

Systems and Motorisation for Gates



Cantilever | Bottom Sliding | Swinging **411A**



We offer you the **widest range of fittings** for sliding doors

MANTION HAS AN INTERNATIONAL REPUTATION BASED ON:

Innovation and a permanent adaptation of its range of products to its customers' needs. A quality product, which meets the requirements of the strictest standards.

THE MANTION KNOW-HOW MEANS BEFORE ALL:

Its team: people with experience and great skills who do their best to keep bringing you the best service.

Its permanent investment policy combined to the newest technologies.

WITH MANTION, YOU BENEFIT FROM A TOP QUALITY SERVICE:

Salesmen who listen to your needs and advise you. A strong technical support: an engineering department and technical advisers at your disposal. The study and the development of special products upon request. Very short delivery time. Very high quality products.

MANTION, IT IS ALSO A COMPLETE RANGE OF:

Fittings for sliding and folding doors.
Fittings for sectional and lateral displacement doors.
Fittings for glass doors.
Fittings in stainless steel quality A2 and A4.

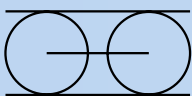
Since **MANTION** has always cared about bringing you the best services within its organization and quality for its products, it is now up to standard:

EN ISO 9001:2015
EN ISO 14001:2015





QUALITY TRACKS



MANTION manufactures its tracks at its factory in Besançon according to its own production process. This ensures a long durability and an optimal reliability of its hardware products.



CANTILEVER GATES



BOTTOM SLIDING GATES



GATES MOUNTED ON PIVOTS



CANTILEVER GATES

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THE MANTION RANGES

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DESCRIPTION:

There is no track on the ground.

The tubular track is either welded or screwed to the gate.

The gate slides on two carriages, which are fixed on a concrete block located on the push back side.

According to the opening position of the gate, the carriages are in contact with either the upper or the lower part of the track to ensure a perfect balance.

The wheels are in constant contact with the top and the bottom of the track limiting the clearance to a minimum (PAF series).

PAF series carriages are strongly recommended for motorized gates.



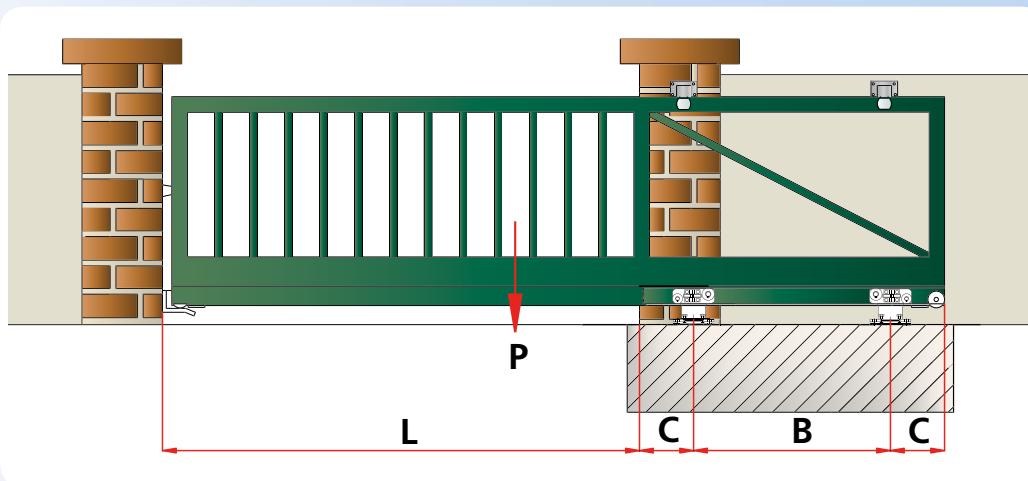
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SIZE YOUR GATE TO SUITE YOUR
SETUP WITH OUR SLIDESOFT®
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AVANTAGES:

- No track on the ground.
- No concrete tie-beam is required to install or support the track.
- The only construction work consists in the concrete block.
- No risk of wear or deformation of the track due to the passage of lorries.
- No risk of ground deformation due to the weather changes.
- No obstruction of the track trough dust, gravel, stone chips ...
- The gate can be installed on a non-stabilized ground (grass, gravel, mould...).
- The ground need not be perfectly horizontal (in the opening).



DIMENSIONS OF THE CONCRETE BLOCK:

Length = shaft center distance
 $B + 1\text{ m}$
(50 cm on each side)

Width = 50 cm

Depth = 80 cm

CARRIAGE SELECTION BASED ON THE TOTAL GATE WEIGHT AND THE OPENING WIDTH

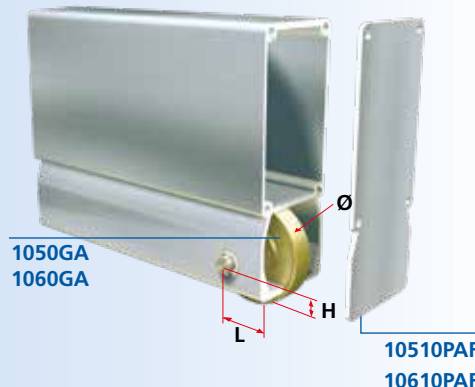
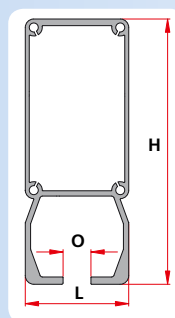
Total weight of the gate	Opening width L						
	3 m	3,50 m	4 m	4,50 m	5 m	5,50 m	6 m
80 kg	9952N	9952N	9952N	9962N	9962N		
130 kg	9962N	9962N	9962N	9962N	9962N	9968N	9968N
160 kg	9958N	9958N	9958N	9958N	9968N	9968N	9968N
250 kg	9968N	9968N	9968N	9968N	9968N	9968N	9968N

POSITIONS OF THE CARRIAGES

Item Nr.	Opening width	Dimension C	Item Nr.	Opening width	Dimension C
9952N	4 m	0,190 m	9958N	4,5 m	0,280 m
9962N	5 m	0,205 m	9968N	6 m	0,295 m

ALUMINIUM TRACKS

Item Nr.	Material	Length	Weight	L	H	O
10500PAF6	Aluminium	6 m	29 Kg	65	150	17
10600PAF6	Aluminium	6 m	39 Kg	80	200	21
10600PAF9	Aluminium	9 m	58 Kg			



ACCESSORIES FOR ALUMINIUM TRACKS

10510PAF	Aluminium ornamental cap for track 10500PAF Screwing type.
10610PAF	Aluminium ornamental cap for track 10600PAF Screwing type.
1050GA	End wheel for track 10500PAF composed of 1 shaft, 2 spacers, 2 circlips and 1 steel wheel.
1060GA	End wheel for track 10600PAF composed of 1 shaft, 2 spacers, 2 circlips and 1 steel wheel.
1060E	Bottom end guide for track 9060 and 10500PAF.
1070E	Bottom end guide for track 9070 and 10600PAF.



Ø14,5 mm HOLES POSITION FOR ITEMS 1050 GA AND 1060 GA			
Item Nr.	L	H	Ø
10500PAF	33	17	60
10600PAF	40	20	74

SINGLE CARRIAGE FOR ALUMINIUM TRACKS

9952N	Carriage with polyamide wheels mounted on high- precision ball bearings. For track: 10500PAF.
9962N	Carriage with polyamide wheels mounted on high- precision ball bearings. For track: 10600PAF.

DOUBLE CARRIAGES FOR ALUMINIUM TRACKS

9958N	Carriage with polyamide wheels mounted on high- precision ball bearings. For track: 10500PAF.
9968N	Carriage with polyamide wheels mounted on high- precision ball bearings. For track: 10600PAF.



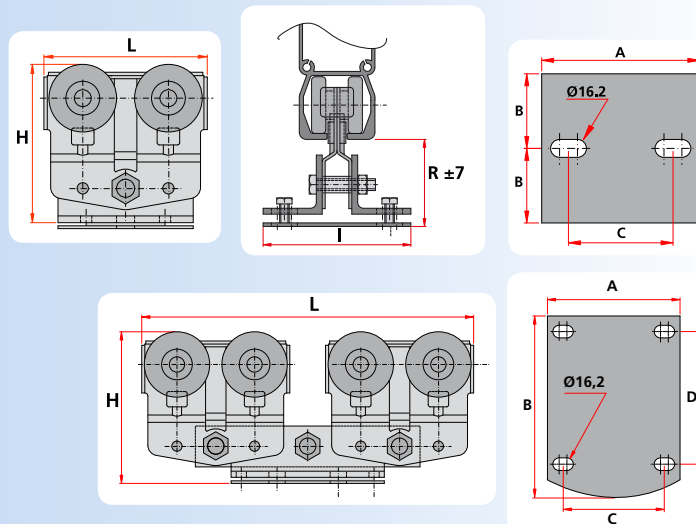
DIMENSIONAL CHARACTERISTICS

SINGLE CARRIAGES FOR ALUMINIUM TRACKS

Item Nr.	L	H	I	R	A	B	C
9952N	120	120	125	74	125	50	89
9962N	145	140	150	81	150	60	110

DOUBLE CARRIAGES FOR ALUMINIUM TRACKS

Item Nr.	L	H	I	R	A	B	C	D
9958N	300	140	150	83	150	150	110	60
9968N	325	145	150	83	150	150	110	60



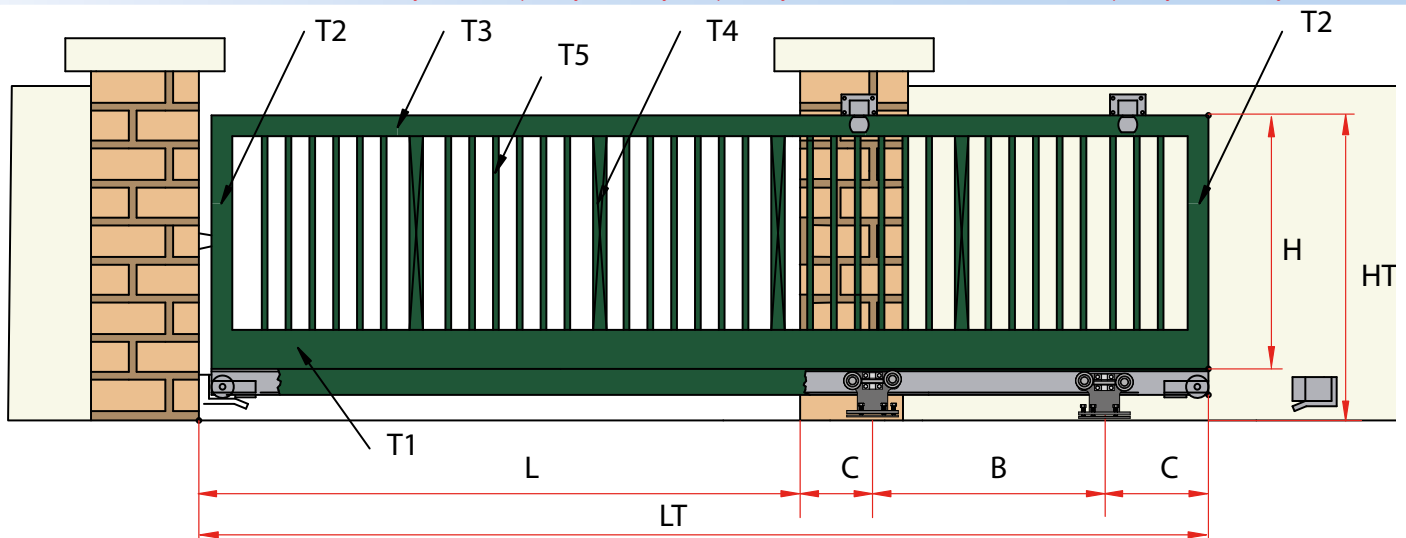


PROPOSED STRUCTURES FOR GATES FROM 3 TO 5.50 M OPENING WIDTH

see carriages dimensions on pages 14 and 15

Opening width L	Total height HT	Gate height H	Total length LT	shaft center distance B	C	Part Nr. Carriage	Weight without track	Lower beam T1	Vertical frame T2	Higher beam T3	Bars T5	Qty	Internal support T4	Qty	Total Weight included track
3	1,00	0,9	4.37	0.9	240	9952PAF	90	60x60x3	60x60x3	60x60x3	20x20x2	33	x	x	116
	1,10	1	4.37	0.9	240	9952PAF	95	60x60x3	60x60x3	60x60x3	20x20x2	33	x	x	121
	1,20	1,1	4.37	0.9	240	9952PAF	99	60x60x3	60x60x3	60x60x3	20x20x2	33	x	x	125
	1,30	1,2	4.37	0.9	240	9952PAF	104	60x60x3	60x60x3	60x60x3	20x20x2	33	x	x	130
	1,40	1,3	4.37	0.9	240	9952PAF	109	60x60x3	60x60x3	60x60x3	20x20x2	33	x	x	135
	1,50	1,4	4.37	0.9	240	9952PAF	113	60x60x3	60x60x3	60x60x3	20x20x2	33	x	x	139
3,5	1,00	0,9	5.02	1.05	240	9952PAF	103	60x60x3	60x60x3	60x60x3	20x20x2	38	x	x	133
	1,10	1	5.02	1.05	240	9952PAF	108	60x60x3	60x60x3	60x60x3	20x20x2	38	x	x	138
	1,20	1,1	5.02	1.05	240	9952PAF	113	60x60x3	60x60x3	60x60x3	20x20x2	38	x	x	143
	1,30	1,2	5.02	1.05	240	9952PAF	119	60x60x3	60x60x3	60x60x3	20x20x2	38	x	x	149
	1,40	1,3	5.02	1.05	240	9952PAF	124	60x60x3	60x60x3	60x60x3	20x20x2	38	x	x	154
	1,50	1,4	5.04	1.07	240	9952PAF	129	60x60x3	60x60x3	60x60x3	20x20x2	38	x	x	159
4	1,00	0,9	5.67	1.20	240	9952PAF	116	60x60x3	60x60x3	60x60x3	20x20x2	43	x	x	150
	1,10	1	5.67	1.20	240	9952PAF	122	60x60x3	60x60x3	60x60x3	20x20x2	43	x	x	156
	1,20	1,1	5.70	1.23	240	9952PAF	128	60x60x3	60x60x3	60x60x3	20x20x2	43	x	x	162
	1,30	1,2	5.78	1.31	240	9952PAF	134	60x60x3	60x60x3	60x60x3	20x20x2	44	x	x	168
	1,40	1,3	5.86	1.39	240	9952PAF	140	60x60x3	60x60x3	60x60x3	20x20x2	44	x	x	175
	1,50	1,4	5.95	1.48	240	9952PAF	146	60x60x3	60x60x3	60x60x3	20x20x2	45	x	x	181
4,5	1,00	0,9	6.62	1.65	240	9952PAF	144	60x60x3	60x60x3	60x60x3	25x25x2	48	x	x	183
	1,00	0,9	6.47	1.35	310	9958PAF	144	60x60x3	60x60x3	60x60x3	25x25x2	48	x	x	182
	1,20	1,08	6.47	1.35	310	9958PAF	160	60x60x3	60x60x3	60x60x3	25x25x2	48	x	x	199
	1,40	1,28	6.47	1.35	310	9958PAF	172	60x60x3	60x60x3	60x60x3	25x25x2	48	x	x	210
	1,60	1,48	6.52	1.40	310	9958PAF	192	60x60x3	60x60x3	60x60x3	25x25x2	48	x	x	226
5	1,00	0,88	7.16	1.54	310	9958PAF	189	80x80x3	80x80x3	80x80x3	25x25x2	51	40x40x2	4	227
	1,20	1,08	7.40	1.78	310	9958PAF	209	80x80x3	80x80x3	80x80x3	25x25x2	54	40x40x2	4	249
	1,40	1,28	7.67	2.05	310	9958PAF	229	80x80x3	80x80x3	80x80x3	25x25x2	55	40x40x2	4	271
	1,40	1,24	7.02	1.50	260	9962PAF	205	80x80x3	80x80x3	80x80x3	25x25x2	50	40x40x2	4	271
	1,60	1,48	7.02	2.35	260	9962PAF	231	80x80x3	80x80x3	80x80x3	25x25x2	50	40x40x2	4	291
	1,80	1,64	7.02	1.50	260	9962PAF	247	80x80x3	80x80x3	80x80x3	25x25x2	50	40x40x2	4	307
	2,00	1,84	7.06	1.55	260	9962PAF	271	80x80x3	80x80x3	80x80x3	25x25x2	50	40x40x2	4	331
5,5	1,20	1,04	7.67	1.65	260	9962PAF	207	80x80x3	80x80x3	80x80x3	25x25x2	55	40x40x2	4	273
	1,40	1,24	7.67	1.65	260	9962PAF	229	80x80x3	80x80x3	80x80x3	25x25x2	55	40x40x2	4	295
	1,60	1,44	7.67	1.65	260	9962PAF	250	80x80x3	80x80x3	80x80x3	25x25x2	55	40x40x2	4	316
	1,80	1,64	7.73	1.71	260	9962PAF	269	80x80x3	80x80x3	80x80x3	25x25x2	55	40x40x2	4	334
	2,00	1,84	7.96	1.94	260	9962PAF	294	80x80x3	80x80x3	80x80x3	25x25x2	56	40x40x2	4	362

Recommendations are for information only for a frequency of 20 cycles per day with this dimensions B. For frequency over 20 cycles per day contact us.



