

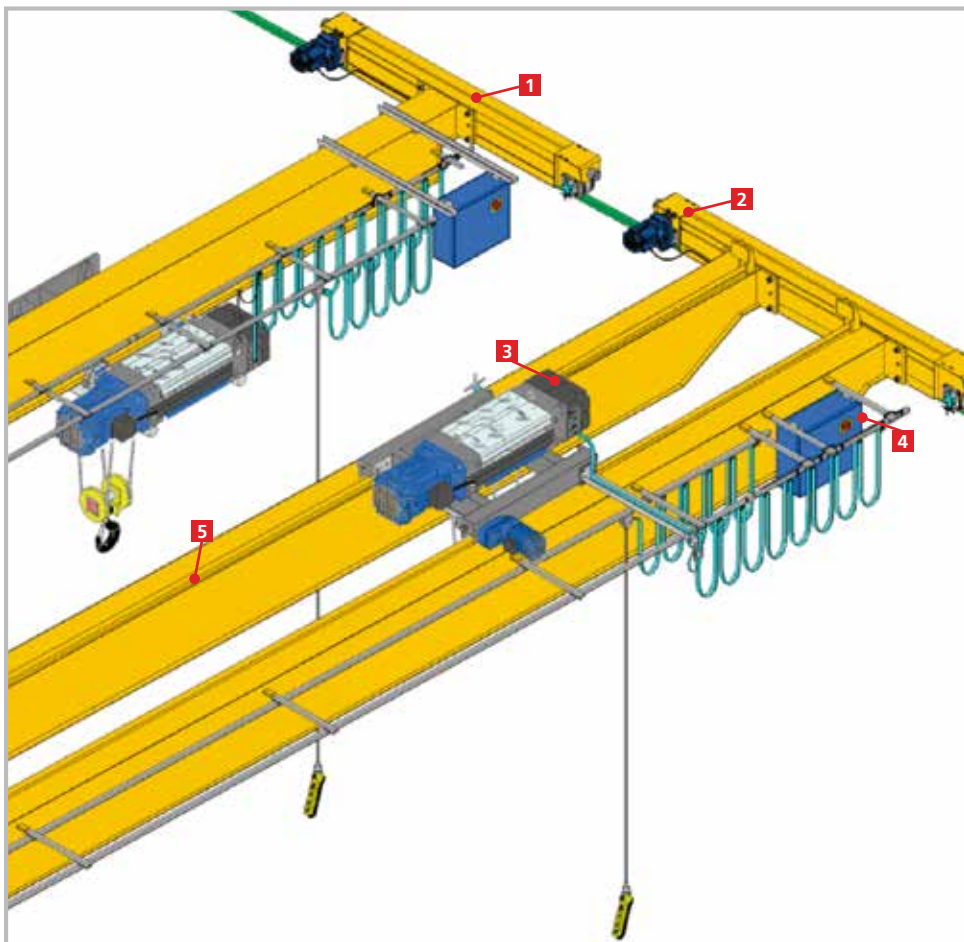
CRANE SET

BRIDGE CRANE COMPONENTS

TO CREATE YOUR CUSTOM BRIDGE CRANE

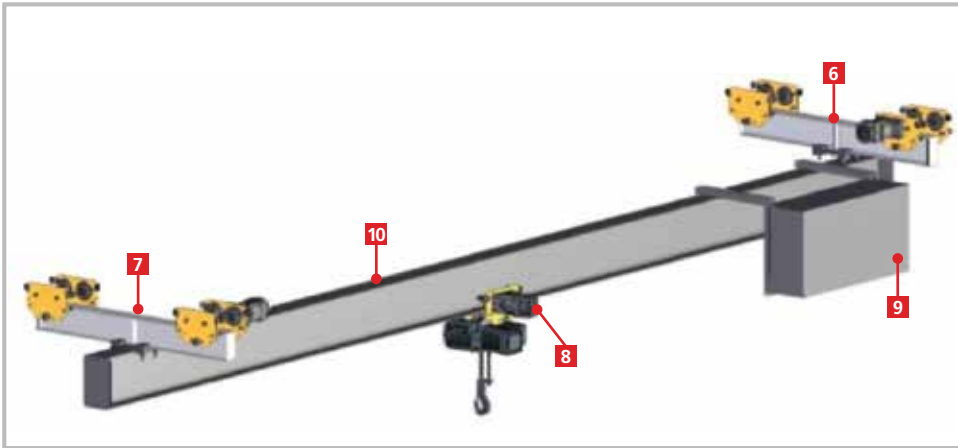
A series of products conceived and designed to be assembled and create a bridge crane suited to your needs

STANDING BRIDGES



- 1** Power driven travel heads with DGT/DGP series wheel units
- 2** DGT series wheel units with DGP series suspended gear motor
- 3** DRH series wire rope hoists (in the figure) - DMK series chain hoists
- 4** Electrical control panel
- 5** Bridge beams (NOT SUPPLIED) but dimensioned with ARIANNA software

SUSPENDED BRIDGES: DPS SERIES KIT



- 6 - 7** Power driven travel heads with DMT 3-4-5 series trolleys
- 8** DRH series wire rope hoists - DMK series chain hoists (in the figure)
- 9** Electrical control panel
- 10** Bridge beams in I Iron NOT SUPPLIED but indicated in the technical tables

ARIANNA

Selected software for standard components for standing/suspended bridge cranes



NORMES AND CERTIFICATIONS

Donati products are designed and built taking into consideration the "Essential Safety Requirements" of annex I to the **Machinery Directive 2006/42/EC** and are issued on the market **equipped with an EC IIA declaration of conformity or IIB declaration of incorporation based on the type of component.**

They are also in compliance with the following directives:

- **LOW VOLTAGE DIRECTIVE 2014/35/UE**
- **ELECTROMAGNETIC COMPATIBILITY DIRECTIVE 2014/30/UE**

PROTECTION AND SHEATHING OF ELECTRICAL PARTS

- Sliding motors: protection IP55 (motor) - IP23 (brake); class "F" insulation
- Limit switch: minimum protection IP65; max. insulation voltage 500 V
- Protections and insulations differing from the standard, which can be supplied on request.

ELECTRICAL POWER

Products designed to be powered with alternating electric current with three phase voltage of: 400 V - 50Hz according to IEC 38-1 Non-standard voltages and frequencies can be supplied upon request.

ENVIRONMENTAL CONDITIONS FOR STANDARD USAGE

- Operating temperature: minimum - 10° C; maximum + 40°C
- Maximum relative humidity: 80% - Maximum altitude 1000 m above sea level

NOISE EMISSIONS

The noise level emitted by the products during use, both empty and at full load, is always under **85 dB (A)**.

APPLICABLE NORMS AND REGULATIONS

- EN ISO 12100/2010 "Fundamental concepts on general engineering principles"
- EN ISO 13849-1/2008 "General principles for design"
- EN 13001-1:2009 "General design – Part 1: General principles and requirements"
- EN 14492-2:2009 "Power driven winches and hoists – Part 2: Power driven hoists"
- ISO 4301-1:1988 "Classifications for lifting equipment"
- ISO 4308-1:2003 "Selection of wire ropes – General"
- DIN 15401 "Choice of lifting hooks"
- UNI 9466:1994 "Shell drum. Design requirements"
- FEM 9.661/86 "Dimensions and designs of rope reeving components"
- FEM 9.671/88 "Quality of chains"
- ISO 8306/85 "Tolerances for cranes and tracks"
- EN 1993-6/2007 "Design of steel structures for crane supporting structures - Part 6"
- EN 12077-2/2008 "Limiting and indication device"
- EN 14492-2/2009 "Power driven winches and hoists – Part 2: Power driven hoists"
- EN 60204-32/2009 "Safety of the electrical equipment of lifting machines"
- EN 60529/1997 "IP enclosure (IP Codes)"
- ISO 4301-1/1988 "Classification of lifting equipment. General"
- FEM 1.001/98 "Rules for the design of lifting equipment"
- FEM 9.511/86 "Mechanisms classification"
- FEM 9.683/95 "Selection of lifting and traverse motors"
- FEM 9.755/93 "Periods of safe work"
- FEM 9.761/93 "Lifting force limiters"
- FEM 9.941/95 "Control symbols"

