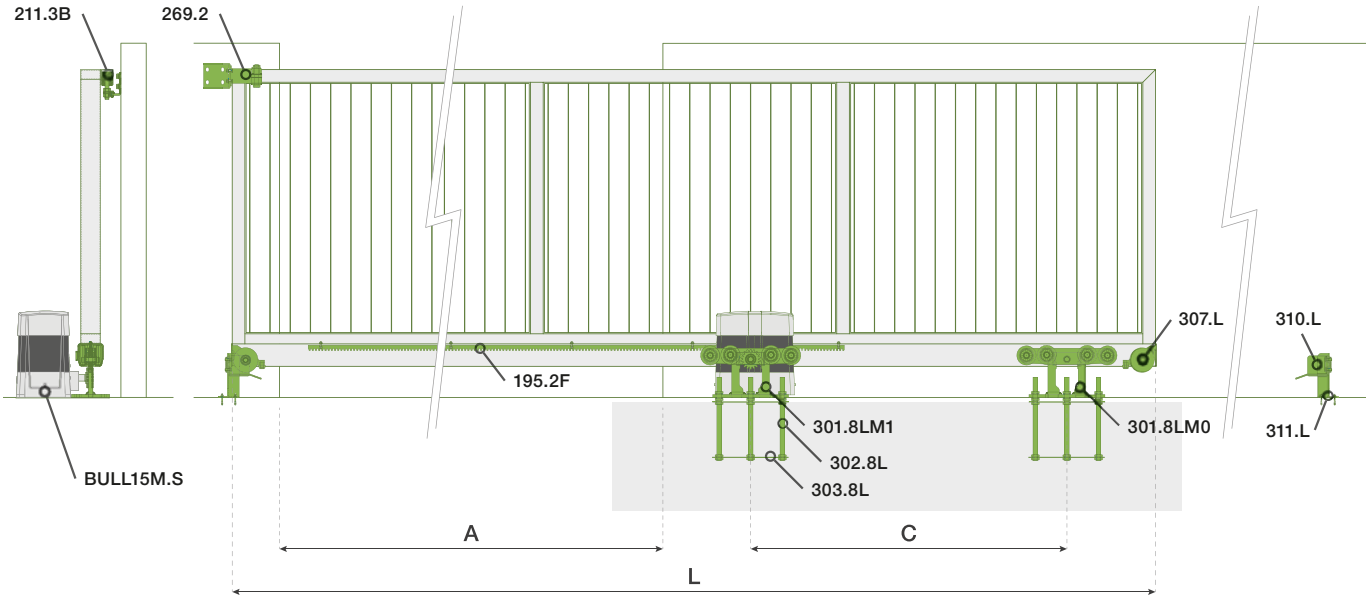
A = 4 m / **P_{max}** = 700 kg

Vantaggi
Plus

- Motoriduttore 230 Vac con centrale incorporata ed encoder
- Il dispositivo encoder garantisce sicurezza antischiacciamento e precisione nelle fasi di movimentazione del cancello
- Autoventilato per una maggiore intensità d’uso
- Dotato di finecorsa magnetici incorporati

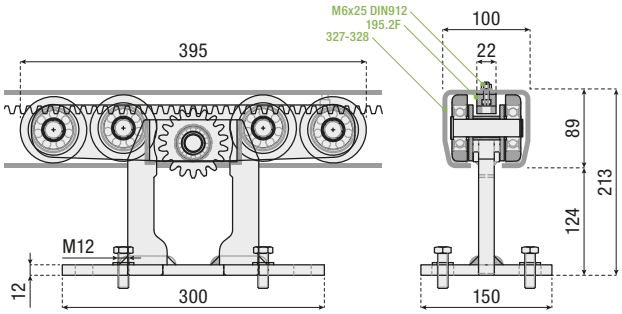
- 230 Vac geared motor with built-in control unit and encoder
- The encoder device ensures crush prevention and precision in the gate moving phases
- Self-ventilating for increased usage intensity
- Equipped with magnetic limit switches

DATI TECNICI / TECHNICAL DATA	BULL15M.S-HM
Alimentazione di rete / Power supply	230 Vac (50-60 Hz)
Alimentazione motore / Motor supply	230 Vac
Corrente max. Assorbita / Max. Absorbed current	2,5 A
Spinta massima / Max. Thrust	1250 N
Velocità di apertura / Opening speed	10,5 m/min.
Ciclo di lavoro / Operation cycle	60%
Indice di protezione / Protection level	IP 44
Temp. Di funzionamento / Operating temp.	-20°C / +50°C
Peso max. Cancello / Max gate weight	1500 kg
Modulo cremagliera / Driving gear for rack	M4Z18
Finecorsa magnetici / Magnetic limit switches	SI / YES
Peso / Weight	20,1 kg



Carrello portante 8 ruote “serie LM”
Support roller 8 wheels “LM series”



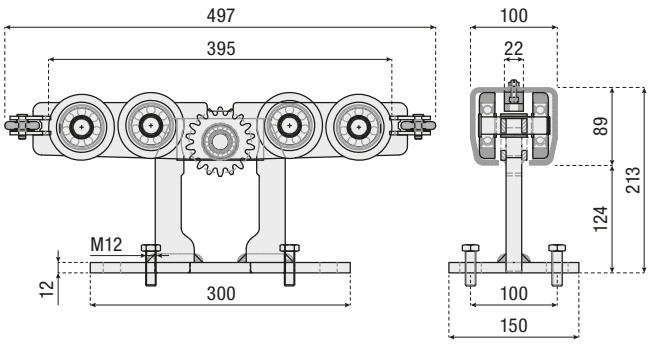


SERIE SERIES	00101100	NOTE NOTES	
LM	301.8LM0	SENZA PIGNONE NO PINION	1
	301.8LM1	CON PIGNONE WITH PINION	1

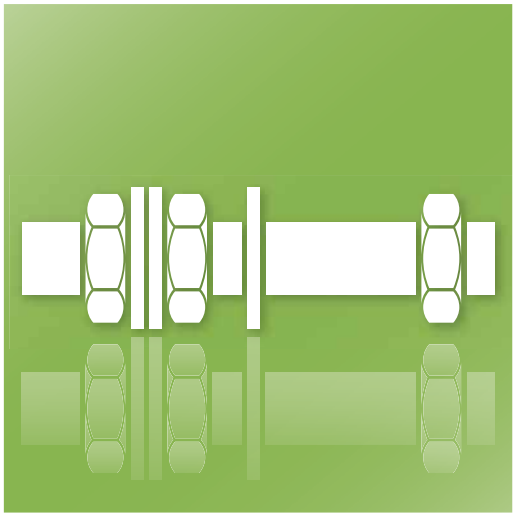
Carrello portante 8 ruote “serie LM”, con guide laterali
Support roller 8 wheels “LM series”, with lateral roller

new





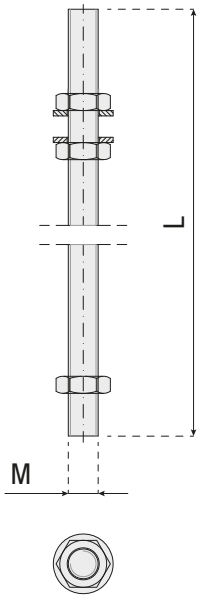
SERIE SERIES	00101100	NOTE NOTES	
LM	301.8LM2	SENZA PIGNONE NO PINION	1
	301.8LM3	CON PIGNONE WITH PINION	1



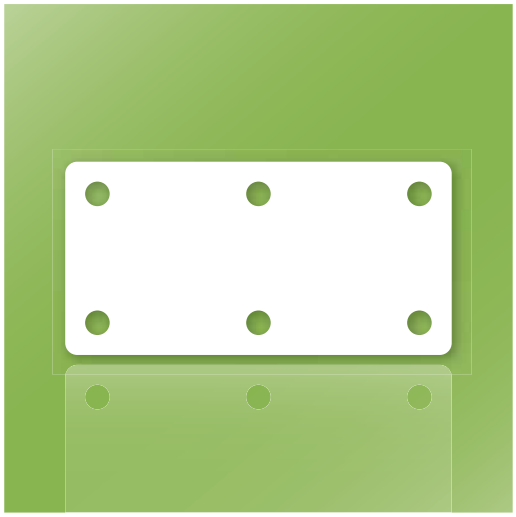
TIRANTI
TIE RODS

Set tiranti per fissaggio e regolazione carrelli
Set tie rods for gate fixing and adjustment





SERIE SERIES	00101100	M (mm)	L (mm)		APPLICAZIONE APPLICATION
S - M	**302.M**	14	250	4	301.S 301.5S 301.5M 301.8M
L	**302.5L**	18	330	4	301.5L
	302.8L	18	330	6	301.5LAG 301.8L 301.8LM
XL	**302.5XL**	22	500	4	301.5XL
	302.8XL	22	500	6	301.5XL

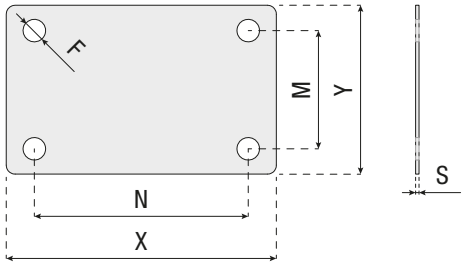


PIASTRE DI FISSAGGIO
FIXING PLATES

Piastra forata di fissaggio
Fixing plate with holes

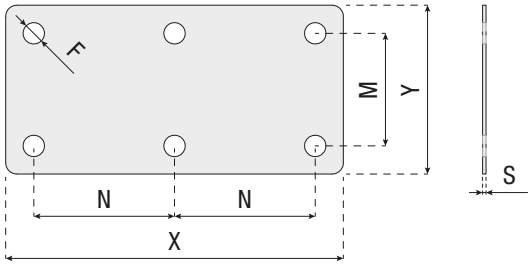
A





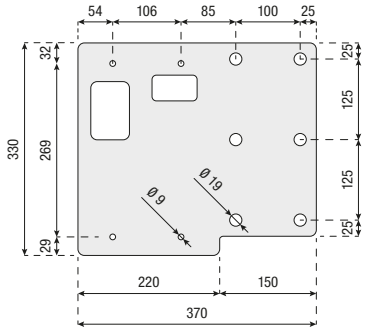
B



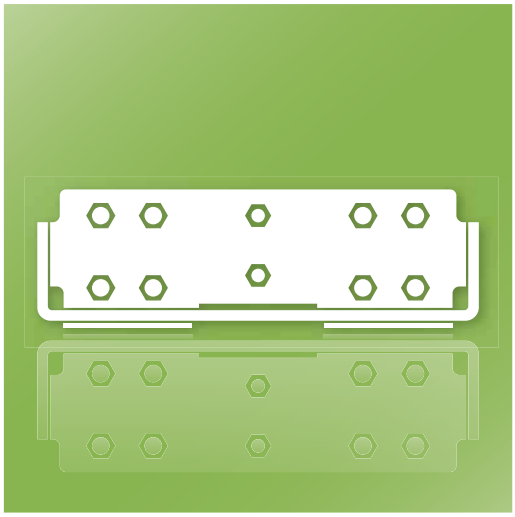


C





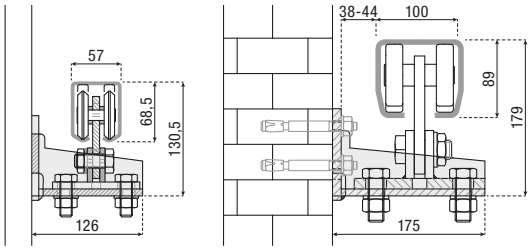
	SERIE SERIES	00101100	X (mm)	Y (mm)	S (mm)	N (mm)	M (mm)	F (mm)		APPLICAZIONE APPLICATION
A	S	**303.S**	120	100	3	94	69	14,5	2	301.S 301.5S
	M	**303.M**	170	110	3	134	75	16	2	301.5M 301.8M
	L	**303.5L**	240	150	3	105	119	19	2	301.5L
	XL	**303.5XL**	265	180	3	215	124	23	2	301.5XL
B	L	**303.8L**	300	150	3	125	100	19	2	301.8LM0 301.5LAG
	XL	**303.8XL**	500	200	3	220	153	23	2	301.8XL
C	LM	**303.8LM1**	-	-	-	-	-	-	2	301.8LM1



MENSOLE FLANGIATE
FLANGED BRACKETS

Mensola flangiata - Fissaggio a parete
Flanged bracket - Pad mount

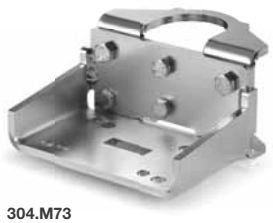




304.MF **304.8LF**

SERIE SERIES	00101100		APPLICAZIONE APPLICATION
S - M	**304.MF**	2	301.S 301.5S 301.5M 301.8M
L	**304.8LF**	2	301.8L

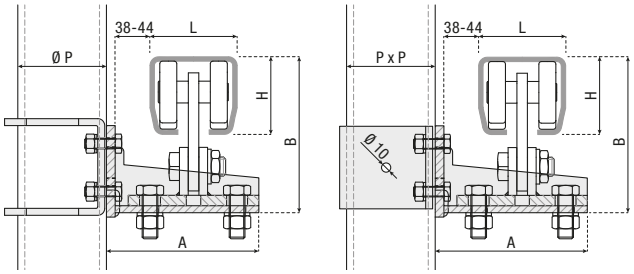
Mensola flangiata - Fissaggio su colonna
Flanged bracket - Post mount



304.M73
304.M80
304.M100
304.M102
304.8L89
304.8L100
304.8L102



304.M80Q
304.M100Q
304.M102Q
304.8L89Q
304.8L100Q
304.8L102Q



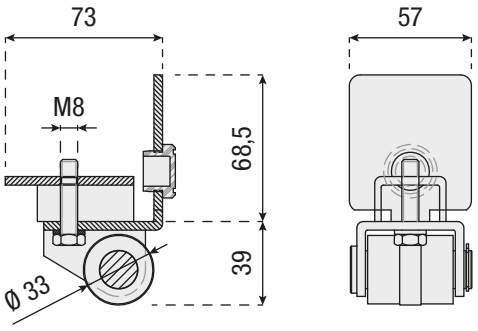
SERIE SERIES	00101100	DIMENSIONI PILASTRO POST DIMENSION	A (mm)	B (mm)	L x H x S (mm)		APPLICAZIONE APPLICATION
S - M	**304.M73**	Ø 73 mm	126	133	60 x 60 x 3,5	2	301.S 301.5S 301.5M 301.8M
	304.M80	Ø 80 mm	126	133	60 x 60 x 3,5	2	
	304.M100	Ø 100 mm	126	133	60 x 60 x 3,5	2	
	304.M102	Ø 102 mm	126	133	60 x 60 x 3,5	2	
	304.M80Q	[] 80 x 80 mm	126	133	60 x 60 x 3,5	2	
	304.M100Q	[] 100 x 100 mm	126	133	60 x 60 x 3,5	2	
	304.M102Q	[] 102 x 102 mm	126	133	60 x 60 x 3,5	2	
L	**304.8L89**	Ø 89 mm	175	179	100 x 89 x 5	2	301.8L
	304.8L100	Ø 100 mm	175	179	100 x 89 x 5	2	
	304.8L102	Ø 102 mm	175	179	100 x 89 x 5	2	
	304.8L89Q	[] 89 x 89 mm	175	179	100 x 89 x 5	2	
	304.8L100Q	[] 100 x 100 mm	175	179	100 x 89 x 5	2	
	304.8L102Q	[] 102 x 102 mm	175	179	100 x 89 x 5	2	



CARRELLI DI GUIDA
GUIDE ROLLERS

Carrello di guida - serie “S”
Guide roller - “S“ series

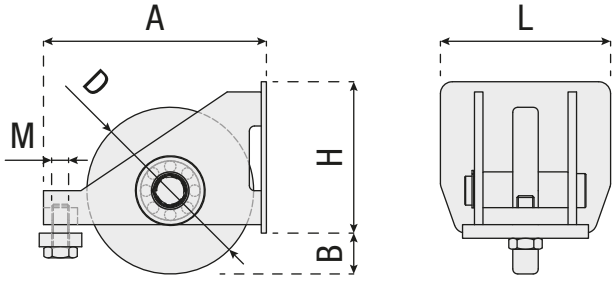




SERIE SERIES	00101100	
S	**307.S**	4

Carrello di guida - serie “M, L, XL”
Guide roller - “M, L, XL“ series





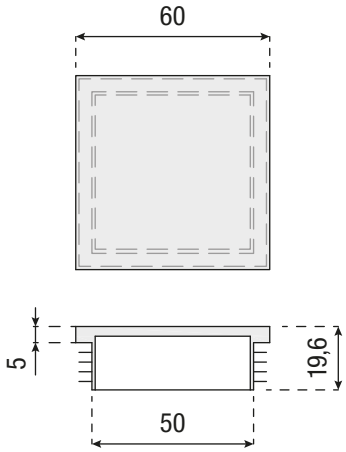
SERIE SERIES	00101100	L (mm)	H (mm)	A (mm)	B (mm)	D (mm)	M (mm)	
M	**307.M**	60	60	98	13,5	68	10	2
L	**307.L**	100	89	130	24	98	10	2
XL	**307.XL**	140	140	170	30	128	12	2



TAPPI
CAPS

Tappo in plastica per monorotaia - serie “S”
Plastic cap for track - “S“ series

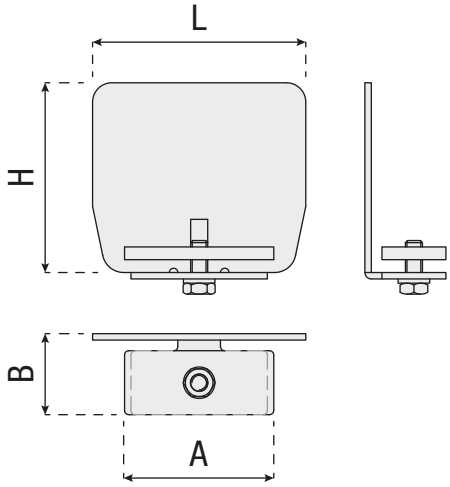




SERIE SERIES	00101100	DIMENSIONI DIMENSIONS	
S	**308.S**	60 x 60 mm	10

Tappo per monorotaia - serie “M, L, XL”
Cap for track - “M, L, XL“ series





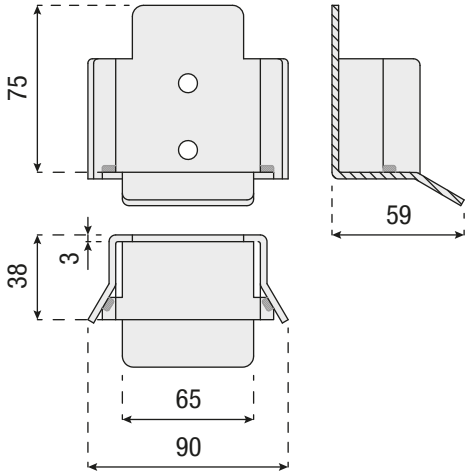
SERIE SERIES	00101100	L (mm)	H (mm)	A (mm)	B (mm)	S (mm)	M (mm)	
M	**309.M**	60	60	42	38	3	8	10
L	**309.L**	100	89	70	38	3	8	4
XL	**309.XL**	140	140	90	38	4	8	4



INCONTRI
LIMIT STOPS

Incontro per cancello autoportante - serie “S”
Cantilever gate limit stop - “S“ series

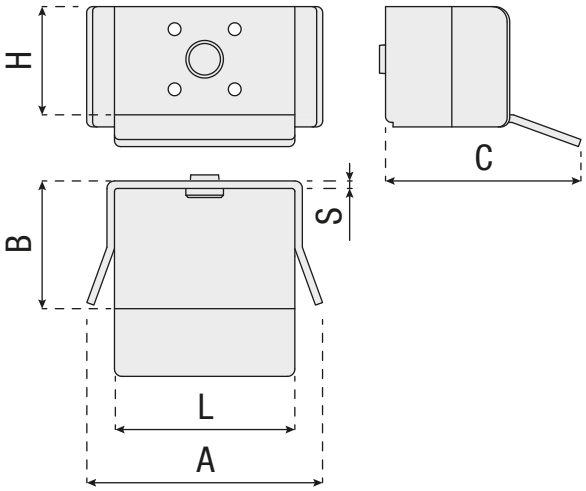




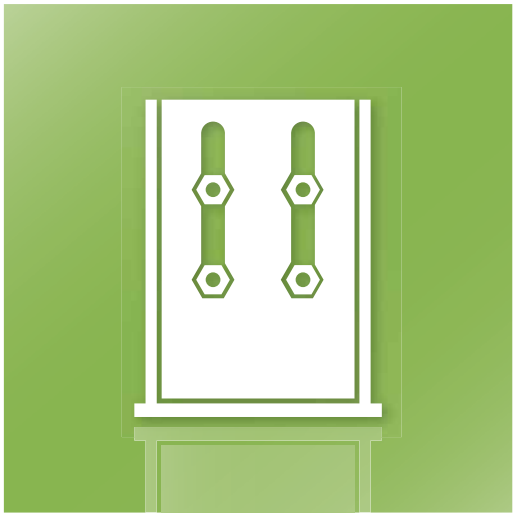
SERIE SERIES	00101100	
S	**310.S**	4

Incontro per cancello autoportante - serie “M, L, XL”
Cantilever gate limit stop - “M, L, XL“ series





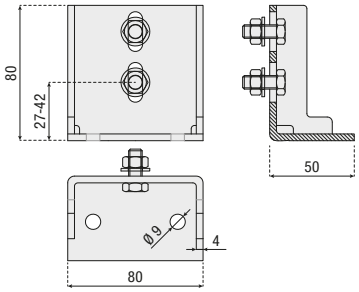
SERIE SERIES	00101100	L (mm)	H (mm)	A (mm)	B (mm)	S (mm)	C (mm)	
M	**310.M**	80	72	112	66	4	120	2
L	**310.L**	120	72	157	80	5	140	2
XL	**310.XL**	120	72	218	103	6	185	2



SUPPORTI
BRACKETS

Supporto a fissare per incontro autoportante - serie “S”
Bracket to be fixed for cantilever limit stop - “S“ series

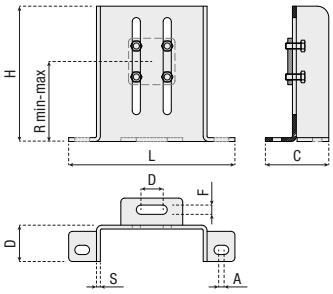




SERIE SERIES	00101100	
S	311.S	2

Supporto a fissare per incontro autoportante - serie “M, L, XL”
Bracket to be fixed for cantilever limit stop - “M, L, XL“ series

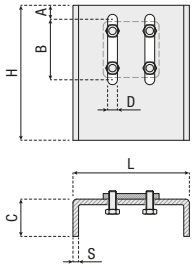




SERIE SERIES	00101100	L (mm)	H (mm)	C (mm)	S (mm)	F (mm)	$R_{MIN-MAX}$ (mm)	A (mm)	B (mm)	D (mm)	
M	311.M	172	150	73	5	12	60 - 110	7	18	38	2
L	311.L	215	175	82	5	12	60 - 135	7	28	47	2
XL	311.XL	255	220	83	5	12	65 - 174	7	28	48	2

Supporto a saldare per incontro autoportante
Bracket to be welded for cantilever limit stop





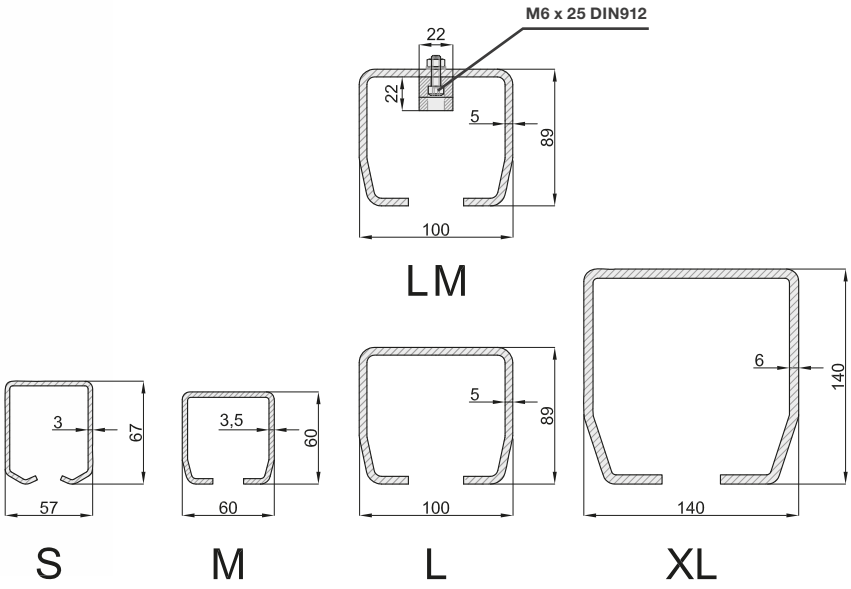
SERIE SERIES	00101100	L (mm)	H (mm)	S (mm)	A (mm)	B (mm)	C (mm)	D (mm)	
S	312.S	66	75	4	10	20	20	8,5	2
M	312.M	100	135	5	15	65	30	10,5	2
L	312.L	125	145	6	15	65	40	10,5	2
XL	312.XL	106,5	200	6	25	109	40	10,5	2