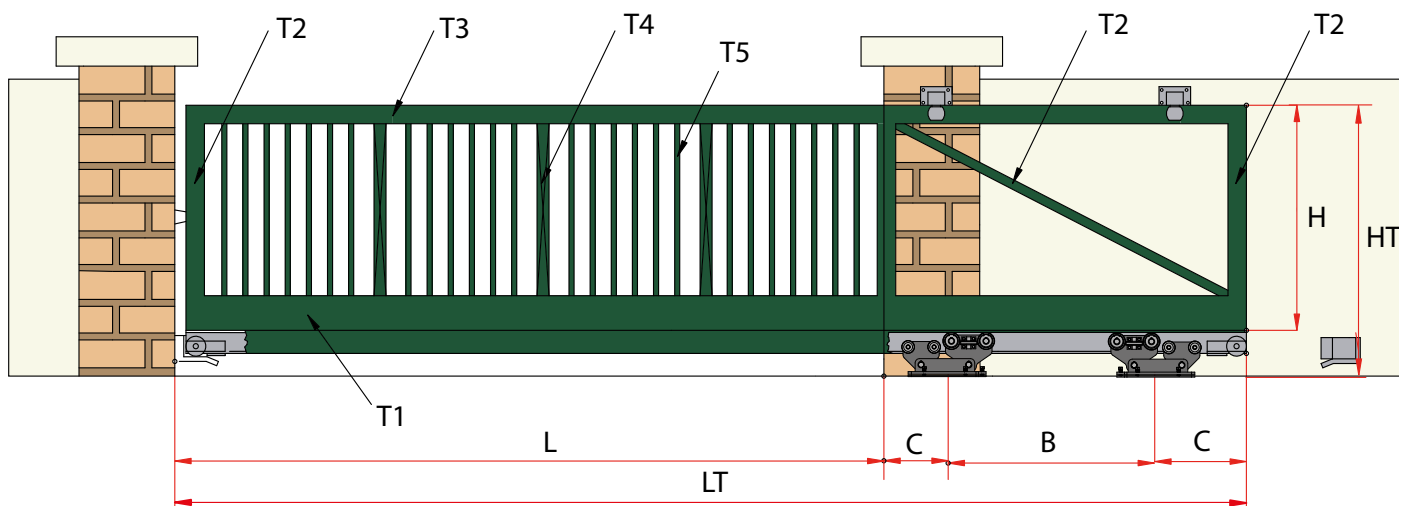


PROPOSED STRUCTURES FOR GATES FROM 6 TO 8.5 M OPENING WIDTH

see carriages dimensions on pages 14 and 15

Opening width L	Total height HT	Gate height H	Total length LT	shaft center distance B	C	Part Nr. Carriage	Weight without track	Lower beam T1	Vertical frame T2	Renfort digital T2	Higher beam T3	Bar T5	Qty	Internal support T4	Qty	Total Weight included track
6	1,20	1,04	8.32	1.80	260	9962PAF	227	80x80x3	80x80x3	80x80x3	80x80x3	25x25x2	43	40x40x2	4	298
	1,40	1,24	8.32	1.80	260	9962PAF	250	80x80x3	80x80x3	80x80x3	80x80x3	25x25x2	43	40x40x2	4	321
	1,60	1,44	8.47	1.96	260	9962PAF	274	80x80x3	80x80x3	80x80x3	80x80x3	25x25x2	43	40x40x2	4	346
	1,80	1,64	8.96	2.45	260	9962PAF	319	120x80x3	80x80x3	80x80x3	120x80x3	30x30x2	41	40x40x2	4	396
	2,00	1,84	8.50	1.80	350	9968PAF	360	120x80x3	80x80x3	80x80x3	120x80x3	30x30x2	41	40x40x2	4	433
6,5	1,20	1,04	8.97	1.95	260	9962PAF	243	80x80x3	80x80x3	80x80x3	80x80x3	25x25x2	46	40x40x2	4	320
	1,40	1,24	9.13	2.11	260	9962PAF	269	80x80x3	80x80x3	80x80x3	80x80x3	25x25x2	46	40x40x2	4	347
	1,60	1,44	9.15	1.95	350	9968PAF	320	120x80x3	80x80x3	80x80x3	80x80x3	25x25x2	46	40x40x2	4	399
	1,80	1,64	9.15	1.95	350	9968PAF	348	120x80x3	80x80x3	80x80x3	120x80x3	30x30x2	45	40x40x2	4	427
	2,00	1,84	9.15	1.95	350	9968PAF	375	120x80x3	80x80x3	80x80x3	120x80x3	30x30x2	45	40x40x2	4	454
7	1,20	1,04	10.03	2.51	260	9962PAF	284	120x80x3	80x80x3	80x80x3	80x80x3	30x30x2	48	40x40x2	4	370
	1,20	1,04	9.80	2.10	350	9968PAF	274	120x80x3	80x80x3	80x80x3	80x80x3	30x30x2	48	40x40x2	4	358
	1,40	1,24	9.80	2.10	350	9968PAF	303	120x80x3	80x80x3	80x80x3	80x80x3	30x30x2	48	40x40x2	4	387
	1,60	1,44	9.80	2.10	350	9968PAF	332	120x80x3	80x80x3	80x80x3	80x80x3	30x30x2	48	40x40x2	4	416
	1,80	1,64	9.80	2.10	350	9968PAF	372	120x80x3	80x80x3	80x80x3	120x80x3	30x30x2	48	40x40x2	4	456
7,5	1,20	1,04	10.45	2.25	350	9968PAF	294	120x80x3	80x80x3	80x80x3	80x80x3	30x30x2	52	40x40x2	5	384
	1,40	1,24	10.45	2.25	350	9968PAF	325	120x80x3	80x80x3	80x80x3	80x80x3	30x30x2	52	40x40x2	5	415
	1,60	1,44	10.45	2.25	350	9968PAF	356	120x80x3	80x80x3	80x80x3	80x80x3	30x30x2	52	40x40x2	5	446
	1,80	1,64	10.45	2.25	350	9968PAF	399	120x80x3	80x80x3	80x80x3	120x80x3	30x30x2	52	40x40x2	5	489
	2,00	1,84	10.45	2.25	350	9968PAF	430	120x80x3	80x80x3	80x80x3	120x80x3	30x30x2	52	40x40x2	5	520
8	1,20	1,04	11.10	2.40	350	9968PAF	319	140x80x3	80x80x3	80x80x3	80x80x3	30x30x2	55	40x40x2	5	414
	1,40	1,24	11.10	2.40	350	9968PAF	351	140x80x3	80x80x3	80x80x3	80x80x3	30x30x2	55	40x40x2	5	446
	1,60	1,44	11.10	2.40	350	9968PAF	384	140x80x3	80x80x3	80x80x3	80x80x3	30x30x2	55	40x40x2	5	479
	1,80	1,64	11.10	2.40	350	9968PAF	430	140x80x3	80x80x3	80x80x3	120x80x3	30x30x2	55	40x40x2	5	525
	2,00	1,84	11.10	2.40	350	9968PAF	462	140x80x3	80x80x3	80x80x3	120x80x3	30x30x2	55	40x40x2	5	557
8,5	1,20	1,04	11.75	2.55	350	9968PAF	339	140x80x3	80x80x3	80x80x3	80x80x3	30x30x2	58	40x40x2	6	440
	1,40	1,24	11.75	2.55	350	9968PAF	373	140x80x3	80x80x3	80x80x3	80x80x3	30x30x2	58	40x40x2	6	474
	1,60	1,44	11.75	2.55	350	9968PAF	408	140x80x3	80x80x3	80x80x3	80x80x3	30x30x2	58	40x40x2	6	509
	1,80	1,64	11.75	2.55	350	9968PAF	457	140x80x3	80x80x3	80x80x3	120x80x3	30x30x2	58	40x40x2	6	558
	2,00	1,84	11.75	2.55	350	9968PAF	492	140x80x3	80x80x3	80x80x3	120x80x3	30x30x2	58	40x40x2	6	593

Recommendations are for information only for a frequency of 20 cycles per day with this dimensions B. For frequency over 20 cycles contact us.



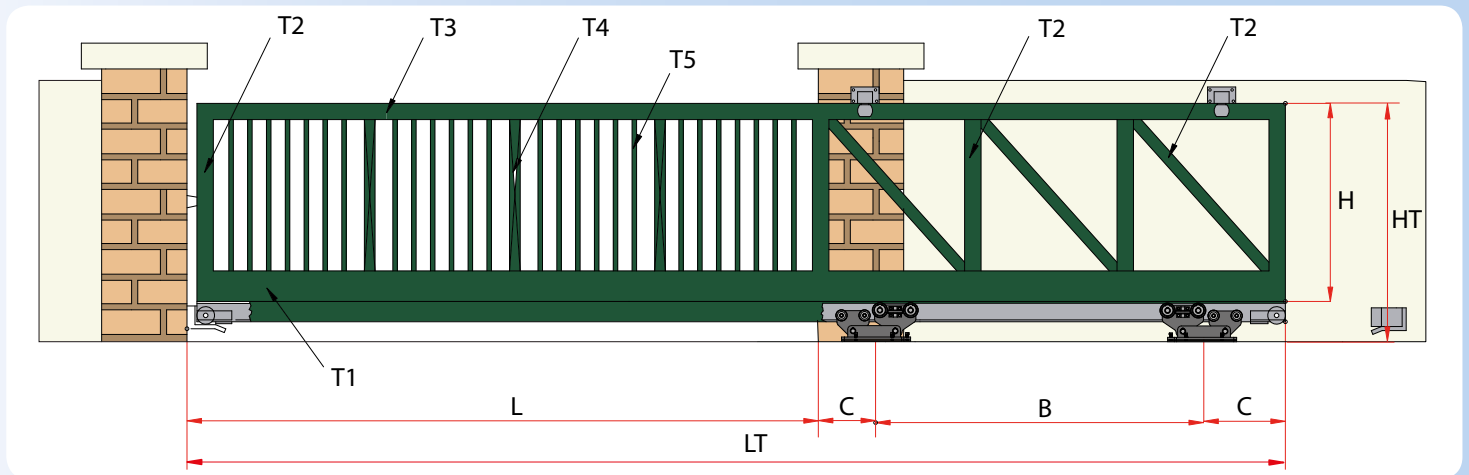


PROPOSED STRUCTURES FOR GATES FROM 9 TO 10.50 M OPENING WIDTH

see carriages dimensions on pages 14 and 15

Opening width L	Total height HT	Gate height H	Total length LT	shaft center distance B	C	Part Nr. Carriage	Weight without track	Lower beam T1	Vertical frame T2	Diagonal support T2	Higher beam T3	Bars T5	Qty	Internal support T4	Qty	Total Weight included track
9	1,30	1,14	12.40	2.70	350	9968PAF	492	160x80x4	80x80x3	80x80x3	120x80x3	40x40x2	57	60x60x3	6	598
	1,40	1,24	12.51	2.80	350	9968PAF	618	160x80x4	80x80x3	80x80x3	120x80x3	40x40x2	57	60x60x3	6	623
	1,60	1,44	12.89	3.19	350	9968PAF	585	160x80x4	80x80x3	80x80x3	120x80x3	40x40x2	57	60x60x3	6	686
	1,60	1,39	12.45	2.70	380	9978PAF	561	160x80x4	80x80x3	80x80x3	120x80x3	40x40x2	57	60x60x3	6	748
	1,80	1,59	12.45	2.70	380	9978PAF	616	160x80x4	80x80x3	80x80x3	140x80x3	40x40x2	57	60x60x3	6	803
	2,00	1,79	12.45	2.70	380	9978PAF	664	160x80x4	80x80x3	80x80x3	140x80x3	40x40x2	57	60x60x3	6	851
9,5	1,30	1,09	13.10	2.85	380	9978PAF	524	160x80x4	80x80x3	80x80x3	140x80x3	40x40x2	60	60x60x3	7	721
	1,40	1,19	13.10	2.85	380	9978PAF	550	160x80x4	80x80x3	80x80x3	140x80x3	40x40x2	60	60x60x3	7	747
	1,60	1,39	13.10	2.85	380	9978PAF	602	160x80x4	80x80x3	80x80x3	140x80x3	40x40x2	60	60x60x3	7	799
	1,80	1,59	13.10	2.85	380	9978PAF	664	180x80x4	80x80x3	80x80x3	140x80x3	40x40x2	60	60x60x3	7	861
	2,00	1,79	13.10	2.85	380	9978PAF	766	180x80x4	80x80x3	80x80x3	160x80x4	40x40x2	60	60x60x3	7	963
10	1,40	1,19	13.75	3	380	9978PAF	654	180x80x4	80x80x3	80x80x3	160x80x4	40x40x2	62	80x80x3	7	860
	1,50	1,29	13.75	3	380	9978PAF	682	180x80x4	80x80x3	80x80x3	160x80x4	40x40x2	62	80x80x3	7	888
	1,60	1,39	13.75	3	380	9978PAF	711	180x80x4	80x80x3	80x80x3	160x80x4	40x40x2	62	80x80x3	7	917
	1,80	1,59	13.75	3	380	9978PAF	778	180x80x4	80x80x3	80x80x3	160x80x4	40x40x2	62	80x80x3	7	984
	2,00	1,79	13.75	3	380	9978PAF	835	180x80x4	80x80x3	80x80x3	180x80x4	40x40x2	62	80x80x3	7	1041
10,5	1,4	1,19	14.40	3.15	380	9978PAF	683	180x80x4	80x80x3	80x80x3	160x80x4	40x40x2	66	80x80x3	7	899
	1,5	1,29	14.40	3.15	380	9978PAF	713	180x80x4	80x80x3	80x80x3	160x80x4	40x40x2	66	80x80x3	7	929
	1,6	1,39	14.40	3.15	380	9978PAF	742	180x80x4	80x80x3	80x80x3	160x80x4	40x40x2	66	80x80x3	7	958
	1,8	1,59	14.40	3.15	380	9978PAF	813	180x80x4	80x80x3	80x80x3	180x80x4	40x40x2	66	80x80x3	7	1029
	2	1,79	14.58	3.33	380	9978PAF	871	180x80x4	80x80x3	80x80x3	180x80x4	40x40x2	66	80x80x3	7	1090

Recommendations are for information only for a frequency of 20 cycles per day with this dimensions B. For frequency over 20 cycles contact us.



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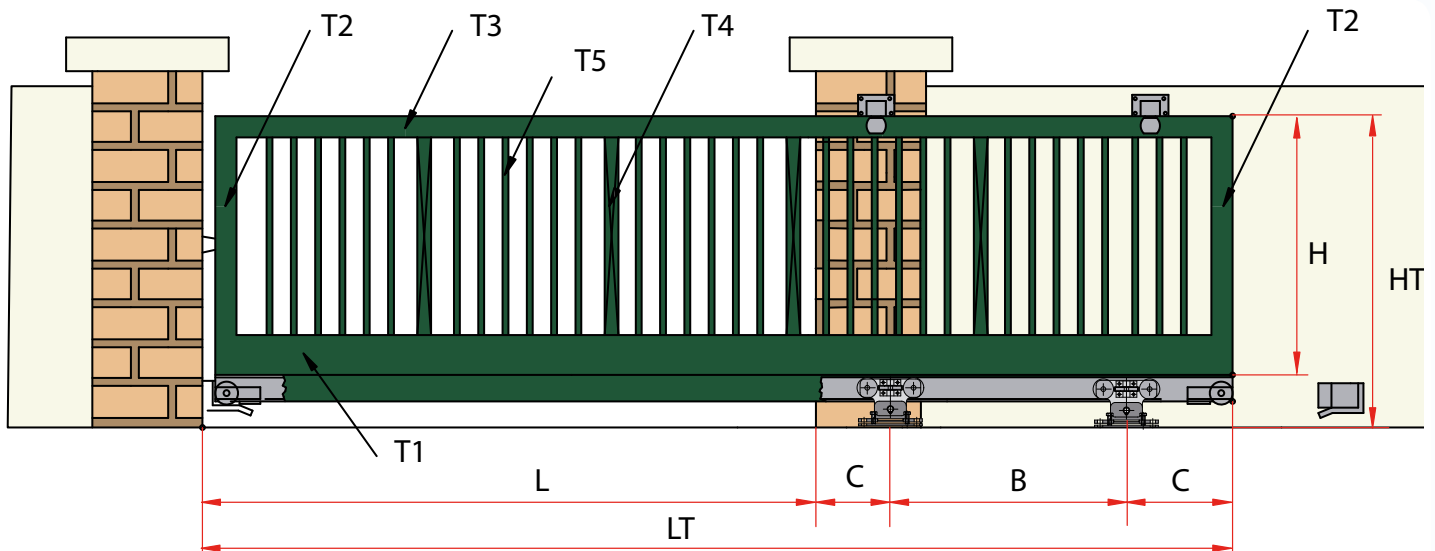