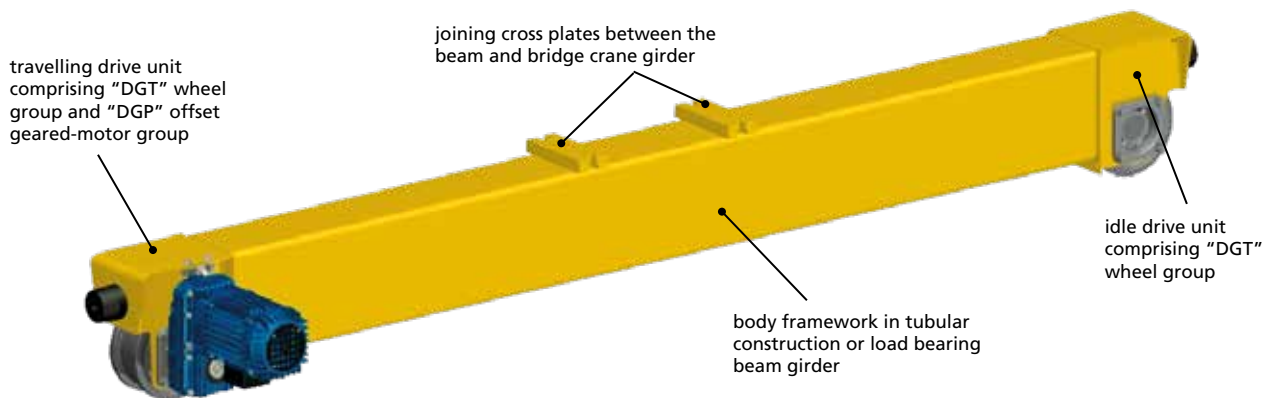
1 TRAVEL HEADS FOR STANDING BRIDGE CRANE

The main components on end-carriages for bridge cranes are the:

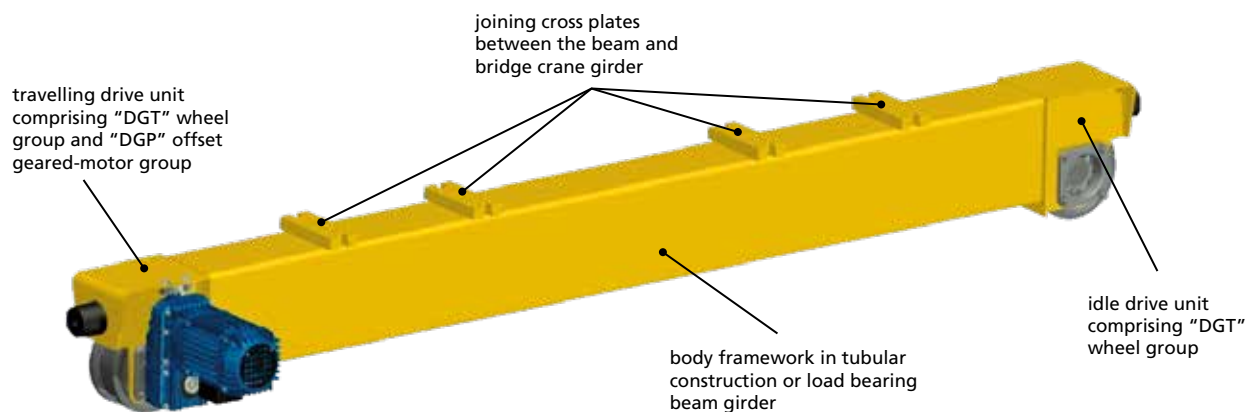
END-CARRIAGE FRAMEWORK:

- The load-bearing structure is made from rectangular tubular.
- The bridge crane girders are fixed to the end-carriage structure using a system of high-resistance bolts and a pin centring system.

END-CARRIAGE FOR SINGLE GIRDER BRIDGE CRANE



END-CARRIAGE FOR DOUBLE GIRDER BRIDGE CRANE



DONATI **end-carriages** are designed for handling operations on **bridge crane rails**:

- at single running speed from 3.2 to 25 m/min;
 - at two running speeds, from 12.5/3.2 to 80/20 m/min;
- operating on:
- single girder, with a capacity of up to 20,000 kg and gauge of up to 25 m;
 - double girder, with a capacity of up to 40,000 kg and gauge of up to 27 m.

Designed and built on the principle of modular components assembled together in relation to their specific use, they are equipped with **drive units** comprising **"DGT" series wheel groups**, which are combined with **"DGP" series offset geared motors**.

They are configured in 6 sizes, where the basic components are:

- **6 "DGT" series drive wheel group sizes** (Ø 125, Ø 160, Ø 200, Ø 250, Ø 315 and Ø 400/400 R)
- **4 "DGP" series offset reducers sizes** (DGP 0, DGP 1, DGP 2 and DGP 3)
- **4 self-braking motors sizes** (motor 71, motor 80, motor 100 and motor 112)

Operating limitations for end-carriages on SINGLE GIRDER or DOUBLE GIRDER bridge cranes, in relation to span

END-CARRIAGES TYPE			SPAN (m) SINGLE GIRDER M OR DOUBLE GIRDER B BRIDGE CRANE																												
SIZE "DGT"	WHEEL																														
	Ø R (mm)	BASIS PR (mm)	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27							
1		1800	M																												
	125	2400	B										M	B																	
		3300	M																	B											
2		1800	M																												
	160	2400	B										M	B																	
		3300	M																	B											
3		2100	M																												
	200	2700	B										M	B																	
		3600	M																	B											
4		2100	M																												
	250	2700	M	B	B										M	B															
		3600	M																	B											
		3600 R	M																												
5	315	2400	M																												
		3900	B																												
6	400	3900	B																												
	400R	3900 R	B																												

"DGT" WHEELS		"DGP" SERIES OFFSET GEARED MOTORS				
SIZE	Ø (mm)	"DGP" REDUCERS SIZE 0	"DGP" REDUCERS SIZE 1		"DGP" REDUCERS SIZE 2	"DGP" REDUCERS SIZE 3
1	125	Motors size 71			=	=
2	160	Motors size 71	Motors size 71	Motors size 80	=	=
3	200	=				=
4	250	=			Motors size 80	=
5	315	=	=		Motors size 80	Motors size 100
6	400	=	=			Motors size 112
	400R	=	=		=	



OPERATING LIMITATIONS FOR END-CARRIAGES ON SINGLE GIRDER BRIDGE CRANES BASED ON: CAPACITY - ISO/FEM GROUP - SPAN

CAPACITY (kg)	ISO/FEM GROUP	SPAN (m)																			
		6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
1000	M4/1Am M5/2m																				
1250	M4/1Am M5/2m																				
1600	M4/1Am M5/2m																				
2000	M4/1Am M5/2m																1-125-3300				
2500	M4/1Am M5/2m				1-125-1800							1-125-2400									
3200	M4/1Am M5/2m																				
4000	M4/1Am M5/2m																				
5000	M4/1Am M5/2m																2-160-3300				
6300	M4/1Am M5/2m																				
8000	M4/1Am M5/2m				2-160-1800												2-160-2400				3-200-3600
10000	M4/1Am M5/2m					3-200-2100															4-250-3600
12500	M4/1Am M5/2m																				4-250-3600 R
16000	M4/1Am M5/2m																				
20000	M4/1Am																				

Admissible travelling mass for end-carrriages on SINGLE GIRDER bridge crane [Travelling mass (kg) = capacity + crane weight + weight of trolley/hoist]

1-125	2-160	3-200	4-250	5-315									
1800	2400	3300	1800	2400	3300	2100	2700	3600	2100	2700	3600	3600 R	2400
8.400	7.400	11.100	9.800	15.800	14.800	22.000	24.400	19.000	24.800	28.600			

Note: operating limitations determined using Donati components (hoist, trolley, etc.) and sectioned beams sized as per arrow a = Span / 750
TRAVEL HEADS FOR STANDING BRIDGE CRANE

OPERATING LIMITATIONS FOR END-CARRIAGES ON DOUBLE GIRDER BRIDGE CRANES BASED ON: CAPACITY - ISO/FEM GROUP - SPAN



CAPACITY (kg)	ISO/FEM GROUP	SPAN (M)																					
		6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
1000	M4/1Am M5/2m																						
1250	M4/1Am M5/2m																						
1600	M4/1Am M5/2m																						
2000	M4/1Am M5/2m																						
2500	M4/1Am M5/2m																						
3200	M4/1Am M5/2m																						
4000	M4/1Am M5/2m																						
5000	M4/1Am M5/2m																						
6300	M4/1Am M5/2m																						
8000	M4/1Am M5/2m																						
10000	M4/1Am M5/2m																						
12500	M4/1Am M5/2m																						
16000	M4/1Am M5/2m																						
20000	M4/1Am																						
25000	M4/1Am M5/2m																						
32000	M4/1Am																						
40000	M4/1Am																						

Admissible travelling mass from beams on DOUBLE GIRDER bridge crane [Travelling mass (kg) = capacity + crane weight + weight of trolley/hoist]

1-125	2-160	3-200	4-250	5-315	6-400	6-400 R				
2400	3300	2400	3300	2700	3600	2700	3600	3900	3900	3900 R
9.300	10.400	11.500	13.200	17.100	18.800	25.000	25.500	35.900	46.000	62.000

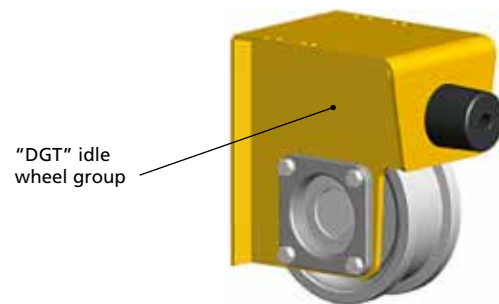
Note: operating limitations determined using Donati components (hoist, trolley, etc.) and sectioned beams sized as per arrow a = Span / 750
TRAVEL HEADS FOR STANDING BRIDGE CRANE

2 TRAVEL HEADS FOR STANDING BRIDGE CRANE

"DGT" SERIES WHEEL GROUPS

- Drive wheels Ø 125, Ø 160, Ø 200, Ø 250 and Ø 315 are carbon steel moulded. Sliding wheels Ø 400 and Ø 400 R are in spheroid cast iron.
- All wheels groups revolve on permanently lubricated radial bearings, with the exception of the extra load capacity Ø 400 R wheel group, which is fitted with roller bearings.
- Available in idle operation or ready for drive operation combined with an offset geared-motor.
- In drive operation, the direct connection is coaxial between the offset geared-motor output shaft and the grooved hub on the drive wheel ensures a high level of operating safety and reliability.
- The wheel group is available as standard with a double-flange version and can, on request, be supplied with different sliding band widths depending on the type of rail it runs on.