MONOROTAIE
TRACKS

Monorotaia di guida
Track





SERIE SERIES	00101100	L (mm)	L x H x S (mm)	FINITURA FINISHING	PESO ROTAIA TRACK WEIGHT
S	**623.55**	3000	57 x 67 x 3	ZINCATA GALVANIZED	4,51 kg/m
	624.55	4500			
	626.55	6000			
M	**322.3**	3000	60 x 60 x 3,5	NERA BLACK	5,25 kg/m
	322.6	6000			
	323.3	3000		ZINCATA GALVANIZED	
	323.6	6000			
L	**327.3**	3000	100 x 89 x 5	NERA BLACK	11,69 kg/m
	327.6	6000			
	328.3	3000		ZINCATA GALVANIZED	
	328.6	6000			
LM	**(1)**	3000	100 x 89 x 5	NERA BLACK	15,20 kg/m
		6000			
		3000		ZINCATA GALVANIZED	
		6000			
XL	**332.3**	3000	140 x 140 x 6	NERA BLACK	22,05 kg/m
	332.6	6000			
	333.3	3000		ZINCATA GALVANIZED	
	333.6	6000			

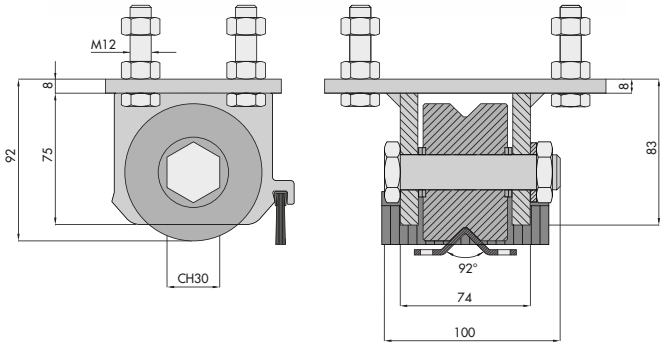
(1) MONOROTAIA SERIE L CON APPLICATA LA CREMAGLIERA COD. 195.2F CON VITI M6X25 DIN912 (ASSEMBLAGGIO A CURA DELL'INSTALLATORE)
TRACK RANGE L WITH INSERTED RACK ITEM CODE. 192.2F WITH SCREWS 6X25 DIN 912 (ASSEMBLING BY THE INSTALLATOR)



SISTEMA AUTOPORTANTE SENZA MONOROTAIA

TRACK FREE CANTILEVER SYSTEM





Valori di applicazione / Range application

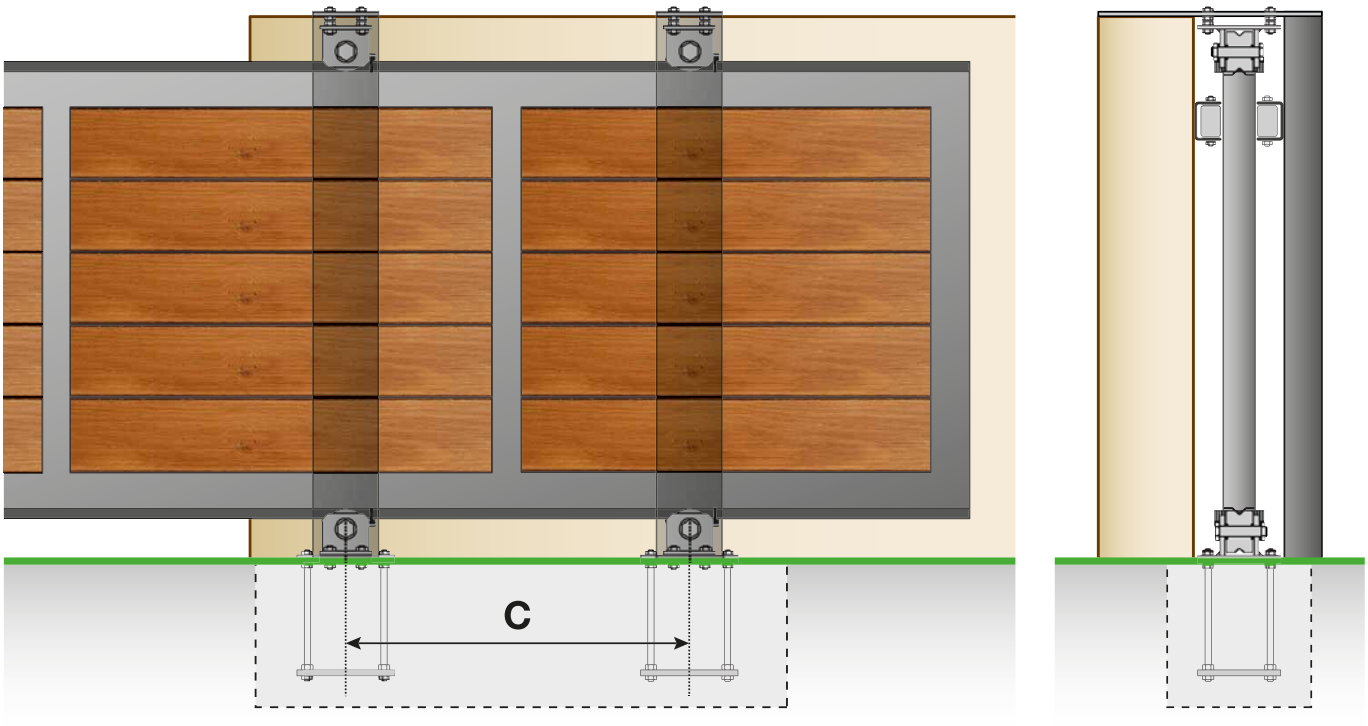
A (m)	P (kg)	C (m)
8,0	300	2,51
6,0	350	2,15
4,0	400	1,65
4,0	300	1,10
3,0	500	1,80

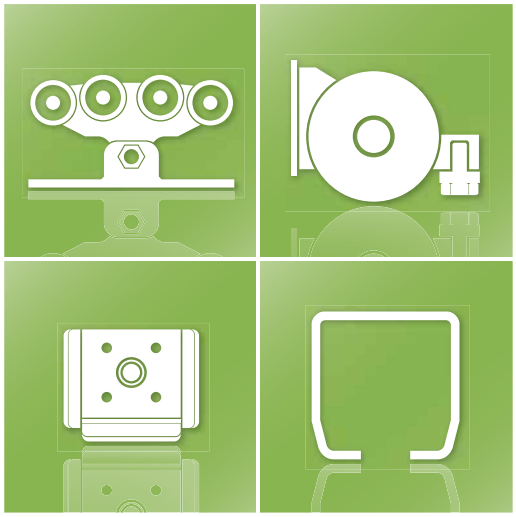
Vantaggi / Plus

- Facile e veloce da installare.
- Caratteristiche meccaniche comparabili all'autoportante standard (serie "LARGE") con, in aggiunta, tutti i vantaggi di un sistema semplice e compatto, senza monorotaia.

- Easy and quick installation.
- It assures the performances of a standard cantilever gate (serie "LARGE") with, in addition, all the assets of a simply and compact system, without track.

00101100	GOLA GROOVE	
136.80	V 92°	2
137.80	Ø 20	2





KIT COMPLETI
COMPLETE SETS

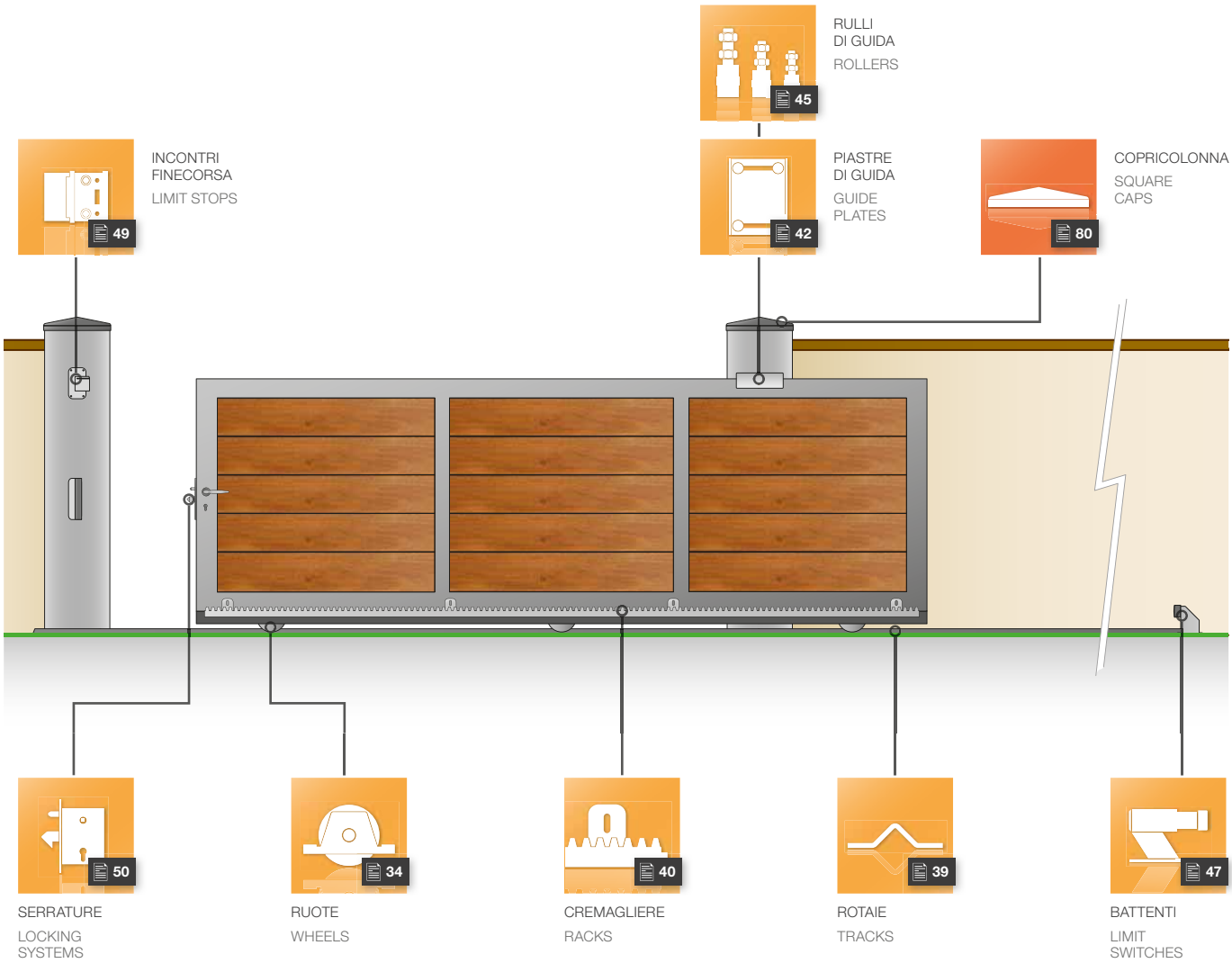
KIT 301.5M 00	 301.5M [2]	 307.M [1]	 310.M [1]	 322.6 [1]				
KIT 301.5M 01				 323.6 [1]				
KIT 301.8M 00	 301.8M [2]			 322.6 [1]				
KIT 301.8M 01				 323.6 [1]				
KIT 301.5L 00	 301.5L [2]	 307.L [1]	 310.L [1]	 327.3 [1] 327.6 [1]				
KIT 301.5L 01				 328.3 [1] 328.6 [1]				
KIT 301.8L 00	 301.8L [2]			 327.3 [1] 327.6 [1]				
KIT 301.8L 01				 328.3 [1] 328.6 [1]				
KIT 301.8LM 5	 301.8LM0 [1] 301.8LM1 [1]			 327.3 [1] 327.6 [1]				
KIT 301.8LM 3				 328.3 [1] 328.6 [1]	 195.2F [4]	 305.LM [1] 303.8LM1 [1]	 309.L [1]	 9592436 [1] KBULL15M.S-HM
KIT 301.5XL 0	 301.5XL [2]	 307.XL [1]	 310.XL [1]	 332.3 [1] 332.6 [1]				
KIT 301.5XL 1				 333.3 [1] 333.6 [1]				
KIT 301.8XL 0	 301.8XL [2]			 332.6 [1]				
KIT 301.8XL 1				 333.6 [1]				





CANCELLI SCORREVOLI SU ROTAIA

SLIDING GATES ON TRACK





1 *un cuscinetto*
one bearing

2 *due cuscinetti*
two bearings

RUOTE
WHEELS

Ruote zincate con bullone semplice
Galvanized wheels with bolt

- *Produzione ruote a disegno su specifiche del cliente (quantità da concordare)*
- *Custom wheels on demand (quantity to be agreed)*



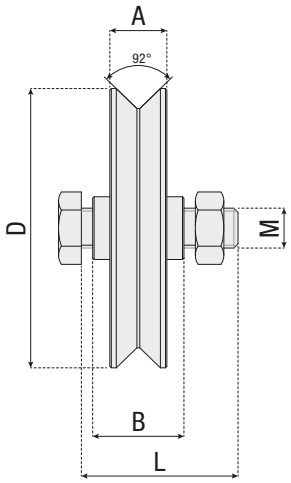
Durata cuscinetto / Bearing's lifetime

DIAMETRO DIAMETER	PERCORRENZA DISTANCE
50 mm	120 km
60 mm	150 km
80 mm	220 km
90 mm	250 km
100 mm	280 km
120 mm	345 km
140 mm	400 km
160 mm	450 km
200 mm	580 km
250 mm	750 km
300 mm	900 km

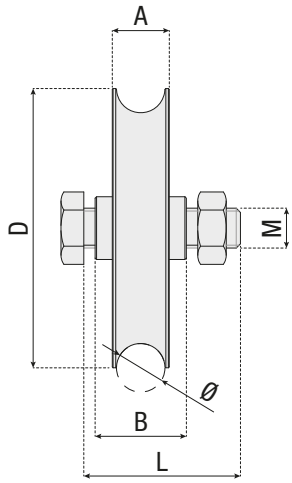
Durata in anni / Duration/years

$$\frac{\text{PERCORRENZA (km) DISTANCE (km)} \times 1000}{365 \times \text{PERCORRENZA GIORNALIERA (m) DAILY DISTANCE (m)}}$$

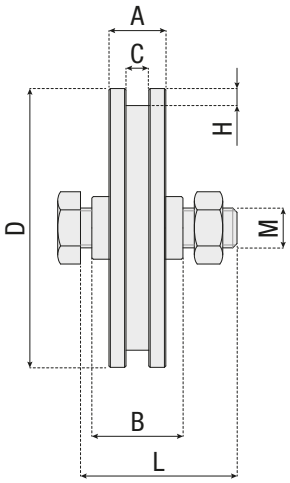
- *Disponibile versione inox su richiesta (quantità da concordare)*
- *Stainless steel version available on demand (quantity to be agreed)*



Con gola a V
With V groove



Con gola tonda
With half-round groove



Con gola quadra
With square groove

Con gola a V / With V groove

	00101100	D (mm)	A (mm)	B (mm)	GOLA GROOVE	PORTATA CAPACITY	BULLONE BOLT	
1	**100.50**	48	17	24	V 92°	100 kg	M10x45	10
	100.60	58	20	26	V 92°	200 kg	M12x50	10
	100.80	78	20	32	V 92°	250 kg	M14x60	6
	100.90	88	20	32	V 92°	250 kg	M14x60	6
	100.100	98	20	32	V 92°	250 kg	M14x60	4
	100.120	118	20	32	V 92°	250 kg	M14x60	4
	100.140	138	20	32	V 92°	250 kg	M14x60	4
	100.160	158	20	32	V 92°	250 kg	M14x60	2
	100.200	198	20	32	V 92°	250 kg	M14x60	2
2	**101.80**	78	30	34	V 92°	500 kg	M14x70	4
	101.100	98	30	34	V 92°	500 kg	M14x70	4
	101.120	118	30	34	V 92°	500 kg	M14x70	4
	101.140	138	30	34	V 92°	500 kg	M14x70	4
	101.160	158	30	34	V 92°	500 kg	M14x70	2
	101.200	198	30	34	V 92°	500 kg	M14x70	2
	101.250	248	38	48	V 92°	800 kg	M16x80	2
	101.300	298	38	48	V 92°	800 kg	M16x80	2

Con gola tonda / With half-round groove

	00101100	D (mm)	A (mm)	B (mm)	Ø GOLA Ø GROOVE	PORTATA CAPACITY	BULLONE BOLT	
1	**102.60**	58	20	26	16	200 kg	M12x50	10
	102.80	78	20	32	16	250 kg	M14x60	6
	102.90	88	20	32	16	250 kg	M14x60	6
	102.100	98	20	32	16	250 kg	M14x60	4
	102.120	118	20	32	16	250 kg	M14x60	4
	102.140	138	20	32	16	250 kg	M14x60	4
	102.160	158	20	32	16	250 kg	M14x60	2
	102.200	198	20	32	16	250 kg	M14x60	2
	103.80	78	24	32	20	250 kg	M14x60	6
	103.90	88	24	32	20	250 kg	M14x60	6
	103.100	98	24	32	20	250 kg	M14x60	4
	103.120	118	24	32	20	250 kg	M14x60	4
	103.140	138	24	32	20	250 kg	M14x60	4
2	**104.80**	78	30	34	20	500 kg	M14x70	6
	104.100	98	30	34	20	500 kg	M14x70	4
	104.120	118	30	34	20	500 kg	M14x70	4
	104.140	138	30	34	20	500 kg	M14x70	4
	104.160	158	30	34	20	500 kg	M14x70	2
	104.200	198	30	34	20	500 kg	M14x70	2
	104.250	248	38	48	20	800 kg	M16x80	2
	104.300	298	38	48	20	800 kg	M16x80	2

Con gola quadra / With square groove

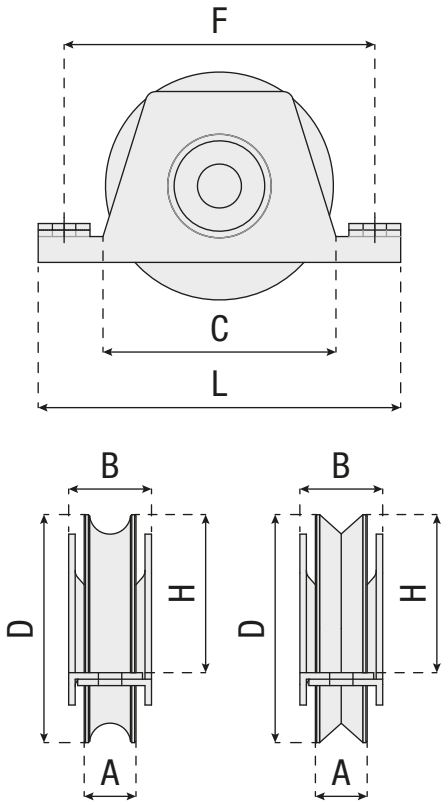
	00101100	D (mm)	A (mm)	B (mm)	C x H	PORTATA CAPACITY	BULLONE BOLT	
1	**105.60**	58	20	32	8x6	200 kg	M12x50	10
	105.80	78	20	32	8x6	250 kg	M14x60	6
	105.90	88	20	32	8x6	250 kg	M14x60	4
	105.100	98	20	32	8x6	250 kg	M14x60	4
	105.120	118	20	32	8x6	250 kg	M14x60	4
	105.140	138	20	32	8x6	250 kg	M14x60	2
	105.160	158	20	32	8x6	250 kg	M14x60	2
	105.200	198	20	32	8x6	250 kg	M14x60	2
2	**106.100**	98	30	34	20x10	500 kg	M14x70	4
	106.120	118	30	34	20x10	500 kg	M14x70	4
	106.140	138	30	34	20x10	500 kg	M14x70	2
	106.160	158	30	34	20x10	500 kg	M14x70	2
	106.200	198	30	34	20x10	500 kg	M14x70	2

Ruote zincate con supporto interno
Galvanized wheels with internal support bracket

1 *un cuscinetto* / *one bearing*

2 *due cuscinetti* / *two bearings*





Con gola a V / With V groove

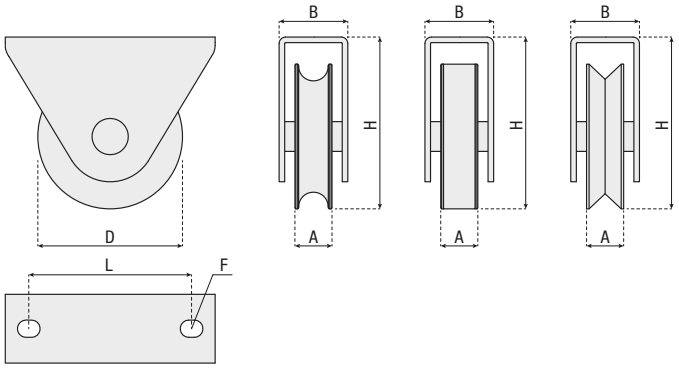
	00101100	D (mm)	A (mm)	B (mm)	C (mm)	H (mm)	L (mm)	F (mm)	GOLA GROOVE	PORTATA CAPACITY	Ø FORI Ø HOLES	
1	**109.80**	78	20	33	90	53	140	120	V 92°	250 kg	9	6
	109.90	88	20	33	90	58	140	120	V 92°	250 kg	9	6
	109.100	98	20	33	90	73	140	120	V 92°	250 kg	9	4
	109.120	118	20	33	130	89	190	165	V 92°	250 kg	9	2
	109.140	138	20	33	130	99	190	165	V 92°	250 kg	9	2
2	**110.90**	88	30	45	90	58	140	120	V 92°	500 kg	9	6
	110.100	98	30	45	90	73	140	120	V 92°	500 kg	9	2
	110.120	118	30	45	130	89	190	165	V 92°	500 kg	9	2
	110.140	138	30	45	130	99	190	165	V 92°	500 kg	9	2
	110.160	158	30	41	170	127	260	230	V 92°	500 kg	9	2
	110.200	198	30	41	200	147	260	230	V 92°	500 kg	9	2

Con gola tonda / With half-round groove

	00101100	D (mm)	A (mm)	B (mm)	C (mm)	H (mm)	L (mm)	F (mm)	Ø GOLA Ø GROOVE	PORTATA CAPACITY	Ø FORI Ø HOLES	
1	**111.80**	78	20	33	90	53	140	120	16	250 kg	9	6
	111.90	88	20	33	90	58	140	120	16	250 kg	9	6
	111.100	99	20	33	90	73	140	120	16	250 kg	9	4
	111.120	118	20	33	130	89	190	165	16	250 kg	9	2
	111.140	138	20	33	130	99	190	165	16	250 kg	9	2
	112.80	78	24	33	90	53	140	120	20	250 kg	9	6
	112.90	88	24	33	90	58	140	120	20	250 kg	9	6
	112.100	98	24	33	90	73	140	120	20	250 kg	9	4
	112.120	118	24	33	130	89	190	165	20	250 kg	9	2
	112.140	138	24	33	130	99	190	165	20	250 kg	9	2
2	**113.90**	88	30	45	90	58	140	120	20	500 kg	9	6
	113.100	98	30	45	90	73	140	120	20	500 kg	9	4
	113.120	118	30	45	130	89	190	165	20	500 kg	9	2
	113.140	138	30	45	130	99	190	165	20	500 kg	9	2
	113.160	158	30	41	170	127	260	230	20	500 kg	9	2
	113.200	198	30	41	200	147	260	230	20	500 kg	9	2

Ruota con supporto esterno
Wheel with external support bracket





Con gola piana / With plane

00101100	D (mm)	A (mm)	B (mm)	H (mm)	L (mm)	F (mm)	GOLA GROOVE	PORTATA CAPACITY	
125.60.P	58	20	26	64	63,5	6,5 X 8,5	PIANA / PLANE	200 kg	6
125.70.P	70	20	37	92	90	8,5 X 12,5	PIANA / PLANE	200 kg	6

Con gola a V / With V groove

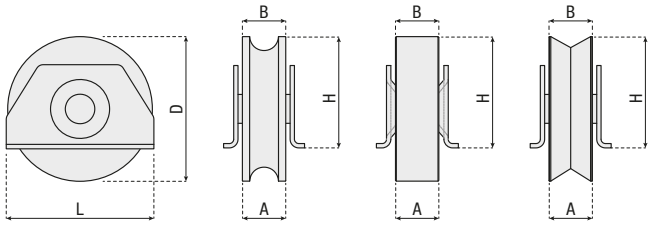
	00101100	D (mm)	A (mm)	B (mm)	H (mm)	L (mm)	F (mm)	GOLA GROOVE	PORTATA CAPACITY	
1	**125.60**	58	20	26	64	63,5	6,5 X 8,5	V 92°	200 kg	6
	125.80	78	20	37	96	90	8,5 X 12,5	V 92°	250 kg	6
	125.100	98	20	37	106	90	8,5 X 12,5	V 92°	250 kg	4

Con gola tonda / With half-round groove

	00101100	D (mm)	A (mm)	B (mm)	H (mm)	L (mm)	F (mm)	Ø GOLA Ø GROOVE	PORTATA CAPACITY	
1	**126.80**	78	20	37	96	90	8,5 X 12,5	16	250 kg	6
	126.100	98	20	37	106	90	8,5 X 12,5	16	250 kg	6
	127.80	78	24	37	96	140	8,5 X 12,5	20	250 kg	6
	127.100	98	24	37	106	190	8,5 X 12,5	20	250 kg	6