PROPOSED STRUCTURES FOR GATES FROM 3 TO 5.50 M OPENING WIDTH

see carriages dimensions on pages 14 and 15

Opening width L	Total height HT	Gate height H	Total length LT	shaft center distance B	C	Part Nr. Carriage	Weight without track	Lower beam T1	Vertical frame T2	Higher beam T3	Bars T5	Qty	Internal support T4	Qty	Total Weight included track
3	1,00	0,9	4.46	0.9	280	9952S	77	60x60x3	60x60x3	60x60x3	20x20x2	33	x	x	103
	1,10	1	4.46	0.9	280	9952S	81	60x60x3	60x60x3	60x60x3	20x20x2	33	x	x	107
	1,20	1,1	4.46	0.9	280	9952S	86	60x60x3	60x60x3	60x60x3	20x20x2	33	x	x	112
	1,30	1,2	4.46	0.9	280	9952S	91	60x60x3	60x60x3	60x60x3	20x20x2	33	x	x	117
	1,40	1,3	4.46	0.9	280	9952S	95	60x60x3	60x60x3	60x60x3	20x20x2	33	x	x	121
	1,50	1,4	4.46	0.9	280	9952S	100	60x60x3	60x60x3	60x60x3	20x20x2	33	x	x	126
3,5	1,00	0,9	5.11	1.05	280	9952S	88	60x60x3	60x60x3	60x60x3	20x20x2	38	x	x	118
	1,10	1	5.11	1.05	280	9952S	93	60x60x3	60x60x3	60x60x3	20x20x2	38	x	x	123
	1,20	1,1	5.11	1.05	280	9952S	98	60x60x3	60x60x3	60x60x3	20x20x2	38	x	x	128
	1,30	1,2	5.11	1.05	280	9952S	103	60x60x3	60x60x3	60x60x3	20x20x2	38	x	x	133
	1,40	1,3	5.11	1.05	280	9952S	109	60x60x3	60x60x3	60x60x3	20x20x2	38	x	x	139
	1,50	1,4	5.11	1.05	280	9952S	114	60x60x3	60x60x3	60x60x3	20x20x2	38	x	x	144
4	1,00	0,9	5.76	1.20	280	9952S	99	60x60x3	60x60x3	60x60x3	20x20x2	43	x	x	133
	1,10	1	5.76	1.20	280	9952S	104	60x60x3	60x60x3	60x60x3	20x20x2	43	x	x	138
	1,20	1,1	5.76	1.20	280	9952S	110	60x60x3	60x60x3	60x60x3	20x20x2	43	x	x	144
	1,30	1,2	5.76	1.20	280	9952S	116	60x60x3	60x60x3	60x60x3	20x20x2	43	x	x	150
	1,40	1,3	5.79	1.23	280	9952S	122	60x60x3	60x60x3	60x60x3	20x20x2	43	x	x	156
	1,50	1,4	5.87	1.31	280	9952S	127	60x60x3	60x60x3	60x60x3	20x20x2	44	x	x	162
4,5	1,00	0,9	6.48	1.42	280	9952S	122	60x60x3	60x60x3	60x60x3	25x25x2	47	x	x	160
	1,20	1,1	6.73	1.67	280	9952S	137	60x60x3	60x60x3	60x60x3	25x25x2	49	x	x	177
	1,20	1,06	6.47	1.35	310	9958S	141	60x60x3	60x60x3	60x60x3	25x25x2	49	x	x	179
	1,40	1,29	7.02	1.96	280	9952S	156	60x60x3	60x60x3	60x60x3	25x25x2	49	x	x	198
	1,40	1,26	6.47	1.35	310	9958S	150	60x60x3	60x60x3	60x60x3	25x25x2	47	x	x	188
	1,60	1,46	6.47	1.35	310	9958S	166	60x60x3	60x60x3	60x60x3	25x25x2	47	x	x	204
5	1,00	0,86	7.12	1.50	310	9958S	162	80x80x3	80x80x3	80x80x3	25x25x2	50	40x40x2	4	204
	1,20	1,06	7.12	1.50	310	9958S	181	80x80x3	80x80x3	80x80x3	25x25x2	50	40x40x2	4	223
	1,40	1,26	7.12	1.50	310	9958S	201	80x80x3	80x80x3	80x80x3	25x25x2	50	40x40x2	4	243
	1,60	1,46	7.12	1.50	310	9958S	221	80x80x3	80x80x3	80x80x3	25x25x2	50	40x40x2	4	263
	1,80	1,66	7.12	1.50	310	9958S	237	80x80x3	80x80x3	80x80x3	25x25x2	50	40x40x2	4	279
	2,00	1,86	7.12	1.50	310	9958S	260	80x80x3	80x80x3	80x80x3	25x25x2	50	40x40x2	4	302
5,5	1,00	0,86	7.77	1.65	310	9958S	177	80x80x3	80x80x3	80x80x3	25x25x2	55	40x40x2	4	222
	1,20	1,06	7.77	1.65	310	9958S	198	80x80x3	80x80x3	80x80x3	25x25x2	55	40x40x2	4	243
	1,40	1,26	7.77	1.65	310	9958S	219	80x80x3	80x80x3	80x80x3	25x25x2	55	40x40x2	4	264
	1,60	1,46	7.77	1.65	310	9958S	240	80x80x3	80x80x3	80x80x3	25x25x2	55	40x40x2	4	285
	1,80	1,66	7.77	1.65	310	9958S	258	80x80x3	80x80x3	80x80x3	25x25x2	55	40x40x2	4	303
	2,00	1,86	7.92	1.80	310	9958S	282	80x80x3	80x80x3	80x80x3	25x25x2	55	40x40x2	4	329

Recommendations are for information only for a frequency of 20 cycles per day with this dimensions B. For frequency over 20 cycles contact us.



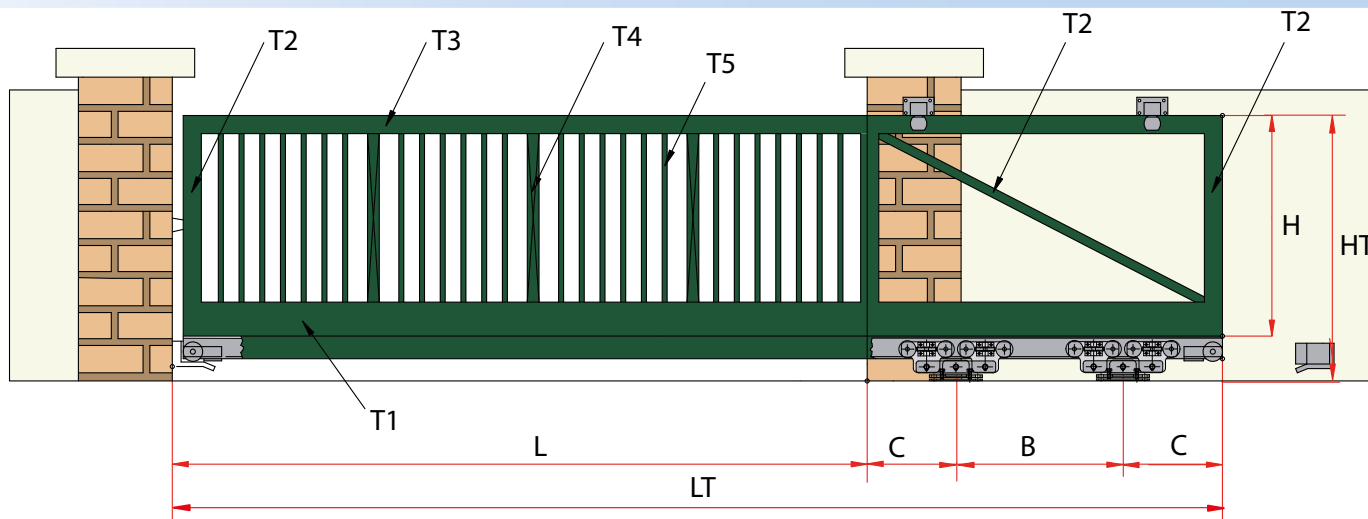


PROPOSED STRUCTURES FOR GATES FROM 6 TO 8.50 M OPENING WIDTH

see carriages dimensions on pages 14 and 15

Opening width L	Total height HT	Gate height H	Total length LT	center distance of shaft B	C	Part Nr. Carriage	Weight without track	Lower beam T1	Vertical frame T2	Renfort digital T2	Higher beam T3	Bar T5	Qty	Internal support T4	Qty	Total Weight included track
6	1,20	1,06	8.42	1.80	310	9958S	215	80x80x3	80x80x3	80x80x3	80x80x3	25x25x2	43	40x40x2	4	265
	1,40	1,26	8.42	1.80	310	9958S	238	80x80x3	80x80x3	80x80x3	80x80x3	25x25x2	43	40x40x2	4	288
	1,60	1,46	8.42	1.80	310	9958S	262	80x80x3	80x80x3	80x80x3	80x80x3	25x25x2	43	40x40x2	4	312
	1,80	1,66	8.86	2.24	310	9958S	305	120x80x3	80x80x3	80x80x3	120x80x3	30x30x2	41	40x40x2	4	358
	1,80	1,65	8.55	1.80	380	9968S	340	120x80x3	80x80x3	80x80x3	120x80x3	30x30x2	41	40x40x2	4	390
6,5	1,20	1,06	9.07	1.95	310	9958S	231	80x80x3	80x80x3	80x80x3	80x80x3	25x25x2	46	40x40x2	4	285
	1,40	1,26	9.07	1.95	310	9958S	256	80x80x3	80x80x3	80x80x3	80x80x3	25x25x2	46	40x40x2	4	310
	1,60	1,46	9.58	2.47	310	9958S	306	120x80x3	80x80x3	80x80x3	80x80x3	30x30x2	45	40x40x2	4	363
	1,60	1,45	9.20	1.95	380	9968S	318	120x80x3	80x80x3	80x80x3	80x80x3	30x30x2	45	40x40x2	4	397
	1,80	1,65	9.20	1.95	380	9968S	348	120x80x3	80x80x3	80x80x3	80x80x3	30x30x2	45	40x40x2	4	427
	2,00	1,85	9.20	1.95	380	9968S	375	120x80x3	80x80x3	80x80x3	120x80x3	30x30x2	45	40x40x2	4	454
7	1,20	1,06	9.86	2.24	310	9958S	276	120x80x3	80x80x3	80x80x3	80x80x3	30x30x2	48	40x40x2	4	334
	1,40	1,25	9.85	2.10	380	9968S	302	120x80x3	80x80x3	80x80x3	80x80x3	30x30x2	48	40x40x2	4	387
	1,60	1,45	9.85	2.10	380	9968S	331	120x80x3	80x80x3	80x80x3	80x80x3	30x30x2	48	40x40x2	4	416
	1,80	1,65	9.85	2.10	380	9968S	372	120x80x3	80x80x3	80x80x3	120x80x3	30x30x2	48	40x40x2	4	457
	2,00	1,85	9.85	2.10	380	9968S	400	120x80x3	80x80x3	80x80x3	120x80x3	30x30x2	48	40x40x2	4	485
7,5	1,20	1,06	10.79	2.67	310	9958S	295	120x80x3	80x80x3	80x80x3	80x80x3	30x30x2	52	40x40x2	5	359
	1,20	1,05	10.50	2.25	380	9968S	294	120x80x3	80x80x3	80x80x3	80x80x3	30x30x2	52	40x40x2	5	384
	1,40	1,25	10.50	2.25	380	9968S	325	120x80x3	80x80x3	80x80x3	80x80x3	30x30x2	52	40x40x2	5	415
	1,60	1,45	10.50	2.25	380	9968S	356	120x80x3	80x80x3	80x80x3	80x80x3	30x30x2	52	40x40x2	5	446
	1,80	1,65	10.50	2.25	380	9968S	400	120x80x3	80x80x3	80x80x3	120x80x3	30x30x2	52	40x40x2	5	490
	2,00	1,85	10.66	2.40	380	9968S	430	120x80x3	80x80x3	80x80x3	120x80x3	30x30x2	52	40x40x2	5	522
8	1,20	1,05	11.15	2.40	380	9968S	318	140x80x3	80x80x3	80x80x3	80x80x3	30x30x2	55	40x40x2	5	414
	1,40	1,25	11.15	2.40	380	9968S	351	140x80x3	80x80x3	80x80x3	80x80x3	30x30x2	55	40x40x2	5	447
	1,60	1,45	11.15	2.40	380	9968S	383	140x80x3	80x80x3	80x80x3	80x80x3	30x30x2	55	40x40x2	5	479
	1,80	1,65	11.34	2.59	380	9968S	430	140x80x3	80x80x3	80x80x3	120x80x3	30x30x2	55	40x40x2	5	527
	2,00	1,85	11.63	2.87	380	9968S	462	140x80x3	80x80x3	80x80x3	120x80x3	30x30x2	55	40x40x2	5	562
8,5	1,20	1,05	11.80	2.55	380	9968S	339	140x80x3	80x80x3	80x80x3	80x80x3	30x30x2	58	40x40x2	6	440
	1,40	1,25	11.80	2.55	380	9968S	374	140x80x3	80x80x3	80x80x3	80x80x3	30x30x2	58	40x40x2	6	475
	1,60	1,45	11.85	2.60	380	9968S	408	140x80x3	80x80x3	80x80x3	80x80x3	30x30x2	58	40x40x2	6	510
	1,80	1,65	12.30	3.05	380	9968S	451	140x80x3	80x80x3	80x80x3	120x80x3	30x30x2	58	40x40x2	6	563
	2,00	1,85	12.65	3.40	380	9968S	492	140x80x3	80x80x3	80x80x3	120x80x3	30x30x2	58	40x40x2	6	601
	2,00	1,79	11.93	2.55	440	9978S	514	140x80x3	80x80x3	80x80x3	120x80x3	30x30x2	58	40x40x2	6	693

Recommendations are for information only for a frequency of 20 cycles per day with this dimensions B. For frequency over 20 cycles contact us.



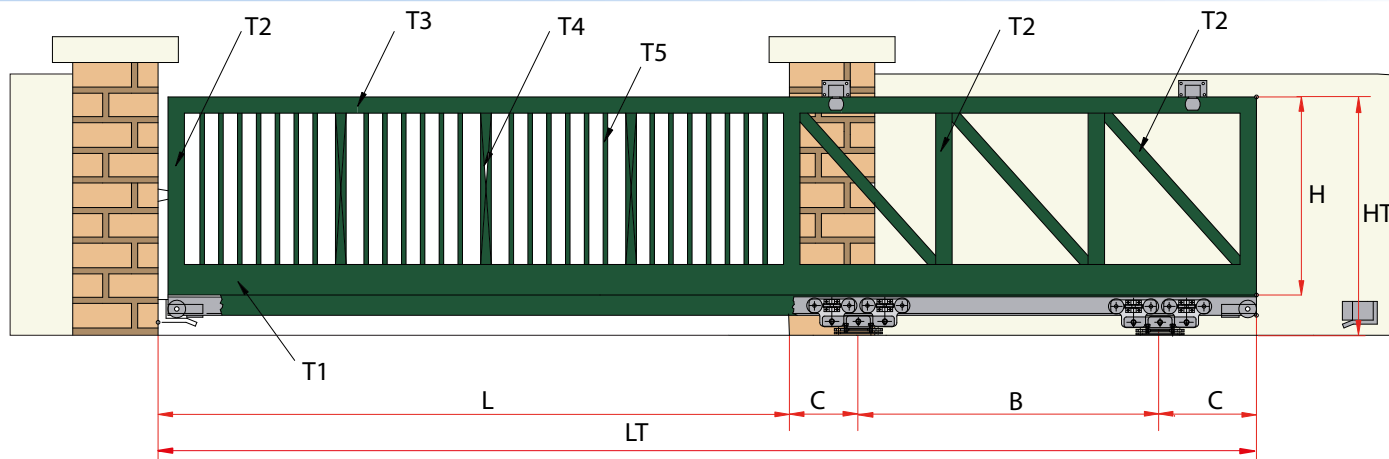


PROPOSED STRUCTURES FOR GATES FROM 9 TO 10.50 M OPENING WIDTH

see carriage dimensions on pages 14 and 15

Opening width L	Total height HT	Gate height H	Total length LT	center distance of shaft B	C	Part Nr. Carriage	Weight	Lower beam T1	Vertical frame T2	Diagonal support T2	Higher beam T3	Bars T5	Qty	Internal support T4	Qty	Total Weight included track
9	1,30	1,15	13,40	3,63	380	99685	498	160x80x4	80x80x3	80x80x3	120x80x3	40x40x2	57	60x60x3	6	610
	1,30	1,35	12,58	2,70	440	99785	479	160x80x4	80x80x3	80x80x3	120x80x3	40x40x2	57	60x60x3	6	705
	1,40	1,25	12,58	2,70	440	99785	504	160x80x4	80x80x3	80x80x3	120x80x3	40x40x2	57	60x60x3	6	730
	1,60	1,39	12,58	2,70	440	99785	549	160x80x4	80x80x3	80x80x3	120x80x3	40x40x2	57	60x60x3	6	750
	1,80	1,59	12,58	2,70	440	99785	604	160x80x4	80x80x3	80x80x3	140x80x3	40x40x2	57	60x60x3	6	805
	2,00	1,79	12,58	2,70	440	99785	654	160x80x4	80x80x3	80x80x3	140x80x3	40x40x2	57	60x60x3	6	855
9,5	1,30	1,09	13,23	2,85	440	99785	519	160x80x4	80x80x3	80x80x3	140x80x3	40x40x2	60	60x60x3	7	723
	1,40	1,19	13,23	2,85	440	99785	539	160x80x4	80x80x3	80x80x3	140x80x3	40x40x2	60	60x60x3	7	749
	1,60	1,39	13,23	2,85	440	99785	589	160x80x4	80x80x3	80x80x3	140x80x3	40x40x2	60	60x60x3	7	801
	1,80	1,59	13,23	2,85	440	99785	654	180x80x4	80x80x3	80x80x3	140x80x3	40x40x2	60	60x60x3	7	863
	2,00	1,79	13,23	2,85	440	99785	754	180x80x4	80x80x3	80x80x3	160x80x4	40x40x2	60	60x60x3	7	965
10	1,40	1,19	13,88	3,00	440	99785	643	180x80x4	80x80x3	80x80x3	160x80x4	40x40x2	62	80x80x3	7	862
	1,50	1,29	13,88	3,00	440	99785	668	180x80x4	80x80x3	80x80x3	160x80x4	40x40x2	62	80x80x3	7	890
	1,60	1,39	13,88	3,00	440	99785	698	180x80x4	80x80x3	80x80x3	160x80x4	40x40x2	62	80x80x3	7	919
	1,80	1,59	13,88	3,00	440	99785	768	180x80x4	80x80x3	80x80x3	180x80x4	40x40x2	62	80x80x3	7	986
	2,00	1,79	14,06	3,18	440	99785	828	180x80x4	80x80x3	80x80x3	180x80x4	40x40x2	62	80x80x3	7	1046
10,5	1,40	1,19	14,53	3,15	440	99785	668	180x80x4	80x80x3	80x80x3	160x80x4	40x40x2	66	80x80x3	7	901
	1,50	1,29	14,53	3,15	440	99785	698	180x80x4	80x80x3	80x80x3	160x80x4	40x40x2	66	80x80x3	7	931
	1,60	1,39	14,53	3,15	440	99785	728	180x80x4	80x80x3	80x80x3	160x80x4	40x40x2	66	80x80x3	7	960
	1,80	1,59	14,53	3,25	440	99785	818	180x80x4	80x80x3	80x80x3	180x80x4	40x40x2	66	80x80x3	7	1032
	2,00	1,79	14,96	3,5	440	99785	863	180x80x4	80x80x3	80x80x3	180x80x4	40x40x2	66	80x80x3	7	1097

Recommendations are for information only for a frequency of 20 cycles per day with this dimensions B. For frequency over 20 cycles contact us.



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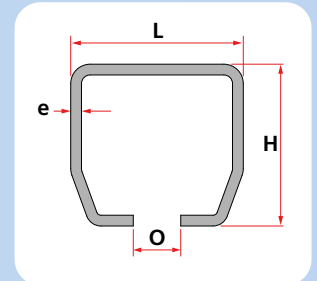
STEEL TRACK

HEL STEEL TRACKS (HIGH ELASTIC LIMIT)

Item Nr.	Material	Length	Weight	L	H	O	e
9050/600*	Galvanized steel*	6 m	35,5 Kg	65	60	18	3,5
9050N/600*	Plain Steel						
9060/600*	Galvanized steel*	6 m	51,5 Kg	80	75	22	4,5
9060N/600*	Plain Steel						
9060/900*	Galvanized steel*	9 m	77 Kg	90	110	25	6
9060N/900*	Plain Steel						
9070/600*	Galvanized steel*	6 m	90 Kg	90	110	25	6
9070N/600*	Plain Steel						
9070/900*	Galvanized steel*	9 m	135 Kg	90	110	25	6
9070N/900*	Plain Steel						

* Special lengths upon requests.

