

“CHANNEL” PROFILE SYSTEM SERIES DSC

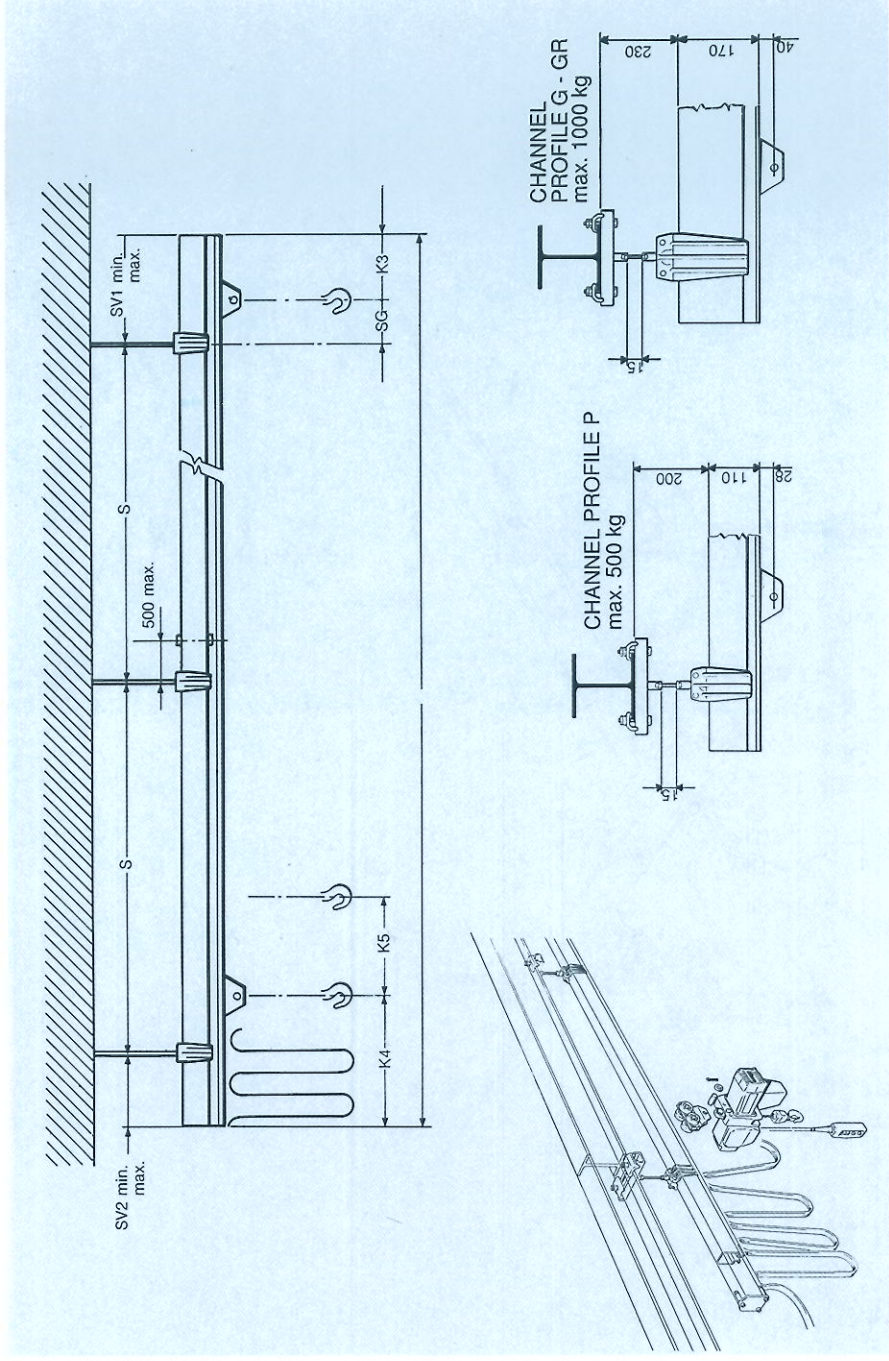


- TECHNICAL DATA
- COMPONENTS
- INSTALLATION
- MAINTENANCE



QUALITY SYSTEM CERTIFICATION NO. 011470 ACCORDING TO EN ISO 9001:1994

Channel profile system series DSC Monorail

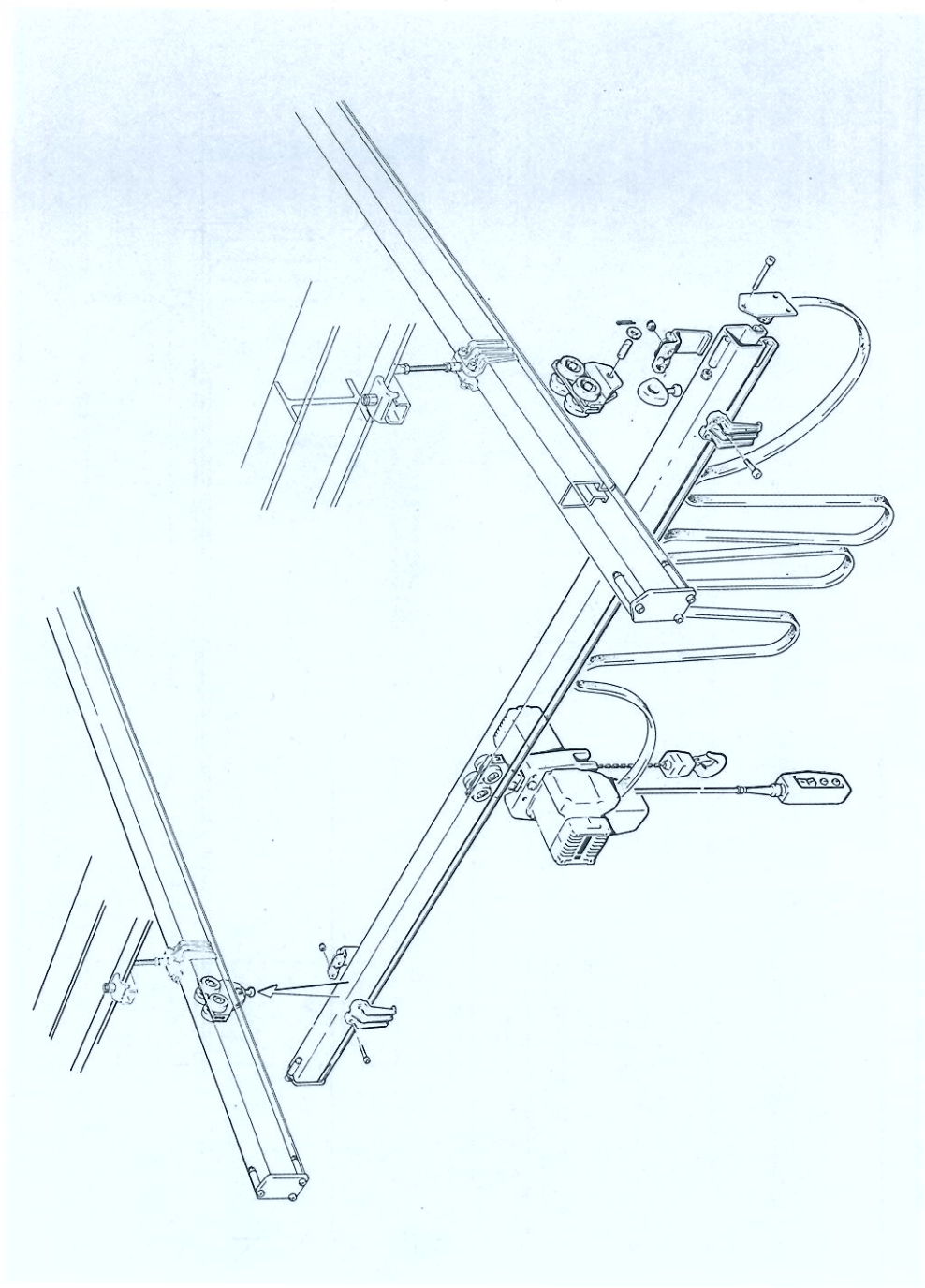


Monorail dimensions

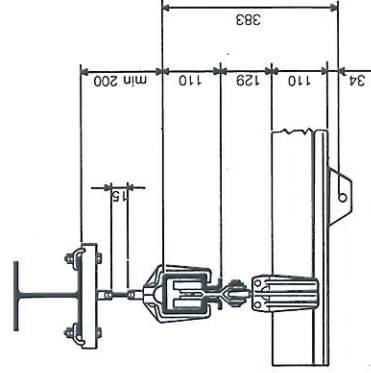
Capacity kg/daN	Interaxis S m	Runway profile Type	Hook overhang mm SG Max.	Runway profile overhang mm			Approach mm	
				SV1 Min.	SV1 Max.	SV2 Min.	SV2 Max.	Eventual 2nd hoist K5
125	3	CP	100	50	200	50	K4 + 100	100
		CG	200	100	320	100	K4 + 200	120
	4	CP	225	50	325	50	K4 + 225	100
		CG	350	100	470	100	K4 + 350	120
	5	CP	350	50	450	50	K4 + 350	100
		CG	550	100	670	100	K4 + 500	120
250	6	CG	800	100	920	100	K4 + 800	120
	7	CG	1000	100	1120	100	K4 + 1000	120