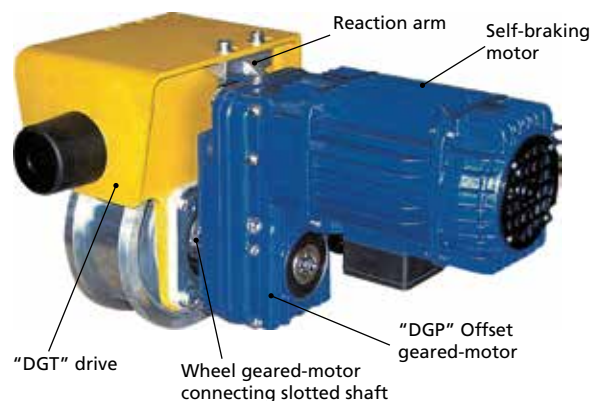
- Both in idle and drive operation, the wheel groups are supported and contained within an electro-welded steel structure that acts as a support casing for the entire group, and as a joining element between the end-carriage frame on which the wheel group is assembled.



"DGP" SERIES OFFSET GEARED-MOTORS

- **Reducers** are designed as an "offset geared-motor" type with a concave shaft, featuring parallel axes with two or three stages of reduction, and permanent oil-bath lubrication.
- Engineered with cylindrical high resistance steel gears, featuring spiral teething, heat-treated, entirely supported on ball bearings.
- Sized to resist a lifetime of stress and wear, in accordance to the pertinent ISO service group.
- The connection between the geared-motor and drive wheel is guaranteed by a slotted shaft connecting the holes on both parts, while the geared-motor fastened to the wheel group makes use of a system comprising a reaction arm fastened to the wheel group, and an elastic counter bearing with rubber buffers and a setscrew. The entire geared-motor-wheel connection system guarantees both high quality running operation and maximum duration over time with low maintenance, thanks to the elimination of rigid connections.
- **The electric motors** are asynchronous, featuring progressive start-up, with standard ventilation, self-braking with axial shifting of the rotor guaranteeing fast, reliable mechanical braking.
- Conical brakes are fitted with asbestos-free brake lining, featuring an extended braking surface.

- The brake block comprises a fan which ensures proper cooling for the brake and motor, shifting axially with the motor shaft; the brake function is activated automatically in the case of a power outage.
- The connection between the motor and offset geared-motor features a joint contained within a coupling housing.

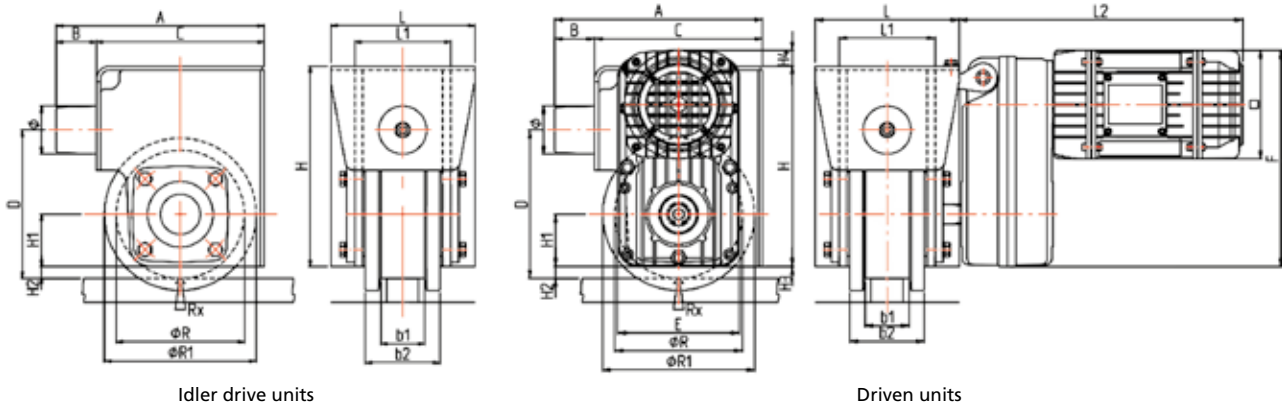


THE CONNECTION PLATE (SINGLE GIRDER) OR PLATES (DOUBLE GIRDER) FIX THE END-CARRIAGE TO THE CRANE'S GIRDER OR GIRDERS: Specially designed connection plates fix the end-carriages to the girder/s of the bridge crane. Built in steel plating in different sizes, they are welded to the bridge crane girders, whether tubular or plated sectioned, laterally joined or fixed to the travelling beam structures.

ACCESSORIES (limit switches, towing arms, etc.):

The travel limit switch on the end-carriages, when supplied, is a rotating type with a double cross-rod ensuring for two-speed cranes a dual function of pre-deceleration and stopping in both directions, and is housed on the DGT drive unit..

CLEARANCE REQUIREMENTS FOR WHEEL GROUPS BASED ON COMBINATIONS WITH RELATED OFFSET GEARED-MOTORS



WHEEL SPECIFICATIONS			WHEEL GROUP CLEARANCE (mm)												SIZE		GEARED-MOTOR CLEARANCE (mm)						
TYPE \emptyset	MAX. RX	INTERNAL WIDTH	b1	b2	L1	L	R1	A	B	C	D	\emptyset	H	H1	H2	GEARED-MOTOR	MOTOR	L2	\square	E	F	H3	H4
125	3.670 36 kN	standard	50													0	71	332	135	138	223	0	3
		maximum	60	80	100	160	150	200	30	170	145	50	220	55	7.5	1	71	368	135	152	270	10.5	39.5
		special	70	90	110											1	80	383	150	152	278	10.5	47.5
160	4.893 48 kN	standard	55													0	71	332	135	138	223	-10	-17
		maximum	65	93	120	180	190	260	50	210	185	60	250	65	15	1	71	368	135	152	270	0.5	19.5
		special	80	105	130											1	80	383	150	152	278	0.5	27.5
200	7.340 72 kN	standard	60													1	71	356	135	152	270	-9.5	-10.5
		maximum	70	100	135	200	230	325	65	260	230	80	290	75	25	1	80	372	150	152	278	-9.5	-2.5
		special	90	120	145											2	80	398	150	227	357	26	41
250	10.805 106 kN	standard	70													1	71	356	135	152	270	-24.5	-40.5
		maximum	80	110	149	230	280	375	65	310	275	80	335	90	35	1	80	372	150	152	278	-24.5	-32.5
		special	100	135	165											2	80	398	150	227	357	11	11
315	14.679 144 kN	standard	75													2	80	368	150	227	357	-4	-24
		maximum	85	120	159	260	350	470	80	390	335	100	385	105	52.5	2	100	406	190	227	376	-4	-5
		special	110	150	180											3	112	500	225	265	456	15	56
400	18.960 186 kN	standard	85													2	80	362	150	227	357	-44	-39
		maximum	95	135	170	290	440	570	100	470	385	125	440	145	55	2	100	400	190	227	376	-44	-20
		special	115	155	190											3	112	500	225	265	456	-25	41

Quotes L2 in red refer to wheels operating with a "standard" and "maximum" sheave:

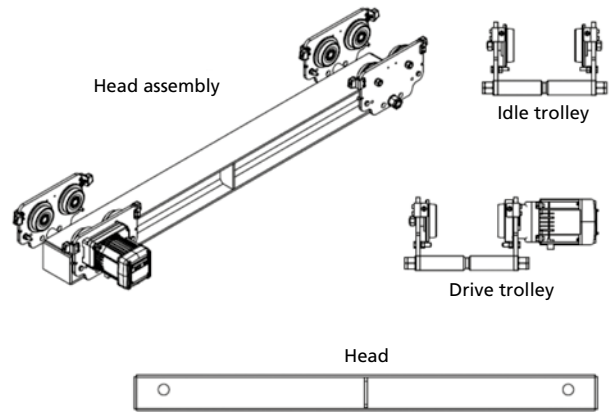
For $\emptyset 315$ and $\emptyset 400$ wheels with a "special" sheave, the quota L2 increases by 10 mm, with respect to the values listed in the table