** Our tracks uses the ZMg200 corrosion protection process.



ALL CARRIAGES ARE EQUIPPED WITH WATERPROOF BEARINGS

PAF series Carriages

HIGH PERFORMANCE SINGLE CARRIAGE

9952PAF	Carriage equipped with reinforced ball bearings. For track: 9050.
9962PAF	Carriage equipped with reinforced ball bearings. For track: 9060.
9972PAF	Carriage equipped with reinforced ball bearings. For track: 9070.

HIGH PERFORMANCE DOUBLE CARRIAGE

9958PAF	Carriage equipped with reinforced ball bearings. For track: 9050.
9968PAF	Carriage equipped with reinforced ball bearings. For track: 9060.
9978PAF	Carriage equipped with reinforced ball bearings. For track: 9070.



9952PAF / 9962PAF
9972PAF

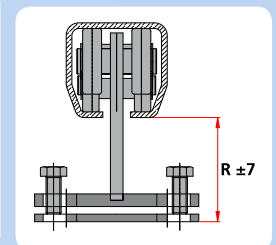
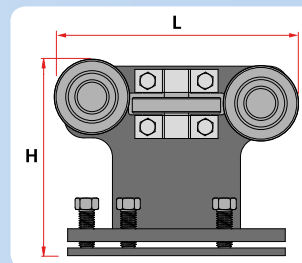


9958PAF / 9968PAF
9978PAF

DIMENSIONAL CHARACTERISTICS

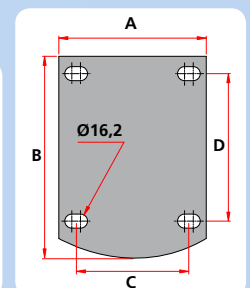
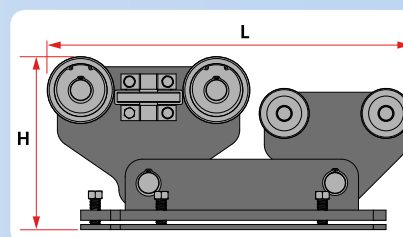
HIGH PERFORMANCE SINGLE CARRIAGE

Item Nr.	L	H	I	R	A	B	C	D
9952PAF	151	98	100	42	100	135	60	92
9962PAF	191	153	130	81	130	185	90	135
9972PAF	230	205	170	99	170	230	130	170



HIGH PERFORMANCE DOUBLE CARRIAGE

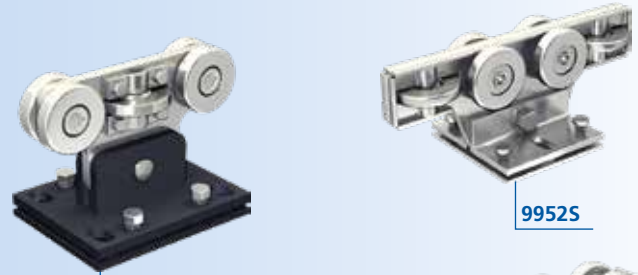
Item Nr.	L	H	I	R	A	B	C	D
9958PAF	297	117	130	61	130	235	90	100
9968PAF	379	153	150	81	150	310	110	165
9978PAF	429	206	200	99	200	360	160	260



S series CARRIAGES

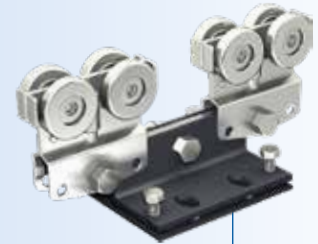
SINGLE CARRIAGES WITH CENTRAL WHEEL OF ALIGNEMENT

9952S	Carriage with steel wheels mounted on high-precision ball bearings. For track: 9050.
9962S	Carriage with steel wheels mounted on high-precision ball bearings. For track: 9060.
9972S	Carriage with steel wheels mounted on high-precision ball bearings. For track: 9070.



9952S

9962S
9972S



9958S

DOUBLE CARRIAGES WITH CENTRAL WHEEL OF ALIGNEMENT

9958S	Carriage with steel wheels mounted on high-precision ball bearings. For track: 9050.
9968S	Carriage with steel wheels mounted on high-precision ball bearings. For track: 9060.
9978S	Carriage with steel wheels mounted on high-precision ball bearings. For track: 9070.



9968S
9978S

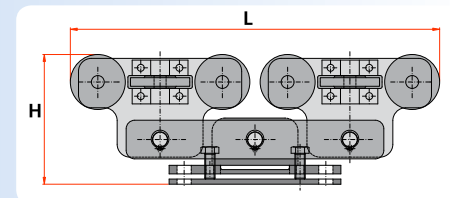
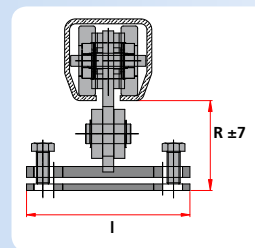
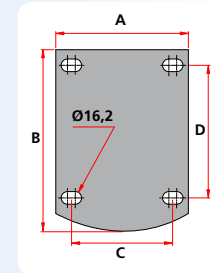
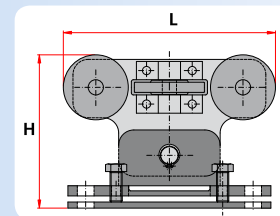
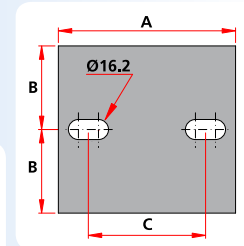
DIMENSIONAL CHARACTERISTICS

SINGLE CARRIAGES WITH CENTRAL WHEEL OF ALIGNEMENT

Item Nr.	L	H	I	R	A	B	C	D
9952S	241	90	106	45	106	50	70	-
9962S	209	141	130	83	130	170	90	135
9972S	275	196	170	103	170	210	130	170

DOUBLE CARRIAGES WITH CENTRAL WHEEL OF ALIGNEMENT

Item Nr.	L	H	I	R	A	B	C	D
9958S	300	140	150	83	150	150	110	60
9968S	430	145	150	83	150	200	110	165
9978S	560	196	200	103	200	300	160	260



ACCESSORIES

Item Nr.	Designation
1050E	Bottom end guide for track 9050 - L = 120 mm.
1060E	Bottom end guide for track 9060 - L = 120 mm.
1070E	Bottom end guide for track 9070 - L = 120 mm.
1051G	End wheel for track 9050 - L = 149 mm.
1061G	End wheel for track 9060 - L = 151.5 mm.
1071G	End wheel for track 9070 - L = 150.5 mm.



1051G/1061G/1071G



1050E /1060E/1070E

ideal for residential environments (moderate usage)

24V MOTORIZATION KIT FOR SLIDING GATE (with receiver + 1 four-channel remote control + orange light)

Item Nr.	Designation
C0003350	C300 motor, maximum force 650 N for sliding gates weighing up to 300 kg and 6 m wide. (without rack)
C0003360	C500 motor, maximum force 1000 N for sliding gates weighing up to 500 kg and 8 m wide. (without rack)
C0003370	C800 motor, maximum force 1200 N for sliding gates weighing up to 800 kg and 10 m wide. (without rack)
C0003380	M4K nylon rack with steel core. Length = 1 m.

C300 - C500 - C800



orange light



remote control

The C Line is characterized by its compact and robust box comprising a galvanized aluminium block and a plastic cover. Its reliable electronics guarantees you completely safe operation.

The **C300**, **C500** and **C800** PLCs are **EN 13241-1**-certified without the use of feeler strips.

Optimal levels of safety thanks to obstacle detection.

ideal for professional environments (intensive usage)

230 V MOTORIZATION KIT FOR SLIDING GATE (with receiver + 1 four-channel remote control + orange light)

Item Nr.	Designation
C0003400	CX1000 motor, maximum force 1000 N for sliding gates weighing up to 1000 kg (without rack).
C0003410	CX1500 motor, maximum force 1500 N for sliding gates weighing up to 1500 kg (without rack).
C0003420	CX2000 motor, maximum force 2000 N for sliding gates weighing up to 2000 kg (without rack).
C0003455	Rack for motorized gates Length = 1 m. Module 4 - 22mm x 22mm in galvanized steel.

CX1000 - CX1500 CX2000 - CX2000/400V



orange light



remote control

SAFETY EDGE

C0003850	8.2KOhm Safety edge. L = 1500 mm.
C0003860	8.2KOhm Safety edge. L = 2000 mm
C0003890	DUS1 Radio transmitter, 868 MHz, for 1 safety edge.
C0003900	DUS2 Radio transmitter, 868 MHz, for 2 safety edges.
C0003920	Safety edge cutting kit.

400 V MOTORIZATION KIT FOR SLIDING GATE (with receiver + 1 four-channel remote control + orange light)

Item Nr.	Designation
C0003450	CX2000/400 V SET motor, maximum force 2000 N, for sliding gates weighing up to 2000 kg (without rack).
C0003455	Rack for motorized gates. Length = 2 m. Module 6 - in galvanized steel.

ACCESSORIES CONTROL

Item Nr.	Designation
C0003700	BHS110 1-channel remote control.
C0003710	BHS130 3-channel remote control.
C0003720	BHS140 4-channel remote control.
C0003750	BHS221 Blue car2 remote control, 2-channel.
C0003760	EWLS AP4 photoelectric cell.

RACK and PINS

C0003380	M4K nylon rack with steel core. Length = 1 m.
C0003455	Rack for motorized gates. Length = 1 m. Module 4 - 22mm x 22 mm in galvanized steel.
3012CR	Rack for motorized gates. Length = 1 m. Module 4 - Drilled for a M8 screw - 30 mm x 12 mm in galvanized steel. 3 pins/rack.
1708PL	Pins in galvanized steel for rack fixing. Screw M8. Height = 27 mm.
1708PLC	Pins in galvanized steel for rack fixing. Screw M8. Height = 16 mm.

Soft starting and stopping (Soft-Start / Soft-Stop).



C0003890



C0003900



C0003700



C0003710



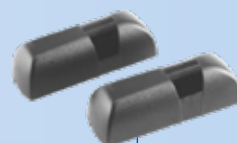
C0003850



C0003750



C0003720



C0003760



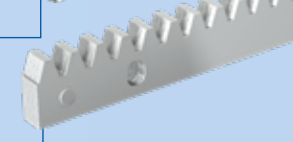
C0003380



1708PL
1708PLC



C0003455



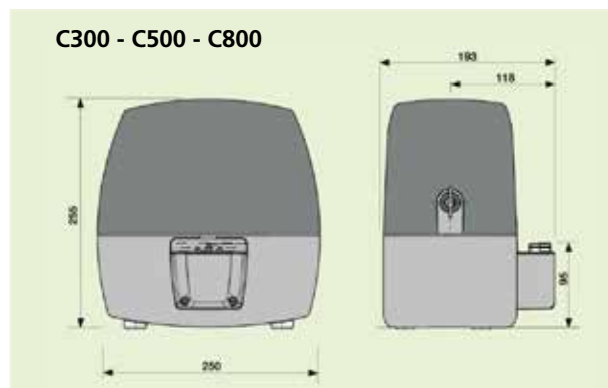
3012CR

C Line features:

- Compact, robust and carefully designed box.
- Controlled by microprocessor. Self-programming of obstacle detection and limit stop positions.
- Connection available for control accessories (push-button, fingerprint scanner, door code, etc.).
- Partial opening function.
- Protection connections available (feeler strips, photoelectric cells and emergency stop sensors).
- Optional relay for connecting a warning light.
- Force limiter in both directions.
- LED status indicator (on or error).
- Obstacle detection in both directions: the motor stops if it meets any resistance and frees the obstacle immediately.
- Radio system on frequency 868 MHz.
- Automatic closing function (this requires photoelectric cells to be installed).
- Maintenance-free motorization.
- Adjustable height for easy mounting.
- Built-in manual emergency release.

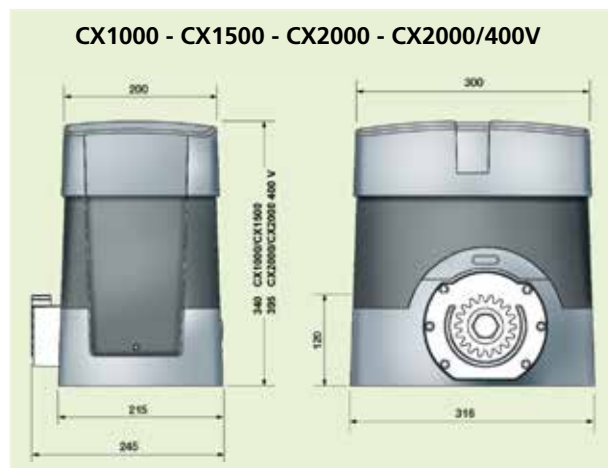
C Line 24V

Operator type	C300	C500	C800
Maximum gate weight	300 kg	500 kg	800 kg
Maximum gate length	6 m	8 m	10 m
Maximum gate area	9 m ²	12 m ²	15m ²
Maximum tractive force	650 N	1000 N	1200 N
Maximum travel speed	160 mm / Sec	160 mm / Sec	160 mm / Sec
Power supply	230 V / 50 Hz	230 V / 50 Hz	230 V / 50 Hz
Motor voltage	24 VDC	24 VDC	24 VDC
Temperature range	-20... +60 C°	-20... +60 C°	-20... +60 C°



C Line 230V

Operator type	CX1000	CX1500	CX2000
Maximum gate weight	1000 kg	1500 kg	2000 kg
Max. operating intensity	40 %	40 %	40 %
Maximum rotation torque	40 Nm	50 Nm	55 Nm
Travel speed	10,5 m / Min	10,5 m / Min	10,5 m / Min
Overload protection	Thermal sensor	Thermal sensor	Thermal sensor
Motor power rating	300 W	420 W	480 W
Power supply	230 V / 50 Hz	230 V / 50 Hz	230 V / 50 Hz



C Line 400V

Operator type	CX2000/400 V
Maximum gate weight	2000 kg
Maximum operating intensity	60 %
Maximum rotation torque	60 Nm
Travel speed	10,5 m / Min
Overload protection	Thermal sensor
Motor power rating	600 W
Power supply	400 V / 50 Hz

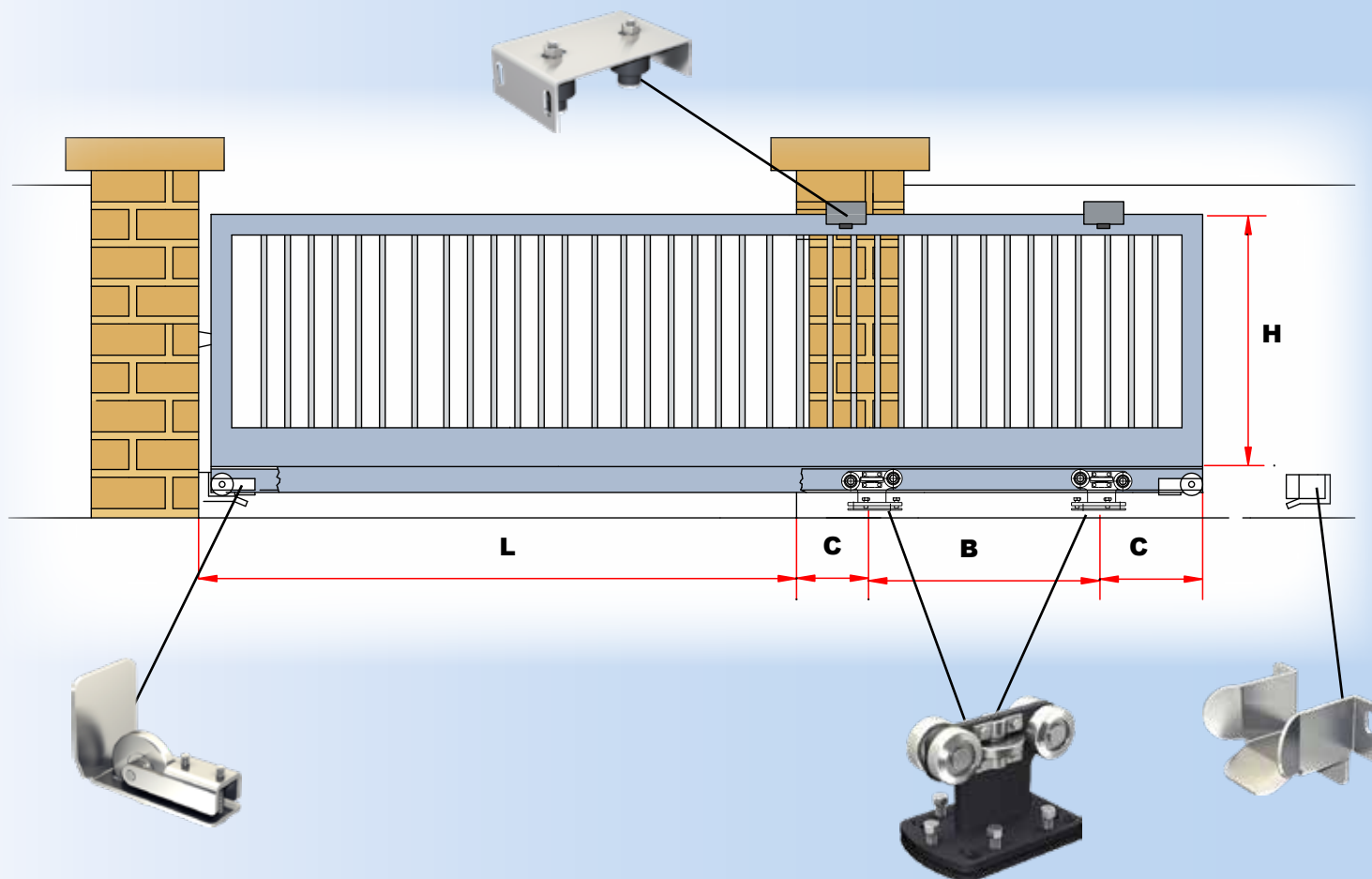
SPECIAL GEAR FOR STEEL CANTILEVER GATE UP TO: 4 M WIDTH AND 200 KG.

GEAR	
9050GPAF	Gear including:
	<ul style="list-style-type: none"> - 2 carriages 9952PAF - 2 end wheels 1051G - 2 bottom end guides 1050E - 2 upper guides 1062

TRACK	
9050/600	Galvanized steel for carriages 9952PAF. Length = 6 m.
9050N/600	Plain steel for carriages 9952PAF. Length = 6 m.