	3	CP	50	50	150	50	K4 + 50	100
		CG	150	100	270	100	K4 + 150	120
	4	CP	130	50	230	50	K4 + 130	100
		CG	250	100	370	100	K4 + 250	120
500	5	CG	350	100	470	100	K4 + 350	120
	6	CG	500	100	620	100	K4 + 500	120
	7	CG	650	100	770	100	K4 + 650	120
	3	CG	80	100	330	100	K4 + 80	250
	4	CG	150	100	400	100	K4 + 150	250
	5	CGR	200	100	450	100	K4 + 200	250
1000	6	CGR	300	100	550	100	K4 + 300	250
	7	CGR	400	100	650	100	K4 + 400	250
	3	CG	40	100	290	100	K4 + 40	250
	4	CGR	70	100	320	100	K4 + 70	250
	5	CGR	100	100	350	100	K4 + 100	250

Channel profile system series DSC

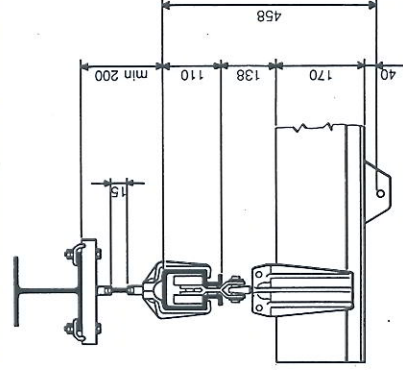
Single beam bridge crane



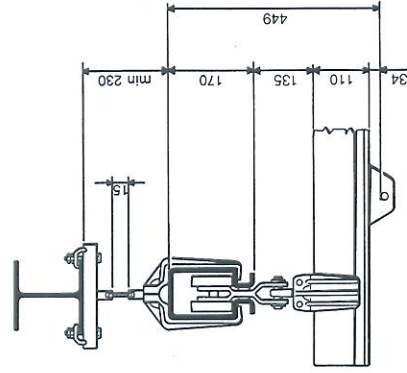
Runway in channel profile P - Bridge in channel profile P



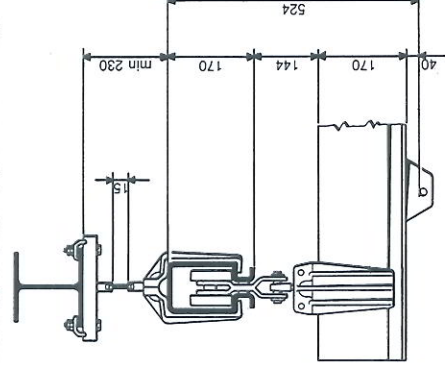
Runway in channel profile P - Bridge in channel profile G