TRAVEL HEADS FOR STANDING BRIDGE CRANE

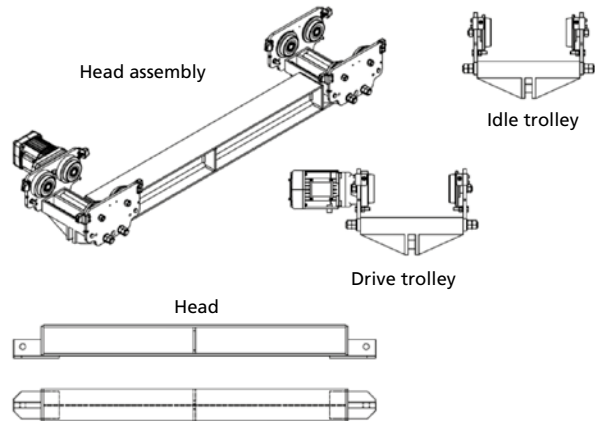
DPS SINGLE GIRDER SUSPENSION BRIDGE KITS

The KIT includes the supply of all the components necessary for assembly of a single girder suspension bridge crane. The bridge girder is not included in the KIT but the catalogue shows the recommended and tested IPE or HEA girders. The catalogue prescribes the use of HEA girders for heads and IPE or HEA girders for bridge girders. The trolleys and head can have different combinations based on the capacity and the width of the flange of the rail; in general there is a drive trolley and an idle trolley for each head.

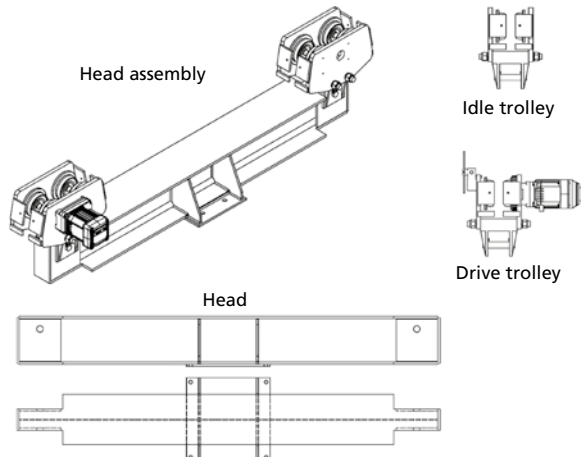
For Kits with a capacity up to 2000 kg and rail girders with flange less than 220 mm to support the head a single tie-rod is used. The head is a simple perforated girder, closed at the end and reinforced in the centre with a core. The bridge girder is supported by clamps.



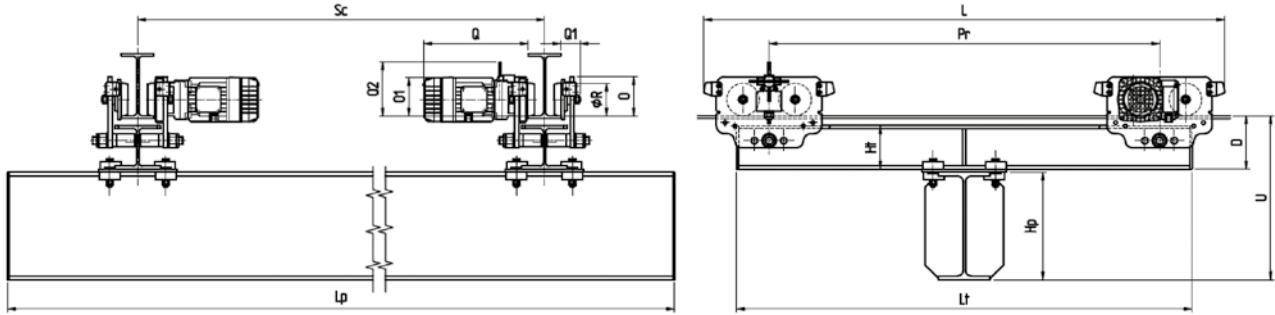
For Kits with a capacity up to 2000 kg and rail girders with flange greater than 220 mm to support the head a bracket is used. The head is composed of a girder closed at the ends and reinforced in the centre where hooks are welded for the bracket. The bridge girder is supported by clamps.



For Kits with a capacity greater than 2000 kg and rail girders with flange with 90 mm minimum width, to support the head a bracket is used. The head is composed of a girder, the upper and lower flitch plates are cut at its ends; cores are applied in the centre then welded to the splice plate. The bridge girder is then welded to the splice counterplate.



TECHNICAL FEATURES AND SPECIFICATIONS - WEIGHTS (SINGLE HEAD)



SUSPENSION BRIDGE DPS1 - CAPACITY 1000 KG - HOIST DMK

Sc m	Pr	HEAD (DIMENSIONS IN mm)											Weight kg	BRIDGE (DIMENSIONS IN mm)					
		HEA GIRDER TYPE	Ht	Lt	L	D	ØR	O	O1	O2	Q	Q1		CODE HEAD PAIR	GIRDER TYPE	Hp	Lp	U	
3															T112I03	IPE200	200	3600	335
															T112H03	HEA220	210		345
4															T112I04	IPE240	240	4800	375
															T112H04	HEA220	210		345
5	1200	100	96	1400	1562	125	80	98	108	165	316	54	73	T112I05	IPE240	240	6000	375	
														T112H05	HEA220	210		345	
6															T112I06	IPE240	240	7000	375
															T112H06	HEA220	210		345
7															T112I07	IPE270	270	8000	405
															T112H07	HEA220	210		345
8															T115I08	IPE300	300	9000	453
															T115H08	HEA220	210		363
9	1500	120	114	1700	1862	143	80	98	108	165	316	54	84	T115I09	IPE330	330	10000	483	
														T115H09	HEA240	230		383	
10															T115I10	IPE360	360	11000	513
															T115H10	HEA260	250		403
11	1800	140	133	2000	2162	162	80	98	108	165	316	54	100	T118I11	IPE360	360	12000	532	
														T118H11	HEA260	250		422	
12															T118I12	IPE400	400	13000	572
															T118H12	HEA280	270		422

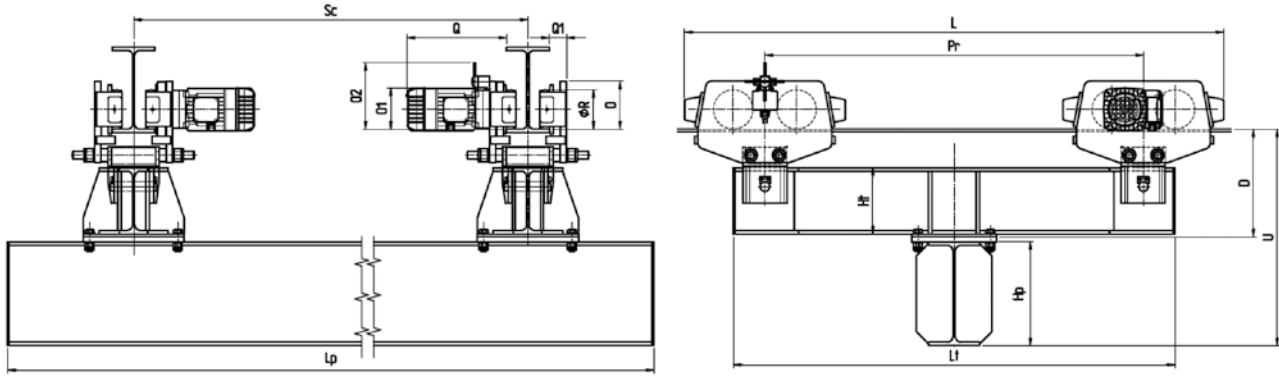
For VdC with flange greater than 220 mm, increase the dimension D and U by 60 mm with Head 1200, 42 mm with Head 1500 and 23 mm with Head 1800