Ruota con fiancate a saldare
Wheel with side panels to be welded





Con gola piana / With plane

00101100	D (mm)	A (mm)	B (mm)	H (mm)	L (mm)	GOLA GROOVE	PORTATA CAPACITY	
129.90.P	88	20	33	71	100	PIANA / PLANE	250 kg	6

Con gola a V / With V groove

	00101100	D (mm)	A (mm)	B (mm)	H (mm)	L (mm)	GOLA GROOVE	PORTATA CAPACITY	
1	**129.80**	78	20	33	66	100	V 92°	250 kg	6
	129.90	88	20	33	71	100	V 92°	250 kg	6
	129.100	98	20	33	76	100	V 92°	250 kg	6
	129.120	118	20	33	96	120	V 92°	250 kg	2
	129.140	138	20	33	106	120	V 92°	250 kg	2
2	**128.90**	88	30	45	71	100	V 92°	500 kg	6
	128.100	98	30	45	76	100	V 92°	500 kg	6
	128.120	118	30	45	96	120	V 92°	500 kg	2
	128.140	138	30	45	106	120	V 92°	500 kg	2

Con gola tonda / With half-round groove

	00101100	D (mm)	A (mm)	B (mm)	H (mm)	L (mm)	Ø GOLA Ø GROOVE	PORTATA CAPACITY	
1	**130.80**	78	20	33	66	100	16	250 kg	6
	130.90	88	20	33	71	100	16	250 kg	6
	130.100	98	20	33	76	100	16	250 kg	2
	130.120	118	20	33	96	120	16	250 kg	2
	130.140	138	20	33	106	120	16	250 kg	2
2	**131.90**	88	30	45	71	100	20	500 kg	6
	131.100	98	30	45	76	100	20	500 kg	6
	131.120	118	30	45	96	120	20	500 kg	2
	131.140	138	30	45	106	120	20	500 kg	2

Ruota per basculanti con gola tonda
Overhead gate wheels with round groove

1 *un cuscinetto* / *one bearing*

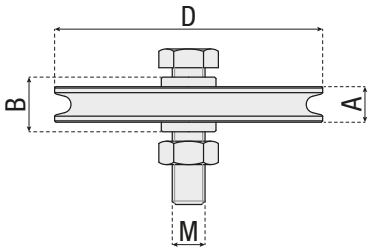
2 *due cuscinetti* / *two bearings*



132 / 133



134.100.5

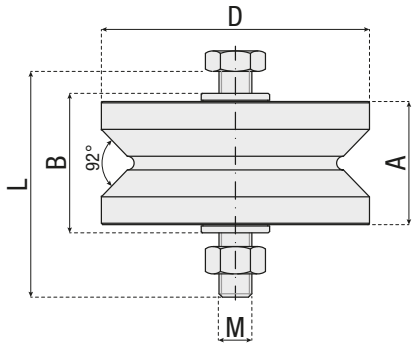


00101100	D (mm)	A (mm)	B (mm)	Ø GOLA Ø GROOVE	PORTATA CAPACITY	BULLONE BOLT	NOTE NOTES	
132.60	58	13	20	6	200 kg	M10x40	ACCIAIO / STEEL	20
132.60.5	58	13	20	5	200 kg	M10x40	ACCIAIO / STEEL	20
132.80	78	13	20	6	200 kg	M12x50	ACCIAIO / STEEL	12
132.90	88	13	20	6	200 kg	M12x50	ACCIAIO / STEEL	12
132.100	98	13	20	6	200 kg	M12x50	ACCIAIO / STEEL	10
132.120	118	13	20	6	200 kg	M12x50	ACCIAIO / STEEL	8
133.60	58	15	20	8	200 kg	M10x40	ACCIAIO / STEEL	20
133.80	78	15	20	8	200 kg	M12x50	ACCIAIO / STEEL	12
133.90	88	15	20	8	200 kg	M12x50	ACCIAIO / STEEL	12
133.100	98	15	20	8	200 kg	M12x50	ACCIAIO / STEEL	10
133.120	118	15	20	8	200 kg	M12x50	ACCIAIO / STEEL	8
133.200	198	18	21	8	250 kg	M14x60	ACCIAIO / STEEL	4
134.100.5	100	18	26	5	100 kg	M12x50	NYLON / NYLON	10

1

Ruota 4” e 6”
4” and 6” wheel





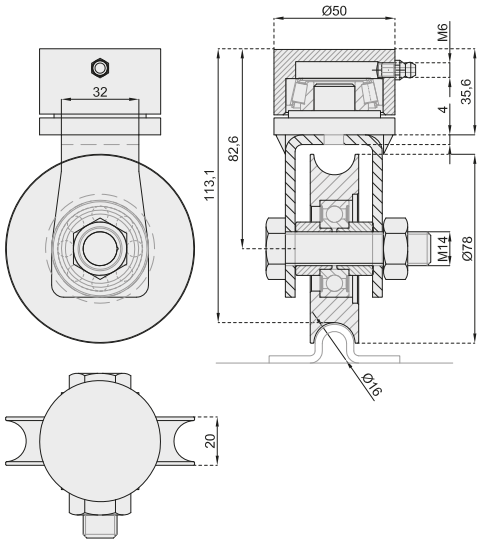
00101100	D (mm)	A (mm)	B (mm)	Ø GOLA Ø GROOVE	PORTATA CAPACITY	BULLONE BOLT	FINITURA FINISHING	
135.100	98	45	51	V 92°	2200 lb	UNC 1/2” x 3 1/4”	ACCIAIO ZINCATO / STEEL GALVANIZED	1
135.100G	98	45	51	V 92°	2200 lb	UNC 1/2” x 3 1/4”	ZINCATO GIALLO / YELLOW GALVANIZED STEEL	1
135.148	148	45	51	V 92°	2800 lb	UNC 5/8” x 3”1/4	ACCIAIO ZINCATO / STEEL GALVANIZED	1
135.148G	148	45	51	V 92°	2800 lb	UNC 5/8” x 3”1/4	ZINCATO GIALLO / YELLOW GALVANIZED STEEL	1

2

Ruota con supporto rotante a saldare
Swing folding gate galvanized wheel with rotating support

new





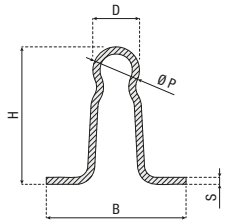
00101100	
140.2.80	2

ROTAIE
TRACKS

Rotaia a cementare per cancelli e portoni
Track to be cemented for gates and doors

new

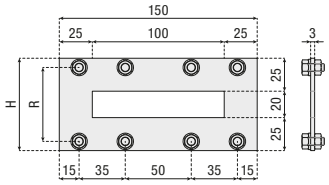




00101100	B (mm)	H (mm)	D (mm)	S (mm)	Ø P (mm)	LUNGHEZZA LENGHT
181.3	50	50	16	2,5	10	3000 mm
181.6	50	50	16	2,5	10	6000 mm
182.3	60	59	20	3	14	3000 mm
182.6	60	59	20	3	14	6000 mm

Piastrina di giunzione per rotaie a cementare
Joint plate for tracks to be cemented

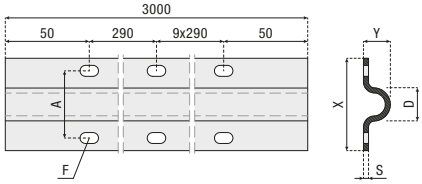




00101100	R (mm)	H (mm)	
183.1	56	70	20
183.2	66	80	20

Rotaia a fissare per cancelli e portoni, con gola tonda
Track to be fixed for gates and doors, with half-round groove



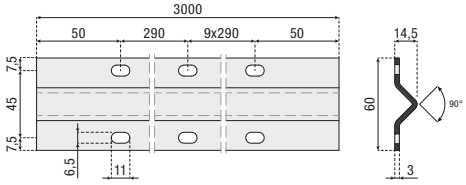


00101100	D (mm)	X (mm)	Y (mm)	A (mm)	F (mm)	S (mm)	FINITURA FINISHING
186.3	16	53	16	38	ø6,5x10	3	DX51D ZINCATO GALVANIZED
187.3	20	55	16	40	ø6,5x10	3	
2186.3	16	53	16	38	ø6,5x10	3	AISI304 INOX STAINLESS STEEL
2187.3	20	55	16	40	ø6,5x10	3	

Versione inox su richiesta, a quantità
Stainless steel track, quantity on demand

Rotaia a fissare per cancelli e portoni, con gola a V
Track to be fixed for gates and doors, with V groove

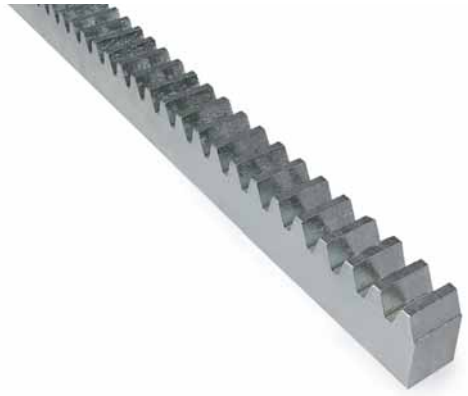


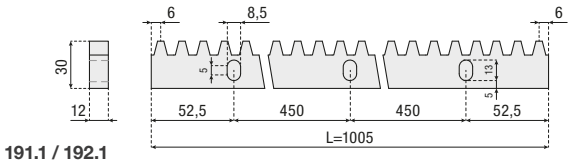


00101100	L (mm)
190.3	3000

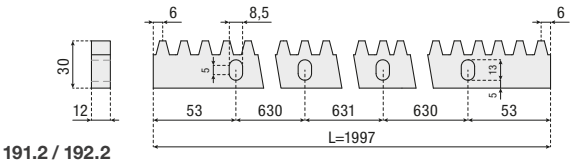
CREMAGLIERE
RACKS

Cremagliera
Rack

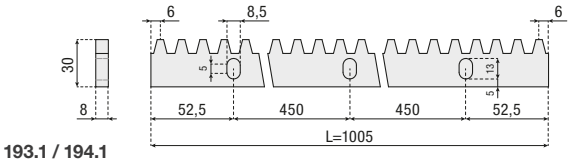




191.1 / 192.1

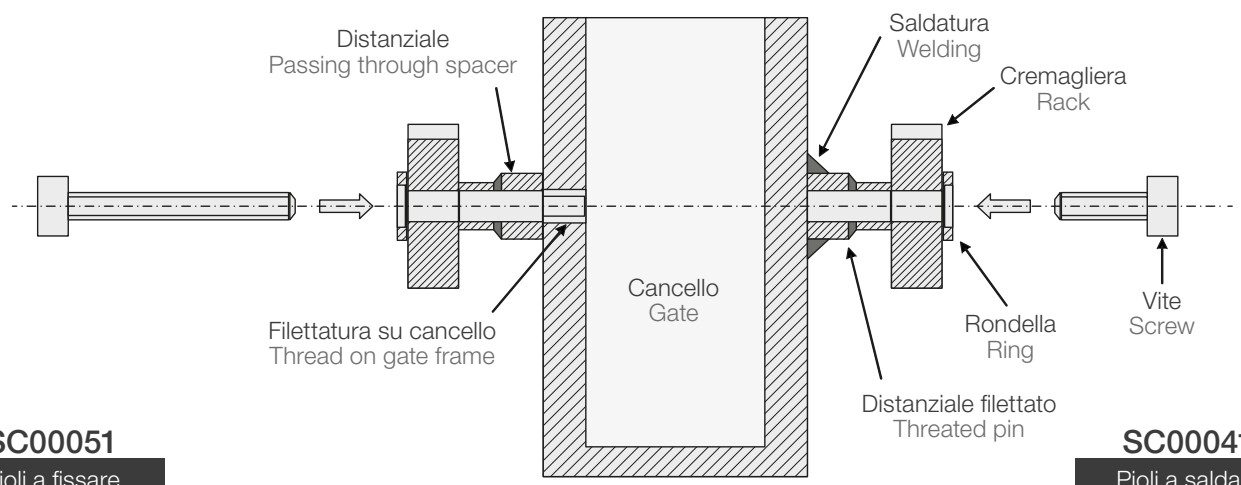


191.2 / 192.2



193.1 / 194.1

00101100	H x L (mm)	MODULO MODULE	L (mm)	TIPO TYPE
191.1	30x12	4	1005	PIOLI A SALDARE / PIP TO BE WELDED
191.2	30x12	4	1997	PIOLI A SALDARE / PIP TO BE WELDED
192.1	30x12	4	1005	PIOLI A FISSARE / PIP TO BE FIXED
192.2	30x12	4	1997	PIOLI A FISSARE / PIP TO BE FIXED
193.1	30x8	4	1005	PIOLI A SALDARE / PIP TO BE WELDED
194.1	30x8	4	1005	PIOLI A FISSARE / PIP TO BE FIXED

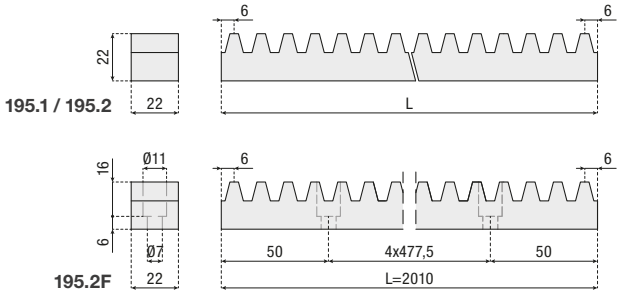


SC00051
Pioli a fissare
Pip to be fixed

SC00041
Pioli a saldare
Pip to be welded

Cremagliera
Rack

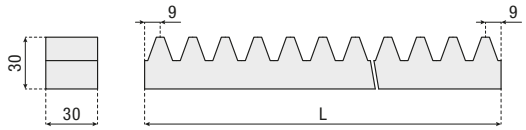




00101100	H x L (mm)	MODULO MODULE	L (mm)	TIPO TYPE
195.1	22x22	4	1005	-
195.2	22x22	4	1997	-
195.2F	22x22	4	2010	M6 DIN912 (5px)

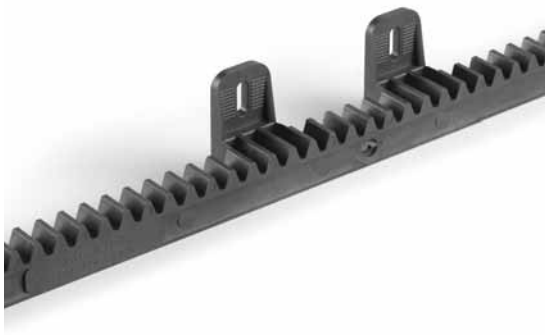
Cremagliera
Rack

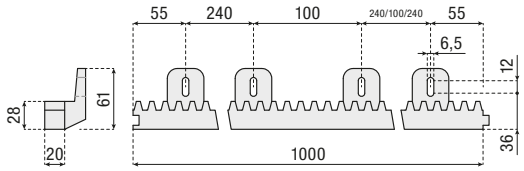




00101100	H x L (mm)	MODULO MODULE	L (mm)	TIPO TYPE
196.1	30x30	6	998	-
196.2	30x30	6	1997	-

Cremagliera in nylon con anima in acciaio
Nylon rack with steel core





00101100	H x L (mm)	MODULO MODULE	L (mm)
197.1	28x22	4	1000

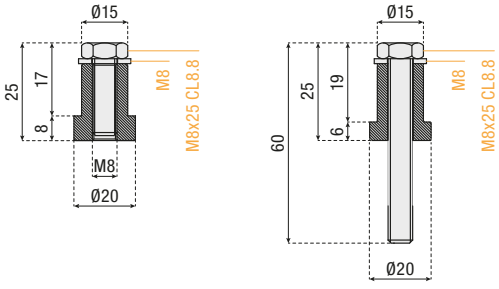
Piolino
Pip



SC00041

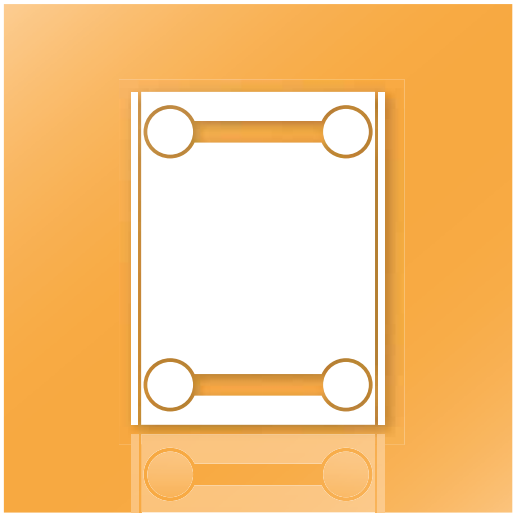


SC00051



SC00041 **SC00051**

00101100	TIPO TYPE	
SC00041	A SALDARE / TO BE WELDED	MIN. 50
SC00051	A FISSARE / TO BE FIXED	MIN. 50



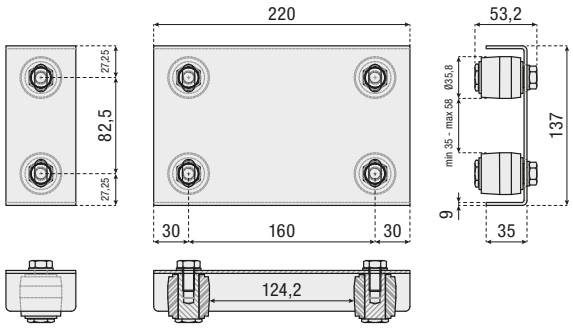
PIASTRE DI GUIDA
GUIDE PLATES

Piastre di guida a saldare
Guide plates to be welded



200.4

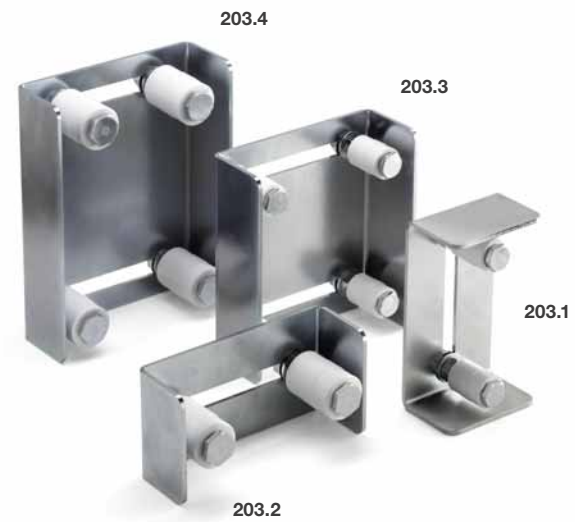
200.3



200.3 200.4

00101100	N° RULLI N° ROLLERS	
200.3	2	8
200.4	4	4

Piastre di guida a saldare con asola lunga per colonne in ferro
Guide plates to be welded with long hole for iron columns

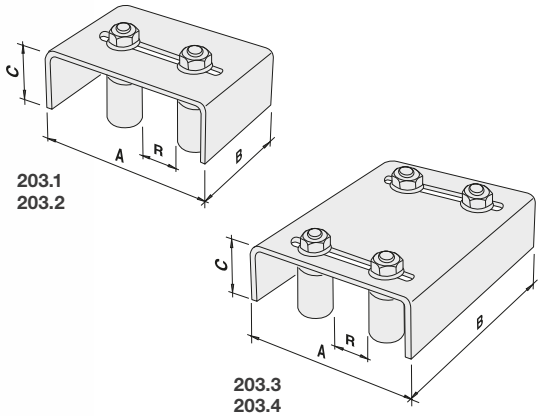


203.4

203.3

203.1

203.2

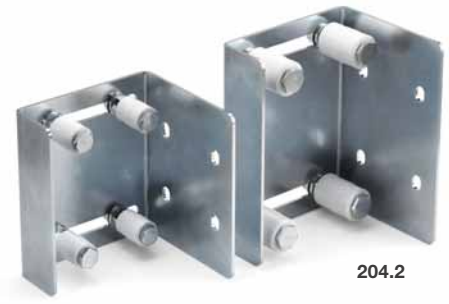


203.1
203.2

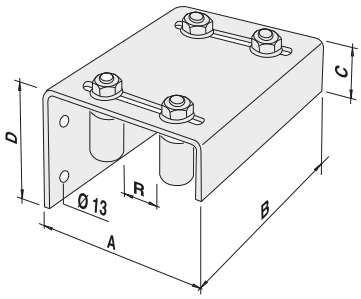
203.3
203.4

00101100	A (mm)	B (mm)	C (mm)	$R_{MIN-MAX}$ (mm)	N° RULLI N° ROLLERS	
203.1	180	100	65	30-100	2-Ø30	4
203.2	190	100	65	40-80	2-Ø42	4
203.3	180	200	70	30-100	4-Ø30	4
203.4	190	250	70	40-80	4-Ø42	4

Piastre di guida a fissare con asola lunga
Guide plates to be fixed with long hole



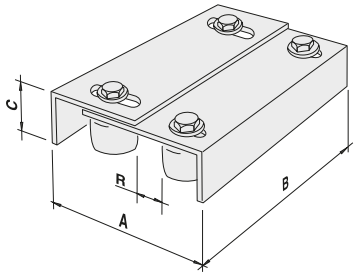
204.1 204.2



00101100	A (mm)	B (mm)	C (mm)	D (mm)	$R_{MIN-MAX}$ (mm)	N° RULLI N° ROLLERS	
204.1	180	200	70	160	30-100	4-Ø30	4
204.2	190	250	70	160	40-80	4-Ø42	4

Piastre di guida regolabili a saldare
Adjustable guide plates to be welded

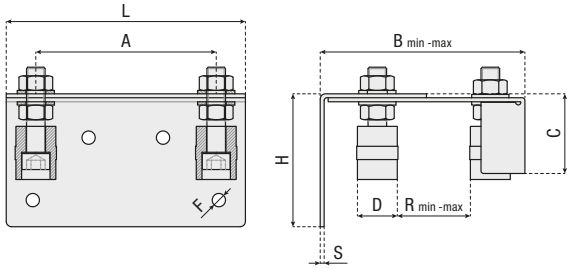




00101100	$A_{MIN-MAX}$ (mm)	B (mm)	C (mm)	$R_{MIN-MAX}$ (mm)	N° RULLI N° ROLLERS	
205.3	133-182	200	50	40-60	4-Ø36	4
205.4	200-250	350	72	60-100	4-Ø42	4

Piastre di guida regolabili a fissare
Adjustable guide plates to be fixed



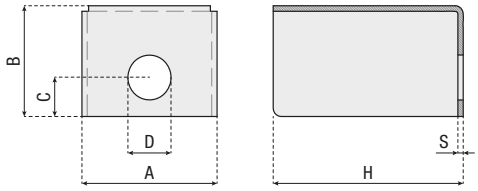


00101100	$R_{MIN-MAX}$ (mm)	L (mm)	H (mm)	A (mm)	$R_{MIN-MAX}$ (mm)	C (mm)	D (mm)	F (mm)	S (mm)	
208.1	40-80	180	100	136	215-225	60	30	10	3	2
208.2	80-120	280	160	228	154-198	77	40	10	4	2

Protezione antinfortunistica per rulli in nylon
Accident prevention for nylon roller



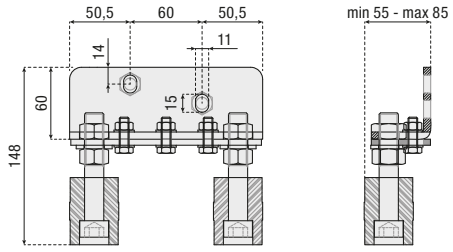
209.03 209.02



00101100	H (mm)	A (mm)	B (mm)	C (mm)	D (mm)	S (mm)	APPLICAZIONE APPLICATION	
209.02	56	40,5	32	11	14,1	2	220.2	12
209.03	71	50,5	39,8	14	16,1	2	220.3	12

Angolare di guida regolabili per cancelli scorrevoli
Adjustable corner guide for sliding gates

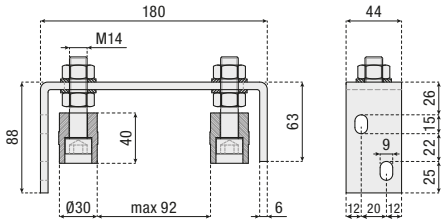




	N° RULLI N° ROLLERS	
211.3B	2 x D40 (**220.3**)	2

Staffa di guida a due rulli a fissare
Bracket guide to be fixed with two rollers

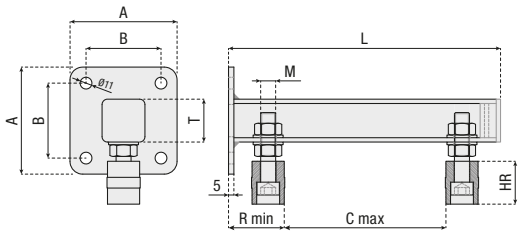




212.0	4

Staffa di guida a fissare
A bracket guide to be fixed

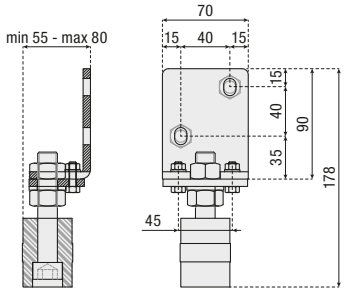




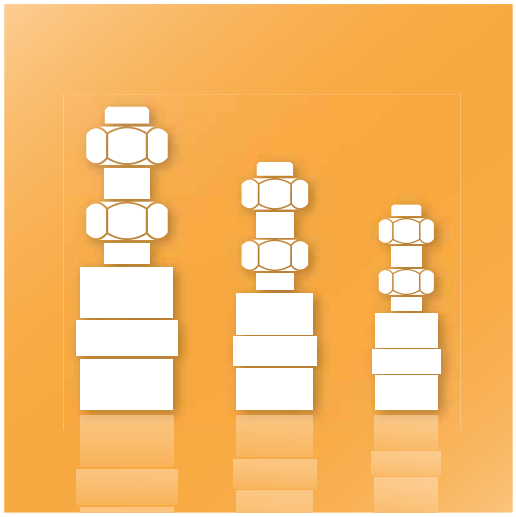
	A (mm)	B (mm)	C_{MAX} (mm)	L (mm)	M (mm)	R_{MIN} (mm)	T (mm)	HR (mm)	DRxHR (mm)	
213.2B	100	70	150	250	14	53	40	40	D30x40	2
213.3B	120	90	188	300	16	58	50	56	D40x56	2