Runway in channel profile G - Bridge in channel profile P

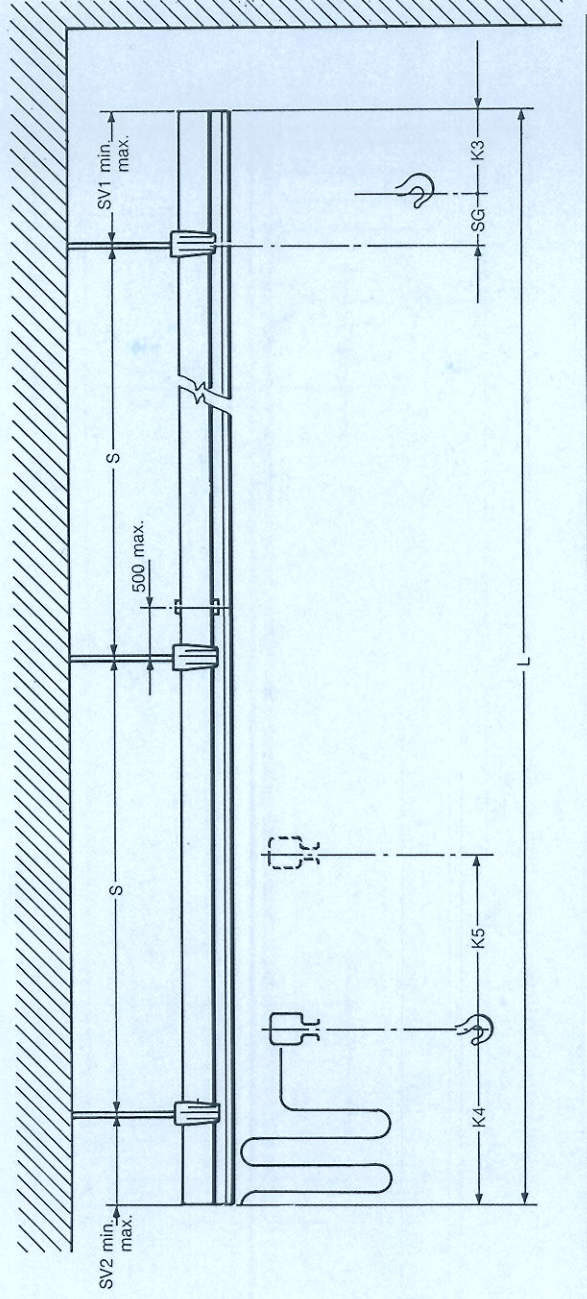


Runway in channel profile G - Bridge in channel profile G



Channel profile system series DSC

Single beam bridge crane



Runway dimensions for single beam bridge crane

Capacity kg/daN	Interaxis S m	Runway profile Type	Hook overhang mm SG Max.	Runway profile overhang mm				Approach mm	
				SV1 Min.	SV1 Max.	SV2 Min.	SV2 Max.	K3	Eventual 2nd bridge K5
125	3	*CP	100	50	200	50	K4 + 100	100	500
		CG	200	100	320	100	K4 + 200	120	500
	4	*CP	225	50	325	50	K4 + 225	100	500
		CG	350	100	470	100	K4 + 350	120	500
	5	*CP	350	50	450	50	K4 + 350	100	500
		CG	550	100	670	100	K4 + 550	120	500
250	3	CG	800	100	920	100	K4 + 800	120	1000
		CG	1000	100	1120	100	K4 + 1000	120	1500
	4	CP	50	50	150	50	K4 + 50	100	500
		CG	150	100	270	100	K4 + 150	120	500
	5	CG	250	100	370	100	K4 + 250	120	500
		CG	350	100	470	100	K4 + 350	120	500
500	6	CG	500	100	620	100	K4 + 500	120	1000
		CGR	650	100	770	100	K4 + 650	120	2000
	7	CG	80	100	330	100	K4 + 80	250	500
		CG	150	100	400	100	K4 + 150	250	1000
	8	CGR	200	100	450	100	K4 + 200	250	1500
		CGR	300	100	550	100	K4 + 300	250	2500
1000	9	CGR	400	100	650	100	K4 + 400	250	3500
		CG	40	100	290	100	K4 + 40	250	1000
	10	CGR	70	100	320	100	K4 + 70	250	1500
		CGR	100	100	350	100	K4 + 100	250	2500
	11	CGR	100	100	350	100	K4 + 100	250	2500
		CGR	100	100	350	100	K4 + 100	250	2500