SUSPENSION BRIDGE DPS2 - CAPACITY 2000 KG - HOIST DMK

Sc m	Pr	HEAD (DIMENSIONS IN mm)											Weight kg	BRIDGE (DIMENSIONS IN mm)					
		HEA GIRDER TYPE	Ht	Lt	L	D	ØR	O	O1	O2	Q	Q1		CODE HEAD PAIR	GIRDER TYPE	Hp	Lp	U	
3															T212I03	IPE270	270	3600	425
															T212H03	HEA220	210		365
4		120	114			145									T212I04	IPE330	330	4800	485
															T212H04	HEA220	210		365
5	1200			1400	1602		100	120	118	165	322	60			T212I05	IPE330	330	6000	485
															T212H05	HEA220	210		365
6															T212I06	IPE330	330	7000	504
															T212H06	HEA240	230		404
7		140	133			164									T212I07	IPE330	330	8000	504
															T212H07	HEA240	230		404
8															T215I08	IPE360	360	9000	553
															T215H08	HEA260	250		443
9	1500	160	152	1700	1902	183	100	120	118	165	322	60	123	T215I09	IPE400	400	10000	593	
														T215H09	HEA280	270		463	
10															T215I10	IPE450	450	11000	643
															T215H10	HEA300	290		483
11	1800	160	152	2000	2202	183	100	120	118	165	322	60	132	T218I11	IPE450	450	12000	643	
														T218H11	HEA320	310		503	
12															T218I12	IPE500	500	13000	693
															T218H12	HEA320	310		503

For VdC with flange greater than 220 mm, increase the dimension D and U by 37 mm with Head 1200 and girder HEA120, and 18 mm Head 1200 and girder HEA140

TECHNICAL FEATURES AND SPECIFICATIONS - WEIGHTS (SINGLE HEAD)



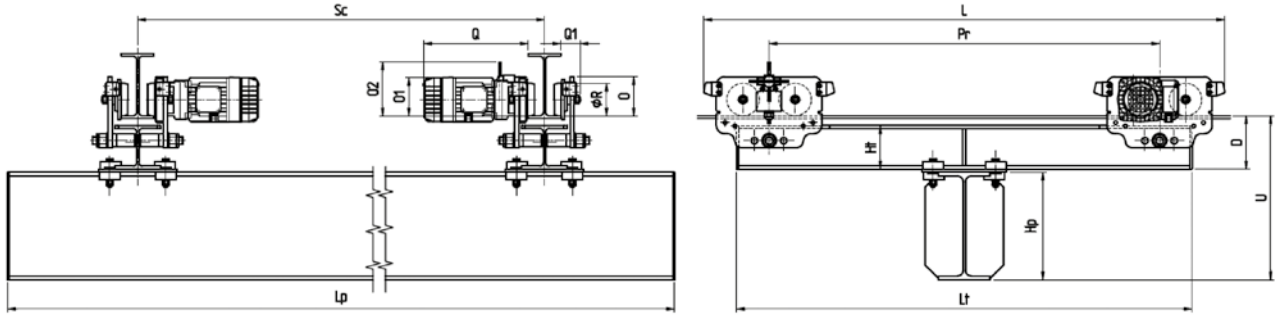
SUSPENSION BRIDGE DPS3 - CAPACITY 3200 KG - HOIST DMK

Sc m	Pr	HEAD (DIMENSIONS IN mm)											Weight kg	BRIDGE (DIMENSIONS IN mm)				
		HEA GIRDER		Lt	L	D	ØR	O	O1	O2	Q	Q1		CODE	GIRDER		Lp	U
TYPE	Ht	HEAD PAIR	TYPE										Hp					
3														T312I03	IPE270	270	3500	628
														T312H03	HEA240	230		588
4														T312I04	IPE330	330	4700	688
														T312H04	HEA240	230		588
5	1200	220	210	1400	1710	343	125	155	130	211	316	55	240	T312I05	IPE330	330	5800	688
														T312H05	HEA240	230		588
6														T312I06	IPE360	360	7000	718
														T312H06	HEA260	250		608
7														T312I07	IPE400	400	8000	758
														T312H07	HEA280	270		628
8														T315I08	IPE450	450	9000	828
														T315H08	HEA300	290		668
9	1500	240	230	1700	2010	363	125	155	130	211	316	55	272	T315I09	IPE450	450	10000	828
														T315H09	HEA320	310		688
10														T315I10	IPE500	500	11000	878
														T315H10	HEA340	330		708
11	1800	240	230	2000	2310	363	125	155	130	211	316	55	292	T318I11	IPE550	550	12000	928
														T318H11	HEA360	350		728
12														T318I12	IPE600	600	13000	978
														T318H12	HEA400	390		768

SUSPENSION BRIDGE DPS4 - CAPACITY 4000 KG - HOIST DMK

Sc m	Pr	HEAD (DIMENSIONS IN mm)											Weight kg	BRIDGE (DIMENSIONS IN mm)				
		HEA GIRDER		Lt	L	D	ØR	O	O1	O2	Q	Q1		CODE	GIRDER		Lp	U
TYPE	Ht	HEAD PAIR	TYPE										Hp					
3														T412I03	IPE330	330	3500	688
														T412H03	HEA240	230		588
4		220	210			343								T412I04	IPE330	330	4700	688
														T412H04	HEA240	230		588
5	1200			1400	1710		125	155	130	211	316	55		T412I05	IPE360	360	5800	718
														T412H05	HEA260	250		608
6														T412I06	IPE360	360	7000	738
														T412H06	HEA280	270		648
7		240	230			363								T412I07	IPE400	400	8000	778
														T412H07	HEA300	290		668
8														T415I08	IPE450	400	9000	848
														T415H08	HEA320	310		708
9	1500	260	250	1700	2010	383	125	155	130	211	316	55	288	T415I09	IPE500	500	10000	898
														T415H09	HEA340	330		728
10														T415I10	IPE550	450	11000	948
														T215H10	HEA360	350		748
11	1800	260	250	2000	2310	383	125	155	130	211	316	55	310	T418I11	IPE600	600	12000	998
														T418H11	HEA400	390		788
12														T418I12	IPE600	600	13000	998
														T418H12	HEA400	390		788

TECHNICAL FEATURES AND SPECIFICATIONS - WEIGHTS (SINGLE HEAD)



SUSPENSION BRIDGE DPS1 - CAPACITY 1000 KG - HOIST DRH1

Sc m	Pr	HEAD (DIMENSIONS IN mm)											Weight kg	BRIDGE (DIMENSIONS IN mm)						
		HEA GIRDER TYPE	Ht	Lt	L	D	ØR	O	O1	O2	Q	Q1		CODE HEAD PAIR	GIRDER TYPE	Hp	Lp	U		
3															T118J03	IPE240	240			375
															T118K03	HEA240	230	3600		365
4		100	96			125									T118J04	IPE240	240			375
															T118K04	HEA240	230	4800		365
5															T118J05	IPE240	240			375
															T118K05	HEA240	240	6000		365
6															T118J06	IPE240	240			393
															T118K06	HEA240	230	7000		383
7															T118J07	IPE270	270			423
	1800			2000	2162		80	98	108	165	316	54			T118K07	HEA240	230	8000		383
8		120	114												T118J08	IPE330	330			483
															T118K08	HEA240	230	9000		383
9															T118J09	IPE330	330			483
															T118K09	HEA240	230	10000		383
10															T118J10	IPE360	360			513
															T118K10	HEA260	250	11000		403
11															T118J11	IPE400	400			572
															T118K11	HEA280	270	12000		442
12		140	133												T118J12	IPE400	400			572
															T118K12	HEA300	290	13000		462

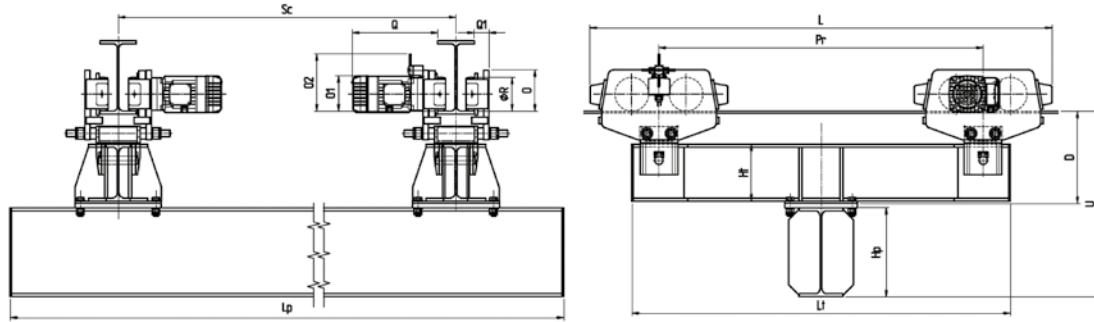
For VdC with flange greater than 220 mm, increase the dimension D and U by 60 mm with Head HEA100, 42 mm with Head HEA120 and 23 mm with Head HEA140