Angolare di guida regolabile per cancelli scorrevoli
Adjustable corner guide for sliding gates





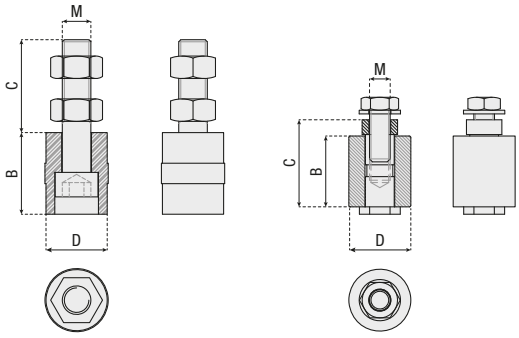
	N° RULLI N° ROLLERS	
214.3B	1 x D40 (**220.3**)	2



RULLI DI GUIDA
ROLLERS

Rulli guida in nylon bianco
White nylon guide rollers





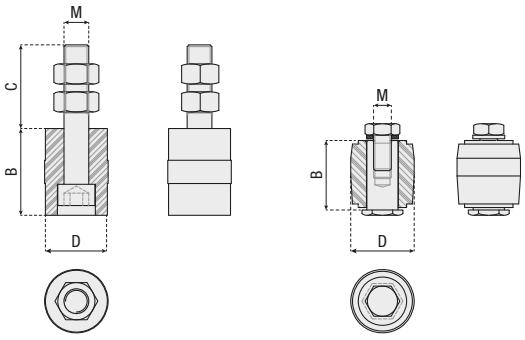
220
CON PERNO
WITH PIN

221
CON RONDELLA DISTANZIATRICE
WITH SPACER WASHER

00101100	D (mm)	B (mm)	C (mm)	M (mm)	
220.1	25	40	42	12	20
220.2	30	40	45	14	16
220.3	40	56	52	16	12
220.4	52	48	48	20	12
221.1	35	30	36	10	20
221.2	42	48	60	14	12
221.3	52	48	64	16	12

Rulli guida in nylon nero
Black nylon guide rollers





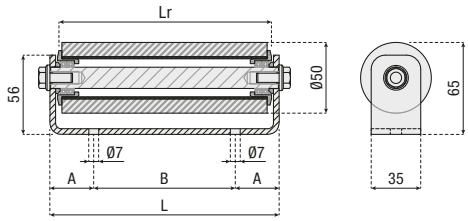
222
CON PERNO
WITH PIN

223
CON RONDELLA DISTANZIATRICE
WITH SPACER WASHER

00101100	D (mm)	B (mm)	C (mm)	M (mm)	
222.1	25	40	42	12	20
222.2	30	40	45	14	16
222.3	40	56	52	16	12
223.1	36	38	-	10	16
223.2	36	38	-	10	16

Rulli guida in gomma NBR SH80
Rubber NBR SH80 guide rollers

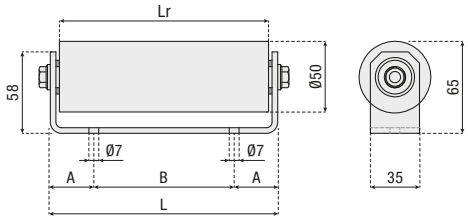




00101100	D (mm)	LR (mm)	L (mm)	H (mm)	B (mm)	I (mm)	
225.03	50	75	87	65	35	40	8
225.06	50	150	162	65	35	40	4
225.12	50	300	312	65	35	40	8

Rulli guida in nylon bianco
White nylon guide rollers

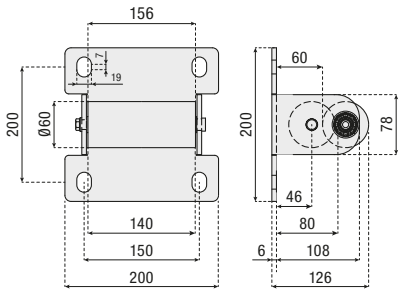




00101100	D (mm)	LR (mm)	L (mm)	H (mm)	B (mm)	A (mm)	
226.03	50	75	87	65	50	40	8
226.06	50	150	162	65	100	40	4
226.12	50	300	312	65	200	40	8

Rulli guida in nylon bianco con piastra
White nylon guide rollers with plate



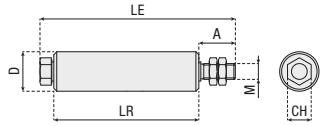


00101100	
227.80	2

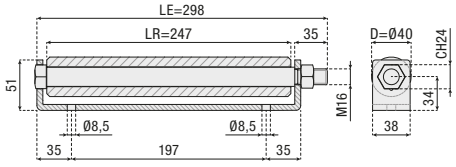
Rulli guida in nylon bianco
White nylon guide rollers



230



231



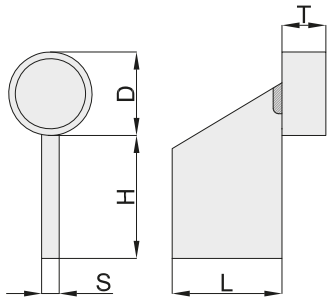
00101100	D (mm)	LE (mm)	LR (mm)	A (mm)	M (mm)	CH (mm)	
230.1	40	198	147	35	16	24	8
230.2	40	298	247	35	16	24	10
231.0	40	298	247	35	16	24	6



BATTENTI
LIMIT SWITCHES

Battente finecorsa a saldare
Limit switch to be welded

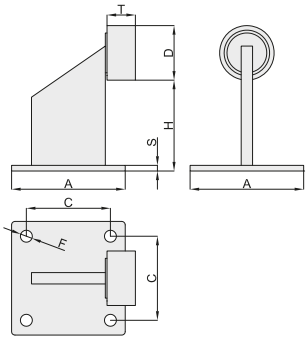




00101100	D (mm)	H (mm)	L (mm)	T (mm)	S (mm)	
241.1	38	55	50	20	8	12
241.2	48	75	70	25	10	8

Battente finecorsa con piastra di fissaggio
Limit switch with fixing plate





00101100	A (mm)	S (mm)	C (mm)	F (mm)	D (mm)	H (mm)	T (mm)	
242.1	85	5	60	8,5	38	60	20	8
242.2	100	5	74	10,5	48	80	25	6

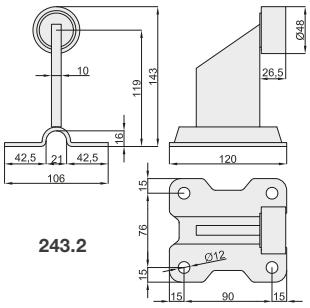
Battenti finecorsa con piastra di fissaggio sagomata
Limit switch with contoured fixing plate



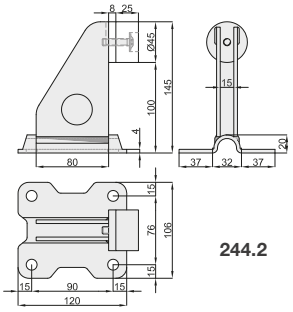
243.2



244.2



243.2

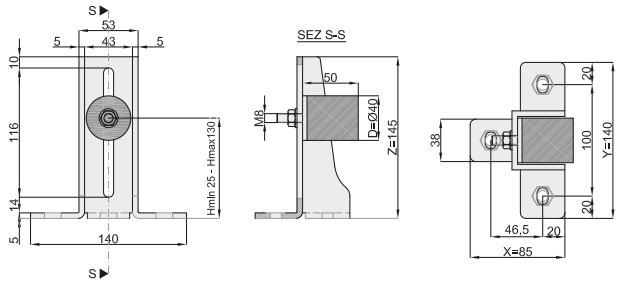


244.2

00101100	
243.2	8
244.2	6

Battente finecorsa con tampone in gomma regolabile
Limit switch with adjustable rubber pad

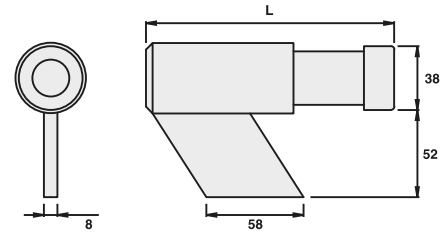




00101100	
244.4	4

Battente finecorsa ammortizzato con molla - a saldare
Limit switch with shock absorber spring to be welded





00101100	L (mm)	
245.1	150-120	4

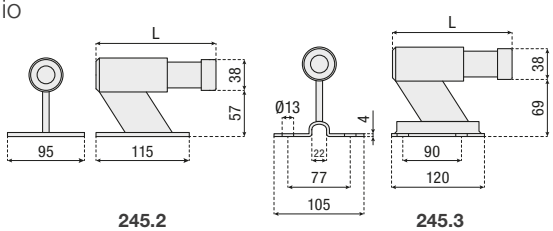
Battente finecorsa ammortizzato con molla e piastra di fissaggio
Limit switch with shock absorber spring and fixing plate



245.2



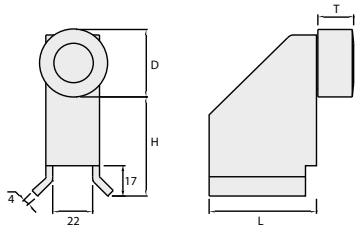
245.3



00101100	L (mm)	
245.2	150-120	4
245.3	150-120	4

Battente finecorsa a saldare
Limit stops for sliding gates to be welded

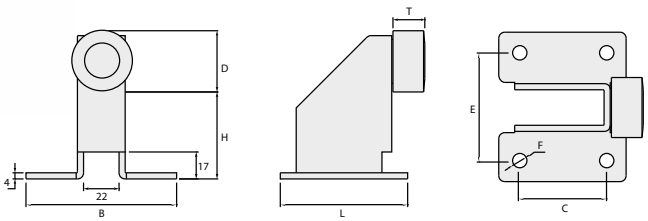




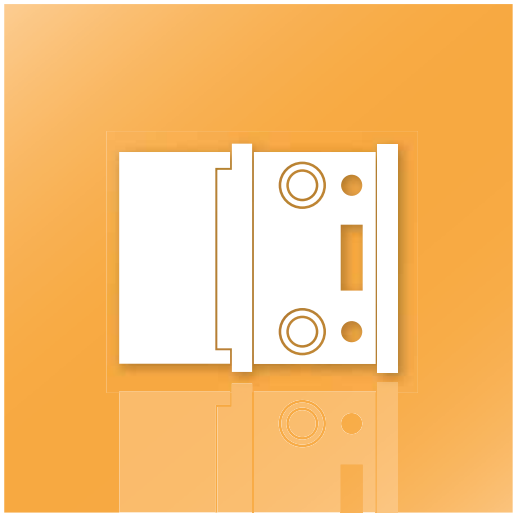
00101100	D (mm)	H (mm)	L (mm)	T (mm)	
246.1	38	55	60	20	8
246.2	43	72	75	26	6

Battente finecorsa a fissare
Limit stops for sliding gates to be fixed





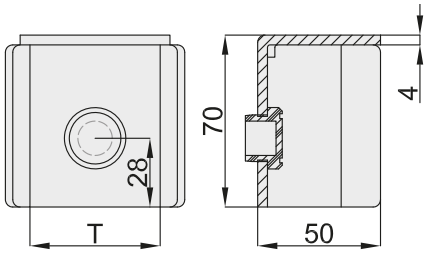
00101100	A (mm)	B (mm)	C (mm)	E (mm)	F (mm)	D (mm)	H (mm)	T (mm)	
247.1	80	94	55	68	9	38	55	20	6
247.2	95	107	65	78	11	43	75	26	4



INCONTRI FINECORSA
LIMIT STOPS

Incontro di sicurezza a saldare
Safety holder to be welded



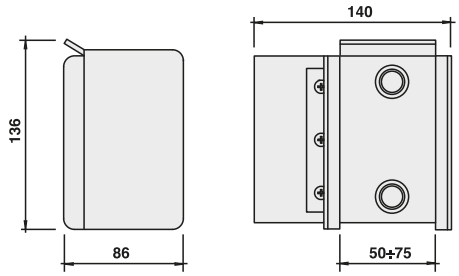


00101100	T (mm)	
250.1	43	6
250.2	53	6
250.3	63	4
250.4	83	4

Incontro finecorsa per cancelli scorrevoli
Limit stop for sliding gates

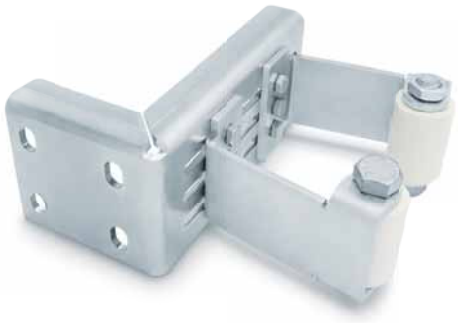


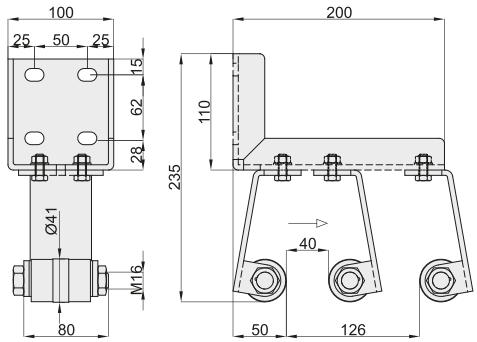
- *con tettuccio di sicurezza contro le effrazioni*
- *anti-tamper device*



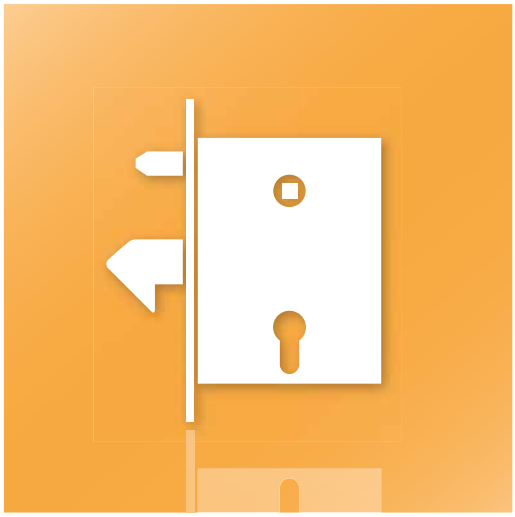
00101100	VERSIONE VERSION	
251.1	DX / RIGHT	5
251.2	SX / LEFT	5

Incontro regolabile
Adjustable gate limit stop





00101100	
269.2	2



SERRATURE
LOCKING SYSTEMS

Kit serratura per tubo quadro
Lock kit for square post





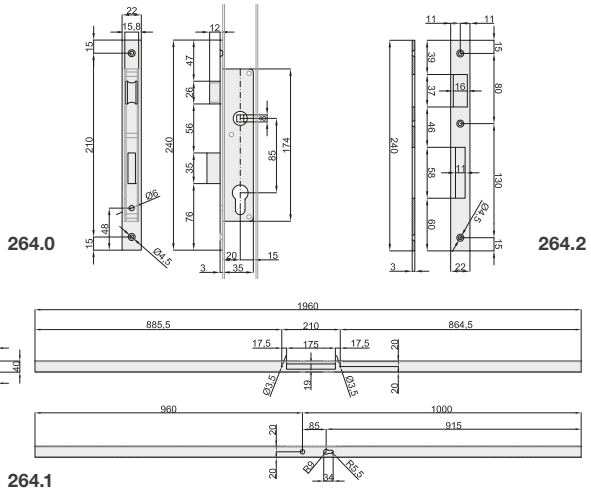
264.0



264.1



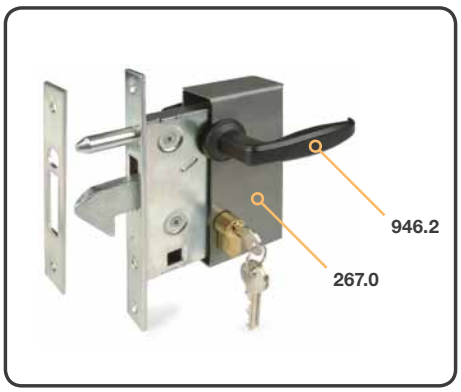
264.2

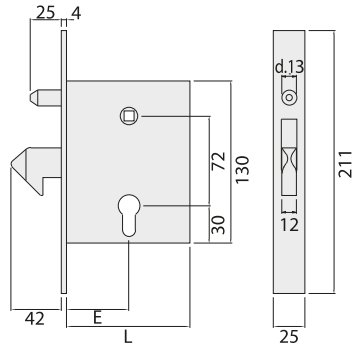


00101100	DESCRIZIONE DESCRIPTION	
264.0	SERRATURA CON CILINDRO LOCK WITH CYLINDER	1
264.1	TUBO 40 X 40 X 2 | L= 1960 TUBE 40 X 40 X 2 | L= 1960	1
264.2	CONTROFLANGIA NICKELATA NICKELED COUNTER PLATE	1

Serratura a gancio per cancelli scorrevoli
Hook lock for sliding gates



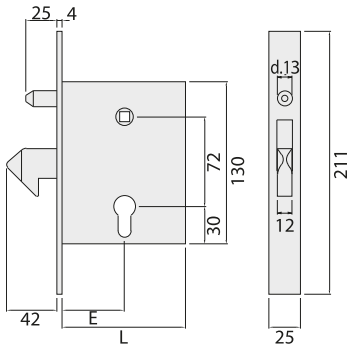




00101100	E (mm)	TUBOLARE TUBOLAR	L (mm)	
265.1	50	40	99	2
265.2	60	50	100	2
265.3	70	60	110	2

Serratura a gancio inox per cancelli scorrevoli
Stainless steel hook lock for sliding gates



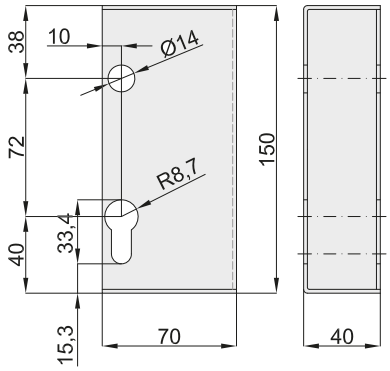


00101100	E (mm)	TUBOLARE TUBOLAR	L (mm)	
266.2	60	50	100	2
266.3	70	60	100	2

Scatola copriserratura a gancio
Hook cover-lock box



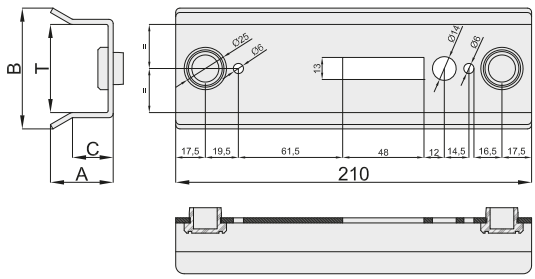
- *per tutte le serrature cod. 265 e 266*
- *for all locks cod. 256 e 266*



00101100	
267.0	5

Incontro per serratura a gancio
Limit stop for hook lock

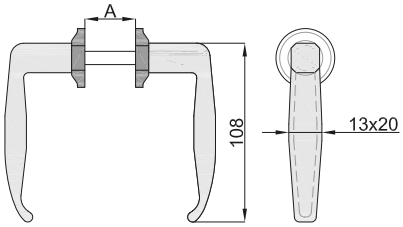




00101100	TUBOLARE TUBOLAR	T (mm)	A (mm)	B (mm)	C (mm)	
268.1	40	42	33	61	20	8
268.2	50	52	37	71	24	8
268.3	60	62	41	81	28	6

Maniglia con rosetta senza fori e con vite in testa
Handle on rose without keyhole and with head screw





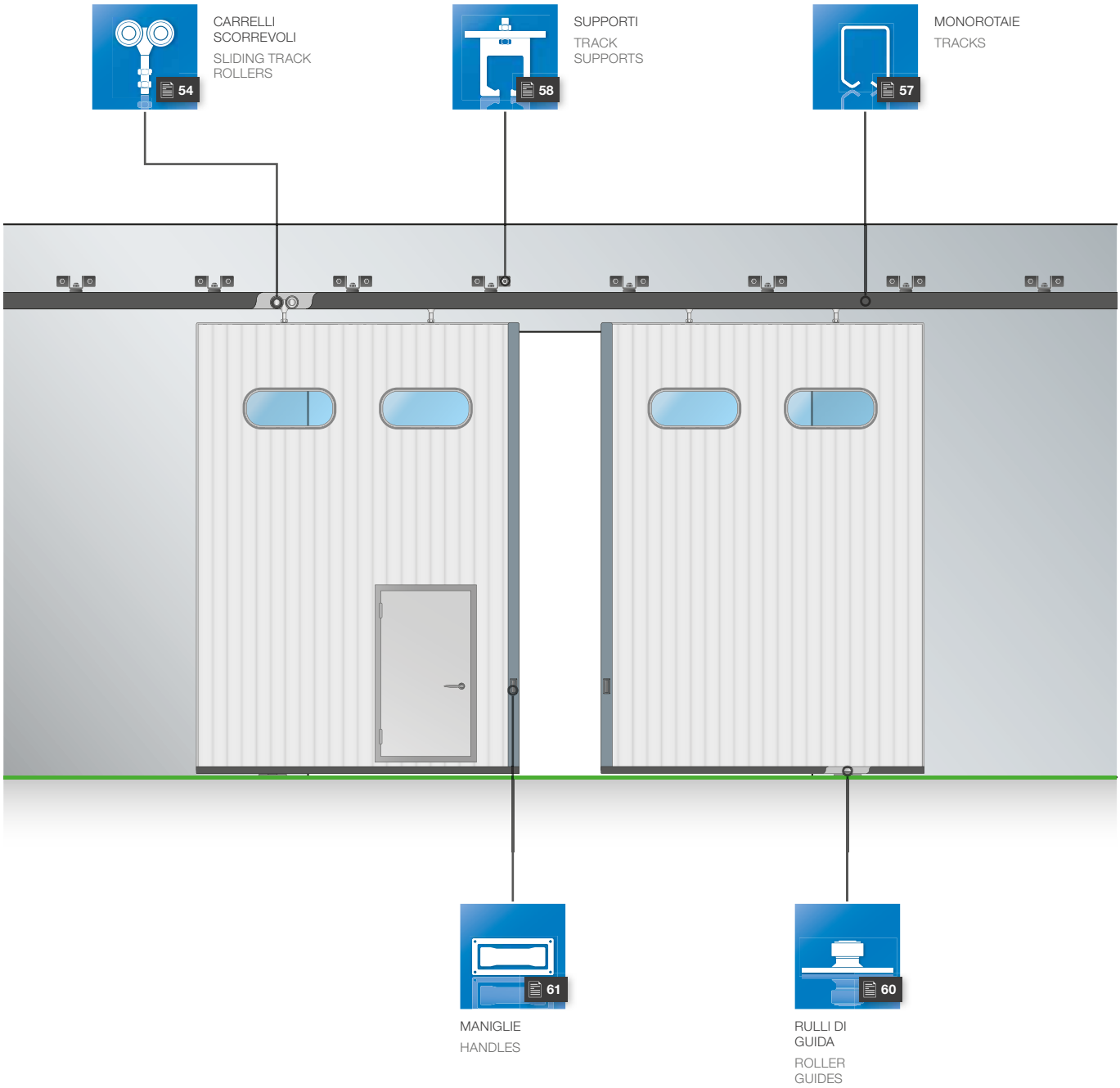
E640/5-P875/849A/B/C/D/E/849

00101100	SPESSORE PORTA DOOR THICKNESS	FINITURA FINISH	
946.2	35-50 mm	VERNICIATO NERO LUCIDO / BLACK PAINTED POLISHED	20
946.3	45-60 mm	VERNICIATO NERO LUCIDO / BLACK PAINTED POLISHED	20
946.6 (con grano / with grub screw)	Q.8-70 mm	VERNICIATO NERO LUCIDO / BLACK PAINTED POLISHED	20





PORTONI INDUSTRIALI
INDUSTRIAL DOORS

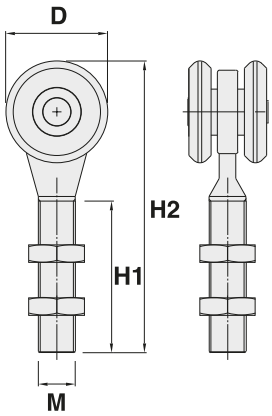




CARRELLI SCORREVOLI
SLIDING TRACK ROLLERS

Carrelli scorrevoli per monorotaia - a bagno di sfere - 2 ruote
Sliding track rollers - with ball bearings - 2 wheels