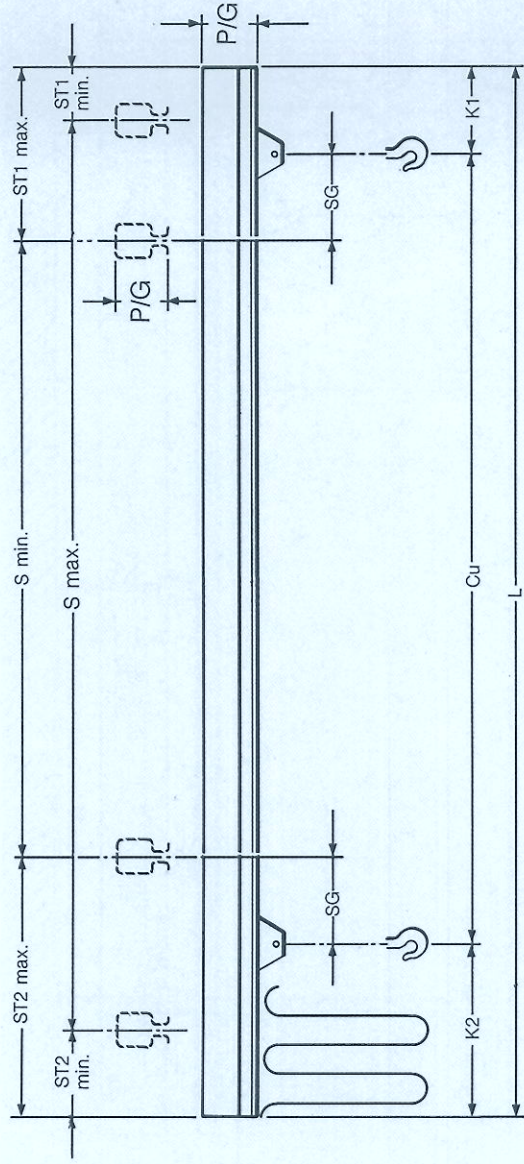
* Values advised for a bridge

K4 = $\frac{L60}{1200}$ with festooned supply line

K4 = K3 with supply line in blindo trolley

Channel profile system series DSC

Single beam bridge crane



P = 110 mm
G = 170 mm

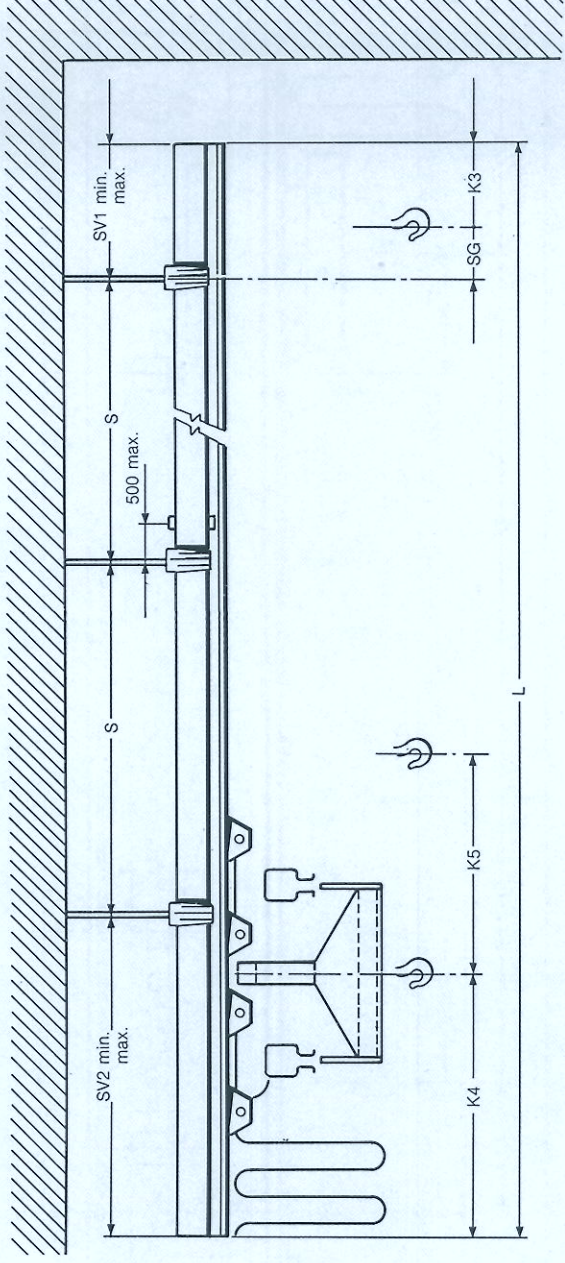
Single beam bridge crane dimensions

Capacity	Beam length l m	Bridge beam profile	Hoist carrying trolley	Runway profile	Bridge carrying trolley	Bridge Type	Span mm S	Hook overhang mm SG	Bridge beam overhang mm			Approach mm			Bridge weight			
kg/daN		Type	Type	Type	Type	Type	Min.	Max.	Min.	Max.	ST1	Min.	Max.	ST2	K1	K2	Cu	kg/daN
125	3	P	CCP	P	CCP	M0103P	2400	2900	100	50	260	50	400	100	300	2600	50	
				G	CCG	M0103G												
	4	P	CCP	P	CCP	M0104P	3090	3900	225	50	325	50	585	100	360	3540	60	
				G	CCG	M0104G												
	5	P	CCP	P	CCP	M0105P	3660	4800	400	100	520	100	820	120	420	4460	120	
				G	CCG	M0105G												
150	6	G	CCG	P	CCP	M0106P	4290	5800	555	100	675	100	1035	120	480	5400	150	
				G	CCG	M0106G												
	7	G	CCG	P	CCP	M0107P	4940	6800	700	100	820	100	1240	120	540	6340	180	
				G	CCG	M0107G												
	3	P	CCP	P	CCP	M0203P	2500	2900	50	50	150	50	350	100	300	2600	50	
				G	CCG	M0203G												
250	4	G	CCG	P	CCP	M0204P	3070	3800	225	100	345	100	585	120	360	3520	100	
				G	CCG	M0204G												
	5	G	CCG	P	CCP	M0205P	3710	4800	375	50	495	100	795	120	420	4460	130	
				G	CCG	M0205G												
	6	G	CCG	P	CCP/D	M0206P	4350	5800	525	100	645	100	1005	120	480	5410	160	
				G	CCG	M0206G												
500	7	GR	CCG	P	CCP/D	M0207P	4790	6800	775	100	895	100	1315	120	540	6340	240	
				G	CCG	M0207G												
	3	G	CCG	G	CCG	M0503G	2530	2800	25	100	145	100	325	120	300	2580	90	
	4	G	CCG	G	CCG/D	M0504G	3220	3800	150	100	270	100	510	120	360	3520	120	
	5	GR	CCG	G	CCG/D	M0505G	3860	4800	300	100	420	100	720	120	420	4460	180	
	6	GR	CCG	G	CCG/D	M0506G	4500	5800	450	100	570	100	930	120	480	5400	220	
1000	7	GR	CCG	G	CCG/D	M0507G	5140	6800	600	100	720	100	1140	120	540	6340	260	
	3	G	CCG/D	G	CCG/D	M1003G	2200	2800	30	100	300	100	500	270	470	2260	110	
	4	GR	CCG/D	G	CCG/D	M1004G	3090	3800	55	100	325	100	585	270	530	3200	160	
	5	GR	CCG/D	G	CCG/D	M1005G	3880	4800	130	100	400	100	720	270	590	4140	200	

Channel profile system series DSC

Double beam bridge crane

Special manufacture only



Runway dimensions for double beam bridge crane

Capacity	Interaxis anchorage	Runway profile	Hook overhang	Runway profile overhang				Approach	
kg	S m	Type	mm SG Max.	SV1 Min.	SV1 Max.	SV2 Min.	SV2 Max.	K3	Eventual 2nd bridge K5
125	3	*CP	170	50	720	50	K4 + 170	550	550
		CG	225	100	775	100	K4 + 225	550	1100
	4	*CP	220	50	770	50	K4 + 280	550	550
		CG	305	100	855	100	K4 + 305	550	1200
	5	*CP	285	50	835	50	K4 + 285	550	550
		CG	370	100	920	100	K4 + 370	550	1300
250	6	CG	450	100	1000	100	K4 + 450	550	1500
	7	CG	525	100	1075	100	K4 + 525	550	2000
	3	CP	110	50	660	50	K4 + 110	550	1500
		CG	170	100	720	100	K4 + 170	550	1100
	4	CP	140	50	690	50	K4 + 140	550	2000
		CG	220	100	770	100	K4 + 220	550	1200
500	5	CG	285	100	835	100	K4 + 285	550	1300
	6	CG	340	100	890	100	K4 + 340	550	1500
	7	CG	400	100	950	100	K4 + 400	550	2000
	3	CG	110	100	715	100	K4 + 110	600	1200
	4	CG	155	100	755	100	K4 + 155	600	1300
	5	CG	180	100	780	100	K4 + 180	600	1500
1000	6	CG	225	100	825	100	K4 + 225	600	2000
	7	CGR	265	100	865	100	K4 + 265	600	3000
	3	CG	70	100	670	100	K4 + 70	600	1500
	4	CG	95	100	695	100	K4 + 95	600	2000
	5	CGR	110	100	710	100	K4 + 110	600	2500