SUSPENSION BRIDGE DPS2 - CAPACITY 2000 KG - HOIST DRH1

Sc m	Pr	HEAD (DIMENSIONS IN mm)											Weight kg	BRIDGE (DIMENSIONS IN mm)						
		HEA GIRDER TYPE	Ht	Lt	L	D	ØR	O	O1	O2	Q	Q1		CODE HEAD PAIR	GIRDER TYPE	Hp	Lp	U		
3															T218J03	IPE300	300			455
															T218K03	HEA240	230	3600		385
4		120	114			145									T218J04	IPE330	330			485
															T218K04	HEA240	230	4800		385
5															T218J05	IPE330	330			504
															T218K05	HEA240	230	6000		404
6		140	133			164									T218J06	IPE330	330			504
															T218K06	HEA240	230	7000		404
7															T218J07	IPE330	330			504
	1800			2000	2202		100	120	118	165	322	60			T218K07	HEA260	250	8000		424
8															T218J08	IPE360	360			553
															T218K08	HEA280	270	9000		463
9															T218J09	IPE400	400			593
															T218K09	HEA300	290	10000		483
10		160	152			183									T218J10	IPE450	400			643
															T218K10	HEA300	290	11000		483
11															T218J11	IPE500	500			693
															T218K11	HEA320	310	12000		503
12															T218J12	IPE500	500			693
															T218K12	HEA340	330	13000		523

For VdC with flange greater than 220 mm, increase the dimension D and U by 37 mm with Head HEA120, and 18 mm with Head HEA140

TECHNICAL FEATURES AND SPECIFICATIONS - WEIGHTS (SINGLE HEAD)



SUSPENSION BRIDGE DPS3 - CAPACITY 3200 KG - HOIST DRH1

Sc m	Pr	HEAD (DIMENSIONS IN mm)											Weight kg	BRIDGE (DIMENSIONS IN mm)			
		HEA GIRDER TYPE	Ht	Lt	L	D	ØR	O	O1	O2	Q	Q1		CODE HEAD PAIR	GIRDER TYPE	Hp	Lp
3	1800	220	210	2000	2310	125	155	130	211	316	55	270	T318J03	IPE360	360	3500	718
													T318K03	HEA300	290		648
T318J04													IPE360	360	4700	718	
T318K04													HEA300	290		648	
T318J05													IPE360	360	5800	718	
T318K05													HEA300	290		648	
T318J06		IPE360	330	7000	718												
T318K06		HEA300	290		648												
T318J07		IPE400	400	8000	758												
T318K07		HEA300	290		648												
T318J08		IPE450	450	9000	828												
T318K08		HEA300	290		668												
T318J09	IPE450	450	10000	828													
T318K09	HEA320	310		688													
T318J10	IPE500	500	11000	878													
T318K10	HEA340	330		708													
T318J11	IPE550	550	12000	928													
T318K11	HEA360	350		728													
T318J12	IPE600	600	13000	978													
T318K12	HEA400	390		768													

For bridge spans from 3 to 10 m possibility of Head with 1500 wheel centre to centre distance but only with hoist trolley DST1 Normal (head pair code T315...)

SUSPENSION BRIDGE DPS4 - CAPACITY 4000 KG - HOIST DRH1

Sc m	Pr	HEAD (DIMENSIONS IN mm)											Weight kg	BRIDGE (DIMENSIONS IN mm)			
		HEA GIRDER TYPE	Ht	Lt	L	D	ØR	O	O1	O2	Q	Q1		CODE HEAD PAIR	GIRDER TYPE	Hp	Lp
3	1800	220	210	2000	2310	125	155	130	211	316	55	270	T418J03	IPE500	500	3500	858
													T418K03	HEA320	310		668
T418J04													IPE500	500	4700	858	
T418K04													HEA320	310		668	
T418J05													IPE500	500	5800	858	
T418K05													HEA320	310		668	
T418J06		IPE500	500	7000	878												
T418K06		HEA320	310		688												
T418J07		IPE500	500	8000	878												
T418K07		HEA320	310		688												
T418J08		IPE500	500	9000	898												
T418K08		HEA320	310		708												
T418J09	IPE500	500	10000	898													
T418K09	HEA340	330		728													
T418J10	IPE550	550	11000	948													
T218K10	HEA360	350		748													
T418J11	IPE600	600	12000	998													
T418K11	HEA400	390		788													
T418J12	IPE600	500	13000	1018													
T418K12	HEA450	440		858													

For bridge spans from 3 to 10 m possibility of Head with 1500 wheel centre to centre distance but only with hoist trolley DST1 Normal (head pair code T415...)

8 DMK SERIES ELECTRICAL CHAIN HOIST WITH DMT SERIES TROLLEY

The range: created in 4 sizes 1 - 2 - 3 - 4 with capacity from 125 to 4000 kg in FEM units 1Am - 2m at a lifting speed of 2.5 - 3.2 - 4 - 6.3 - 8 - 16 m/min or two lifting speeds of 2.5/08 - 3.2/1 - 4/1.2 - 8/2.5 m/min

Technical specifications and data for DMK chain hoists with DMT trolleys

CAPACITY (kg)	FEM GROUP	DMK TYPE	CHAIN FALLS	LIFTING SPEED (m/min)		LIFTING MOTOR POWER (kW)		DMT TROLLEY TYPE FOR HOIST								TROLLEY MOTOR POWER (kW)				CHAIN TYPE	CHAIN WEIGHT PER METER (kg/m)
				1 SPEED	2 SPEED	1 SPEED	2 SPEED	S= MANUAL-PUSH TROLLEY C= MANUAL GEAR OPERATED TROLLEY				E= ELECTRIC TROLLEY				SPEED (m/min)					
								S	C	11	14	22	7/22	11	14	22	7/22				
125	2m	154C	1	8	/	0.2	/	SM2	CM3	EM3	EM3	EM3	EM3	0.12	0.18	0.25	0.08 0.25	4X12	0.38		
	2m	132D	1	8	2.5	0.2	0.06	SM2	CM3	EM3	EM3	EM3	EM3	0.12	0.18	0.25	0.08 0.25	4X12	0.38		
	2m	232C	1	16	/	0.4	/	SM2	CM3	EM3	EM3	EM3	EM3	0.12	0.18	0.25	0.08 0.25	5x15	0.58		
250	2m	134C	1	4	/	0.2	/	SM2	CM3	EM3	EM3	EM3	EM3	0.12	0.18	0.25	0.08 0.25	4X12	0.38		
	2m	112D	1	4	1.2	0.2	0.06	SM2	CM3	EM3	EM3	EM3	EM3	0.12	0.18	0.25	0.08 0.25	4X12	0.38		
	2m	234C	1	8	/	0.4	/	SM2	CM3	EM3	EM3	EM3	EM3	0.12	0.18	0.25	0.08 0.25	5x15	0.58		
	2m	234D	1	8	2.5	0.4	0.12	SM2	CM3	EM3	EM3	EM3	EM3	0.12	0.18	0.25	0.08 0.25	5x15	0.58		
500	2m	332C	1	16	/	0.8	/	SM3	CM3	EM3	EM3	EM3	EM3	0.12	0.18	0.25	0.08 0.25	7x21	1.16		
	2m	214C	1	4	/	0.4	/	SM2	CM3	EM3	EM3	EM3	EM3	0.12	0.18	0.25	0.08 0.25	5x15	0.58		
	2m	214D	1	4	1.2	0.4	0.12	SM2	CM3	EM3	EM3	EM3	EM3	0.12	0.18	0.25	0.08 0.25	5x15	0.58		
	2m	334C	1	8	/	0.8	/	SM3	CM3	EM3	EM3	EM3	EM3	0.12	0.18	0.25	0.08 0.25	7x21	1.16		
1000	2m	334D	1	8	2.5	0.8	0.24	SM3	CM3	EM3	EM3	EM3	EM3	0.12	0.18	0.25	0.08 0.25	7x21	1.16		
	2m	432C	1	16	/	1.6	/	SM4	CM4	EM4	EM4	EM4	EM4	0.12	0.18	0.25	0.08 0.25	10x28	2.42		
	2m	314C	1	4	/	0.8	/	SM3	CM3	EM3	EM3	EM3	EM3	0.12	0.18	0.25	0.08 0.25	7x21	1.16		
	2m	314D	1	4	1.2	0.8	0.24	SM3	CM3	EM3	EM3	EM3	EM3	0.12	0.18	0.25	0.08 0.25	7x21	1.16		
1600	2m	434C	1	8	/	1.6	/	SM4	CM4	EM4	EM4	EM4	EM4	0.12	0.18	0.25	0.08 0.25	10x28	2.42		
	2m	434D	1	8	2.5	1.6	0.5	SM4	CM4	EM4	EM4	EM4	EM4	0.12	0.18	0.25	0.08 0.25	10x28	2.42		
	2m	424L	1	6.3	/	2.5	/	SM4	CM4	EM4	EM4	EM4	EM4	0.12	0.18	0.25	0.08 0.25	10x28	2.42		
	2m	424D	1	6.3	2.1	2	0.65	SM4	CM4	EM4	EM4	EM4	EM4	0.12	0.18	0.25	0.08 0.25	10x28	2.42		
2000	2m	414C	1	4	/	1.6	/	SM4	CM4	EM4	EM4	EM4	EM4	0.12	0.18	0.25	0.08 0.25	10x28	2.42		
	2m	414D	1	4	1.2	1.6	0.5	SM4	CM4	EM4	EM4	EM4	EM4	0.12	0.18	0.25	0.08 0.25	10x28	2.42		
2500	2m	434L.I	2	4	/	2.5	/	SM5	CM5	EM5	EM5	EM5	EM5	0.17	0.25	0.37	0.08 0.25	10x28	2.42		
	2m	424D.I	2	3.2	1	2	0.65	SM5	CM5	EM5	EM5	EM5	EM5	0.17	0.25	0.37	0.08 0.25	10x28	2.42		
3200	1Am	434L.J	2	4	/	2.5	/	SM5	CM5	EM5	EM5	EM5	EM5	0.17	0.25	0.37	0.08 0.25	10x28	2.42		
	1Am	424D.J	2	3.2	1	2	0.65	SM5	CM5	EM5	EM5	EM5	EM5	0.17	0.25	0.37	0.08 0.25	10x28	2.42		
	2m	424L.J	2	3.2	/	2.5	/	SM5	CM5	EM5	EM5	EM5	EM5	0.17	0.25	0.37	0.08 0.25	10x28	2.42		
4000	2m	454D.J	2	2.5	0.8	2	0.65	SM5	CM5	EM5	EM5	EM5	EM5	0.17	0.25	0.37	0.08 0.25	10x28	2.42		
	1Am	424L.K	2	3.2	/	2.5	/	SM5	CM5	EM5	EM5	EM5	EM5	0.17	0.25	0.37	0.08 0.25	10x28	2.42		
	1Am	454D.K	2	2.5	0.8	2	0.65	SM5	CM5	EM5	EM5	EM5	EM5	0.17	0.25	0.37	0.08 0.25	10x28	2.42		