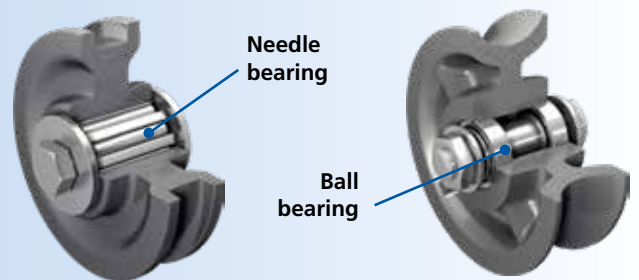
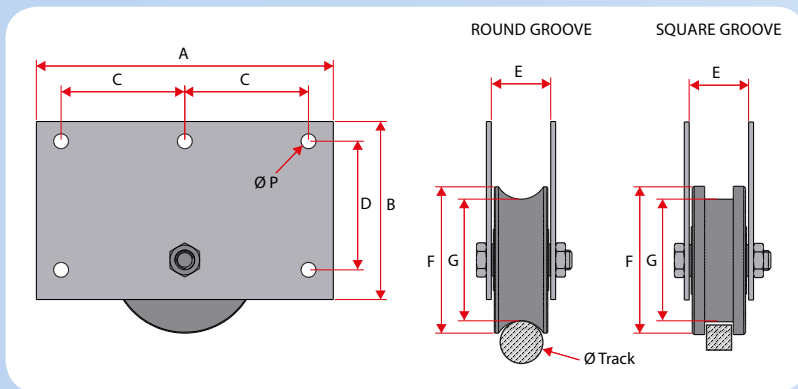


Steel cantilever gate structure:



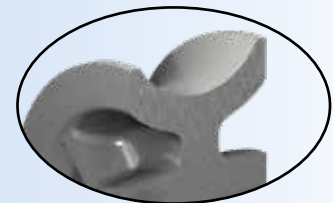


CAST IRON WHEELS for round or square tracks



CAST IRON WHEELS with ROUND GROOVE WHEEL

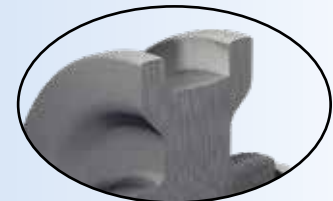
Item Nr.	Capacity /wheel	Needle bearing	Ball bearing	F	G	Ø track	Ø screw
1008GR	150 Kg	✓		102	83	20	M 12x60
1009GR	250 Kg		✓	150	123	30	M 20x100
1010GR	500 Kg		✓	180	152	35	M 20x100



Round groove wheel

CAST IRON WHEELS with SQUARE GROOVE WHEEL

Item Nr.	Capacity /wheel	Needle bearing	Ball bearing	F	G	□	Ø screw
1008GC	150 Kg	✓		102	86	14x14	M 12x60
1009GC	250 Kg		✓	150	124	25x25	M 20x100
1010GC	500 Kg		✓	180	154	30x30	M 20x100



Square groove wheel

ROUND GROOVE WHEEL (galvanised steel side plates and cast iron rollers)

Item Nr.	Equipped with the wheel	Capacity /wheel	A	B	C	D	E	Ø P
0980GR	1008GR	150 Kg	220	140	90	95	43	11
0990GR	1009GR	250 Kg	300	180	125	130	60	15
1000GR	1010GR	500 Kg	300	180	125	130	71	15

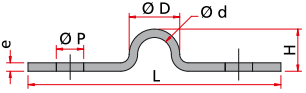
SQUARE GROOVE WHEEL (galvanised steel side plates and cast iron rollers)

Item Nr.	Equipped with the wheel	Capacity /wheel	A	B	C	D	E	Ø P
0980GC	1008GC	150 Kg	220	140	90	95	43	11
0990GC	1009GC	250 Kg	300	180	125	130	60	15
1000GC	1010GC	500 Kg	300	180	125	130	71	15



Wheel

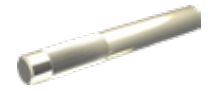
FOR EFFORTLESS FRICTION WE



SCREWING TYPE TRACKS FOR ROUND GROOVE WHEEL - Galvanized steel - Length 3 m

20012RV/3	D = 12 / d = 8 / e = 2 / H = 10 / P = 6,5 / L = 60
20015RV/3*	D = 15 / d = 11,5 / e = 1,8 / H = 14 / P = 6,5 / L = 56
20016RV/3	D = 15,5 / d = 10,5 / e = 2,5 / H = 16 / P = 6,5 / L = 60
20020RV/3	D = 19 / d = 12 / e = 3,5 / H = 15 / P = 8,5 / L = 80
20021RV/3	D = 19 / d = 13 / e = 3 / H = 16 / P = 6,5 / L = 60

* maximum gate weight = 400 Kg



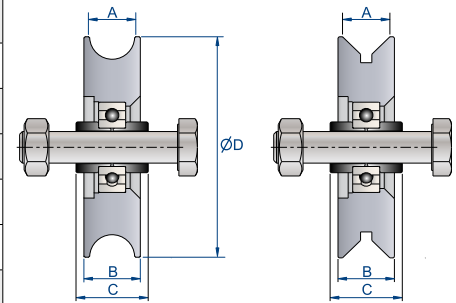
JOINTING BRACKET

20015M	for profile 20015RV/3
20016M	for profile 20016RV/3 and 20020RV/3
20020M	for profile 20021RV/3 & RS3

ALL OUR WHEELS



STEEL WHEELS								
Round groove wheels	"V" shape groove wheels	Capacity /wheel**	Capacity /bearing	Ø D	A	B	C	Screw dimension
-	20061V10	100 Kg	315 Kg	60	10	14	19	M10x45
20061R12	20061V12	100 Kg	315 Kg	60	12	16	19	M10x45
20061R16	-	100 Kg	315 Kg	60	16	20	32	M10x60
20081R12	20081V12	200 Kg	455 Kg	80	12	16	32	M14x70
20081R16	-	200 Kg	455 Kg	80	16	20	32	M14x70
20081R21	20081V20	200 Kg	455 Kg	80	21	25	32	M14x70
20101R12	20101V12	200 Kg	455 Kg	100	12	16	32	M14x70
20101R16	-	200 Kg	455 Kg	100	16	20	32	M14x70
20101R21	20101V20	200 Kg	455 Kg	100	21	25	32	M14x70
20100R21*	20100V20*	400 Kg	670 Kg	100	21	25	32	M14x70
20121R21	20121V20	225 Kg	455 Kg	120	21	25	32	M14x70
20120R21*	20120V20*	500 Kg	670 Kg	120	21	25	32	M14x70
20141R21	20141V20	250 Kg	455 Kg	140	21	25	32	M14x70
20140R21*	20140V20*	550 Kg	670 Kg	140	21	25	32	M14x70
20161R21	20161V20	300 Kg	455 Kg	160	21	25	32	M14x70
20160R21*	20160V20*	700 Kg	880 Kg	160	21	25	32	M16x70
20200R21*	20200V20*	750 Kg	880 Kg	200	21	25	32	M16x70

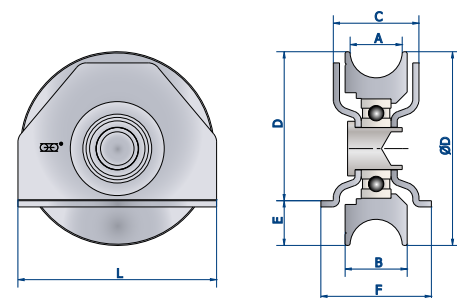


* Reinforced bearing

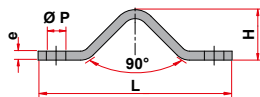
** The weight of the gate determines the choice of roller.



STEEL WHEELS - WELDING TYPE										
Round groove wheels	Capacity /wheel**	Capacity /bearing	Ø D	L	A	B	C	D	E	F
23081R16	200 Kg	455 Kg	80	80	16	20	34,5	60	18	44,5
23081R21	200 Kg	455 Kg	80	80	21	25	34,5	60	18	44,5
23101R16	200 Kg	455 Kg	100	100	16	20	34,5	76	22	44,5
23101R21	200 Kg	455 Kg	100	100	20	25	34,5	76	22	44,5
23100R21*	400 Kg	670 Kg	100	100	20	25	36,5	76	22	46,5
23121R21	225 Kg	455 Kg	120	120	20	25	34,5	96	22	44,5
23120R21*	500 Kg	670 Kg	120	120	20	25	36,5	96	22	46,5

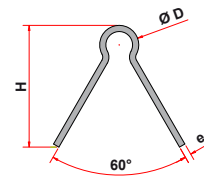


RECOMMENDED TO USE OUR TRACKS



SCREWING TYPE TRACK FOR TRIANGULAR GROOVE WHEEL
Galvanized steel - Length 3 m

20021VV/3 H = 17 / P = 6,5 / L = 65 / e = 3

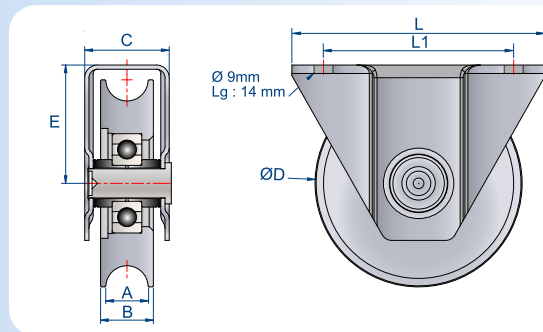


SEALING TYPE TRACK FOR ROUND GROOVE WHEEL
Galvanized steel - Length 3 m

20021RS/3 D = 19 / e = 3 / H = 60

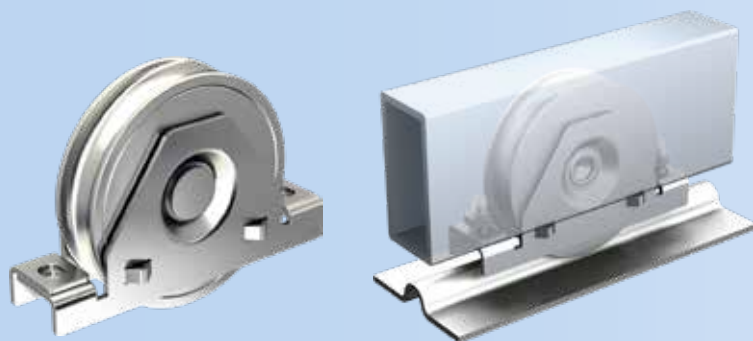
ARE WHITE ZINC PLATED

- * Reinforced bearing
- ** The weight of the gate determines the choice of roller.

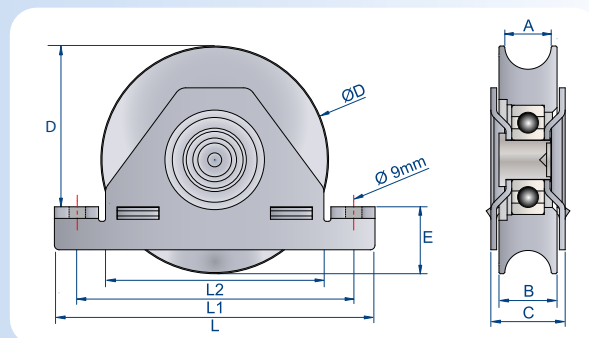


WHEELS WITH STEEL EXTERNAL PLATE

Round groove wheels	"V" shape groove wheels	Capacity / wheel**	Capacity / bearing	Ø D	L	L1	A	B	C	E
21081R16	-	200 Kg	455 Kg	80	120	90	16	20	40	46
21081R21	21081V20	200 Kg	455 Kg	80	120	90	21	25	40	46
21101R16	-	200 Kg	315 Kg	100	120	90	16	20	40	56
21101R21	21101V20	200 Kg	455 Kg	100	120	90	21	25	40	46
21100R21*	21100V20*	400 Kg	670 Kg	100	120	90	21	25	40	56



to be fitted in a 40 mm section tube



EASY and QUICK mounting, minimal space between the gate and the ground, welding or screwing type.

WHEELS WITH STEEL INTERNAL PLATE

Round groove wheels	"V" shape groove wheels	Capacity / wheel**	Capacity / bearing	Ø D	L	L1	L2	A	B	C	D	E
22081R16	-	200 Kg	455 Kg	80	138	119	98	16	20	32	52.5	25.5
22081R21	22081V20	200 Kg	455 Kg	80	138	119	98	21	25	32	52.5	25.5
22101R16	-	200 Kg	455 Kg	100	138	119	98	16	20	32	69	35.5
22101R21	22101V20	200 Kg	455 Kg	100	138	119	98	21	25	32	69	35.5
22100R21*	22100V20*	400 Kg	670 Kg	100	138	119	98	21	25	32	69	35.5
22121R21	22121V20	225 Kg	455 Kg	120	186	162	138	21	25	32	73.5	45.5
22120R21*	22120V20*	500 Kg	670 Kg	120	186	162	138	21	25	32	73.5	45.5
22141R21	22141V20	250 Kg	455 Kg	140	186	162	138	21	25	32	89.5	48.5
22140R21*	22140V20*	550 Kg	670 Kg	140	186	162	138	21	25	32	89.5	48.5

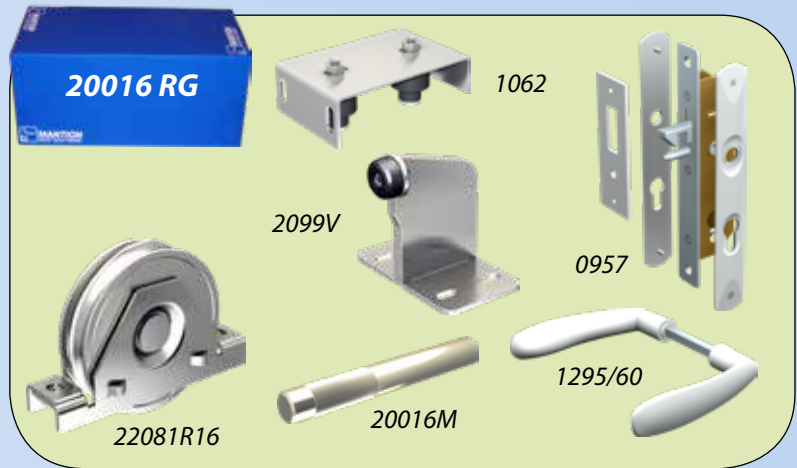
GEAR FOR SLIDING GATES WITH BALL BEARING WHEELS: 400 & 800 KG

GEAR for 400 KG manual gate

20016RG

Gear including:

- 2 steel wheels with internal plate 22081R16
- 2 jointing brackets for profile 20016M
- 2 upper-guides 1062
- 1 stopper screwing type 2099V
- 1 lock 0957 (Ø 7)
- 1 double handle 1295/60 (Ø 7)



GEAR for 400 Kg motorized* gate

20116RG

Gear including:

- 2 steel wheels with internal plate 22081R16
- 2 jointing brackets for profile 20016M
- 2 upper-guides 1062
- 1 stopper screwing type 2099V



*motorisation is not included

16 mm Ø track for gates up to 400 Kg

20016RV/3

Galvanised steel track - Screwing type
Length = 3 m - Width = 60 mm - Thickness = 2.5 mm

20 mm Ø track for gates up to 800 Kg

20021RV/3

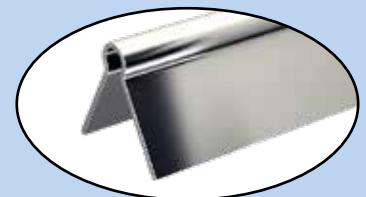
Galvanised steel track - Screwing type
Length = 3 m - Width = 60 mm - Thickness = 3 mm

20021RS/3

Galvanised steel track - Sealing type
Length = 3 m - Width = 60 mm - Thickness = 3 mm



20016RV/3 / 20021RV/3



20021RS/3

GEAR for 800 KG manual gate

20021RG

Gear including:

- 2 steel wheels with internal plate 22100R21
- 2 jointing brackets for profile 20020M
- 1 upper-guide 1065
- 1 stopper screwing type 2099V
- 1 lock 0957 (Ø 7)
- 1 double handle 1295/60 (Ø 7)



GEAR for 800 Kg motorized* gate

20121RG

Gear including:

- 2 steel wheels with internal plate 22100R21
- 2 jointing brackets for profile 20020M
- 1 upper-guide 1065
- 1 stopper screwing type 2099V



*motorisation is not included

STAINLESS STEEL TRACKS - Screwing and sealing type

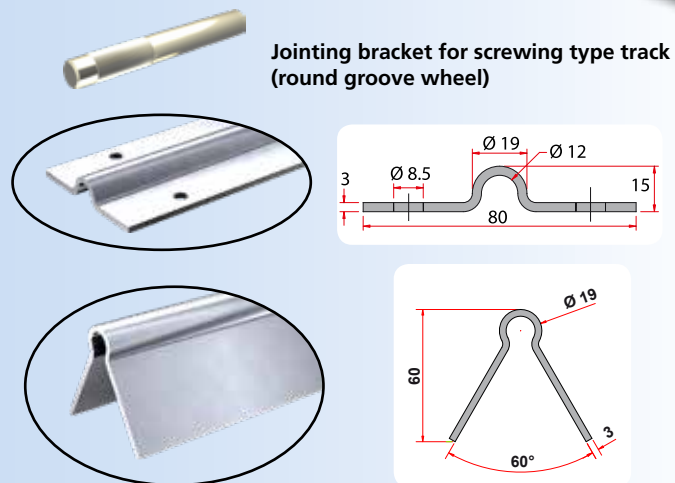
SCREWING TYPE TRACKS FOR ROUND GROOVE WHEEL

20020RVX/3 STAINLESS STEEL track \varnothing 19 - Length = 3 m.

20020M Jointing bracket.

SEALING TYPE TRACKS FOR ROUND GROOVE WHEEL

20021RSX/3 STAINLESS STEEL track \varnothing 19 - Length = 3 m.