* Values advised for a bridge

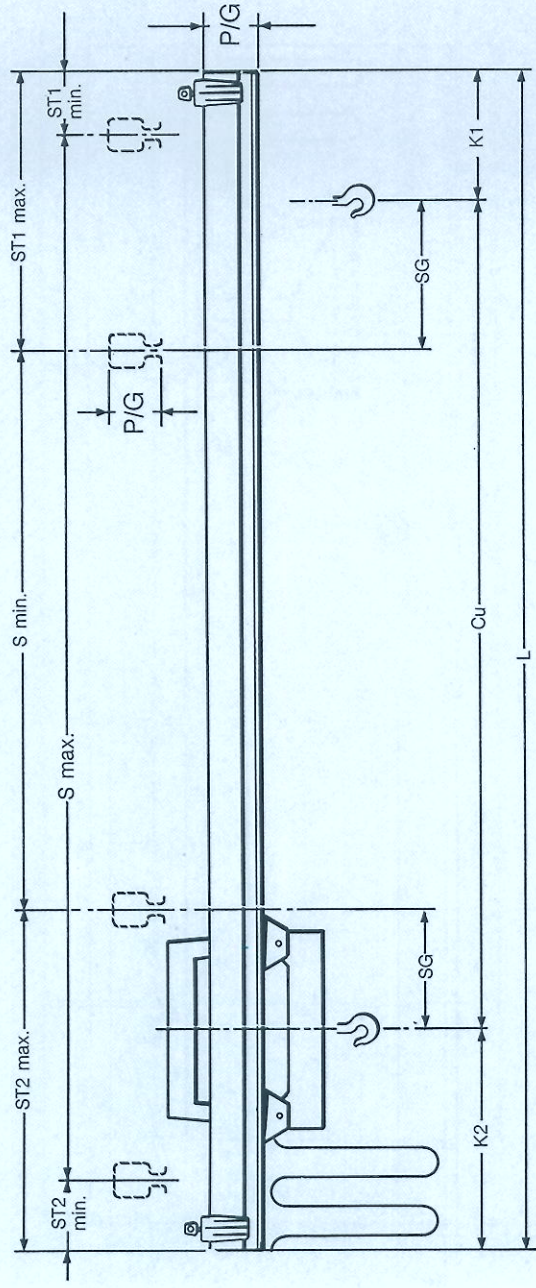
L60
K4 = 1200 with festooned supply line