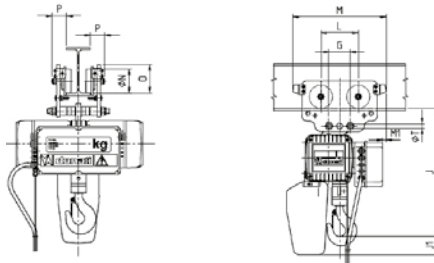
SINGLE-PHASE VERSION

CAPACITY (kg)	FEM GROUP	DMK TYPE	CHAIN FALLS	LIFTING SPEED (m/min)		LIFTING MOTOR POWER (kW)		DMT TROLLEY TYPE FOR HOIST		CHAIN TYPE	CHAIN WEIGHT PER METER (kg/m)
				1 SPEED	2 SPEED	1 SPEED	2 SPEED	S = MANUAL-PUSH TROLLEY	C = MANUAL GEAR OPERATED TROLLEY		
100	1Bm	132M	1	8	/	0.2	/	SM2	CM3	4X12	0.38
200	1Bm	112M	1	4	/	0.2	/	SM2	CM3	4X12	0.38
	1Bm	234M	1	8	/	0.4	/	SM2	CM3	5x15	0.58
400	1Bm	214M	1	4	/	0.4	/	SM2	CM3	5x15	0.58
	1Bm	334M	1	8	/	0.8	/	SM3	CM3	7x21	1.16
800	1Bm	314M	1	4	/	0.8	/	SM3	CM3	7x21	1.16

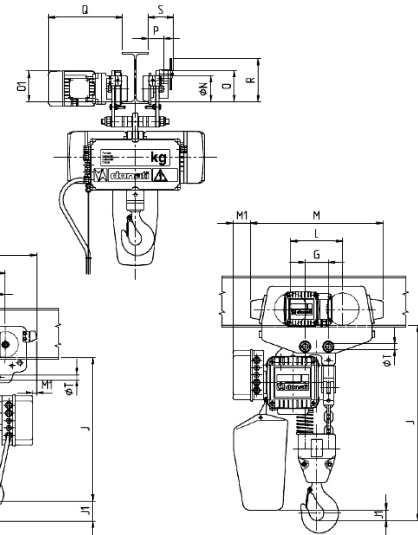
DMK ELECTRIC CHAIN HOISTS WITH DMT TROLLEYS

OVERALL DIMENSIONS – WEIGHTS

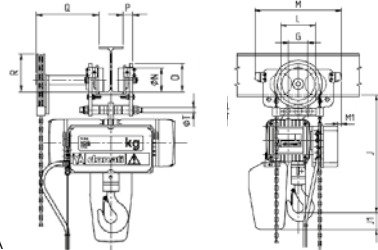
Hoist with SM hand-push trolley



Hoist with EM electric trolley



Hoist with CM manual gear operated trolley



1 chain fall version

2 chain falls version

J1 = E1 - A

DMK SIZE	CHAIN FALLS	DMT TROLLEY TYPE	*HOIST TROLLEY WEIGHT (kg)	OVERALL DIMENSIONS (mm)												
				***J	L	M	M1	ΦN	O	**O1	P	**Q	R	S	ΦT	
1	1	SM2	29	323	100	236	54	52	72	72	/	20	/	/	/	M16
	1	EM3	58	345	135	362	-10	80	98	100(108)	54	260(280)	165	90	M14	
	1	CM3	41	345	135	362	-10	80	98	/	54	240	108	/	M14	
2	1	SM2	39	360	100	236	58	52	72	/	20	/	/	/	M16	
	1	EM3	68	380	135	362	-6	80	98	100(108)	54	260(280)	165	90	M14	
	1	CM3	51	380	135	362	-6	80	98	/	54	240	108	/	M14	
3	1	SM3	62	448	135	362	-3	80	98	/	54	/	/	/	M14	
	1	EM3	85	448	135	362	-3	80	98	100(108)	54	260(280)	165	90	M14	
	1	CM3	68	448	135	362	-3	80	98	/	54	240	108	/	M14	
4	1	SM4	105	547	160	402	-15	100	120	/	60	/	/	/	M20	
	1	EM4	130	547	160	402	-15	100	120	110((118)	60	266(286)	165	96	M20	
	1	CM4	115	547	165	402	-15	100	120	/	60	264	160	/	M20	
	2	SM5	160	755	201	510	70	125	155	/	55	/	/	/	M24	
	2	EM5	190	755	201	510	70	125	155	130(130)	55	282(282)	211	110	M24	
	2	CM5	170	755	201	510	70	125	155	/	55	350	198	/	M24	

* Weight referred to 3m hook-run hoist.

** Dimensions for 2 speed trolleys in brackets.

*** SM3/EM3/CM3: for width > 220 mm up to 400 mm dimension J increases by 70 mm

*** SM4/EM4/CM4: for width > 220 mm up to 400 mm dimension J increases by 60 mm

*** SM5/EM5/CM5: for width > 220 mm up to 400 mm dimension J increases by 75 mm

TRAVEL HEADS FOR STANDING BRIDGE CRANE

3 DRH SERIES ELECTRICAL WIRE ROPE HOIST WITH DST/DRT TROLLEY

The range: created in 4 sizes 1 - 2 - 3 - 4 with capacity from 800 to 50000 kg in FEM units 1Bm -1Am - 2m - 3m at a lifting speed of 2-2.7 - 3 - 4 - 6- 8 - 12 m/min or two lifting speeds of 2/0.7-2.7/0.9 - 3/1 - 4/1.3 – 6/2 - 8/2.6 - 12/4 m/min