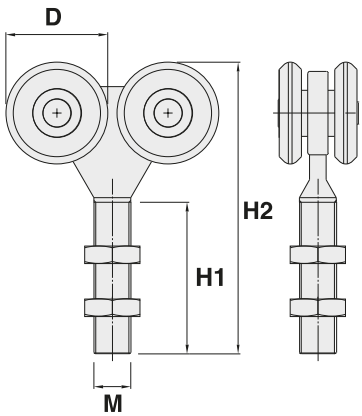




00101100	D (mm)	M (mm)	H1 (mm)	H2 (mm)	PORTATA CAPACITY	
601.24	24	M8	30	60	50 kg	20
601.42	42	M12	60	116	100 kg	12
601.55	55	M20	80	150	150 kg	8

Carrelli scorrevoli per monorotaia - a bagno di sfere - 4 ruote
Sliding track rollers - with ball bearings - 4 wheels

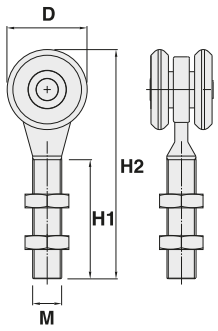




00101100	D (mm)	M (mm)	H1 (mm)	H2 (mm)	PORTATA CAPACITY	
602.24	24	M8	30	60	75 kg	12
602.42	42	M12	60	116	200 kg	8
602.55	55	M20	80	150	250 kg	6

Carrelli scorrevoli per monorotaia - con cuscinetti - 2 ruote
Sliding track rollers - with bearings - 2 wheels



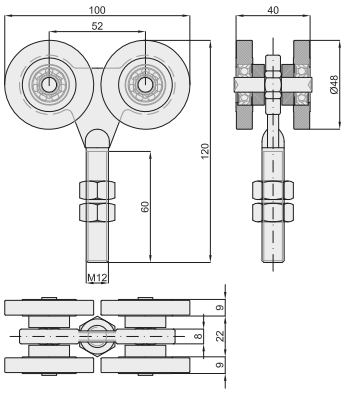


00101100	D (mm)	M (mm)	H1 (mm)	H2 (mm)	PORTATA CAPACITY	
603.42	42	M12	60	116	200 kg	12
603.55	55	M20	80	130	400 kg	8

Carrelli scorrevoli per monorotaia - con cuscinetti - 4 ruote piane
Sliding track rollers - with bearings - 4 flat wheels



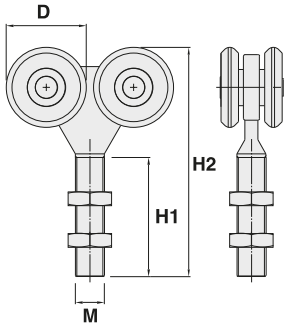
- *per monorotaie serie 628*
- *for track range 628*



00101100	D (mm)	M (mm)	H1 (mm)	H2 (mm)	PORTATA CAPACITY	
604.48P	48	M12	60	120	350 kg	8

Carrelli scorrevoli per monorotaia - con cuscinetti - 4 ruote
Sliding track rollers - with bearings - 4 wheels

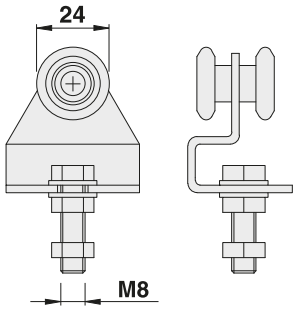




00101100	D (mm)	M (mm)	H1 (mm)	H2 (mm)	PORTATA CAPACITY	
604.42	42	M12	60	116	300 kg	8
604.55	55	M20	80	130	600 kg	6

Carrelli scorrevoli per monorotaia - a bagno di sfere - 2 ruote
Sliding track rollers - with ball bearings - 2 wheels

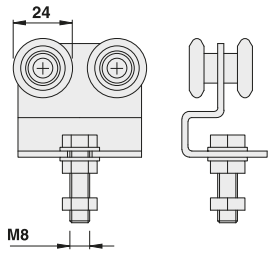




00101100	PORTATA CAPACITY	
605.24	30 kg	20

Carrelli scorrevoli per monorotaia - a bagno di sfere - 4 ruote
Sliding track rollers - with ball bearings - 4 wheels

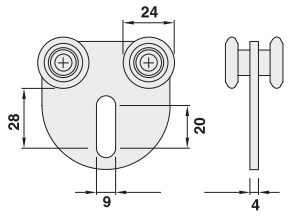




	PORTATA CAPACITY	
606.24	50 kg	20

Carrelli scorrevoli per monorotaia - a bagno di sfere - 4 ruote
Sliding track rollers - with ball bearings - 4 wheels

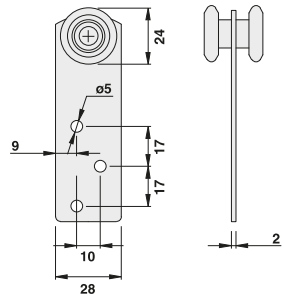




	PORTATA CAPACITY	
607.24	30 kg	20

Carrelli scorrevoli per monorotaia - a bagno di sfere - 2 ruote
Sliding track rollers - with ball bearings - 2 wheels

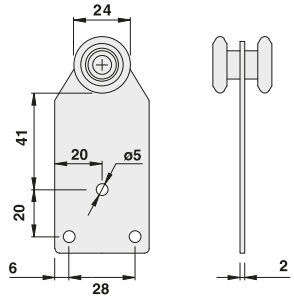




	PORTATA CAPACITY	
608.24	30 kg	20

Carrelli scorrevoli per monorotaia - a bagno di sfere - 2 ruote
Sliding track rollers - with ball bearings - 2 wheels

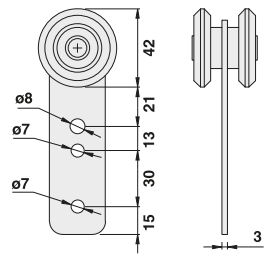




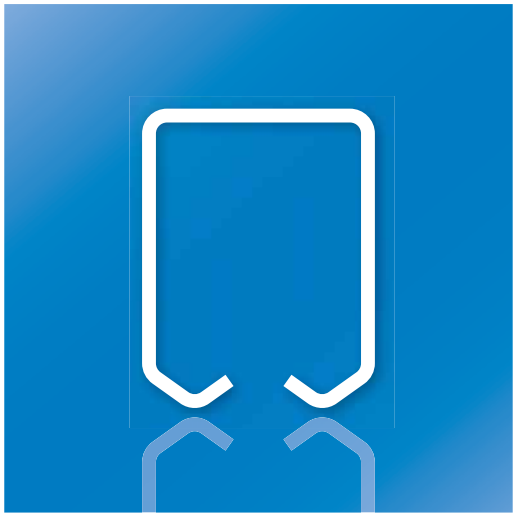
	PORTATA CAPACITY	
609.24	30 kg	20

Carrelli scorrevoli per monorotaia - a bagno di sfere - 2 ruote
Sliding track rollers - with ball bearings - 2 wheels





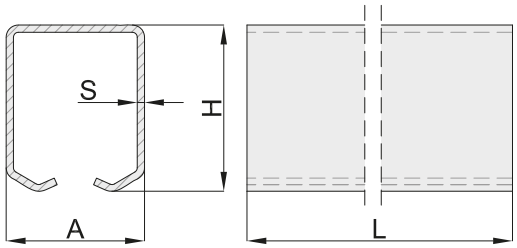
	PORTATA CAPACITY	
610.42	150 kg	12



MONOROTAIE
TRACKS

Monorotaia zincata per carrelli scorrevoli
Galvanized track for sliding rollers

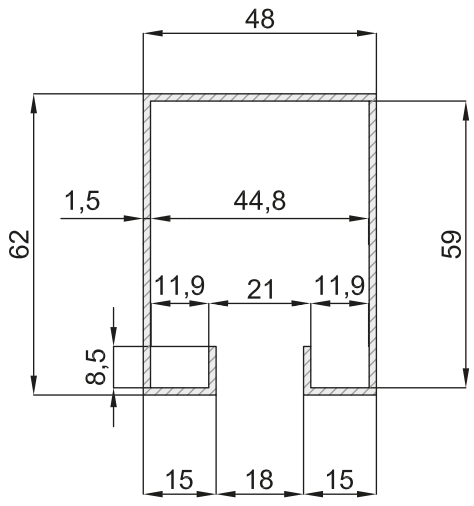




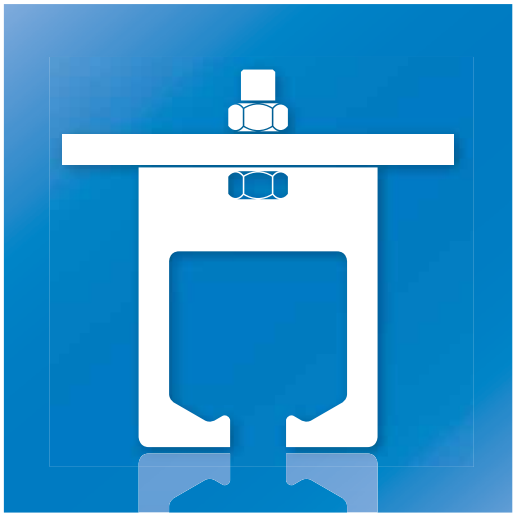
00101100	A (mm)	H (mm)	S (mm)	L (mm)	Ø RUOTE CARRELLI Ø ROLLER WHEELS	PESO LINEARE LINEAR WEIGHT	PESO WEIGHT
623.24	33	31	2	3000	24	1,66 kg/m	5,05 kg
623.42	42	54	2,5	3000	42	2,98 kg/m	8,93 kg
623.55	57	67	3	3000	55	4,51 kg/m	13,52 kg
624.55	57	67	3	4500	55	4,51 kg/m	20,28 kg
626.24	33	31	2	6000	24	1,66 kg/m	10,10 kg
626.42	42	54	2,5	6000	42	2,98 kg/m	17,86 kg
626.55	57	67	3	6000	55	4,51 kg/m	27,04 kg

Monorotaia zincata 62x48 mm
Galvanized track 62x48 mm





00101100	A (mm)	H (mm)	S (mm)	L (mm)	Ø RUOTE CARRELLI Ø ROLLER WHEELS	PESO LINEARE LINEAR WEIGHT	PESO WEIGHT
628.08	48	62	1,5	2432 **(8ft)**	48	2,48 kg/m	6,03 kg
628.10	48	62	1,5	3040 **(10ft)**	48	2,48 kg/m	7,54 kg
628.12	48	62	1,5	3648 **(12ft)**	48	2,48 kg/m	9,05 kg
628.20	48	62	1,5	5800 **(19ft)**	48	2,48 kg/m	14,38 kg

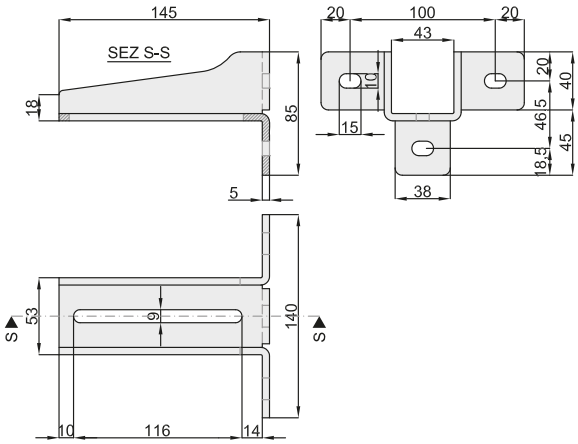


SUPPORTI
TRACK SUPPORTS

Supporto a fissare per monorotaia con fissaggio a parete
Track support to be fixed with wall fixing system



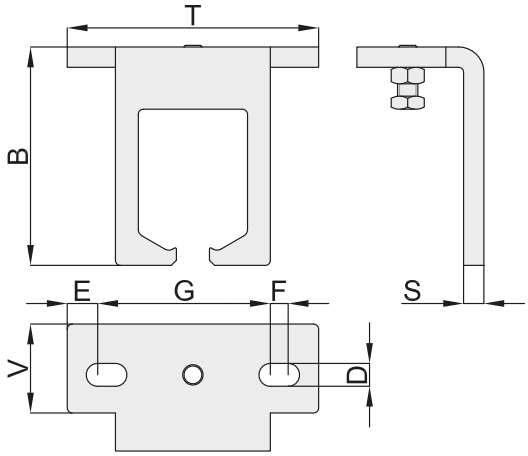




630.11	2

Supporto per monorotaia con fissaggio a soffitto
Track support with ceiling mounting system



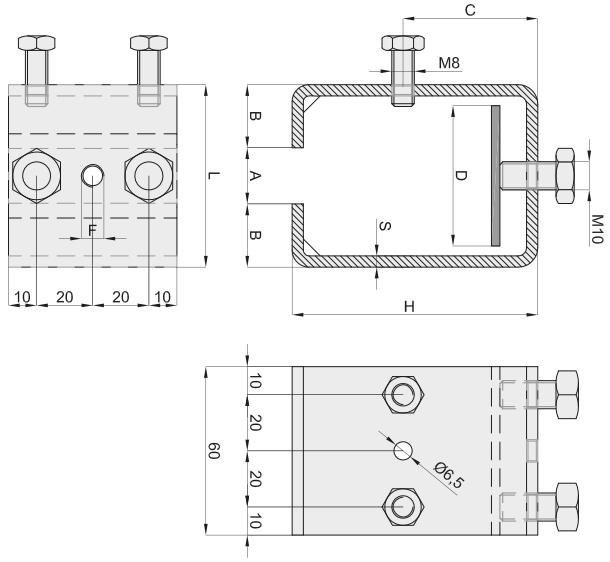


	B (mm)	T (mm)	S (mm)	D (mm)	E (mm)	F (mm)	G (mm)	V (mm)	
631.24	61	77	6	7	10	7	52	30	10
631.42	88	99	8	9	12	9	68	35	10
631.55	105	118	8	9	12	9	87	35	10
631.48	100	100	8	9	10	9	68	35	10

Giunzione per monorotaia per carrelli scorrevoli
Junction for sliding rollers tracks

new



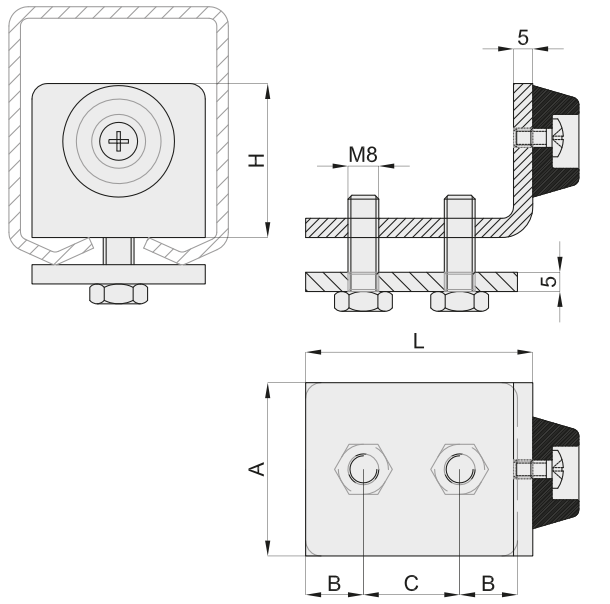


00101100	L (mm)	H (mm)	A (mm)	B (mm)	C (mm)	D (mm)	F (mm)	S (mm)	FINITURA FINISH
632.24	42	48	10,5	15,5	24	30	6,5	3	ZINCATO BIANCO / WHITE GALVANIZED
632.42	53,5	73	16,5	18,5	42	30	6,5	4	---
632.55	65	87,5	20	22,5	48	50	M8	4	---

Finecorsa interno per monorotaia per carrelli scorrevoli
Internal limit for sliding rollers tracks

new





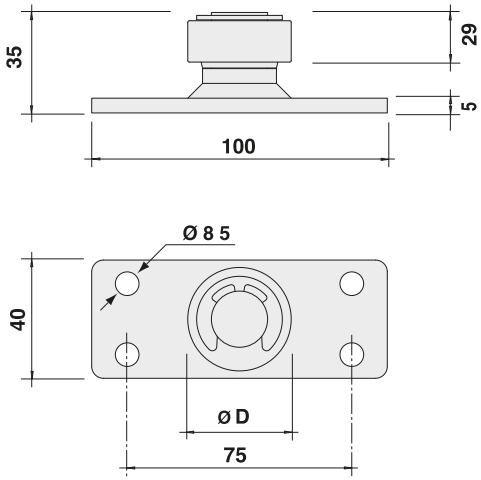
00101100	L (mm)	H (mm)	A (mm)	B (mm)	C (mm)	TAMPONE STOPPER	FINITURA FINISH
633.42	45	25	25	10	20	D19 x 10 mm	ZINCATO BIANCO / WHITE GALVANIZED
633.55	59	40	45	15	25	D29 x 12 mm	---



RULLI DI GUIDA
ROLLER GUIDES

Rulli di guida superiore in nylon con piastrina
Upper nylon roller guides with plate

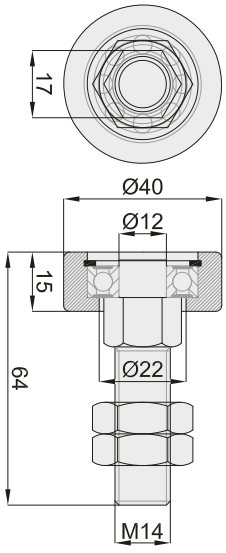




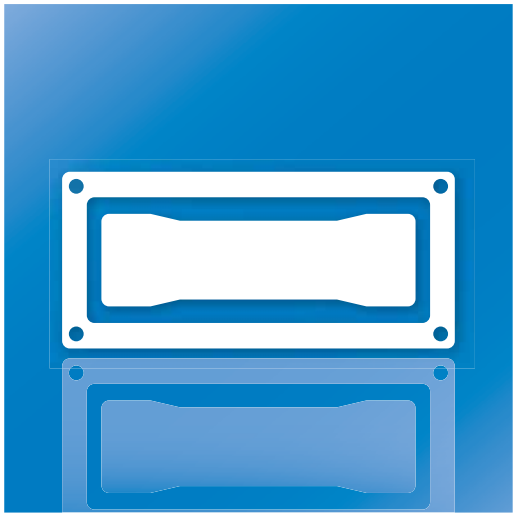
00101100	Ø D (mm)	
641.35	35	12
641.42	42	12
641.52	52	12

Ruota di guida con perno
Guiding wheel with pin





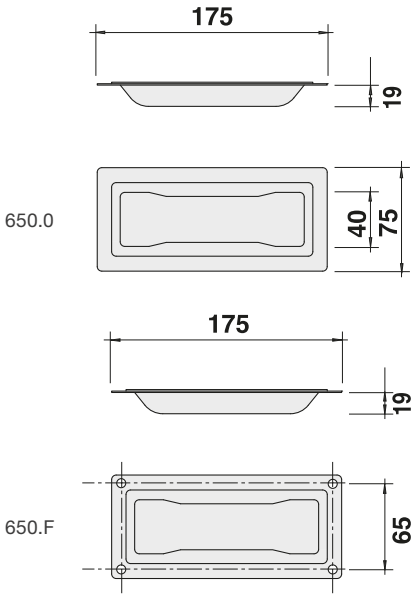
00101100	Ø D (mm)	
642.40	40	10



MANIGLIE
HANDLES

Maniglia ad incasso per portoni
Embedded pull handle



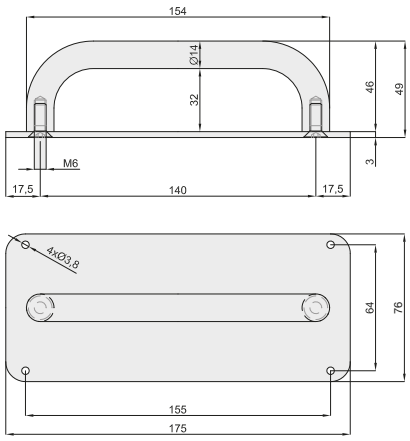


650.0	12
650.F	12

Maniglia per portoni
Handle for industrial gate

new



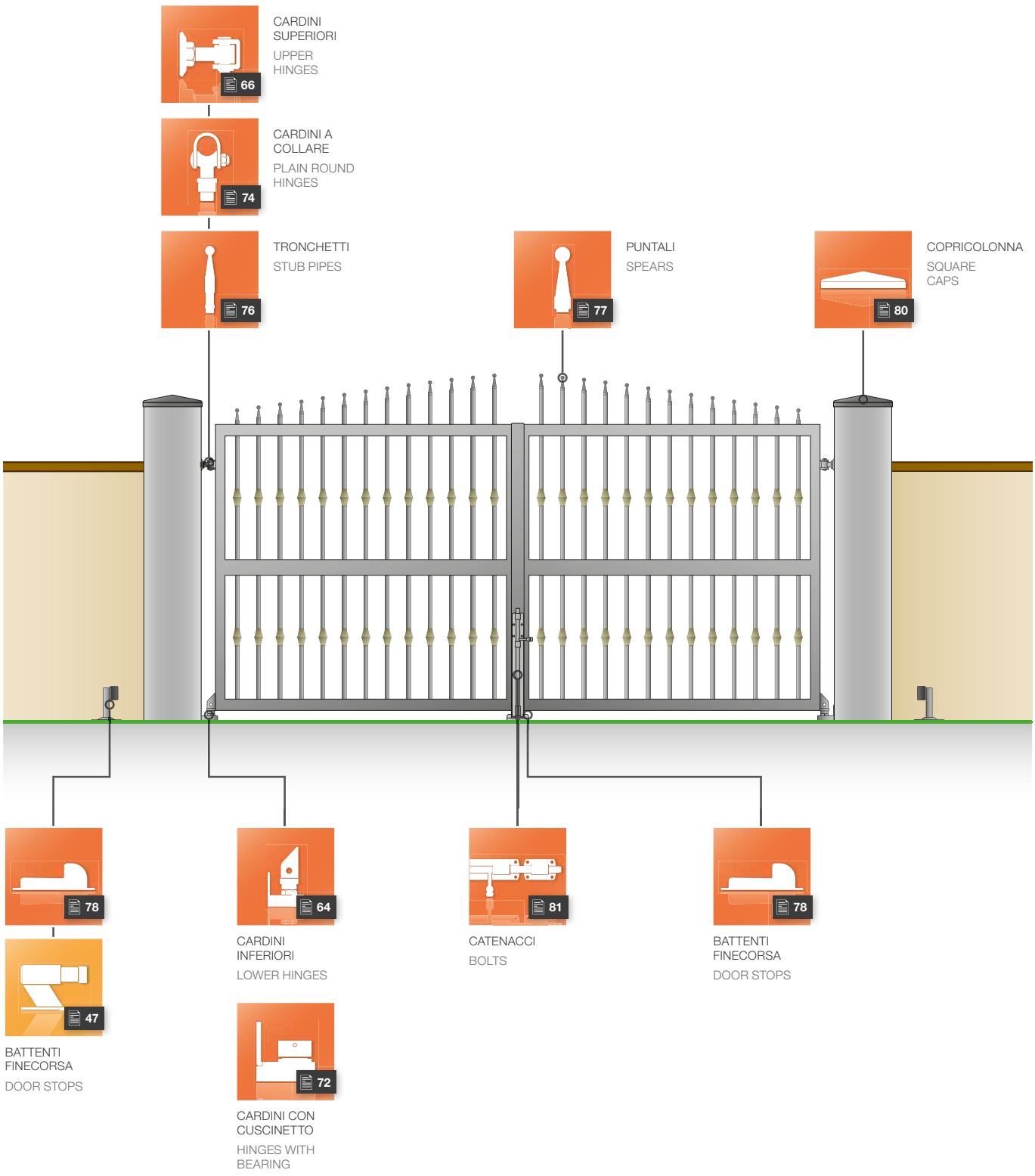


651.11	6





CANCELLI AD ANTA
SWING GATES

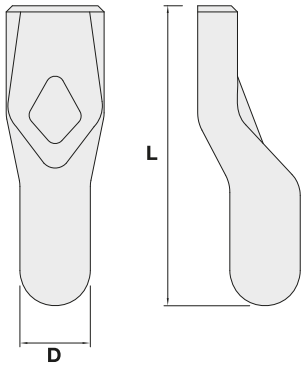




CARDINI INFERIORI
LOWER HINGES

Perno a saldare
Pin to be welded

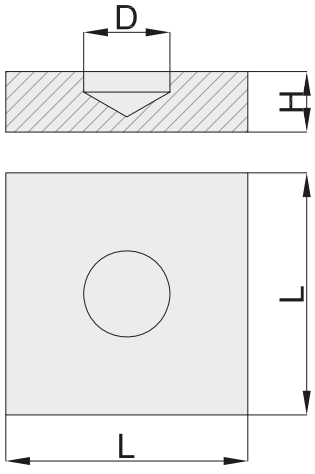




00101100	D (mm)	L (mm)	
401.1	20	89	20
401.2	23	98	12
401.3	28	105	6

Bussola a saldare per perno
Bracket to be welded for pin

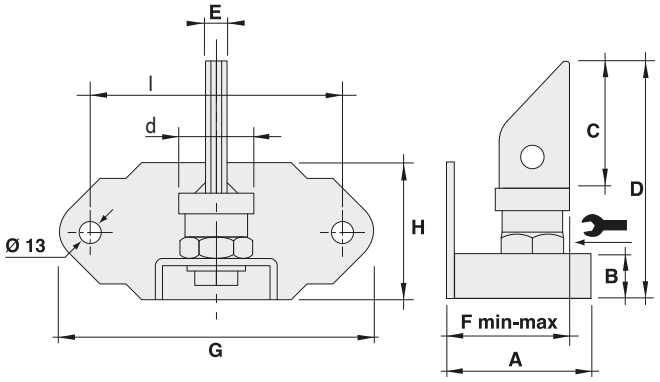




00101100	D (mm)	L (mm)	H (mm)	
404.1	20	60	15	20
404.2	23	70	20	12
404.3	28	80	20	6

Cardine inferiore regolabile con piastra orizzontale di fissaggio
Adjustable lower hinge with horizontal fixing plate