K4 = K3 with supply line in blindo trolley

Channel profile system series DSC

Double beam bridge crane

Special manufacture only



P = 110 mm
G = 170 mm

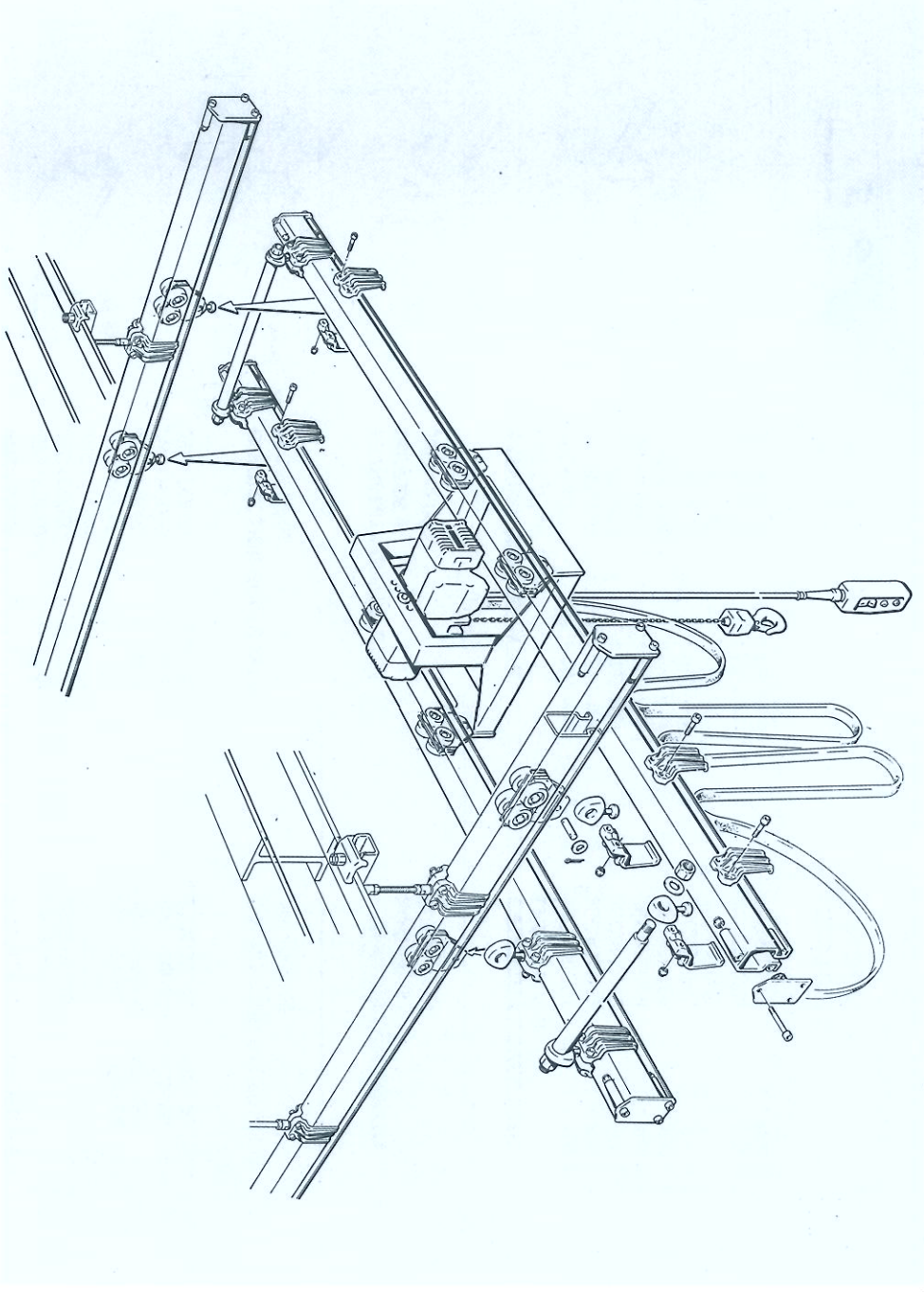
Double beam bridge crane dimensions

Capacity	Beam length m	Bridge beam profile	Hoist carrying trolley	Runway profile	Bridge carrying trolley	Bridge	Span mm	Hook overhang mm SG	Bridge beam overhang mm				Approach mm			Bridge weight kg			
kg		Type	Type	Type	Type	Type	Min.	Max.	S	Min.	Max.	ST1	ST2	Min.	Max.	K1	K2	Cu	
125	4	P	CCP	P	CCP	B0104P	2540	3700	250	150	630	150	830	380	580	3040			140
				G	CCG	B0104G													
	5	P	CCP	P	CCP	B0105P	3290	4700	350	150	730	150	980	380	630	3990			210
				G	CCG	B0105G													
	6	P	CCP	P	CCP	B0106P	4040	5700	450	150	830	150	1130	380	680	4940			280
				G	CCG	B0106G													
	7	G	CCG	P	CCP	B0107P	4440	6600	690	200	1100	200	1460	410	770	5820			370
			G	CCG	B0107G														
250	4	P	CCP	P	CCP	B0204P	2640	3700	200	150	580	150	780	380	580	3040			140
				G	CCG	B0204G													
	5	G	CCG	P	CCP	B0205P	3220	4600	350	200	760	200	1020	410	670	3920			270
				G	CCG	B0205G													
	6	G	CCG	P	CCP	B0206P	3970	5600	450	200	860	200	1170	410	720	4870			320
				G	CCG	B0206G													
	7	G	CCG	P	CCP	B0207P	4720	6600	550	200	960	200	1320	410	770	5820			370
			G	CCG	B0207G														
500	4	G	CCG	G	CCG	B0504G	2570	3600	200	200	610	200	820	410	620	2970			145
	5	G	CCG	G	CCG	B0505G	3320	4600	300	200	710	200	970	410	670	3920			280
	6	G	CCG	G	CCG	B0506G	4070	5600	400	200	810	200	1120	410	720	4870			325
	7	GR	CCG	G	CCG	B0507G	4620	6600	600	200	1010	200	1370	410	770	5820			490
1000	4	G	CCG	G	CCG	B1004G	2770	3600	100	200	510	200	720	410	620	2970			150
	5	GR	CCG	G	CCG	B1005G	3520	4600	200	200	610	200	870	410	670	3920			375
	6	GR	CCG	G	CCG	B1006G	4270	5600	300	200	710	200	1020	410	720	4870			440

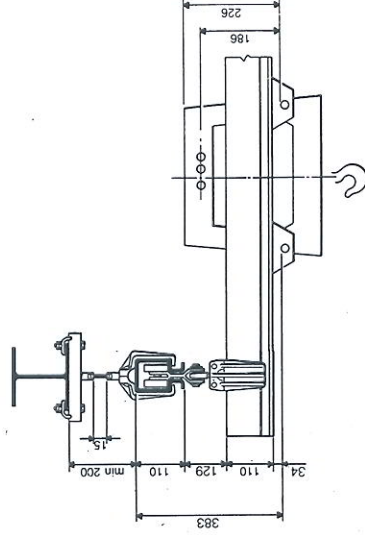
Channel profile system series DSC

Double beam bridge crane

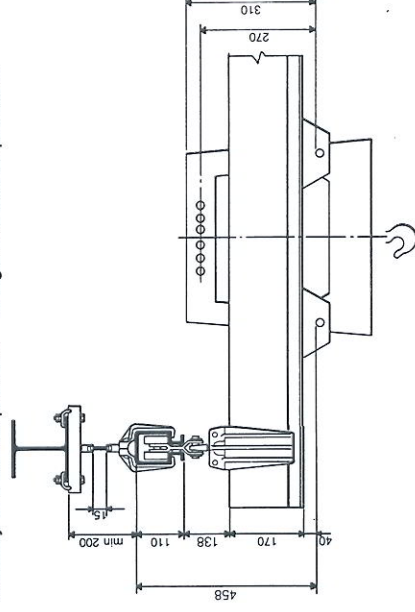
Special manufacture only



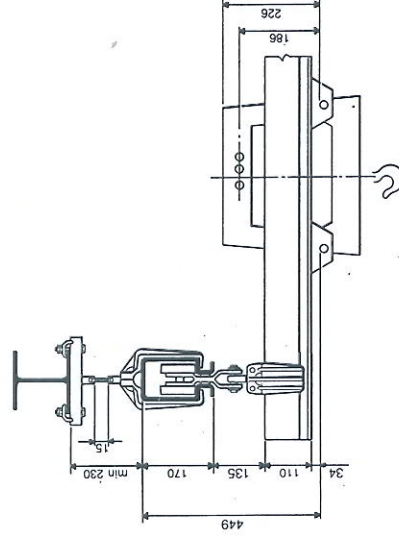
Runway in channel profile P - Bridge in channel profile P



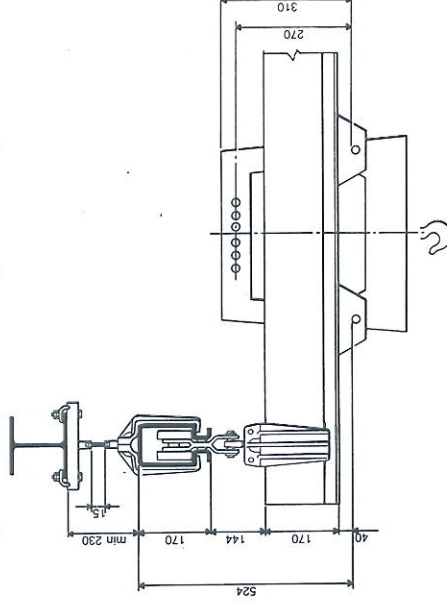
Runway in channel profile P - Bridge in channel profile G