STAINLESS STEEL WHEELS on round tracks



STAINLESS STEEL WHEELS

Round groove wheels	Capacity /wheel**	Capacity /bearing	\varnothing D	A	B	C	Screw dimension
20100R21X	400 kg	670 kg	100	21	25	32	M 14x70
20120R21X	500 kg	670 kg	120	21	25	32	M 14x70

WHEELS WITH STAINLESS STEEL INTERNAL PLATES

Round groove wheels	Capacity /wheel**	Capacity /bearing	\varnothing D	L	L1	L2	A	B	C	D	E
22100R21X	400 kg	670 kg	100	138	119	98	21	25	32	69	35.5
22120R21X	500 kg	670 kg	120	186	162	138	21	25	32	79.5	38.5

** The weight of the gate determines the choice of roller.

STAINLESS STEEL ACCESSORIES



lock **0954X**
see detail on page 24



lock **1290X**
see detail on page 24



guide **23040X**
see detail on page 26

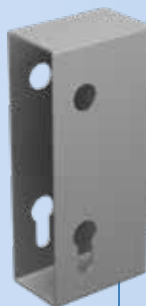
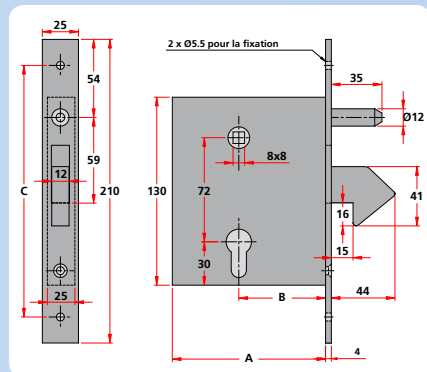
HOOK LOCKS

HOOK LOCKS with 8 mm square

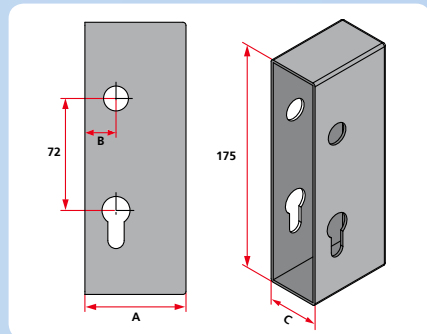
Item Nr.	Designation
0954	Hook lock in galvanised steel. Supplied with European Cylinder and 3 keys. A = 96; B = 60; C = 174
0954X	Hook lock in stainless steel. Supplied with European Cylinder and 3 keys. A = 96; B = 60; C = 174
0955	Monoblock lock, in galvanised steel. Supplied with a strike without cylinder. A = 96; B = 60; C = 174
0954C40	Box for lock 0954 and 0955. For a \varnothing 40 mm tube. A = 65; B = 20; C = 40
0954C50	Box for lock 0954 and 0955. For a \varnothing 50 mm tube. A = 65; B = 10; C = 50



0954
0955



0954C

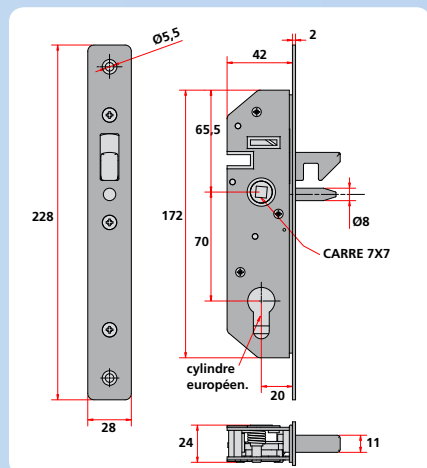


HOOK LOCKS with 7 mm square

Item Nr.	Designation
0957	Frame and mechanism in stainless steel, sliding bolt and end section in STAINLESS STEEL. Handle plates white prepainted aluminium. Keeper of lock in white prepainted brass. For European profile cylinder of 54 mm.



0957



LEVER HANDLES and PULLS

LEVER HANDLES FOR LOCKS with 8 mm square

Item Nr.	Designation
1295/50	Double handle in Zamak. For 25 to 40 mm tubes. Cone-point set screw - 8 mm square.
1295/70	Double handle in Zamak. For 30 to 70 mm tubes. Cone-point set screw - 8 mm square.



1295



1295/60

LEVER HANDLES FOR LOCKS with 7 mm square

1295/60	Handle in white painted aluminium. For 30 to 70 mm tubes. 7 mm square (For locks Nr 0957).
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1290



1297



1298

Screwing type HANDLES

1290	Dished flush pull in galvanized steel handle. Height = 200 mm - width = 90 mm.
1290X	Dished flush pull in stainless steel handle. Height = 200 mm - width = 90 mm.
1297	Handle on a 265 mm plate in galvanized steel.
1298	Pressed handle with fastening hooks in galvanized steel. Length = 245 mm.

MOTORIZATION for BOTTOM SLIDING GATES

ideal for residential environments (moderate usage)

24V MOTORIZATION KIT FOR SLIDING GATE (with receiver + 1 four-channel remote control + orange light)

Item Nr.	Designation
C0003350	C300 motor, maximum force 650 N for sliding gates weighing up to 300 kg and 6 m wide. (without rack)
C0003360	C500 motor, maximum force 1000 N for sliding gates weighing up to 500 kg and 8 m wide. (without rack)
C0003370	C800 motor, maximum force 1200 N for sliding gates weighing up to 800 kg and 10 m wide. (without rack)
C0003380	M4K nylon rack with steel core. Length = 1 m.

C300 - C500 - C800



orange light



remote control

The C Line is characterized by its compact and robust box comprising a galvanized aluminium block and a plastic cover. Its reliable electronics guarantees you completely safe operation.

The **C300**, **C500** and **C800** PLCs are **EN 13241-1**-certified without the use of feeler strips.

Optimal levels of safety thanks to obstacle detection.

ideal for professional environments (intensive usage)

230V MOTORIZATION KIT FOR SLIDING GATE (with receiver + 1 four-channel remote control + orange light)

Item Nr.	Designation
C0003400	CX1000 motor, maximum force 1000 N for sliding gates weighing up to 1000 kg (without rack).
C0003410	CX1500 motor, maximum force 1500 N for sliding gates weighing up to 1500 kg (without rack).
C0003420	CX2000 motor, maximum force 2000 N for sliding gates weighing up to 2000 kg (without rack).
C0003455	Rack for motorized gates Length = 1 m. Module 4 - 22mm x 22mm in galvanized steel.

CX1000 - CX1500 CX2000 - CX2000/400V



orange light



remote control

SAFETY EDGE

C0003850	8.2KOhm Safety edge. L = 1500 mm.
C0003860	8.2KOhm Safety edge. L = 2000 mm
C0003890	DUS1 Radio transmitter, 868 MHz, for 1 safety edge.
C0003900	DUS2 Radio transmitter, 868 MHz, for 2 safety edges.
C0003920	Safety edge cutting kit.

400V MOTORIZATION KIT FOR SLIDING GATE (with receiver + 1 four-channel remote control + orange light)

Item Nr.	Designation
C0003450	CX2000/400 V SET motor, maximum force 2000 N, for sliding gates weighing up to 2000 kg (without rack).
C0003455	Rack for motorized gates. Length = 2 m. Module 6 - in galvanized steel.

ACCESSORIES CONTROL

Item Nr.	Designation
C0003700	BHS110 1-channel remote control.
C0003710	BHS130 3-channel remote control.
C0003720	BHS140 4-channel remote control.
C0003750	BHS221 Blue car2 remote control, 2-channel.
C0003760	EWLS AP4 photoelectric cell.

RACK and PINS

C0003380	M4K nylon rack with steel core. Length = 1 m.
C0003455	Rack for motorized gates. Length = 1 m. Module 4 - 22mm x 22 mm in galvanized steel.
3012CR	Rack for motorized gates. Length = 1 m. Module 4 - Drilled for a M8 screw - 30 mm x 12 mm in galvanized steel. 3 pins/rack.
1708PL	Pins in galvanized steel for rack fixing. Screw M8. Height = 27 mm.
1708PLC	Pins in galvanized steel for rack fixing. Screw M8. Height = 16 mm.

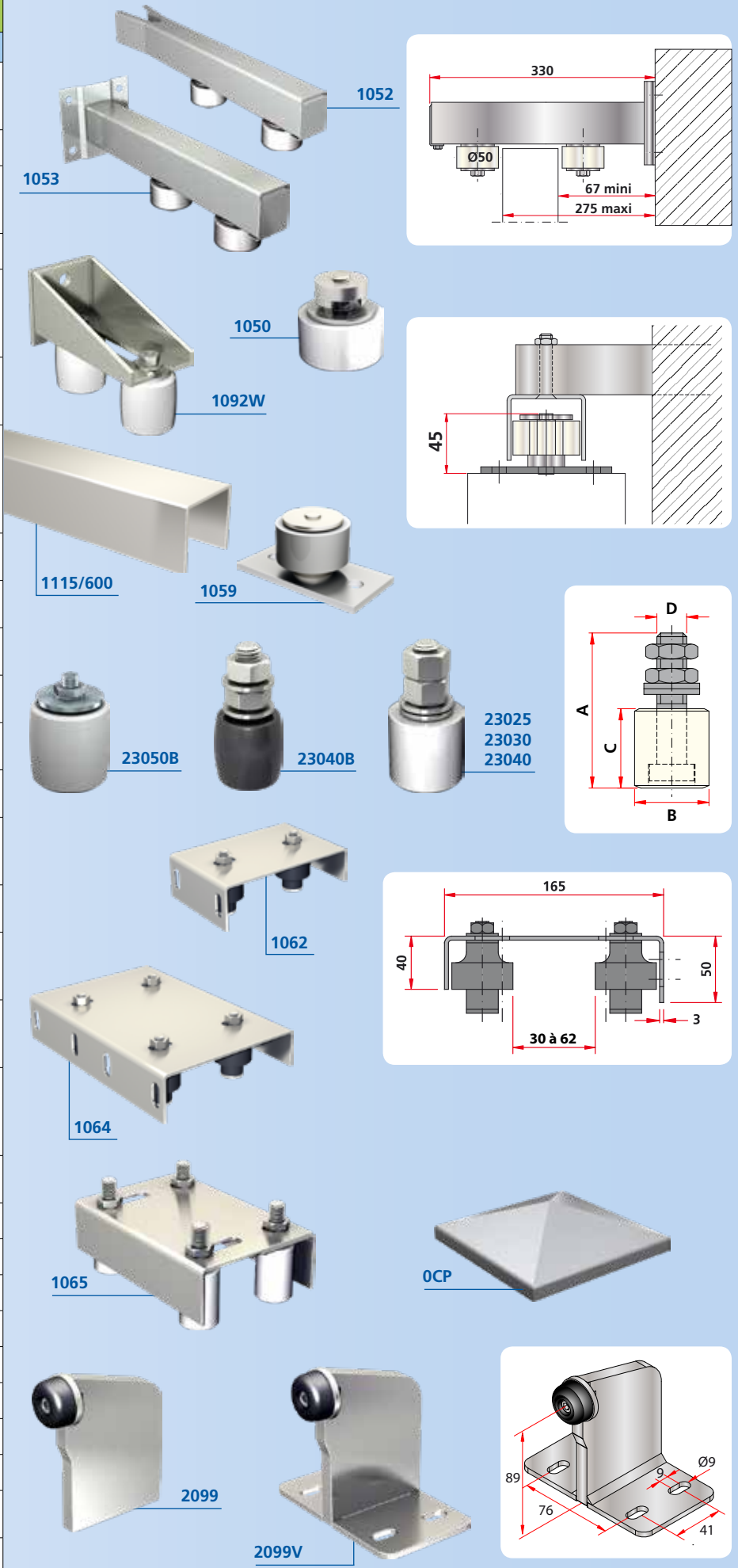
Soft starting and stopping (Soft-Start / Soft-Stop).



GUIDES - SQUARE STEEL PILLARS COVERS AND STOPPERS

GUIDES

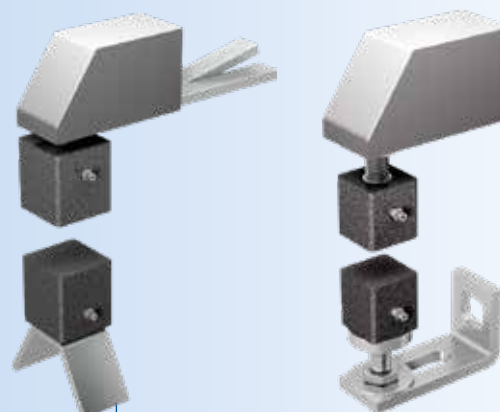
Item Nr.	Designation
1052	Adjustable upper guide, sealing type. For bottom sliding gate. Equipped with guide 1050.
1052L	Ditto equipped with the guide 23040L.
1053	Adjustable upper guide, screwing type. For bottom sliding gate. Equipped with the guide 1050.
1053L	Ditto equipped with the guide 23040L.
1050	Guide without plate mounted on needle bearing with a nylon olive. Installed on the guides 1052 and 1053. Ø 50 - Height = 25 mm
1092W	Adjustable upper guide, screwing type. For tubes up to 50 mm. Equipped with the guide 23050B.
1059	Lower guide mounted on needle bearing with a nylon olive and fixed on a screwing plate. For U 50 x 60. Ø 50 - Height = 25 mm.
1115/600	U-profile 50 x 60 in galvanized steel. Length = 6 meters.
23025	Guide with a nylon olive. A = 65 - B = 25 - C = 35 - D = 14
23030	Guide with a nylon olive. A = 80 - B = 30 - C = 40 - D = 14
23040B	Guide with a convex nylon olive. A = 84 - B = 40 - C = 40 - D = 14
23040	Guide with a nylon olive. A = 84 - B = 40 - C = 40 - D = 14
23040L	Long guide with a nylon olive. A = 102 - B = 40 - C = 60 - D = 16
23040X	Guide with a stainless steel shaft and a nylon olive. A = 84 - B = 40 - C = 40 - D = 14
23050B	Guide with a convex nylon olive. A = 71 - B = 49 - C = 50 - D = 10
1062	Upper guide with two adjustable nylon olives, Ø 40 for 40 to 70 mm tube. Length = 105 mm.
1064	Upper guide with four adjustable nylon olives, Ø 40 for 40 to 70 mm tube. Length = 245 mm.
1065	Adjustable upper guide with four adjustable nylon olives, Ø 40 for 40 to 60 mm tube. Length = 220 mm.
OCP20	Square steel pillar cover to be welded, 20 x 20 mm.
OCP30	Ditto 30 x 30 mm.
OCP40	Ditto 40 x 40 mm.
OCP50	Ditto 50 x 50 mm.
OCP60	Ditto 60 x 60 mm.
OCP80	Ditto 80 x 80 mm.
OCP100	Ditto 100 x 100 mm.
OCP120	Ditto 120 x 120 mm.
OCP150	Ditto 150 x 150 mm.
2099	Galvanized stopper, welding type. For bottom sliding gates.
2099V	Ditto screwing type.





PIVOTS WITH BRACKETS for panels up to 80 KG

25040 S	Pivot for panel in \varnothing 40 tube, sealing type.	Pivot \varnothing 35 mm
25040 V	Pivot for panel in \varnothing 40 tube, screwing type.	
25050 S	Pivot for panel in \varnothing 50 tube, sealing type.	Pivot \varnothing 45 mm
25050 V	Pivot for panel in \varnothing 50 tube, screwing type.	



25040 S
25050 S

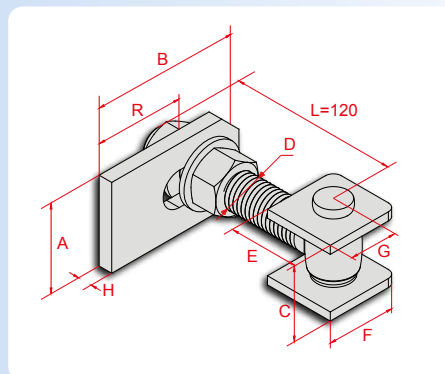
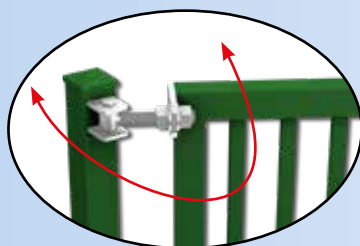
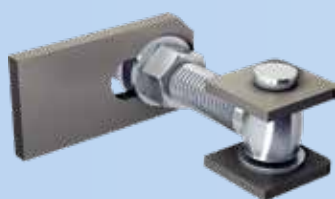
25040 V
25050 V

ALL PIVOTS ARE EQUIPPED WITH A GREASER

HINGES - WELDING TYPE opening 180°

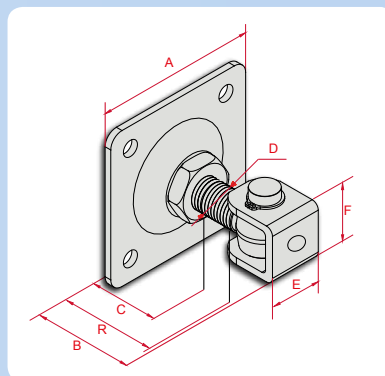
Item Nr.	A	B	R	C	D	E	F	G	H	Panel weight (kg)
25164SO	50	100	65 to 83	42	M16	40	42	22	8	80
25184SO	50	100	60 to 80	42	M18	40	42	22	8	100
25204SO	50	100	60 to 80	42	M20	40	42	22	8	100

opening 180° !