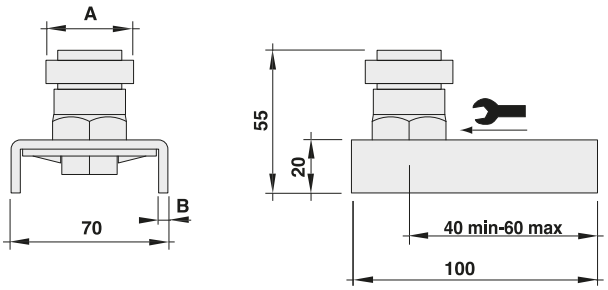




00101100	A (mm)	B (mm)	C (mm)	D (mm)	d (mm)	E (mm)	$F_{MIN-MAX}$ (mm)	G (mm)	H (mm)	I (mm)		
406.1	75	22	65	124	38	12	55-75	156	70	128	32	6
406.2	85	32	80	158	50	18	70-85	170	80	130	41	4

Cardine inferiore regolabile a saldare
Adjustable lower hinge to be welded

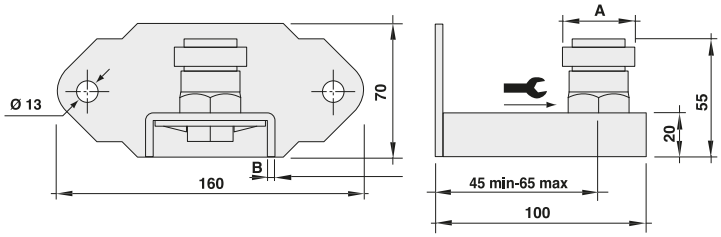




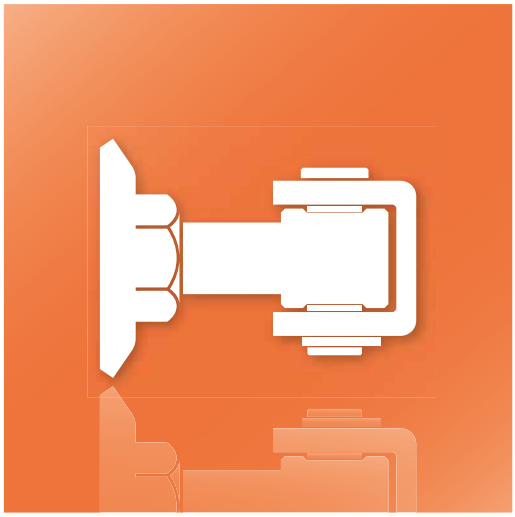
00101100	A (mm)	B (mm)		
409.1	30	3	32	12
409.2	35	4	32	12
409.3	40	5	32	12
409.4	50	6	41	4

Cardine inferiore regolabile con piastrina di fissaggio
Adjustable lower hinge with fixing plate





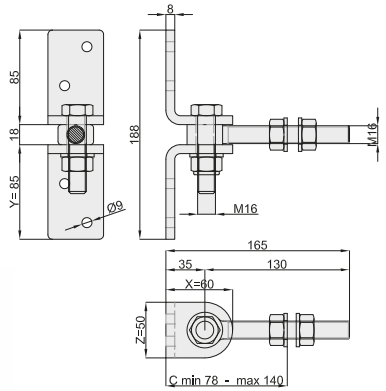
00101100	A (mm)	B (mm)		
410.1	30	3	32	6
410.2	35	4	32	6
410.3	40	5	32	6
410.4	50	6	41	4



CARDINI SUPERIORI
UPPER HINGES

Cardini superiori regolabili con piastre di fissaggio - INOX
Adjustable upper hinge with fixing plate - Stainless Steel

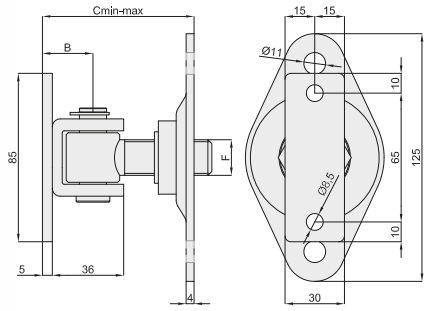




00101100	X (mm)	Y (mm)	Z (mm)	C (mm)	BULLONE BOLT	
415.16	60	85	50	78-140	M16 x 130	4

Cardini superiori regolabili con cavallotto e piastra di fissaggio a 2 fori
Adjustable upper hinges with bracket and fixing plate with 2 holes

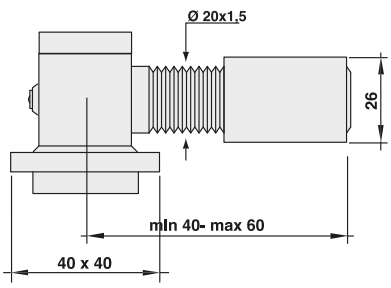




00101100	F (mm)	$C_{MIN-MAX}$ (mm)	B (mm)	
417.16	M16	60-80	25,5	8
417.18	M18	60-85	25,5	8
417.20	M20	60-90	25,5	8

Cardine superiore con manicotto a saldare
Adjustable upper hinges with fixing bracket

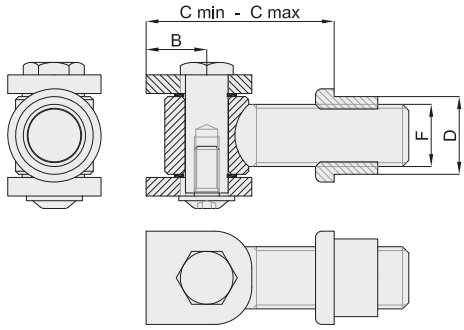




00101100	
420.0	12

Cardine superiore con piastrine a saldare
Upper hinge with plate to be welded

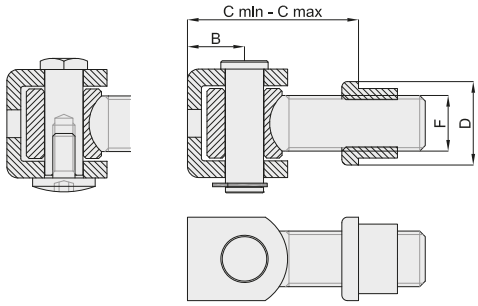




00101100	F (mm)	D (mm)	$C_{MIN-MAX}$ (mm)	B (mm)	
421.1	M16	21	42-63	19,5	12
421.2	M18	23	42-68	19,5	12
421.3	M20	25	42-70	19,5	12
421.4	M22	28	50-78	22	8
421.5	M24	30,5	50-78	22	8
421.6	M27	35	55-85	24,5	6

Cardine superiore con cavallotto a saldare
Upper hinge with bracket to be welded

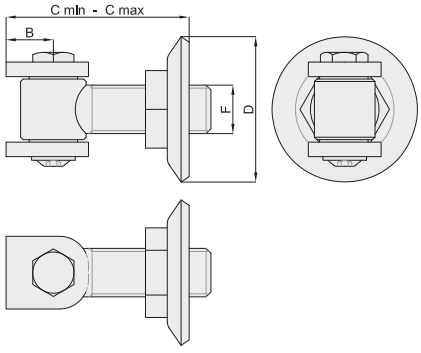




00101100 SEEGER SEEGER RING	VITE SCREW	F (mm)	D (mm)	$C_{MIN-MAX}$ (mm)	B (mm)	
422.1	**422.1F**	M16	21	43-63	20,5	12
422.2	**422.2F**	M18	23	43-68	20,5	12
422.3	**422.3F**	M20	25	43-73	20,5	12
422.4	**422.4F**	M22	28	55-82	27,5	8
422.5	**422.5F**	M24	30,5	55-82	27,5	8
422.6	**422.6F**	M27	35	60-92	31	6

Cardini superiori regolabili con piastrine e rondella a saldare
Adjustable upper hinges with plate and washer to be welded

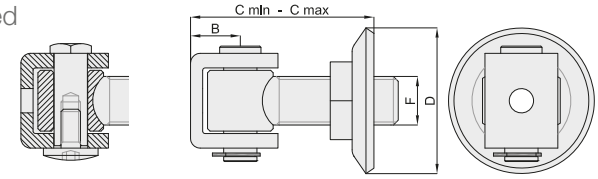




00101100	F (mm)	D (mm)	$C_{MIN-MAX}$ (mm)	B (mm)	
423.1	M16	60	55-75	19,5	12
423.2	M18	60	55-80	19,5	12
423.3	M20	60	55-85	19,5	12
423.4	M22	42	62-92	22	8
423.5	M24	53	62-97	22	8
423.6	M27	53	62-102	24,5	6

Cardini superiori regolabili con cavallotto e rondella a saldare
Adjustable upper hinges with bracket and washer to be welded

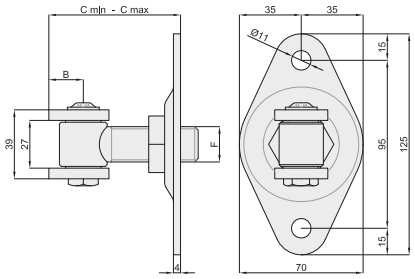




SEEGER SEEGER RING	VITE SCREW	F (mm)	D (mm)	$C_{MIN-MAX}$ (mm)	B (mm)	
424.1	**424.1F**	M16	60	55-75	20,5	12
424.2	**424.2F**	M18	60	55-80	20,5	12
424.3	**424.3F**	M20	60	60-85	20,5	12
424.4	**424.4F**	M22	42	70-100	27,5	6
424.5	**424.5F**	M24	53	70-105	27,5	6
424.6	**424.6F**	M27	53	78-110	31	4

Cardini superiori regolabili con piastrine e piastra di fissaggio a 2 fori
Adjustable upper hinges with plate and fixing plate with 2 holes

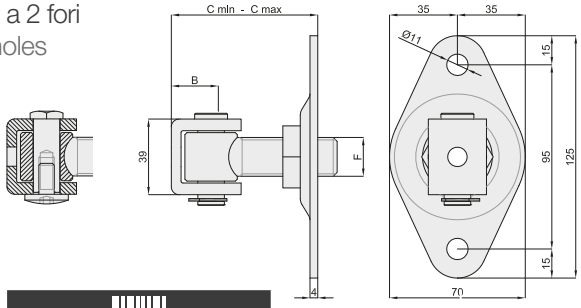




	F (mm)	$C_{MIN-MAX}$ (mm)	B (mm)	
425.1	M16	55-75	19,5	8
425.2	M18	55-80	19,5	8
425.3	M20	55-85	19,5	8

Cardini superiori regolabili con cavallotto e piastra di fissaggio a 2 fori
Adjustable upper hinges with bracket and fixing plate with 2 holes

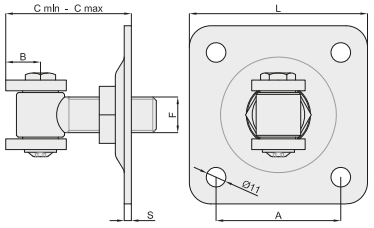




SEEGER SEEGER RING	VITE SCREW	F (mm)	$C_{MIN-MAX}$ (mm)	B (mm)	
426.1	**426.1F**	M16	55-75	20,5	8
426.2	**426.2F**	M18	55-80	20,5	8
426.3	**426.3F**	M20	55-85	20,5	8

Cardini superiori regolabili con piastrina e piastre di fissaggio e 4 fori
Adjustable upper hinges with plate and fixing plates with 4 holes

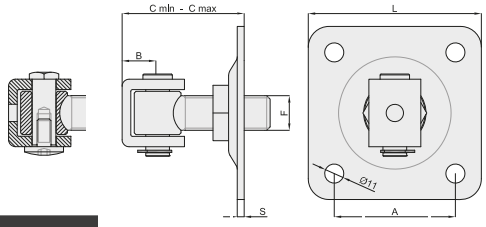




	F (mm)	$C_{MIN-MAX}$ (mm)	B (mm)	L (mm)	A (mm)	S (mm)	
427.1	M16	55-75	19,5	100	67	4	8
427.2	M18	55-80	19,5	100	67	4	8
427.3	M20	55-85	19,5	100	67	4	8
427.4	M22	65-95	27,5	120	90	5	6
427.5	M24	65-100	27,5	120	90	5	6
427.6	M27	75-105	31	120	90	5	4

Cardini superiori regolabili con cavallotto e piastre di fissaggio e 4 fori
Adjustable upper hinges with bracket and fixing plates with 4 holes

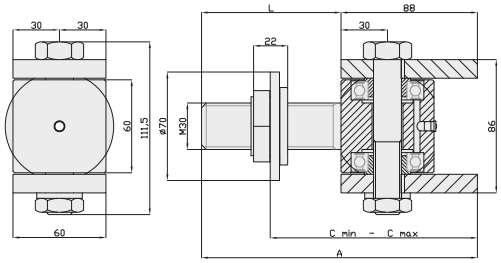




SEEGER SEEGER RING	VITE SCREW	F (mm)	$C_{MIN-MAX}$ (mm)	B (mm)	L (mm)	A (mm)	S (mm)	
428.1	**428.1F**	M16	55-75	20,5	100	67	4	8
428.2	**428.2F**	M18	55-80	20,5	100	67	4	8
428.3	**428.3F**	M20	55-85	20,5	100	67	4	8
428.4	**428.4F**	M22	70-100	27,5	120	90	5	6
428.5	**428.5F**	M24	70-105	27,5	120	90	5	6
428.6	**428.6F**	M27	80-100	31	120	90	5	4

Cardine superiore con 2 cuscinetti e boccola regolabile
Upper hinges with double bearing and adjustable device

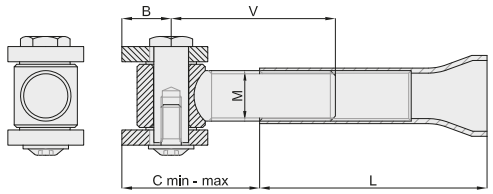




	M (mm)	L (mm)	A (mm)	C (mm)	
429.30	M30	90	178	132-160	2
429.30B	M30	150	238	132-220	2

Cardini superiori con piastrine e manicotto a cementare
Upper hinges with fixing plates and socket joint to be cemented

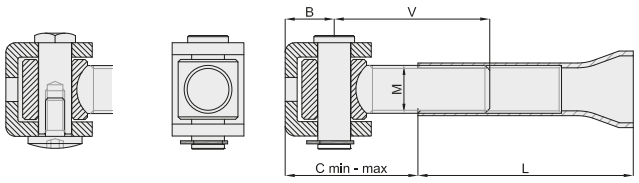




	M (mm)	$C_{MIN-MAX}$ (mm)	B (mm)	L (mm)	V (mm)	
438.2	M18	38-60	19,5	75	60	10
438.3	M20	38-65	19,5	90	65	10
438.5	M24	42-75	22	100	75	8

Cardini superiori con cavallotto e manicotto a cementare
Upper hinges with bracket and joint to be cemented

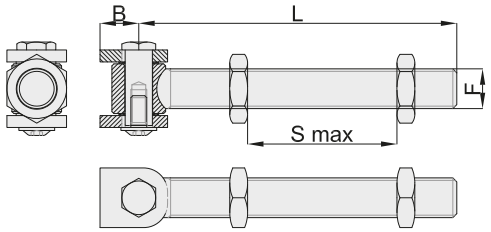




SEEGER SEEGER RING	VITE SCREW	M (mm)	$C_{MIN-MAX}$ (mm)	B (mm)	L (mm)	V (mm)	
439.2	**439.2F**	M18	40-62	20,5	75	60	10
439.3	**439.3F**	M20	40-67	20,5	90	65	10
439.5	**439.5F**	M24	50-80	27,5	100	75	8

Cardine a vite lunga con piastrina a saldare
Long screw hinge with plate to be welded

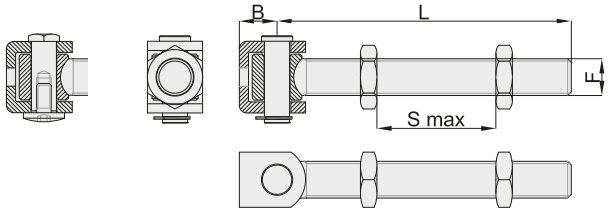




00101100	F (mm)	B (mm)	L (mm)	S_{MAX} (mm)	
440.1	M20	19,5	160	125	10
440.2	M24	22	180	140	10

Cardine a vite lunga con cavallotto
Long screw hinge with bracket

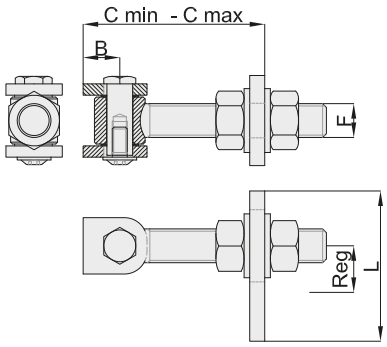




00101100 SEEGER SEEGER RING	VITE SCREW	F (mm)	B (mm)	L (mm)	S_{MAX} (mm)	
441.1	**441.1F**	M20	20,5	160	125	10
441.2	**441.2F**	M24	24	180	140	10

Cardine a doppia regolazione con piastrina a saldare
Hinge with double adjustable device and plate to be welded

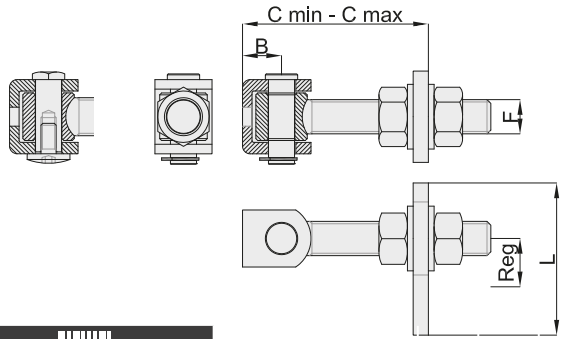




00101100	F (mm)	B (mm)	$C_{MIN-MAX}$ (mm)	Reg.	L (mm)	
442.1	M18	19,5	56-115	20	80	6
442.2	M20	22	65-140	22	105	6

Cardine a doppia regolazione con cavallotto
Hinge with double adjustable device and bracket

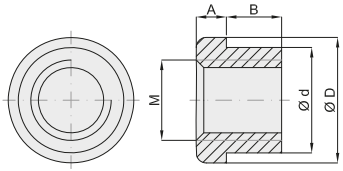




00101100 SEEGER SEEGER RING	VITE SCREW	F (mm)	B (mm)	$C_{MIN-MAX}$ (mm)	Reg.	L (mm)	
443.1	**443.1F**	M18	20,5	56-116	20	80	6
443.2	**443.2F**	M22	24	65-140	22	105	6

Boccola
Bushing

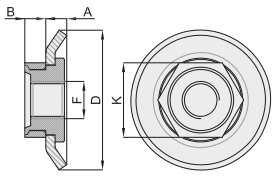




00101100	F	d (mm)	D (mm)	A (mm)	B (mm)
AN30040	M16	21	25	6	11
AN30050	M18	23	28	6	12
AN30060	M20	25	30	6	14
AN30070	M22	28	34	7	15
AN30080	M24	30,5	36	6	19
AN30090	M27	35	40	8	19

Boccola regolabile
Adjustable bushing

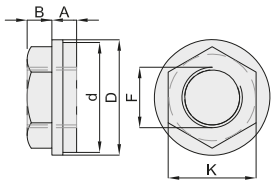




00101100	F	D (mm)	K (mm)	A (mm)	B (mm)	
AN02031	M16	60	32	9	9	10
AN02041	M18	60	32	9	9	10
AN02051	M20	60	32	9	9	10

Boccola regolabile
Adjustable bushing

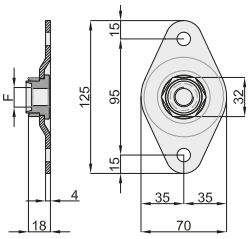




00101100	F	D (mm)	K (mm)	A (mm)	B (mm)	d (mm)	
AN02061	M22	42	32	9	9	40	10
AN02071	M24	53	41	11,5	11,5	40	10
AN02081	M27	53	41	11,5	11,5	40	10

Piastra regolabile a 2 fori
Adjustable plate with 2 holes

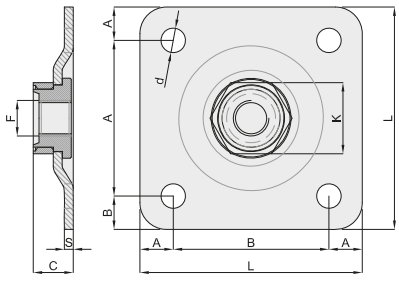




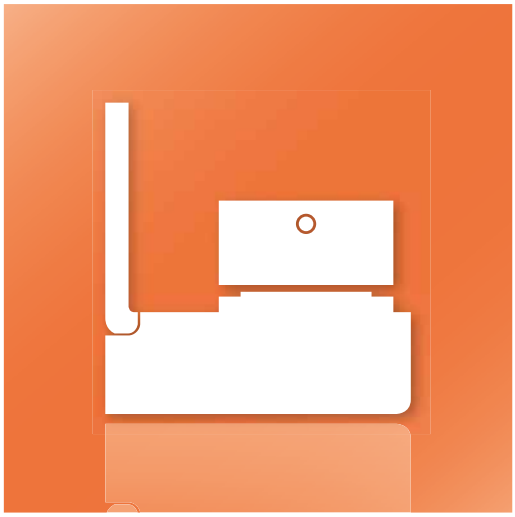
00101100	F	
AN00101	M16	10
AN00111	M18	10
AN00121	M20	10

Piastra regolabile a 4 fori
Adjustable plate with 4 holes

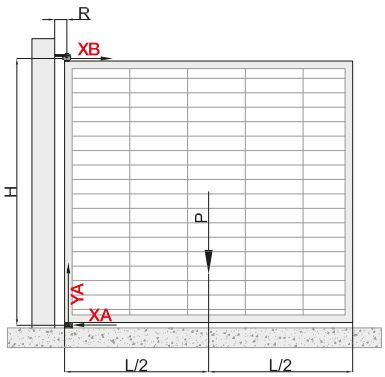




00101100	F	L (mm)	A (mm)	B (mm)	C (mm)	d (mm)	K (mm)	S (mm)	
AN00131	M16	100	15	70	18	11	32	4	10
AN00141	M18	100	15	70	18	11	32	4	10
AN00151	M20	100	15	70	18	11	32	4	10
AN00161	M22	120	15	90	21	11	41	5	10
AN00171	M24	120	15	90	21	11	41	5	10
AN00181	M27	120	15	90	21	11	41	5	10



CARDINI CON CUSCINETTO
HINGES WITH BEARING



$$XB = \frac{P}{2} * \frac{L}{H}$$

XB < XB$_{MAX}$

YA = P

YA < YA$_{MAX}$

P: peso anta / leaf weight

L: larghezza anta / leaf length

H: altezza anta / leaf height

esempio / example:
P= 250 kg | L= 3 m | H= 2 m

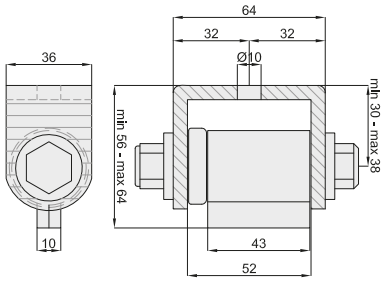
$$XB = \frac{250}{2} * \frac{3}{2} = 187,5$$

OK 187,5 (XB) < 225 (XB$_{MAX}$ of **450.2**)
NO! 187,5 (XB) > 170 (XB$_{MAX}$ of **450.1**)

OK 250 (YA) < 450 (YA$_{MAX}$ of **455.2**)
NO! 250 (YA) > 200 (YA$_{MAX}$ of **455.1**)

Cardine regolabile con cuscinetto
Adjustable hinge with bearing

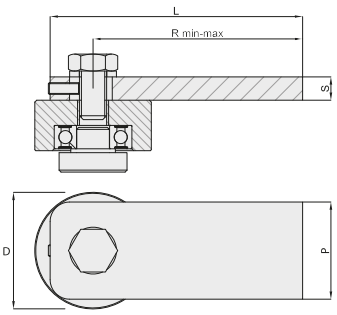




00101100	
444.0	8

Cardine superiore con cuscinetto e staffa a saldare
Upper hinge with bearing and bracket to be welded