Runway in channel profile G - Bridge in channel profile P

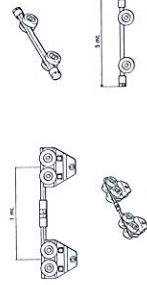
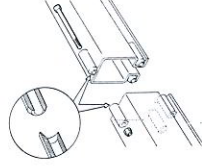
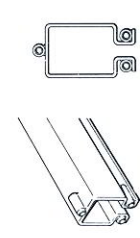


Runway in channel profile G - Bridge in channel profile G



Channel profile system DSC

Components and accessories



PROFILE P
JSC1P0010
JSC1P0020
JSC1P0030
JSC1R0040
JSC1P0050
JSC1P0060
JSC1P0070

L = 1 m
L = 2 m
L = 3 m
L = 4 m
L = 5 m
L = 6 m
L = 7 m

CONNECTION BOLTS KIT P
JSCA0GP00

EXTREMITY COVER WITH BUFFER P
JSCA0LP00

EXTREMITY COVER WITH LIMIT STOP P

JSCA0LP01 L = 100 mm
JSCA0LP02 L = 200 mm
JSCA0LP03 L = 300 mm
JSCA0LP04 L = 400 mm
JSCA0LP05 L = 500 mm
JSCA0LP06 L = 600 mm
JSCA0LP07 L = 700 mm
JSCA0LP08 L = 800 mm
JSCA0LP09 L = 900 mm

FIELD LIMIT P
JSCA0HP00

ANTICOLLISION P
JSCA0AP00
JSCA0AP10

L max. = 1 m
L max. = 3 m

COMPLETE SUSPENSION FOR RUNWAY P

JSCA0MP01 L = 100 mm
JSCA0MP11 L = 500 mm
JSCA0MP21 L = 1000 mm

SUSPENSION WITH ARTICULATED ROUND HEADED BOLT P
JSCA0VP01

COMPLETE SUSPENSION FOR BRIDGE CRANE P
JSCA0PP01

ANCHORAGE TRANSVERSE P
Indicate the type of profile

SUSPENSION CLIP P
JSC0P0011

ARTICULATED ROUND HEADED SUSPENSION BOLTS P
JSC0P0020

PROFILE G
JSC1G0010
JSC1G0020
JSC1G0030
JSC1G0040
JSC1G0050
JSC1G0060
JSC1G0070

L = 1 m
L = 2 m
L = 3 m
L = 4 m
L = 5 m
L = 6 m
L = 7 m

CONNECTION BOLTS KIT G
JSCA0GG00

EXTREMITY COVER WITH BUFFER G
JSCA0LG00

EXTREMITY COVER WITH LIMIT STOP G

JSCA0LG01 L = 100 mm
JSCA0LG02 L = 200 mm
JSCA0LG03 L = 300 mm
JSCA0LG04 L = 400 mm
JSCA0LG05 L = 500 mm
JSCA0LG06 L = 600 mm
JSCA0LG07 L = 700 mm
JSCA0LG08 L = 800 mm
JSCA0LG09 L = 900 mm

FIELD LIMIT G
JSCA0HG00

ANTICOLLISION G
JSCA0AG00
JSCA0AG10

L max. = 1 m
L max. = 3 m

COMPLETE SUSPENSION FOR RUNWAY G

JSCA0MG00 L = 100 mm
JSCA0MG10 L = 500 mm
JSCA0MG20 L = 1000 mm

SUSPENSION WITH ARTICULATED ROUND HEADED BOLT G
JSCA0VG00

COMPLETE SUSPENSION FOR BRIDGE CRANE G
JSCA0PG00

ANCHORAGE TRANSVERSE G
Indicate the type of profile

SUSPENSION CLIP G
JSC0G0010

ARTICULATED ROUND HEADED SUSPENSION BOLTS G
JSC0G0020



THREADED STAYBOLTS P

JSC5P0080 L = 100 mm M 12 x 1,5
JSC5P0090 L = 500 mm M 12 x 1,5
C13012000 L = 1000 mm M 12 x 1,5



HEXAGONAL NUTS FOR THREADED STAYBOLTS P

B06012001 M 12 x 1,5



EYEBOLT SUSPENSION BRIDGE P

JSC0P0050



SIMPLE TROLLEY P

0CCP00000



DOUBLE TROLLEY P

CCPD00000



TRANSVERSE FOR DOUBLE TROLLEY P

GBCCCP040



DOUBLE BEAM TROLLEY P

JSCA0BP00



DOUBLE STAYBOLT P

JSCA0DP01

THREADED STAYBOLTS G

JSC5G0080 L = 100 mm M 16 x 1,5
JSC5G0090 L = 500 mm M 16 x 1,5
C13016000 L = 1000 mm M 16 x 1,5