HINGES ON PLATE - SCREWING TYPE

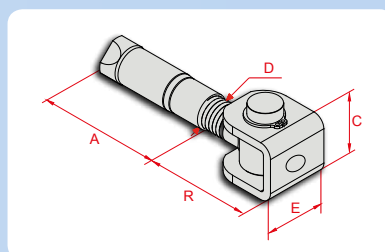
Item Nr.	A	B	R	C	D	E	F	Panel weight (kg)
25165	80	76	25 à 34	25	M16	42	35	100
25185	100	80	25 à 38	25	M18	42	35	150
25205	100	84	25 à 42	25	M20	42	35	150



ADJUSTABLE HINGES FOR PANELS UP TO 300 KG

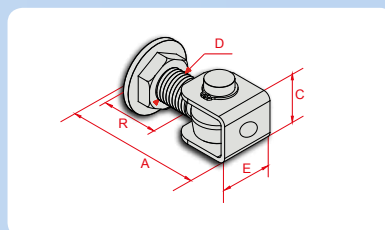
HINGES - SEALING TYPE with screwing type cap

Item Nr.	A	R	C	D	E	Panel weight (kg)
25162	60	42 à 60	25	M16	38	80
25182	64	42 à 62	25	M18	38	100
25202	75	40 à 62	25	M20	38	100



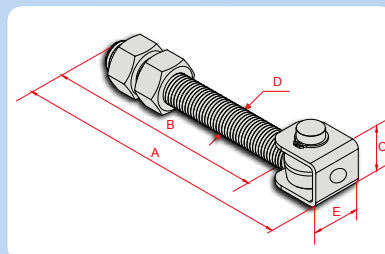
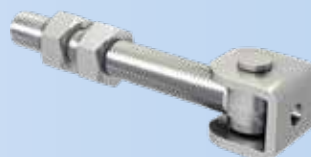
HINGES - WELDING TYPE with screwing type cap

Item Nr.	A	R	C	D	E	Panel weight (kg)
25163	76	10 à 30	25	M16	34	100
25183	80	12 à 34	25	M18	34	150
25203	84	14 à 38	25	M20	34	150



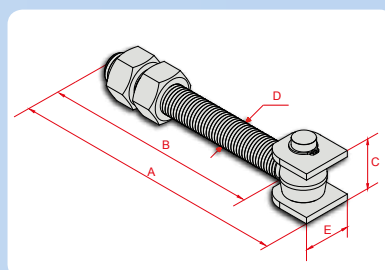
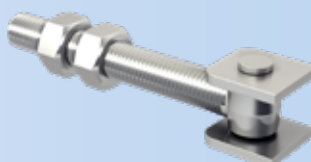
HINGES - SCREWING TYPE with screwing type cap

Item Nr.	A	B	C	D	E	Panel weight (kg)
25163L	172	125	25	M16	38	100
25183L	182	135	25	M18	38	150
25203L	192	143	25	M20	38	200



HINGES - SCREWING TYPE with welding type cap

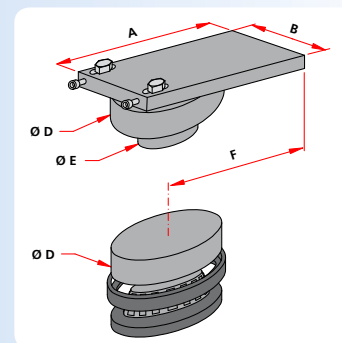
Item Nr.	A	B	C	D	E	Panel weight (kg)
25163SOL	170	125	25	M16	38	100
25183SOL	180	135	25	M18	38	150
25203SOL	190	143	25	M20	38	200



PIVOT WITH BALL BEARING FOR PANELS WEIGHING UP TO 750 KG

ADJUSTABLE PIVOTS - WELDING TYPE

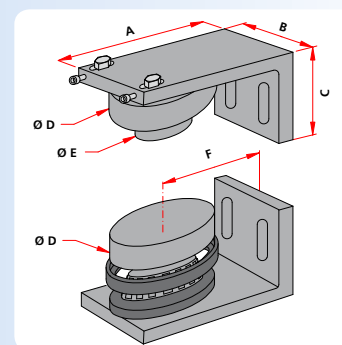
Item Nr.	Designation
25051X	Stainless steel pivot Ø 50, with welding fastener for heavy manual or motorized panels. Adjustable on the upper part. Including: - upper part - lower part
25051	Galvanized steel pivot Ø 50, with welding fastener for heavy manual or motorized panels. Adjustable on the upper part. Including: - upper part - lower part
25051B	Lower part of pivot 25051.
25051H	Partie haute du pivot 25051.
25071	Galvanized steel pivot Ø 70, with welding fastener for heavy manual or motorized panels. Including: - upper part - lower part
25071B	Lower part of pivot 25071.
25071H	Upper part of pivot 25071.



Item Nr.	A	B	ØD	ØE	F
25051X	100	50	50	25	77±7
25051	100	50	50	25	77±7
25071	120	60	70	30	97±7

ADJUSTABLE PIVOTS - SCREWING TYPE

25052	Galvanized adjustable steel pivot Ø 50 with "L" screwing fastener, for heavy manual or motorized panels. Including: - upper part - lower part The screws enable an adjustment on both upper and lower part.
25052B	Lower part of pivot 25052.
25052H	Upper part of pivot 25052.
25072	Galvanized steel pivot Ø 70 with "L" fastener, for heavy manual or motorized panels. Including: - upper part - lower part The screws enable an adjustment on both upper and lower parts.
25072B	Lower part of pivot 25072.
25072H	Upper part of pivot 25072.



Item Nr.	A	B	C	ØD	ØE	F
25052	110	50	60	50	25	85±7
25072	130	60	60	70	30	108±7

PIVOTS 25051 and 25052

Max. panel weight (Kg) according to width "L" and height "H"									
H \ L	1.5 m	2 m	2.5 m	3 m	3.5 m	4 m	4.5 m	5 m	
1 m	350	350	300	250	214	187	166	150	
1.5 m	350	350	350	350	320	280	250	225	
2 m	350	350	350	350	350	350	333	300	
2.5 m	350	350	350	350	350	350	350	350	
3 m and +	350	350	350	350	350	350	350	350	

PIVOTS 25071 and 25072

Max. panel weight (Kg) according to width "L" and height "H"											
H \ L	1.5 m	2 m	2.5 m	3 m	3.5 m	4 m	4.5 m	5 m	5.5 m	6 m	
1 m	750	750	600	500	428	375	333	300	272	250	
1.5 m	750	750	750	750	643	562	500	450	409	375	
2 m	750	750	750	750	750	750	666	600	545	500	
2.5 m	750	750	750	750	750	750	750	750	681	625	
3 m et +	750	750	750	750	750	750	750	750	750	750	

ideal for residential environments (moderate usage)

24V SWINGING GATES MOTOR (cylinder) (with receiver + 1 four-channel remote control + orange light)

Item Nr.	Designation
C0003500	DA20 motor (single gate), maximum force 2000 N for swinging gates weighing up to 220 kg and 2.5 m wide (per leaf).
C0003510	DA20 motor (double gate), maximum force 2000 N for swinging gates weighing up to 220 kg and 2.5 m wide (per leaf).
C0003520	DA40 motor (single gate), maximum force 2500 N for swinging gates weighing up to 400 kg and 2.5 m wide (per leaf).
C0003530	DA40 motor (double gate), maximum force 2500 N for swinging gates weighing up to 400 kg and 2.5 m wide (per leaf).
C0003540	DA40-L motor (single gate), maximum force 2500 N for swinging gates weighing up to 400 kg and 4 m wide (per leaf).
C0003550	DA40-L motor (double gate), maximum force 2500 N for swinging gates weighing up to 400 kg and 4 m wide (per leaf).

DA20



DA40



ideal for professional environments (intensive usage)

230V SWINGING GATES MOTOR (articulated arm) (with receiver + 1 four-channel remote control + orange light)

C0003460	DX250SA-1 motor (single gate), maximum force 1500 N for swinging gates weighing up to 300 kg and 2.5 m wide (per leaf).
C0003470	DX250SA-2 motor (double gate), maximum force 1500 N for swinging gates weighing up to 300 kg and 2.5 m wide (per leaf).
C0003480	DX424SA motor (single gate), maximum force 2000 N for swinging gates weighing up to 400 kg and 4 m wide (per leaf).
C0003490	DX424SA motor (double gate), maximum force 2000 N for swinging gates weighing up to 400 kg and 4 m wide (per leaf).

DX250SA



DX424SA



DX524



230V SWINGING GATES MOTOR (cylinder) (with receiver + 1 four-channel remote control + orange light)

C0003635	DX524-1 motor (single gate), maximum force 2000 N for swinging gates weighing up to 400 kg and 5 m wide (per leaf).
C0003645	DX524-2 motor (double gate), maximum force 2000 N for swinging gates weighing up to 400 kg and 5 m wide (per leaf).



orange light



remote control

ACCESSORIES CONTROL - 868 MHz

Item Nr.	Designation
C0003700	BHS110 1-channel remote control.
C0003710	BHS130 3-channel remote control.
C0003720	BHS140 4-channel remote control.
C0003750	BHS221 Blue car2 remote control , 2-channel.
C0003760	EWLS AP4 photoelectric cell.
C0003770	Electric lock ES FA 24V provides the gate with extra protection. The gate cannot suddenly open. The lock ensures that gates are electronically locked. In this way, they can be held fast at the gatepost. 24 V power supply.
C0003740	The LED SLK-L warning light flashes when the gate opens and closes guaranteeing even more safety. Supply voltage: 24 V.



C0003700



C0003710



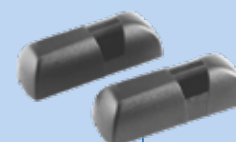
C0003720



C0003750

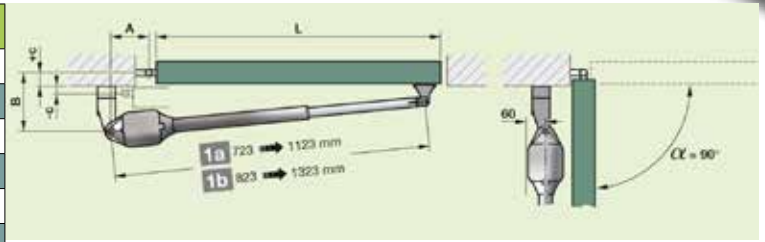


C0003770



C0003760

Operator type	DA20	DA40	DA40-L
Maximum panel weight	220 kg	400 kg	400 kg
Maximum width of panel	2.5 m	2.5 m	4 m
Maximum height of panel	2 m	2 m	2 m
Maximum tractive force	2000 N	2500 N	2500 N
Opening time	16 - 32 Sec.	16 - 32 Sec.	16 - 32 Sec.
Power supply	230 V / 50 Hz	230 V / 50 Hz	230 V / 50 Hz
Motor voltage	24 VDC	24 VDC	24 VDC
Temperature range	-20... +60 C°	-20... +60 C°	-20... +60 C°



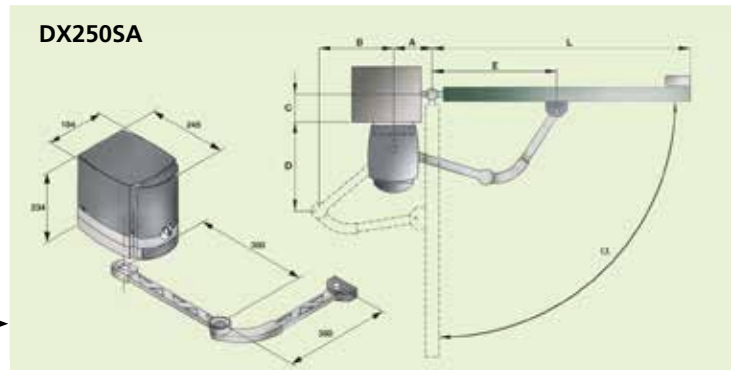
DA20 - DA40 1000 mm ≤ L ≤ 2500 mm - -30 mm ≤ c ≤ 150 mm

B(mm)	c(mm)	A									
		100	110	120	130	140	150	160	170	180	
100	-30	95°	100°	105°	110°	115°	118°	120°	122°	125°	
120	-10	95°	100°	105°	108°	112°	115°	117°	120°	122°	
140	10	95°	100°	103°	105°	108°	112°	115°	118°	120°	
160	30	95°	98°	100°	102°	105°	108°	112°	115°	110°	
180	50	93°	96°	98°	100°	103°	105°	108°	103°	98°	
200	70	93°	96°	98°	100°	103°	105°	100°	95°	92°	
220	90	93°	95°	97°	99°	102°	97°	93°	90°	-	
240	110	93°	95°	97°	99°	101°	90°	-	-	-	
260	130	92°	94°	90°	-	-	-	-	-	-	
280	150	90°	-	-	-	-	-	-	-	-	

DA40-L 1500 mm ≤ L ≤ 4000 mm - -30 mm ≤ c ≤ 210 mm

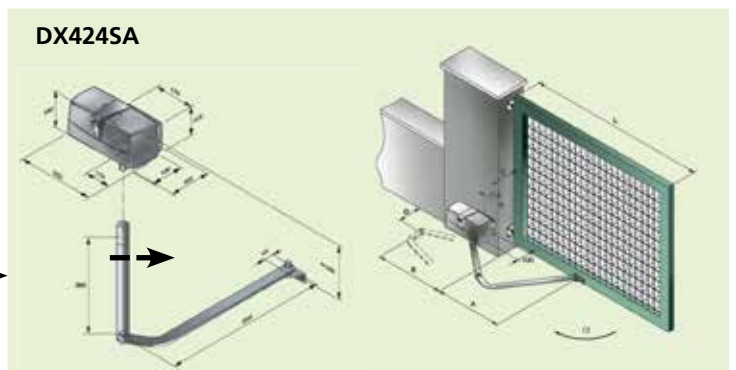
B(mm)	c(mm)	A									
		100	110	120	130	140	150	160	170	180	
100	-30	95°	100°	105°	110°	115°	118°	120°	122°	125°	
120	-10	95°	100°	105°	108°	112°	115°	117°	120°	122°	
140	10	95°	100°	103°	105°	108°	112°	115°	118°	120°	
160	30	95°	98°	100°	102°	105°	108°	112°	115°	117°	
180	50	93°	96°	98°	100°	103°	105°	108°	112°	114°	
200	70	93°	96°	98°	100°	103°	105°	107°	110°	112°	
220	90	93°	95°	97°	99°	102°	104°	107°	108°	110°	
240	110	93°	95°	97°	99°	101°	103°	106°	106°	108°	
260	130	92°	94°	97°	99°	100°	102°	105°	105°	105°	
280	150	90°	94°	95°	98°	100°	102°	103°	96°	94°	
300	170	90°	94°	95°	97°	99°	97°	93°	90°	-	
320	190	90°	93°	95°	93°	92°	-	-	-	-	
340	210	90°	93°	90°	-	-	-	-	-	-	

Operator type	DX250SA	DX424SA	DX524
Maximum panel weight	300 kg	400 kg	400 kg
Maximum width of panel	2.5 m	4 m	5 m
Maximum tractive force	-	-	2000 N
Opening time	16 Sec.	17 - 24 Sec.	20 - 40 Sec.
Power supply	230 V / 50 Hz	230 V / 50 Hz	230 V / 50 Hz
Motor voltage	24 VDC	24 VDC	24 VDC
Temperature range	-20... +60 C°	-20... +60 C°	-20... +60 C°

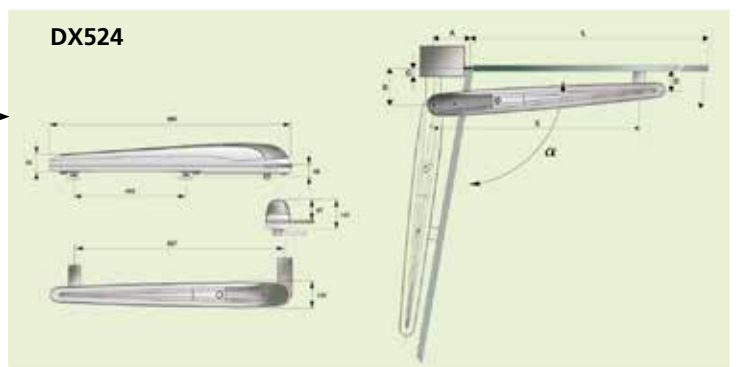


L(mm)	1000	1500	2000	2500
Kg max	300	250	215	200
A(mm)	140	140	140	140
B(mm)	253	261	264	260
C(mm)	0	50	100	150
D(mm)	382	373	370	375
E(mm)	470	470	470	470
α max	90°	90°	90°	90°

L(mm)	2000	2500	3000	3500	4000
Kg max	600	500	400	350	300
A(mm)	883	851	828	800	846
B(mm)	429	466	475	469	468
C(mm)	50	150	200	250	300
D(mm)	277	181	117	32	28
α max	90°	90°	90°	90°	90°



α max	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	t/90°	L(m)	Kg max
100°	150	150	90	82	845	25s	2	450
							2.5	400
							3	350
							3.5	300
110°	175	175	110	97.5	855	30s	2.5	400
							3	350
							3.5	350
							4	300
100°	200	200	130	118.5	850	34s	2.5	500
							3	450
							3.5	400
							4	400
							4.5	350
5	350							
90°	225	225	150	139	852	38s	2.5	500
							3	450
							3.5	450
							4	400
							4.5	400
5	400							



THERMOCONSTANT line

next generation system: no more inter-seasonal adjustments
very low variation in closing times because of changes in temperature

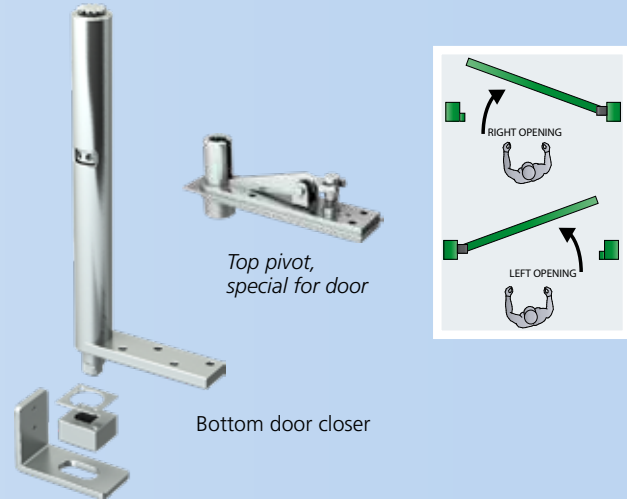
INVISIBLE DOOR-CLOSER

Capacity per door

CLOSING PIVOT KITS FOR DOORS

Item Nr.	Designation
25312DT 25312GT	85 kg Single action 180° pivot, integrable into tubular section from 40 mm, for doors up to 1000 x 2000 max. delivered with a top pivot (special for door). 16 N/m closing strength. 25312DT: right opening 25312GT: left opening
25314DT 25314GT	130 kg Single action 180° pivot, integrable into tubular section from 40 mm, for doors up to 1400 x 2100 max. delivered with a top pivot (special for door). 20 N/m closing strength. 25314DT: right opening 25314GT: left opening
25322DT 25322GT	200 kg Single action 180° pivot, integrable into tubular section from 50 mm, for doors up to 1800 x 2400 max. delivered with a top pivot (special for door). 49 N/m closing strength. 25322DT: right opening 25322GT: left opening