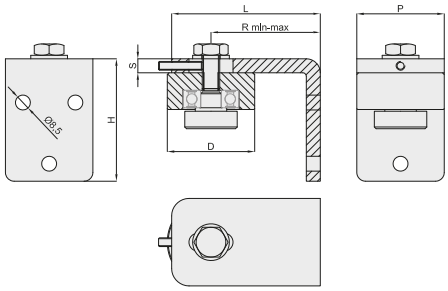




00101100	D (mm)	R$_{MIN-MAX}$ (mm)	L (mm)	P (mm)	S (mm)	XB$_{MAX}$	
450.1	45	30-55	70	40	10	170 kg	10
450.2	50	75-85	100	40	10	225 kg	10
new **450.22**	50	75-85	100	60	10	300 kg	10
450.3	60	103-113	130	50	12	300 kg	6
450.4	70	103-113	130	50	12	320 kg	6
new **450.42**	70	103-113	130	80	12	500 kg	6

Cardine superiore con cuscinetto e staffa a fissare
Upper hinge with bearing and bracket to be fixed

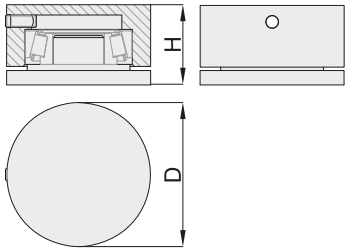




00101100	D (mm)	$R_{MIN-MAX}$ (mm)	L (mm)	P (mm)	H (mm)	S (mm)	XB_{MAX}	
451.2	50	55-70	100	40	70	10	225 kg	10
new **451.22**	50	55-70	100	60	70	10	300 kg	10
451.4	70	103-113	130	50	80	12	320 kg	6
new **451.42**	70	103-113	130	80	80	12	500 kg	6

Cardine inferiore a saldare con cuscinetto
Lower hinge to be welded with bearing

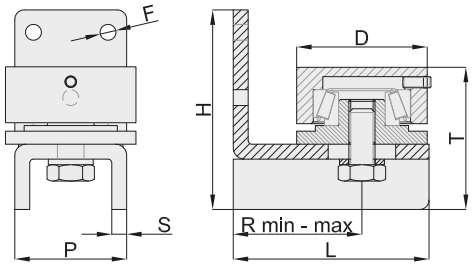




00101100	D (mm)	H (mm)	YA_{MAX}	CARICO STATICO LOAD STATIC	
455.1	45	35	200 kg	800 kg	10
455.2	50	35	450 kg	800 kg	10
455.3	60	35	600 kg	1200 kg	6
455.4	70	35	800 kg	1800 kg	6

Cardine a vite lunga con piastrina a saldare
Long screw hinge with plate to be welded



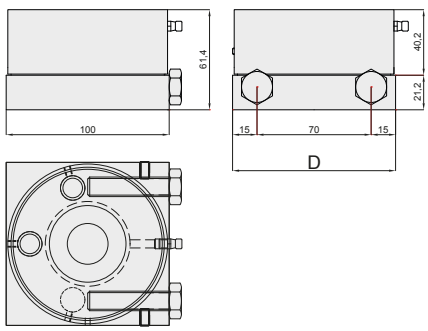


00101100	D (mm)	$R_{MIN-MAX}$ (mm)	L (mm)	P (mm)	H (mm)	F (mm)	S (mm)	T (mm)	YA_{MAX}	CARICO STATICO LOAD STATIC	
456.2	50	55-70	85	50	94	8,5	6	63	450 kg	800 kg	10
456.4	70	58-80	100	60	107	8,5	8	66	800 kg	1800 kg	6

Cardine con fermi meccanici
Hinge with mechanical locking devices

new





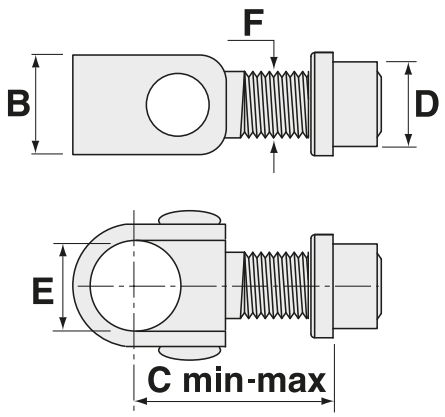
00101100	D (mm)	YA_{MAX}	CARICO STATICO LOAD STATIC	
460.4	80	800 kg	1800 kg	2
460.5	100	1000 kg	3000 kg	2



CARDINI A COLLARE
PLAIN ROUND HINGES

Cardine a collare liscio con boccola a saldare
Plain round hinges with bush to be welded

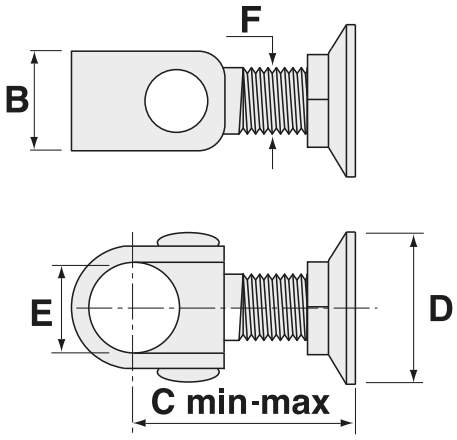




00101100	F (mm)	D (mm)	$C_{MIN-MAX}$ (mm)	B (mm)	E (mm)	
471.18	M18	23	55-100	30	30	6
471.20	M20	25	55-100	30	30	6
471.22	M22	28	55-100	40	35	6
471.24	M24	30,5	55-100	40	35	6
471.27	M27	35	55-100	40	40	6

Cardine a collare liscio con boccola regolabile
Plain round hinges with adjustable bush

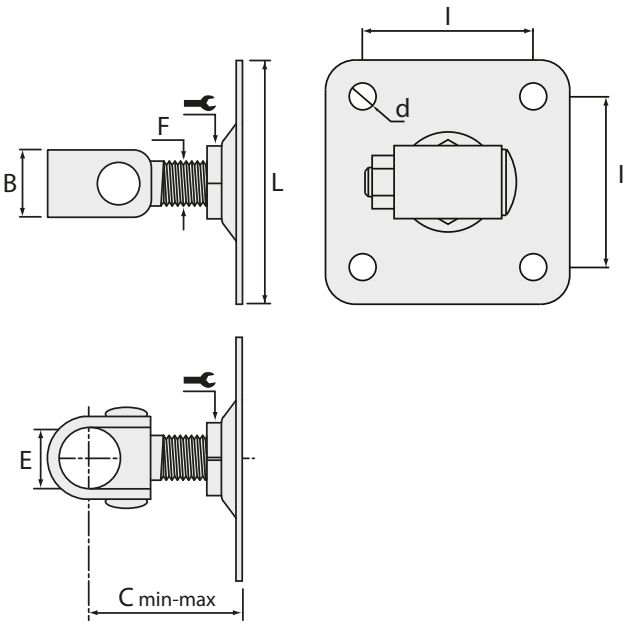




00101100	F (mm)	D (mm)	$C_{MIN-MAX}$ (mm)	B (mm)	E (mm)	
472.18	M18	50	55-100	30	30	6
472.20	M20	50	55-100	30	30	6
472.22	M22	65	55-100	40	35	6
472.24	M24	65	55-100	40	35	6
472.27	M27	65	55-100	40	40	6

Cardine a collare liscio con piastra di fissaggio 4 fori
Plain round hinges with fixing plate 4 holes

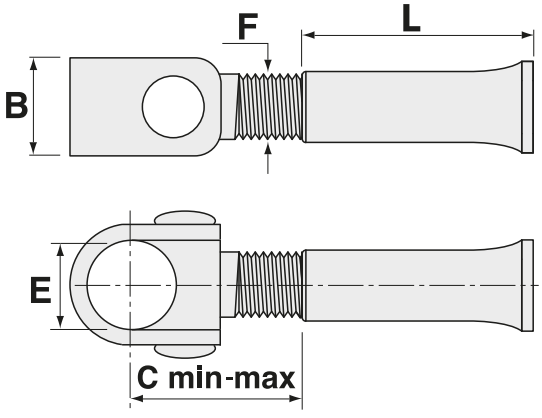




00101100	F (mm)	L (mm)	$C_{MIN-MAX}$ (mm)	B (mm)	d (mm)	E (mm)	I (mm)	
473.18	M18	100	55-100	30	11	30	70	6
473.20	M20	100	55-100	30	11	30	70	4
473.22	M22	120	55-100	40	11	35	90	4
473.24	M24	120	55-100	40	11	35	90	4
473.27	M27	120	55-100	40	11	40	90	4

Cardine a collare liscio con manicotto a cementare
Plain round hinges with socket joint to be cemented





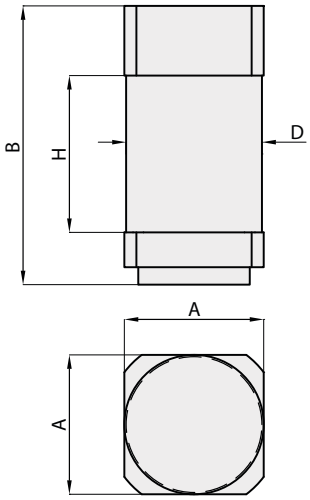
00101100	F (mm)	L (mm)	$C_{MIN-MAX}$ (mm)	B (mm)	E (mm)	
474.18	M18	75	55-100	30	30	6
474.20	M20	90	55-100	30	30	6
474.24	M24	100	55-100	40	35	4



TRONCHETTI
STUB PIPES

Tronchetto di collegamento per cardini a collare
Stub pipe for round hinges

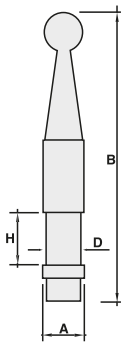




00101100	A (mm)	B (mm)	D (mm)	H (mm)	
493.1	30	80	29	45	6
493.2	35	80	29	45	4
493.3	40	80	29	45	12
493.4	35	80	34	45	12
493.5	40	80	34	45	12
493.6	50	80	34	45	4
493.7	50	80	39	45	4
493.8	40	80	39	45	12

Tronchetto con puntale per cardini a collare
Stub pipe with spears for round hinges





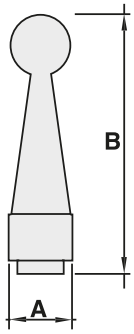
00101100	A (mm)	B (mm)	D (mm)	H (mm)	
494.3	40	250	30	45	6
494.5	40	240	35	45	6



PUNTALI
SPEARS

Puntale
Spear





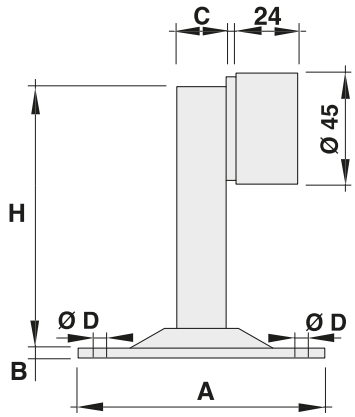
00101100	A (mm)	B (mm)	
495.3	40	140	6



BATTENTI FINECORSA
DOOR STOPS

Kit battente di apertura per cancelli ad ante
Door stop kit for swing gates

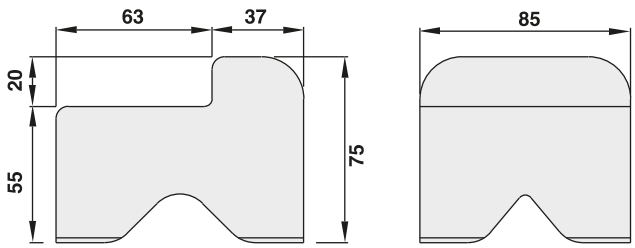




00101100	A (mm)	B (mm)	C (mm)	FORI Ø D HOLES Ø D	H (mm)	
526.1	100 x 100	4	20 x 20	10	105	2
526.2	120 x 120	5	30 x 30	13	115	2

Battente a cementare per cancelli ad ante
Stops to be cemented for swing gates





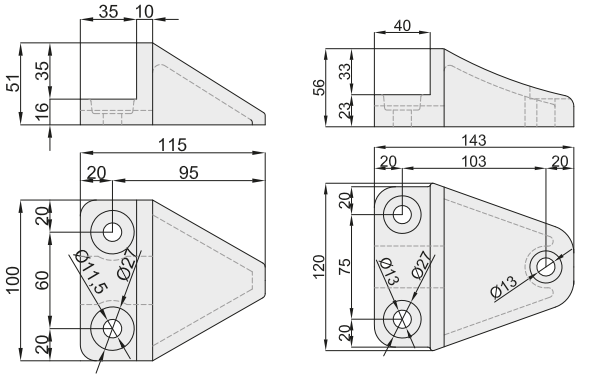
00101100	
530.0	6

Battenti in ghisa con fori di fissaggio per cancelli ad ante
Cast iron stops with fixing holes for swing gates



533.1

533.2

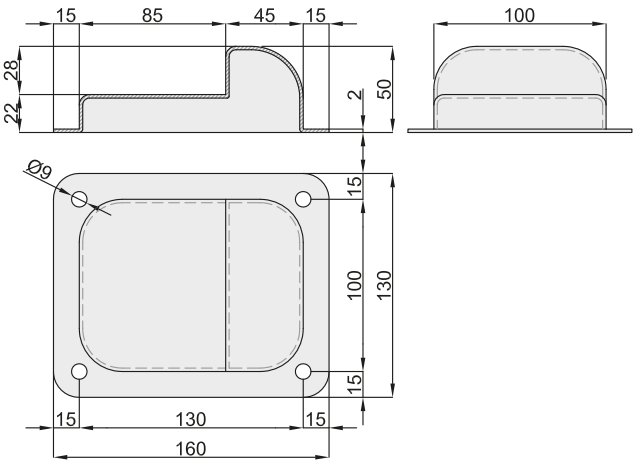


533.1 533.2

533.1	4
533.2	2

Battente a fissare per cancelli ad anta
Limit stop to be fixed for swing gates

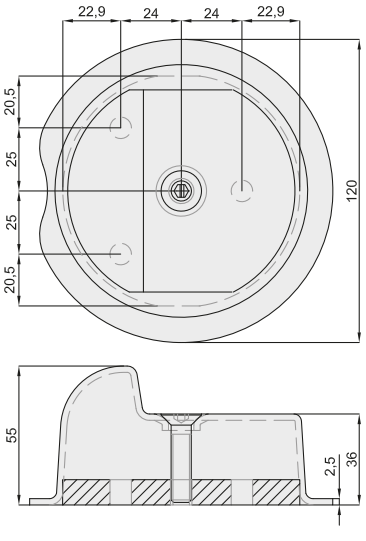




535.0	4

Battente alto con piastrina di fissaggio per cancelli ad anta
Upper limit stop with fixing plate for swing gates





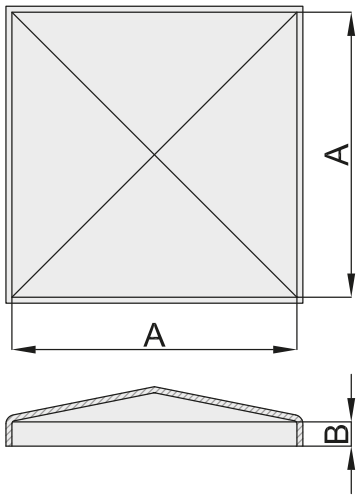
536.0	2



COPRICOLONNA
SQUARE CAPS

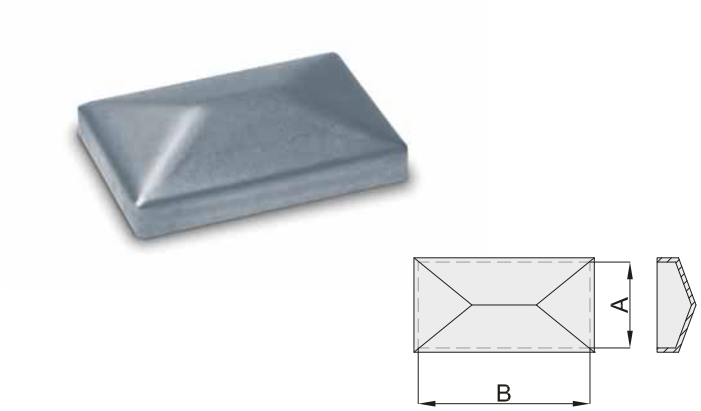
Copricolonna quadrato con bordo
Square cap with flange



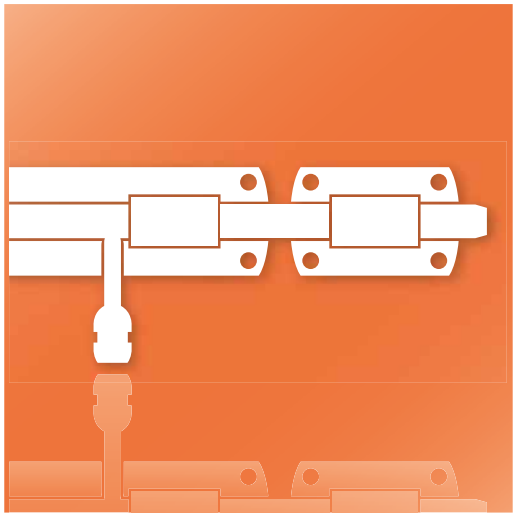


00101100	A (misura interna) A (internal size)	B (mm)	FINITURA FINISH	
550.30	30 x 30	9	ZINCATA / GALVANIZED	100
550.35	35 x 35	10	ZINCATA / GALVANIZED	100
550.40	40 x 40	10	ZINCATA / GALVANIZED	100
550.50	50 x 50	10	ZINCATA / GALVANIZED	60
550.60	60 x 60	10	ZINCATA / GALVANIZED	50
550.80	80 x 80	10	ZINCATA / GALVANIZED	50
550.100	100 x 100	10	ZINCATA / GALVANIZED	50
550.120	120 x 120	10	ZINCATA / GALVANIZED	30
550.150	150 x 150	10	ZINCATA / GALVANIZED	20
550.200	200 x 200	10	ZINCATA / GALVANIZED	10
551.30	30 x 30	9	GREZZO / RAW	100
551.35	35 x 35	10	GREZZO / RAW	100
551.40	40 x 40	9	GREZZO / RAW	100
551.50	50 x 50	10	GREZZO / RAW	60
551.60	60 x 60	10	GREZZO / RAW	50
551.80	80 x 80	10	GREZZO / RAW	50
551.100	100 x 100	10	GREZZO / RAW	50
551.120	120 x 120	10	GREZZO / RAW	30
551.150	150 x 150	10	GREZZO / RAW	20
551.200	200 x 200	10	GREZZO / RAW	10

Copricolonna rettangolare con bordo
Rectangular cap with flange



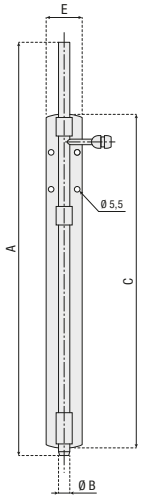
00101100	A (mm)	B (mm)	FINITURA FINISH	
553.3050.0	30	50	GREZZO / RAW	50
553.4060.0	40	60	GREZZO / RAW	50
553.4080.0	40	80	GREZZO / RAW	50
553.50100.0	50	100	GREZZO / RAW	50
553.3050.1	30	50	ZINCATO BIANCO WHITE GALVANIZED STEEL	50
553.4060.1	40	60	ZINCATO BIANCO WHITE GALVANIZED STEEL	50
553.4080.1	48	80	ZINCATO BIANCO WHITE GALVANIZED STEEL	50
553.50100.1	50	100	ZINCATO BIANCO WHITE GALVANIZED STEEL	50



CATENACCI
BOLTS

Catenacci verticali con piolino
Vertical bolts with pip

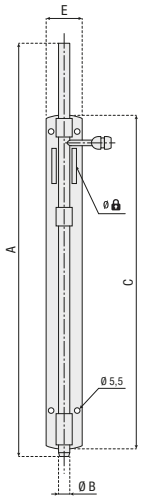




00101100	A (mm)	Ø B (mm)	C (mm)	E (mm)	
701.1	230	16	140	50 x 3	8
701.2	560	16	465	50 x 3	6
701.3	740	20	630	50 x 4	2

Catenacci verticali con portalucchetto
Vertical bolts with padlock holder

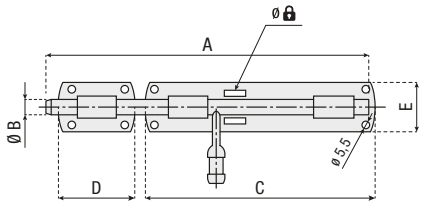




00101100	A (mm)	Ø B (mm)	C (mm)	E (mm)	Ø	
702.1	420	12	385	35 x 3	12	6
702.2	420	16	385	35 x 3	12	6
702.3	560	16	465	50 x 3	12	6
702.4	560	20	465	50 x 4	12	4

Catenacci orizzontali con fori di fissaggio
Horizontal bolts with fixing holes

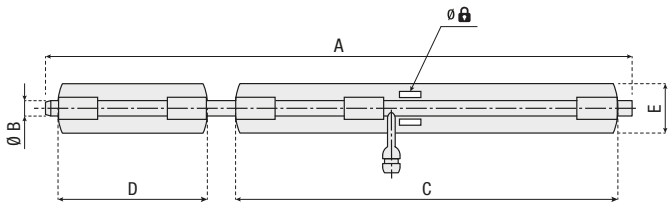




00101100	A (mm)	Ø B (mm)	C (mm)	D (mm)	E (mm)	Ø	
703.1	100	10	68	15	35 x 3	8,5	20
703.2	150	12	100	40	35 x 3	8,5	12
703.3	200	12	155	55	35 x 3	8,5	10
703.4	250	12	180	55	35 x 3	8,5	10
703.5	245	16	180	70	35 x 3	8,5	8
703.6	320	16	245	75	50 x 3	8,5	8

Catenacci orizzontali in acciaio inox con portalucchetto e fori di fissaggio
Stainless steel horizontal bolts with padlock holder and fixing holes



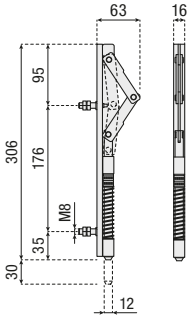


- *applicabili in versione Dx o Sx*
- *right or left versions*

00101100	A (mm)	Ø B (mm)	C (mm)	D (mm)	E (mm)	Ø	
707.1	150	12	100	25	35 x 3	8,5	6
707.2	200	12	155	55	35 x 3	8,5	6
707.3	215	16	140	42	50 x 3	8,5	4
707.4	245	16	180	70	50 x 3	8,5	4
707.5	320	16	245	75	50 x 3	8,5	2

Catenaccio a ginocchiera
Toggle bolt

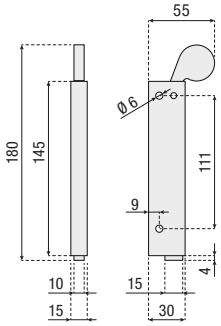




00101100	
710.0	12

Paletto automatico per cancelli a 2 ante
Automatic spring bolt for 2 wings gates

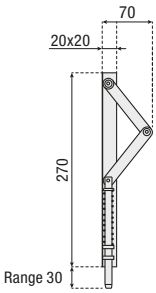




00101100	
711.0	6

Catenaccio a gomito inox
Automatic stainless steel bolt



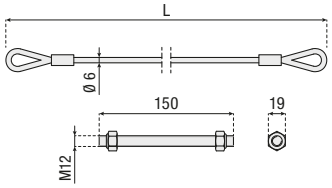


00101100	
2700.0	8

Anticaduta per anta
Safety cable for swing gate

new





00101100	L (mm)	d (mm)	PORTATA CAPACITY	FINITURA FINISH
750.401	400	6	800 kg	ZINCATO BIANCO WHITE GALVANIZED
750.501	500	6	800 kg	---
750.601	600	6	800 kg	---

- *Disponibile anche in versione INOX*
- *Stainless steel version available*

CONDIZIONI GENERALI DI VENDITA

Le presenti Condizioni di Vendita si applicano a tutte le Vendite dei Prodotti, al momento della sottoscrizione del contratto o della conferma d'ordine. Nel caso in cui vi sia un contrasto tra le presenti Condizioni e le condizioni e i termini pattuiti per la singola vendita o nell'eventuale contratto commerciale in essere, prevarranno questi ultimi. Hi-Motions non sarà vincolata dalle Condizioni Generali di Acquisto del Cliente in nessuna ipotesi, a meno che non presti il proprio consenso preventivamente e per iscritto. Hi-Motions ha il diritto di modificare qualsiasi articolo delle presenti Condizioni; eventuali aggiunte, modificazioni o cancellazioni si applicheranno a tutte le vendite concluse a partire dal trentesimo giorno successivo alla comunicazione ufficiale ai Clienti dell'avvenuto cambiamento.

DEFINIZIONI:

- Hi-Motions: la società di capitali Hi-Motions S.r.l., in persona del legale rappresentante pro tempore, con sede in Italia, Sarcedo, Via dell'Industria n. 91, P.IVA 03548520240.
- CLIENTE: si intende qualunque soggetto (persona fisica o giuridica) che acquisti i Prodotti e che non rientri nella definizione di Consumatore di cui al Codice del Consumo.
- DATA DI SPEDIZIONE: si intende la data del documento di trasporto.
- PARTI: si intende Hi-Motions S.r.l. e il Cliente.
- PRODOTTI: sono i Prodotti inseriti nel catalogo di Hi-Motions, last version, con le descritte specifiche tecniche. Si precisa che tutto il materiale illustrativo è meramente indicativo. I Prodotti potranno essere modificati o messi fuori produzione da Hi-Motions in qualunque momento.