HEXAGONAL NUTS FOR THREADED STAYBOLTS G

B06016000 M 16 x 1,5



EYEBOLT SUSPENSION BRIDGE G

JSC0G0050

SIMPLE TROLLEY G

0CCG00000

DOUBLE TROLLEY G

CCGD00000

TRANSVERSE FOR DOUBLE TROLLEY G

GBCCCG040

DOUBLE BEAM TROLLEY G

JSCA0BG00

DOUBLE STAYBOLT G

JSCA0DG00

ELECTRICAL ACCESSORIES



CABLE CARRYING SLIDES

E58000000



CABLE CARRYING TROLLEYS P

JSCA0CP00



ROUND CABLE

E080004150 4 x 1,5 mm²
E080004250 4 x 2,5 mm²



FLAT CABLE

E08000415P 4 x 1,5 mm²
E08000425P 4 x 2,5 mm²



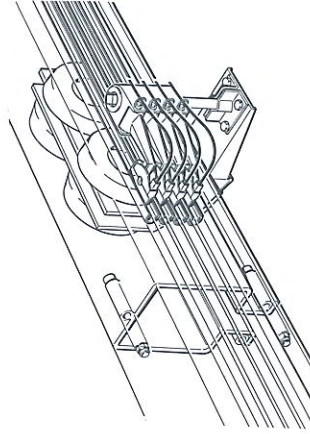
JUNCTION BOX WITH CLAMPS

E14250306 4 x 6 mm²
E14250316 4 x 16 mm²
E14335335 4 x 35 mm²



SWITCH WITH FUSES

E31025000 25 A
E31040000 40 A



CONDUCTION RUNWAY WITH TENSION INTAKE TROLLEY

On request

CABLE CARRYING SLIDES

E58000000

CABLE CARRYING TROLLEYS G

JSCA0CG00

ROUND CABLE

E080004150 4 x 1,5 mm²
E080004250 4 x 2,5 mm²

FLAT CABLE

E08000415P 4 x 1,5 mm²
E08000425P 4 x 2,5 mm²

JUNCTION BOX WITH CLAMPS

E14250306 4 x 6 mm²
E14250316 4 x 16 mm²
E14335335 4 x 35 mm²

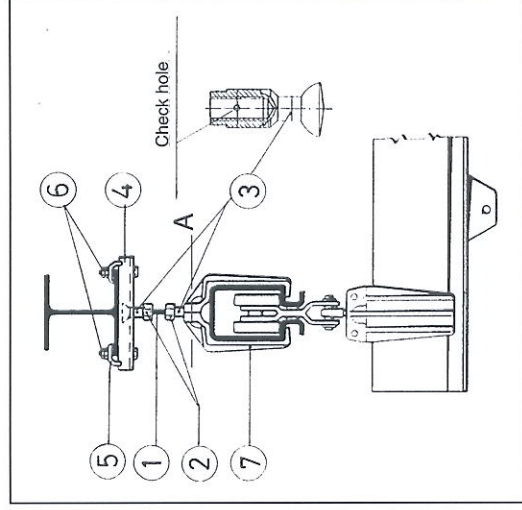
SWITCH WITH FUSES

E31025000 25 A
E31040000 40 A

Installation procedure

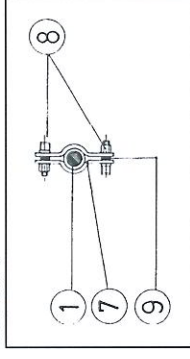
The installation shall always be performed by suitably trained personnel able to assess the effects of the actions performed. Special care shall be taken when installing the system at high height, where the use of special equipment and tools is required, and in particular when height is higher than 5 m.

The characteristics of the installation site may compel the user to change the installation procedure, to the point that it is impossible to lay down a "good-for-all" installation procedure. The installation procedure shall, therefore, be defined during the design of the installation, taking into consideration all the characteristics of the system defined in the mentioned catalog. The special instructions concerning the installation of the tie-rods and suspension stirrups are conversely indicated hereafter, as some clarifications may be needed.



pos.	description
1	tie-rod
2	hexagon nut
3	spherical head articulated rod
4	cross-beam
5	clamp
6	bolt
7	stirrup
8	bolt
9	washer

Sect. A



Refer to the figure. The recommended installation procedure is the following:

- 1) insert the spherical head articulated rod (3) in the cross-beam (4);
- 2) tighten the two nuts (2) at the two ends of the tie rods (1);
- 3) screw the spherical head articulated rod (3) to one end of the tie rod (1) until the check hole on the rod body gets closed;
- 4) fully tighten the tie-rods fitted to the articulated rods (3) previously inserted in the crossbeams (4);
- 5) install the stirrups (7) in the free end of the articulated rods (end opposite to that of the tie rods), and fit two washers (9) (CP variant only). Do not tighten the bolts (8) so that the stirrups can be spread to receive the channel (note: the two bolts shall be installed "vis-à-vis");
- 6) install the crossbeams (4) on the supporting structures according to the design requirements;
- 7) lift the channel lengths until you can insert them in the stirrups in the correct design positions. Tighten the bolts (8) to a torque of 26.4 Nm (screws M 8), and 50.1 (screws M 10). Fasten each channel length to the subsequent one with the pins and screws already fitted to the heads.
Take care to install the trolleys before installing the last channel section unless you can do so from the heads when the installation is completed;
- 8) check the alignment of the crane ways, using the plays on the attachment bolt holes to adjust when possible. When the alignment is completed, the tie-rods shall not be inclined more than 2°. If this condition is not met, change the installation by installing special crossbeams or other suitable devices or solutions able to permit the said requirement to be met;
- 9) in the case of twin crane ways for bridge cranes, check that the mutual alignment is within the limits specified in standard FEM 1001. To this purpose, please find the applicable paragraphs of this standard enclosed herewith. **The allowable misalignment, both in the longitudinal direction for each one of the crane ways, and transversally between the crane ways, is in the order of magnitude of 0.5 per mill, i.e. 0.5 mm per meter;**
- 10) to adjust, loosen the upper articulated rod (3) or tighten the lower articulated rod. Always check that the check hole does not become free. A free hole indicates an incorrect engagement of the tie-rod in its threaded housing, and this involves the hazard of possible separation;
- 11) check the alignment again;
- 12) tighten the nuts (2) to a torque of 45.5 Nm and 107 Nm for the M 12 and M 16 nuts respectively, use a 19 wrench for the M 12 nuts, and a 24 wrench for the M 16 nuts.

Maintenance

Maintenance is limited to the following:

- 1) after the first 150 hours of operation, check the alignments, the levels and the torque of all screwed connections;
- 2) repeat the same operation every year;
- 3) touch up the corrosion-protection coating if it appears to be damaged beyond grade 6 as defined in the SIS standards;
- 4) perform the maintenance of the hoist in accordance with the instructions of the Manufacturer.

HIGH QUALITY PRODUCTS BY A LEADING MANUFACTURER

- Donati Sollevamenti was founded in 1930, and has since operated in the hoisting and material handling sector by manufacturing a wide range of products designed to hoist light and medium loads.
- Donati Sollevamenti is one of the few companies worldwide that is able to supply a complete range of electrically-operated devices and hoisting equipment produced in series. All its products are manufactured by use of high-quality materials and leading edge technologies, and are thus capable of satisfying the requirements of the international market.



- Donati Sollevamenti production range includes electric chain and wire-rope hoists of different sizes, winches, jib cranes with manually or electrically-operated jib, overhead transport systems, travelling units suitable for use in the most diverse applications in the manufacturing industry and at distribution centers.



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