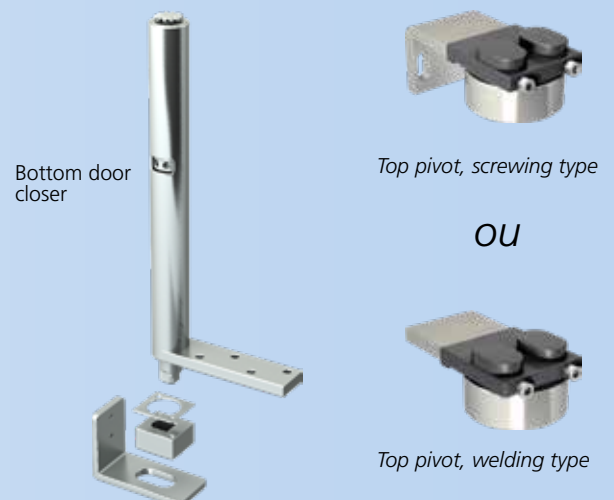
DOOR CLOSING PIVOT KITS for doors



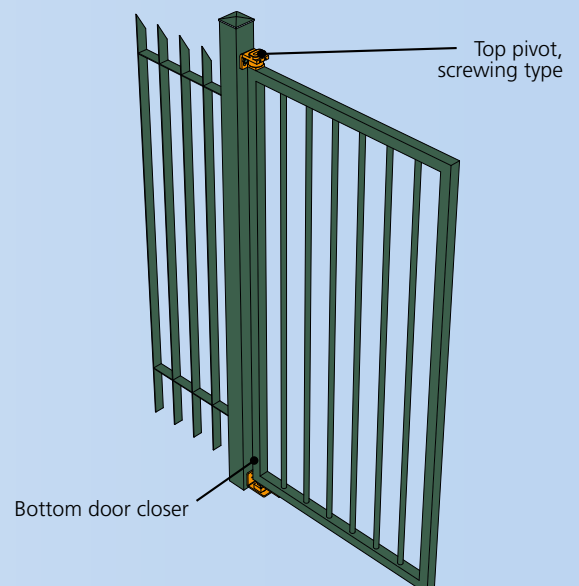
CLOSING PIVOT KITS FOR GATES

25312DT52 25312GT52	85 kg Set including: 25312DT invisible door closer reference and top pivot, screwing type . Integrable into tubular section from 40 mm, for doors up to 1000 x 2000 max. 25312DT52: right opening 25312GT52: left opening
25312DT51 25312GT51	85 kg Set including: 25312DT invisible door closer reference and top pivot, welding type . Integrable into tubular section from 40 mm, for doors up to 1000 x 2000 max. 25312DT51: right opening 25312GT51: left opening
25314DT52 25314GT52	130 kg Set including: 25314DT invisible door closer reference and top pivot, screwing type . Integrable into tubular section from 40 mm, for doors up to 1400 x 2100 max. 25314DT52: right opening 25314GT52: left opening
25314DT51 25314GT51	130 kg Set including: 25314DT invisible door closer reference and top pivot, welding type . Integrable into tubular section from 40 mm, for doors up to 1400 x 2100 max. 25314DT51: right opening 25314GT51: left opening

DOOR CLOSING PIVOT KITS for gates



© Norma clo gate



VARIATION IN CLOSING TIMES*

- 25312DT - 25312GT : 14 sec. (77 sec. for classic version)
- 25314DT - 25314GT : 16 sec. (116 sec. for classic version)
- 25322DT - 25322GT : 28 sec. (232 sec. for classic version)

Item Nr.		Color	Dimensions of the door			Gate weight	Closing strength	Maximum opening angle
			Width	Height	Thickness			
25312DT	Right opening	Khaki	1000 mm (Max)	2000 mm (Max)	40 mm (Min)	85 Kg (Max)	16 Nm	180° single action
25312GT	Left opening	Grey						
25314DT	Right opening	Khaki	1400 mm (Max)	2100 mm (Max)	40 mm (Min)	130 Kg (Max)	20 Nm	180° single action
25314GT	Left opening	Grey						
25322DT	Right opening	Khaki	1800 mm (Max)	2400 mm (Max)	50 mm (Min)	200 Kg (Max)	49 Nm	180° single action
25322GT	Left opening	Grey						

* example between -10°C and 35°C

KITS AVAILABLE FOR USE WITH DOORS OR GATES (SCREW- OR WELD-TYPE)

DOORS KITS:

- 25312DT / 25312GT : 85 Kg max.
- 25314DT / 25314GT : 130 Kg max.
- 25322DT / 25322GT : 200 Kg max.

door-only upper pivot delivered with the kit



KITS FOR GATES: screwing type:

- 25312DT52 / 25312GT52 : 85 Kg max.
- 25314DT52 / 25314GT52 : 130 Kg max.

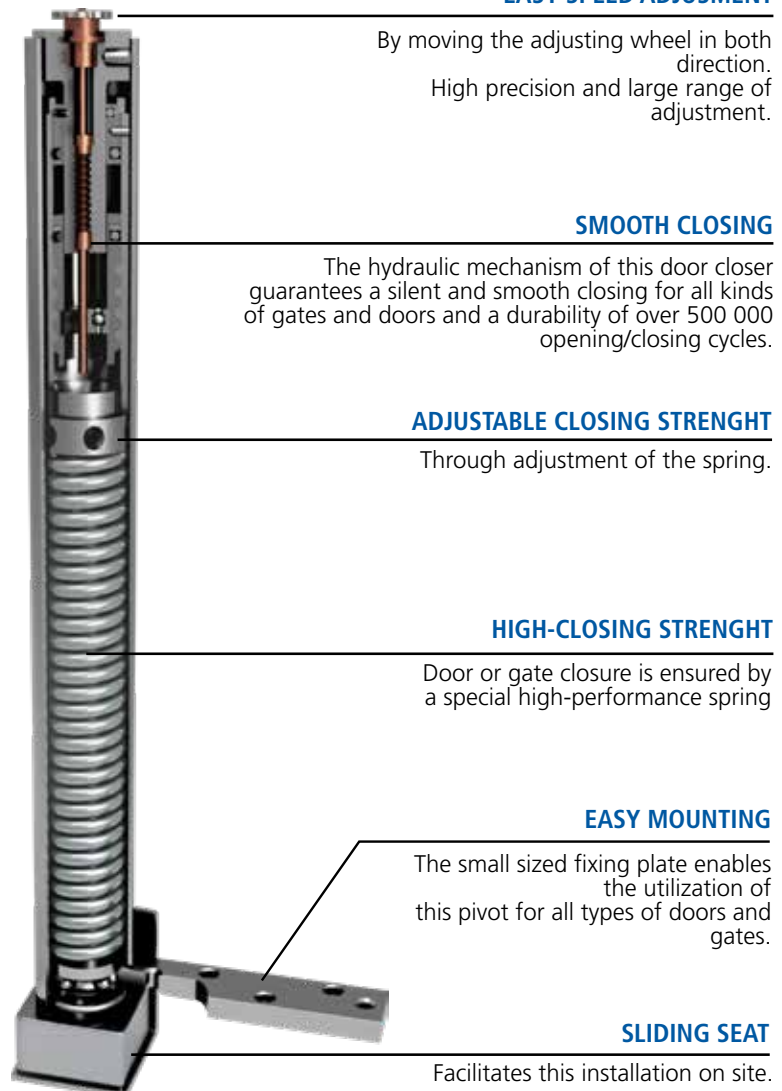
gate-only screw-type upper pivot delivered with the kit



KITS FOR GATES: welding type:

- 25312DT51 / 25312GT51 : 85 Kg max.
- 25314DT51 / 25314GT51 : 130 Kg max.

gate-only weld-type upper pivot delivered with the kit



EASY SPEED ADJUSTMENT

By moving the adjusting wheel in both direction.
High precision and large range of adjustment.

SMOOTH CLOSING

The hydraulic mechanism of this door closer guarantees a silent and smooth closing for all kinds of gates and doors and a durability of over 500 000 opening/closing cycles.

ADJUSTABLE CLOSING STRENGTH

Through adjustment of the spring.

HIGH-CLOSING STRENGTH

Door or gate closure is ensured by a special high-performance spring

EASY MOUNTING

The small sized fixing plate enables the utilization of this pivot for all types of doors and gates.

SLIDING SEAT

Facilitates this installation on site.

ACCESSORIES

Item Nr.	Designation
1297	Handle on a 265 mm plate in galvanized steel.
1298	Pressed handle with fastening hooks in galvanized steel. Length = 245 mm.
1314	Reinforced cane bolt. Screwing type. Length = 300 mm - Ø 14 mm.
1314E	Reinforced narrow cane bolt 23 mm. Screwing type. Removable pin (2 positions). Length = 300 mm - Ø 14 mm.
1314EF	Mounting kit for narrow reinforced cane bolt 23 mm (1314E and 1316E). Comprising 2 screw TF M8x30 and 2 inserts.
1314SO	Cane bolt to weld, welding type. Length = 300 mm - Ø 14 mm.
1316	Reinforced cane bolt, screwing type. Height = 500 mm - Ø 16 mm.
1316E	Reinforced narrow cane bolt 23 mm. Screwing type. Removable pin (2 positions). Length = 500 mm - Ø 16 mm.
1316SO	Cane bolt to weld, welding type. Length = 500 mm - Ø 16 mm.
1316B	Barrel bolt with cast iron chassis and steel cane and steel keeper. Weight = 660 gr. - Ø 16 mm.
1314GP	Keeper of bolt for 1314 and 1314SO.
1316GP	Keeper of bolt for 1316 and 1316SO.
1314GE	Keeper of bolt for 1314 and 1314SO. Inlet type.
1316GE	Keeper of bolt for 1316 et 1316SO. Inlet type.
1303S	Adjustable swing gate stop with cataphoresis protection, sealing type. Adjustment = 40-70 mm. Height = 50 mm; Width = 40 mm; Length = 145 mm.
1303V	Adjustable swing gate stop in galvanized steel, sealing type. Adjustment = 40-70 mm. Height = 120 mm; Width = 40 mm; Length = 145 mm.
2090S	Middle gate stop, sealing type. Height = 85 mm; Width = 60 mm; Length = 100 mm.
2090V	Middle gate stop, screwing type. Width = 60 mm; Length = 100 mm.
2097S	Middle gate stop, sealing type. Height = 115 mm; Width = 100 mm; Length = 160 mm.
2097V	Middle gate stop, screwing type. Height = 40 mm; Width = 100 mm; Length = 140 mm.

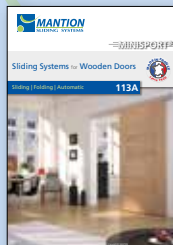


DO NOT HESITATE TO ASK FOR OUR BROCHURE ON:

Our range for INTERIOR DESIGN 113A

Sliding systems :

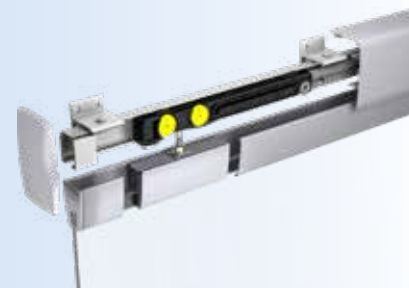
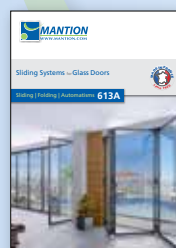
- FURNITURE doors
- WARDROBE doors
- FOLDING doors
- SEPARATING doors
- POCKET SLIDING doors



Our range for GLASS DOORS 613A

Sliding systems for :

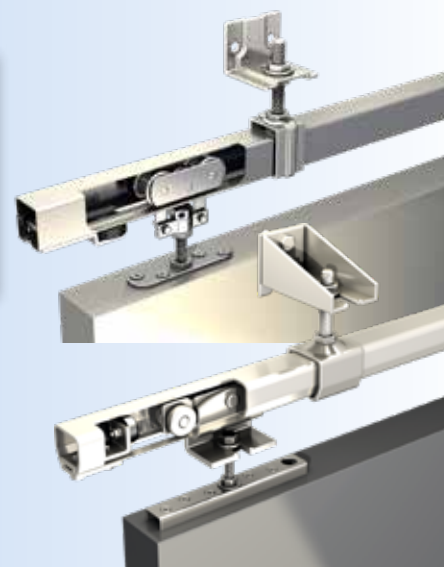
- GLASS doors
- FOLDING GLASS doors
- PICTURE WINDOWS



Our range for HEAVY DOOR 211A

Sliding systems for :

- fittings for straight **SLIDING** doors up to 2000 kg
- fittings for **ANGLE** sliding doors on tubular tracks
- fittings for **FOLDING** doors with equal leaves
- fittings for **FOLDING** doors with a half leaf
- fittings for **UP AND OVER** doors
- fittings for **SECTIONAL** doors



Our range for HEAVY DOOR 911A

Sliding systems for :

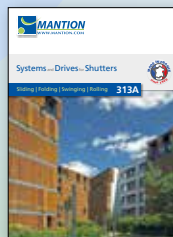
- fittings for straight **SLIDING** doors up to 3000 kg
- fittings for **ANGLE** sliding doors on tubular tracks
- fittings for **FOLDING** doors with equal leaves
- fittings for **FOLDING** doors with a half leaf



Our range for SHUTTERS 313A

Systems and motorizations for shutters :

- **SLIDING**
- **FOLDING**
- **SWINGING**
- **ROLLING**

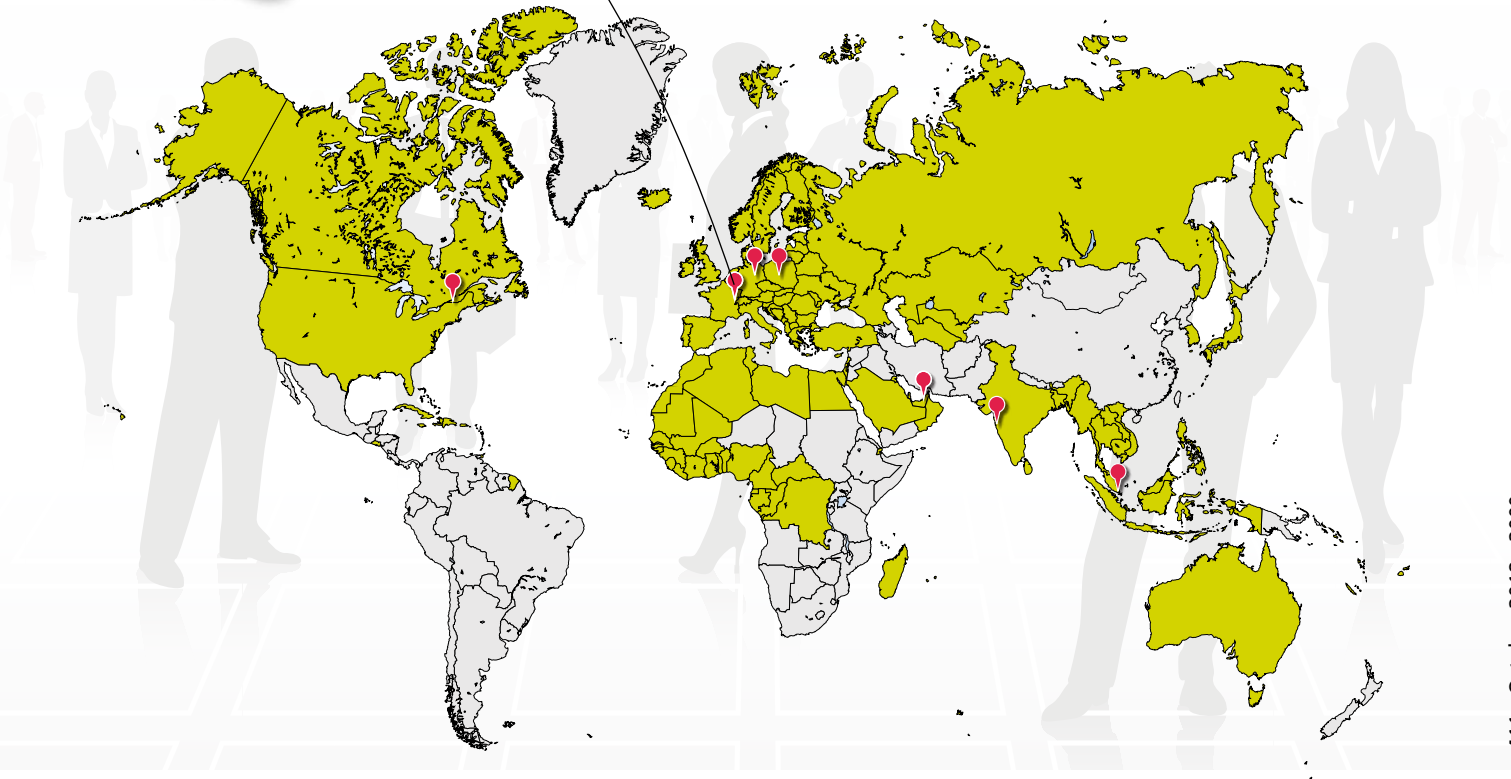


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MANTION S.A.S

7 rue Gay Lussac
 F-25000 Besançon
 Tel. + 33 3 81 50 56 77
 Fax. + 33 3 81 53 29 76
 E-mail: mantion@mantion.com
www.mantion.com



GERMANY / AUSTRIA MANTION BAUBESCHLÄGE GMBH

Dieselstraße 18
 D-42579 HEILIGENHAUS
 Tel. + 49 2056 58 26 90
 Fax. + 49 2056 58 26 99
 E-mail: info@mantion.de
www.mantion.de

MIDDLE EAST DUBAI BRANCH OFFICE

Jafza South, unit no. S101 23 O 032,
 Jebel Ali Free Zone, Dubai, UAE
 Tel. + 971 56 174 58 44
 E-mail: export@mantion.com
www.mantion.com

SOUTH-EAST ASIA MANTION SOUTH EAST ASIA

Pte. Ltd. of 4 Battery Road,
 #25-01 Bank of China Building,
 Singapore 049908
 Mobile. + 65 9147 8440
 E-mail: export@mantion.com
www.mantion.com

EAST EUROPE MANTION POLSKA

ul Boruty 2a
 PL-03 769 WARSZAWA
 Tel. + 48 22 818 77 22
 Fax. + 48 22 818 99 78
 E-mail: biuro@valcomp.com.pl
www.valcomp.com.pl

INDIA MUMBAI BRANCH OFFICE

G-19, Ground floor,
 T.V. Estate, 248/A, S.K. Ahire Marg.
 Worli, Mumbai. 400030. India.
 Mobile. + 91 9819 30 38 78
 E-mail: a.gala@mantion.com
www.mantion.com

NORTH AMERICA MANTION NA

6-360 boul. Séminaire N
 Saint Jean sur Richelieu
 Tel. + 1 (450) 529 1315
 E-mail: contact@mantion-na.com
www.mantion.ca