1) PREZZO DEI PRODOTTI:I prezzi della merce sono quelli stabiliti nel listino prezzi in vigore al momento dell'ordine, che il Cliente dichiara di conoscere e di accettare; il listino in vigore annulla i precedenti. Hi-Motions S.r.l. potrà modificare il listino prezzi; tale modifica sarà notificata ai Clienti e varrà per gli ordini ricevuti a partire dal trentesimo giorno successivo a detta comunicazione. Hi-Motions si riserva comunque il diritto di modificare unilateralmente il listino, se tale modifica è imposta da circostanze indipendenti dalla sua volontà: in questo caso la variazione potrà avere effetto immediato.

2) TRASPORTO: La merce di intende resa franco stabilimento Hi-Motions S.r.l. – Sarcedo (VI), così come questo termine è definito negli INCOTERMS® della Camera di Commercio Internazionale, nella versione più aggiornata. Le parti, con accordo scritto, potranno concordare un diverso termine; qualunque sia il termine scelto, lo stesso sarà interpretato secondo gli INCOTERMS® ultima versione. La merce viaggia a rischio e pericolo del Cliente, anche se spedita porto franco. Non si accettano reclami trascorsi cinque giorni dal ricevimento della merce, anche in ordine a qualsiasi difformità dei prodotti rispetto al tipo e alla quantità indicata nell'ordine. Il reclamo nei termini non potrà comunque dar luogo ad annullamento o riduzione dell'ordine da parte del Cliente né, tanto meno, a corresponsione di indennizzi di sorte da parte di Hi-Motions S.r.l. Qualsiasi reso di merce per accredito deve essere preventivamente autorizzato da parte di Hi-Motions S.r.l. e spedito in porto franco.

3) RISERVA DI PROPRIETA': Fino alla data in cui Hi-Motions S.r.l. non abbia ricevuto il pagamento dell'intero prezzo dei prodotti forniti, tali prodotti rimarranno di proprietà di Hi-Motions S.r.l.
Nel corso dello svolgimento della sua attività, il Cliente avrà diritto di vendere tali prodotti, o i nuovi prodotti in cui quelli forniti da Hi-Motions S.r.l. siano stati incorporati, fermo restando che, in quel caso, tutti i proventi verranno trasferiti ad Hi-Motions S.r.l., fino alla concorrenza del prezzo dovuto dal Cliente per la fornitura dei prodotti. Hi-Motions S.r.l. avrà diritto di notificare al Cliente la revoca del diritto a vendere i Prodotti in suo possesso e la cui proprietà, in conseguenza della presente clausola di riserva della proprietà, non sia ancora passata al Cliente stesso, qualora il Cliente sia rimasto inadempiente per un periodo di tempo superiore a sette giorni lavorativi rispetto al pagamento di una qualsivoglia somma dovuta ad Hi-Motions S.r.l. (sia in rispetto di tali Prodotti che di qualsivoglia altra merce o servizio forniti da Hi-Motions S.r.l. al Cliente). Qualora Hi-Motions S.r.l. eserciti il diritto di cui al precedente capoverso, il Cliente dovrà mettere i prodotti a disposizione di Hi-Motions S.r.l., che potrà accedere presso la sede del Cliente per provvedere a riprenderli in proprio possesso. Pendente comunque il riservato dominio, il Cliente assume la veste, gli obblighi e le responsabilità del depositario della cosa venduta, seconda gli art. 1766 e seguenti del Codice Civile Italiano. Il Cliente si impegna a adempiere a tutti gli obblighi previsti dalle leggi locali per rendere valida ed eseguibile nei confronti dei terzi la presente clausola di riserva di proprietà, effettuando altresì, se richiesta, l'iscrizione in ogni apposito registro.

4) ORDINI: L'ordine viene assunto da Hi-Motions S.r.l. senza alcun impegno e subordinatamente alla possibilità di approvvigionamento delle materie prime occorrenti alla produzione. Eventuali mancate esecuzioni totali o parziali non possono dar luogo a reclami e riserve per danni. Il Cliente, in caso di disdetta di specifici ordini di produzione di Prodotti non in catalogo, è tenuto a corrispondere ad Hi-Motions S.r.l. un'indennità risarcitoria pari al 30% (trenta per cento) dell'ordine disdettato, salvi ed impregiudicati i diritti per danni ulteriori. Gli ordini regolarmente accettati da Hi-Motions S.r.l. non potranno essere annullati dal Cliente senza il consenso scritto di Hi-Motions S.r.l. Si precisa che Hi-Motions S.r.l. non accetterà ordini di importo inferiore a € 100,00 (euro cento/00) Iva esclusa, al netto dello sconto e delle spese di trasporto.

5) TERMINI DI CONSEGNA: I termini di consegna decorrono dal ricevimento dell'ordine e si intendono espressi in termini di giorni lavorativi. Sono indicativi e non essenziali ai sensi dell'art. 1457 c.c.: pertanto, eventuali ritardi non possono dar luogo né a pretese per danni, né ad annullamento o riduzione del contratto da parte del Cliente.

6) FORZA MAGGIORE: Oltre a quelli previsti dal Codice Civile Italiano, tra i casi di forza maggiore che impediscono l'attività dello stabilimento di Hi-Motions S.r.l. e giustificano il ritardo o la sospensione nell'esecuzione dei contratti, deresponsabilizzando Hi-Motions S.r.l. per ritardi o mancata consegna dei prodotti, vanno considerati, a titolo meramente esemplificativo e senza pretesa di esaustività: eventi atmosferici, terremoti, incendi, scioperi nazionali, locali o di stabilimento, interruzioni dei trasporti e delle comunicazioni, scarsità di energia e della materia prima necessaria, guasti ai macchinari ed impianti di produzione.

7) CONDIZIONI DI PAGAMENTO: I pagamenti dovranno essere effettuati in Euro, con i termini e le modalità indicate in fattura. Il pagamento in valuta diversa dall'Euro sarà accettato solo se preventivamente concordato per iscritto con Hi-Motions S.r.l. Nel caso in cui le Parti concordino un pagamento con credito documentario irrevocabile, lo stesso sarà accettato da Hi-Motions se inviato almeno sessanta giorni prima della data di consegna dei Prodotti e se confermato da una banca italiana di gradimento di Hi-Motions. Trascorso il termine di pagamento previsto, Hi-Motions S.r.l. potrà chiedere al Cliente il pagamento degli interessi scaduti al tasso stabilito dal Decreto Legislativo 231/02. Superati i 5 (cinque) giorni lavorativi dalla scadenza della fattura senza che sia intervenuto il pagamento, Hi-Motions S.r.l. potrà sospendere l'esecuzione e/o la consegna di tutti gli altri ordini e risolvere ogni vendita o contratto similare che fosse sottoscritto in quel momento con il Cliente. Tali misure intraprese da Hi-Motions S.r.l. non daranno al Cliente alcun diritto di pretendere eventuali risarcimenti danni.

8) GARANZIA: Hi-Motions offre una garanzia convenzionale della durata di 24 mesi dalla data di vendita del prodotto al Cliente, rilevabile dalla relativa fattura. Decorsi i 24 mesi, il Cliente rinuncia espressamente al diritto di regresso relativo alla garanzia legale nei confronti di Hi-Motions, ai sensi dell'art. 131 Codice del Consumo. Tale diritto, se esercitato nei termini, non sarà comunque riconosciuto qualora il difetto di conformità dipenda da un'errata installazione effettuata dal Cliente. Si precisa che non rientrano nella garanzia legale tutte le ulteriori circostanze che, comunque, non possono farsi risalire a difetti di fabbricazione e/o di conformità del bene. Inoltre, il Cliente non potrà in ogni caso azionare la garanzia se il prezzo dei prodotti non sia stato corrisposto nei termini e alle condizioni pattuite o se egli risulti inadempiente, anche con riferimento ad altri ordini o prodotti, nei confronti di Hi-Motions S.r.l. Azionando la garanzia convenzionale, il cliente potrà richiedere la riparazione o sostituzione del prodotto, di cui viene garantita la riparazione o la sostituzione gratuita, a discrezione di Hi-Motions S.r.l., nel rispetto dei termini della presente garanzia e delle disposizioni di legge. I difetti riscontrati devono essere tempestivamente comunicati ad Hi-Motions S.r.l. con raccomandata a/r e nei termini indicati dalla legge. In nessun caso rientrano nella garanzia, né legale né convenzionale, i difetti dovuti: a negligenza o trascuratezza nell'uso, usura (es. mancata osservanza delle istruzioni per il funzionamento del prodotto o mancata manutenzione), installazione o manutenzioni operate da personale non autorizzato o comunque in modo non corretto e/o conforme alle istruzioni, danni da trasporto, manomissione del prodotto (a titolo esemplificativo rimozione delle etichette), manomissione documentale, agenti esterni, sottodimensionamento del prodotto o scelta del prodotto non idoneo. I prodotti che non rientrano nelle presenti condizioni di garanzia potranno essere inviati ad Hi-Motions S.r.l., che potrà procedere alla riparazione o sostituzione del bene secondo il listino riparazioni. Il singolo pezzo riparato in garanzia o al di fuori della stessa godrà di un ulteriore periodo di garanzia della durata di 12 mesi.

9) RESPONSABILITA': Hi-Motions S.r.l. non sarà responsabile per danni derivanti da vizi dei prodotti, salvo il caso di dolo o colpa grave. L'eventuale responsabilità deriverà inoltre solo e inderogabilmente da quanto stabilito dalla legge italiana. Hi-Motions S.r.l. non risponderà oltre quanto previsto dal massimale di polizza dell'Assicurazione Rischio Prodotto dalla stessa stipulata. Hi-Motions S.r.l. non sarà responsabile per danni indiretti quali, a titolo meramente di esempio, il mancato guadagno del Cliente.

10) DIRITTI DI PROPRIETA' INTELLETTUALE: I marchi di cui Hi-Motions S.r.l. è proprietaria o licenziataria, i brevetti, i disegni o modelli, il know-how, le specifiche tecniche e i dati dei prodotti, i nomi a dominio contenenti il marchio sono di totale ed esclusiva proprietà di Hi-Motions S.r.l. Il Cliente riconosce la titolarità di tali diritti in capo ad Hi-Motions S.r.l., si impegna ad utilizzarli secondo le specifiche indicazioni di Hi-Motions S.r.l. e nell'esclusivo interesse di quest'ultima ed esclusivamente per la durata del rapporto contrattuale tra le parti, senza che ciò crei in capo al Cliente alcun diritto o pretesa. Il Cliente si obbliga a non registrare, non appropriarsi né chiedere protezione per alcun diritto di proprietà intellettuale appartenente ad Hi-Motions S.r.l. In particolare, si impegna a non registrare e dichiara di non aver registrato i marchi e i nomi a dominio.

11) CLAUSOLA RISOLUTIVA ESPRESSA: Ai sensi e per gli effetti dell'art. 1456 del Codice Civile italiano, Hi-Motions S.r.l. potrà risolvere il contratto in essere con il Cliente in caso di inadempimento delle obbligazioni contenute negli articoli 7) Termini di Pagamento e 10) Diritti di proprietaria intellettuale, delle presenti condizioni di vendita. Inoltre, Hi-Motions potrà risolvere il contratto in essere con il Cliente con effetti immediati nei seguenti casi:

a) qualora il Cliente venga assoggettato a procedure concorsuali o di liquidazione o qualora lo stato delle condizioni economiche del Cliente sia tale da far ragionevolmente presumere l'insolvibilità del Cliente;
b) qualora le azioni e/o quote rappresentative della maggioranza o del controllo del capitale del Cliente siano direttamente o indirettamente cedute, alienate o vincolate a garanzia.

12) LEGGE APPLICABILE E GIURISDIZIONE: Le obbligazioni derivanti dai rapporti tra Hi-Motions S.r.l. e il Cliente, le presenti condizioni di vendita e tutti i contratti (salvo se espressamente disposto per iscritto) sono regolati dal Codice Civile italiano e dalla legge italiana. Per qualsiasi contestazione e controversia afferenti alla presenti condizioni generali di vendita o derivanti dal rapporto contrattuale intercorrente tra Hi-Motions S.r.l. e il Cliente, sarà competente in via esclusiva il Foro di Vicenza, fatta salva la facoltà di Hi-Motions S.r.l. di tutelare i suoi diritti instaurando il contenzioso avanti a qualsiasi Foro ritenga opportuno.

13) TRATTAMENTO DEI DATI PERSONALI: Ai sensi e per gli effetti dell'art. 24, D.Lgs. 30 giugno 2003, n. 196, il Cliente acconsente alla conservazione ed al trattamento dei dati sensibili e personali, consapevole che gli stessi saranno trattati e custoditi nel rispetto della vigente legislazione in materia. I dati personali forniti dal Cliente vengono trattati in ottemperanza a quanto previsto dalla legge sulla privacy. I predetti dati verranno trattati con procedure idonee a garantirne la sicurezza e la riservatezza. Il trattamento avverrà per fini commerciali nell'ambito ed in funzione dell'esecuzione degli stipulandi contratti. I dati personali potranno essere comunicati a terzi in Italia o all'estero, per il conseguimento dei fini sopra indicati. Gli interessati hanno diritto: a) di avere conferma dell'esistenza di eventuali trattamenti di dati personali che li riguardano; b) di ottenere la cancellazione, la trasformazione, l'aggiornamento, la rettificazione e/o l'integrazione dei dati medesimi; c) di opporsi al trattamento di dati personali ai fini di informazione commerciale e di invio di materiale pubblicitario.

14) INTERPRETAZIONE DEL TESTO: Il testo in lingua italiana delle presenti condizioni generali di vendita, anche se redatte in più lingue, sarà considerato l'unico testo autentico ai fini della loro interpretazione.

GENERAL TERMS OF SALE

These Terms of Sale apply to all Sales of Products, at the time of signing the contract or of confirming the order. If there is a conflict between these Terms and the conditions and terms agreed for an individual sale or in any existing commercial contract, the latter will prevail. Hi-Motions shall not be bound by the General Terms of Purchase of the Customer in any circumstance, unless it has given prior consent in writing. Hi-Motions has the right to modify any article in these Terms; any additions, modifications or cancellations shall apply to all sales concluded as from the thirtieth day after the official communication to Customers of the change made.

DEFINITIONS

- Hi-Motions: the joint stock company Hi-Motions S.r.l., in the person of its legal representative pro tempore, with head office in Italy, Sarcedo, Via dell'Industria n. 91, VAT number 03548520240.
- CUSTOMER: any subject (natural or legal person) who purchases the Products and who is not covered by the definition of Consumer according to the Consumer Code.
- DATE OF DESPATCH: the date of the transport document.
- PARTIES: means Hi-Motions S.r.l. and the Customer.
- PRODUCTS: are the Products listed in the catalogue of Hi-Motions, latest version, with the described technical specifications. It is stressed that all illustrative material is merely indicative. The Products may be modified or taken out of production by Hi-Motions at any time.

1) PRICE OF THE PRODUCTS: The prices of the goods are those established in the price list in force at the time of order, which the Customer declares that he knows and accepts; the price list in force cancels all previous ones. Hi-Motions S.r.l. may modify the price list; this modification will be notified to Customers and will be applicable to orders received as from the thirtieth day after said communication. Hi-Motions always reserves the right to modify the price list unilaterally, if said modification is required by circumstances beyond its control: in this case the variation may take effect immediately.

2) TRANSPORT: The goods are sold ex works Hi-Motions S.r.l.– SARCEDO (Vi), as the term is defined in the Incoterms of the International Chamber of Commerce, in the most updated version. The parties may choose a different term, with an agreement in writing; whatever term they choose, it will be interpreted according to the latest version of INCOTERMS®. The goods travel at the Customer's own risk, even if sent carriage paid. No complaints are accepted five days after receipt of the goods, even with reference to any difference in the products with respect to the type and quantity indicated in the order. A complaint within the term may not give rise to cancellation or reduction of the order by the Customer, nor to any payment of compensation of any kind by Hi-Motions S.r.l. Any return of goods for credit must be authorised beforehand by Hi-Motions S.r.l. and the goods must be sent carriage paid.

3) RETENTION OF OWNERSHIP: The products shall remain the property of Hi-Motions S.r.l. until the date on which Hi-Motions S.r.l. receives payment of the entire price of the products supplied. In performing his activity, the Customer shall have the right to sell these products, or new products in which the ones supplied by Hi-Motions S.r.l. have been incorporated, in which case all the proceeds are to be transferred to Hi-Motions S.r.l., up to the amount of the price owed by the Customer for the supply of the products. Hi-Motions S.r.l. shall have the right to notify the Customer of the revocation of the right to sell the Products in his possession and the ownership of which, under this clause of retention of ownership, has not yet passed to the Customer, if the Customer has remained in default for a period of more than seven working days with respect to the payment of any sum owed to Hi-Motions S.r.l. (as regards both these Products and any other goods or services supplied to the Customer by Hi-Motions S.r.l.). If Hi-Motions S.r.l. exerts the right contemplated in the previous paragraph, the Customer must place the products at the disposal of Hi-Motions S.r.l. who may access the Customer's premises to repossess them. While retention of ownership is pending, the Customer assumes the capacity, obligations and responsibilities of the keeper of the sold goods, according to art. 1766 and following articles of the Italian Civil Code. The Customer undertakes to fulfil all the obligations contemplated by the local laws to ensure that this clause of retention of ownership is valid and enforceable with third parties, making the required entries in any special register.

4) ORDERS: The order is received by Hi-Motions S.r.l. without any commitment and subordinate to the possibility of supply of the raw materials necessary for production. Any total or partial non fulfilments cannot give rise to complaints and reserves for damages. If the Customer cancels specific orders for the production of Products not in the catalogue, he is required to pay Hi-Motions S.r.l. compensation amounting to 30% (thirty per cent) of the cancelled order, without prejudice to the right to claim further damages. The orders regularly accepted by Hi-Motions S.r.l. cannot be cancelled by the Customer without the consent of Hi-Motions S.r.l. in writing. Please, it should be noted that Hi-Motions S.r.l. will not accept orders for less than € 100,00 (EUR one hundred/00) VAT excluded, after discount and freight charges.

5) DELIVERY TERMS: The delivery terms run from receipt of the order and are expressed in terms of working days. They are indicative and not essential, according to art. 1457 of the Civil Code: consequently, any delays cannot give rise to claims for damages or to cancellation or reduction of the contract by the Customer.

6) FORCE MAJEURE: Besides those contemplated by the Italian Civil Code, the causes of force majeure that prevent the activity of the Hi-Motions S.r.l. factory and justify delay or interruption of the fulfilment of contracts, relieving Hi-Motions S.r.l. of the responsibility for delays or non delivery of products, also include the following, as an example without limitation: atmospheric events, earthquakes, fires, national, local or factory strikes, interruptions in transports and communications, scarcity of energy and of the necessary raw material. Breakdown of the machinery and production plants.

7) CONDITIONS OF PAYMENT: Payments must be made in Euro, with the terms and procedures indicated on the invoice. Payment in currency other than the Euro will be accepted only if agreed on beforehand in writing with Hi-Motions S.r.l.. If the Parties agree on payment by irrevocable documentary letter of credit, the same will be accepted by Hi-Motions if sent at least sixty days prior to the date of delivery of the Products and if confirmed by an Italian bank approved by Hi-Motions. After the set payment time, Hi-Motions S.r.l. may ask the Customer to pay interest due at the rate established by Legislative Decree 231/02. Once 5 (five) days have passed after the invoice falling due without payment having been made, Hi-Motions S.r.l. may suspend the execution and/or delivery of all other orders and cancel any similar sale or contract that may have been signed at that moment with the Customer. Any such measures undertaken by Hi-Motions S.r.l. do not give the Customer any right to claim compensation for damages.

8) GUARANTEE: Hi Motions offers a conventional guarantee with a duration of 24 months from the sale's date, indicated on the related invoice. After 24 months the Customer expressly renounces the right of recourse concerning the legal guarantee with respect to Hi Motions, according to art. 131 of the Consumer Code. This right, if exerted within the terms, will not, however, be recognized if the conformity defect depends on incorrect installation by the Customer. It is pointed out that the legal guarantee does not cover all the further circumstances that cannot be attributed to defects in manufacture and/or conformity of the goods. Moreover, in no case can the Customer activate the guarantee if the price of the products has not been paid within the terms and on the conditions agreed or if he is in default, even with reference to other orders or products, with respect to Hi Motions S.r.l. By activating the conventional guarantee, the customer may request the repair or replacement of the product, on which free repair or replacement is guaranteed, at the discretion of Hi Motions S.r.l. , respecting the terms of this guarantee and of the legal requirements. Any defects found must be promptly communicated to Hi Motions by registered letter with recorded delivery and within the terms indicated by law. In no case does either the legal or the conventional guarantee cover defects due to: negligence or carelessness in use, wear (e.g. failure to follow the instructions for operation of the product or lack of maintenance), installation or maintenance carried out by non authorised personnel, or in an incorrect way and/or not conforming with the instructions; damage during transport, tampering with the product (for example, removal of the labels), tampering with documentation, external agents, undersized product or incorrect product choice. The products that do not fall under these guarantee conditions may be sent to Hi-Motions S.r.l., who may decide to repair or replace the goods according to the repair price list in force. The individual part repaired under or out of guarantee will be covered by a further guarantee period of 12 months.

9) RESPONSIBILITY: Hi-Motions S.r.l. shall not be responsible for damage resulting from defects in the products, save in the case of malice or gross negligence. Moreover, any responsibility shall derive only and absolutely from the provisions of Italian law. Hi-Motions S.r.l. shall not answer for more than the limit of liability of the Product Risk Insurance policy taken out by the company. Hi-Motions S.r.l. shall not be responsible for indirect damage such as, purely as an example, loss of earnings of the Customer.

10) INTELLECTUAL PROPERTY RIGHTS: The brands of which Hi-Motions S.r.l. is the owner or licence-holder, the patents, the designs or models, the know-how, the technical specifications and data of the products, the domain names containing the brand, are the total and exclusive property of Hi-Motions S.r.l.. The Customer recognises the ownership of these rights by Hi-Motions S.r.l. and undertakes to use them only according to the specific indications of Hi-Motions S.r.l. and in the exclusive interest of the latter, and exclusively for the duration of the contractual relationship between the parties, without this giving the Customer any right or claim. The Customer undertakes not to register, appropriate or ask for protection for any intellectual property right belonging to Hi-Motions S.r.l.. In particular, he undertakes not to register and declares that he has not registered the brands and domain names.

11) EXPRESS TERMINATION CLAUSE: Pursuant to and in accordance with art. 1456 of the Italian Civil Code, Hi-Motions S.r.l. may terminate the existing contract with the Customer in the case of non fulfilment of the obligations contained in the articles 7) Terms of Payment and 10) Intellectual property rights, of these terms of sale. Moreover, Hi-Motions may terminate the existing contract with the Customer with immediate effect in the following cases:

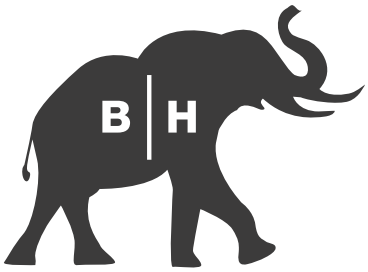
a) if the Customer is subject to insolvency proceedings or winding up, or if the state of the Customer's economic conditions is such as to lead it reasonably to be presumed that the Customer is insolvent;
b) if the shares and/or quotas representing the majority or the control of the capital of the Customer are directly or indirectly transferred, assigned or held in escrow.

12) APPLICABLE LAW AND JURISDICTION: The obligations deriving from the relations between Hi-Motions S.r.l. and the Customer, these terms of sale and all the contracts (unless expressly stated otherwise in writing) are regulated by the Italian Civil Code and by Italian law. For any dispute and controversy concerning these general terms of sale or deriving from the contractual relationship between Hi-Motions S.r.l. and the Customer, the exclusive competent court shall be the Court of Vicenza, without affecting the faculty of Hi-Motions S.r.l. to protect its rights by referring the litigation to any Court that it thinks fit.

13) PROCESSING OF PERSONAL DETAILS: Pursuant to and in accordance with art. 24, Leg.D. 30 June 2003, no. 196, the Customer consents to the storage and processing of his sensitive and personal details, being aware that they shall be processed and kept in conformity with the respective legislation in force. The personal details supplied by the Customer are processed in accordance with the provisions of the law on privacy. The aforesaid details shall be processed with procedures suitable to ensure their security and confidentiality. They will be processed for commercial purposes in the field and with relation to the execution of the contracts to be stipulated. The personal details may be communicated to third parties in Italy or abroad, to achieve the aims indicated above. The parties concerned have the right: a) to obtain confirmation of the existence of any processing of personal details concerning them; b) to have these same details deleted, transformed, updated, corrected and/or integrated; c) to oppose the processing of personal details for the purposes of commercial information and for sending advertising material.

14) INTERPRETATION OF THE TEXT: The Italian text of these general terms of sale, even if drawn up in several languages, will be the only authentic text for the purpose of their interpretation.

BENINCÀ · HOLDING



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Una scelta istituzionale per esprimere una mission precisa: offrire soluzioni operando da specialisti nel settore automazione.

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