TECHNICAL SPECIFICATIONS AND DATA

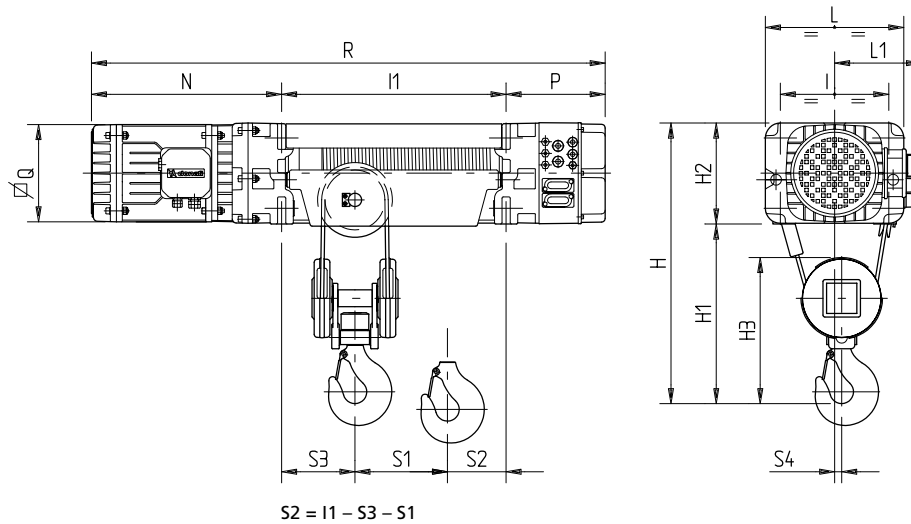
CAPACITY (kg)	HOIST FEM GROUP	DRH TYPE	DATA OF DRH ELECTRIC WIRE ROPE HOISTS										TYPE OF TROLLEY ON THE HOIST		
			SPEED AT 50 HZ (m/min)		MOTOR POWER (kW)		HOOK RUN (m) WITH DRUM (1)				ROPE (1)		MONORAIL DST - N/R	DOUBLE GIRDER DRT	
			1 SPEED	2 SPEED	1 SPEED	2 SPEED	C	N	L	X1	X2	N° OF FALLS			Ø / TYPE (mm)
800	3m	12L3•D	8	8/2,6	3	3/1	8	12	24	34	45	2/1	7B (7B)	1	1
	3m	12V3•D	12	12/4	3	3/1	8	12	24	34	45	2/1	7B (7B)	1	1
	3m	14L3•E	4	4/1,3	3	3/1	4	6	9	14	19	4/1	7B (7B)	1	1
1000	3m	14V3•E	6	6/2	3	3/1	4	6	9	14	19	4/1	7B (7B)	1	1
	2m	12L2•E	8	8/2,6	3	3/1	8	12	24	34	45	2/1	7B (7B)	1	1
	3m	12L3•E	8	8/2,6	3	3/1	8	12	24	34	45	2/1	7B (7B)	1	1
	2m	12V2•E	12	12/4	3	3/1	8	12	24	34	45	2/1	7B (7B)	1	1
	3m	22V3•E	12	12/4	5	5/1,65	10	14	26	34	43	2/1	8M (8B)	1	1
	3m	14L3•F	4	4/1,3	3	3/1	4	6	9	14	19	4/1	7B (7B)	1	1
1250	3m	14V3•F	6	6/2	3	3/1	4	6	9	14	19	4/1	7B (7B)	1	1
	1Am	12L1•F	8	8/2,6	3	3/1	8	12	24	34	45	2/1	7B (7B)	1	1
	3m	12L3•F	8	8/2,6	3	3/1	8	12	24	34	45	2/1	7M (7A)	1	1
	1Am	12V1•F	12	12/4	3	3/1	8	12	24	34	45	2/1	7B (7B)	1	1
	2m	22V2•F	12	12/4	5	5/1,65	10	14	26	34	43	2/1	9B (9B)	1	1
	3m	22V3•F	12	12/4	5	5/1,65	10	14	26	34	43	2/1	8M (8B)	1	1
1600	3m	14L3•G	4	4/1,3	3	3/1	4	6	9	14	19	4/1	7B (7B)	1	1
	3m	14V3•G	6	6/2	3	3/1	4	6	9	14	19	4/1	7B (7B)	1	1
	1Am	12L1•G	8	8/2,6	3	3/1	8	12	24	34	45	2/1	7M (7A)	1	1
	2m	12L2•G	8	8/2,6	3	3/1	8	12	24	34	45	2/1	7M (7A)	1	1
	3m	22L3•G	8	8/2,6	5	5/1,65	10	14	26	34	43	2/1	8A (8A)	1	1
	2m	22V2•G	12	12/4	5	5/1,65	10	14	26	34	43	2/1	9B (9B)	1	1
2000	3m	32V3•G	12	12/4	10	10/3,3	10	14	28	37	47	2/1	12M (12A)	2	2
	2m	14L2•H	4	4/1,3	3	3/1	4	6	9	14	19	4/1	7B (7B)	1	1
	3m	14L3•H	4	4/1,3	3	3/1	4	6	9	14	19	4/1	7B (7B)	1	1
	2m	14V2•H	6	6/2	3	3/1	4	6	9	14	19	4/1	7B (7B)	1	1
	3m	24V3•H	6	6/2	5	5/1,65	5	7	10	14	18	4/1	8M (8B)	2	1
	1Am	12L1•H	8	8/2,6	3	3/1	8	12	24	34	45	2/1	7A (7A)	1	1
	2m	22L2•H	8	8/2,6	5	5/1,65	10	14	26	34	43	2/1	9B (9B)	1	1
	3m	22L3•H	8	8/2,6	5	5/1,65	10	14	-	-	-	2/1	8A	1	1
	1Am	22V1•H	12	12/4	5	5/1,65	10	14	26	34	43	2/1	9B (9B)	1	1
	2m	32V2•H	12	12/4	10	10/3,3	10	14	28	37	47	2/1	13B (13B)	2	2
2500	3m	32V3•H	12	12/4	10	10/3,3	10	14	28	37	47	2/1	12M (12A)	2	2
	1Am	14L1•I	4	4/1,3	3	3/1	4	6	9	14	19	4/1	7B (7B)	1	1
	3m	14L3•I	4	4/1,3	3	3/1	4	6	9	14	19	4/1	7M (7A)	1	1
	1Am	14V1•I	6	6/2	3	3/1	4	6	9	14	19	4/1	7B (7B)	1	1
	2m	24V2•I	6	6/2	5	5/1,65	5	7	10	14	18	4/1	9B (9B)	2	1
	3m	24V3•I	6	6/2	5	5/1,65	5	7	10	14	18	4/1	8M (8B)	2	1
	1Am	22L1•I	8	8/2,6	5	5/1,65	10	14	26	34	43	2/1	9M (9A)	1	1
	2m	22L2•I	8	8/2,6	5	5/1,65	10	14	26	34	43	2/1	9M (9A)	1	1
	3m	32L3•I	8	8/2,6	10	10/3,3	10	14	28	37	47	2/1	12M (12B)	2	2
	2m	32V2•I	12	12/4	10	10/3,3	10	14	28	37	47	2/1	13B (13B)	2	2
3200	3m	32V3•I	12	12/4	10	10/3,3	10	14	28	37	47	2/1	12M (12A)	2	2
	1Am	14L1•J	4	4/1,3	3	3/1	4	6	9	14	19	4/1	7M (7A)	1	1
	1Bm	14V0•J	6	6/2	3,5	3,5/1,1	4	6	9	14	19	4/1	7M (7A)	1	1
	2m	14L2•J	4	4/1,3	3	3/1	4	6	9	14	19	4/1	7M (7A)	1	1
	3m	24L3•J	4	4/1,3	5	5/1,65	5	7	10	14	18	4/1	8A (8A)	2	1
	2m	24V2•J	6	6/2	5	5/1,65	5	7	10	14	18	4/1	9B (9B)	2	1
	3m	34V3•J	6	6/2	10	10/3,3	5	7	10	14	19	4/1	12M (12A)	3	2
	1Am	22L1•J	8	8/2,6	5	5/1,65	10	14	26	34	43	2/1	9A (9A)	1	1
	2m	32L2•J	8	8/2,6	10	10/3,3	10	14	28	37	47	2/1	13B (13B)	2	2
	3m	32L3•J	8	8/2,6	10	10/3,3	10	14	28	37	47	2/1	12M (12A)	2	2
4000	2m	32V2•J	12	12/4	10	10/3,3	10	14	28	37	47	2/1	13B (13B)	2	2
	3m	42V3•J	12	12/4	16	16/5,3	12	16	32	45	58	2/1	15M (15A)	3	3
	1Am	14L1•K	4	4/1,3	3	3/1	4	6	9	14	19	4/1	7A (7A)	1	1
	2m	24L2•K	4	4/1,3	5	5/1,65	5	7	10	14	18	4/1	9B (9B)	2	1
	3m	24L3•K	4	4/1,3	5	5/1,65	5	7	10	14	-	4/1	8A	2	1
	1Am	24V1•K	6	6/2	5	5/1,65	5	7	10	14	18	4/1	9B (9B)	2	1
2m	34V2•K	6	6/2	10	10/3,3	5	7	10	14	19	4/1	13B (13B)	3	2	

CAPACITY (kg)	HOIST FEM GROUP	DRH TYPE	DATA OF DRH ELECTRIC WIRE ROPE HOISTS										TYPE OF TROLLEY ON THE HOIST		
			SPEED AT 50 HZ (m/min)		MOTOR POWER (kW)		HOOK RUN (m) WITH DRUM ⁽¹⁾					ROPE ⁽¹⁾		MONORAIL DST - N/R	DOUBLE GIRDER DRT
			1 SPEED	2 SPEED	1 SPEED	2 SPEED	C	N	L	X1	X2	N° OF FALLS	Ø / TYPE (mm)		
4000	3m	34V3•K	6	6/2	10	10/3,3	5	7	10	14	19	4/1	12M (12A)	3	2
	1Am	32L1•K	8	8/2,6	10	10/3,3	10	14	28	37	47	2/1	13B (13B)	2	2
	2m	32L2•K	8	8/2,6	10	10/3,3	10	14	28	37	47	2/1	13M (13B)	2	2
	3m	32L3•K	8	8/2,6	10	10/3,3	10	14	28	37	47	2/1	12A (12A)	2	2
	1Am	32V1•K	12	12/4	10	10/3,3	10	14	28	37	47	2/1	13B (13B)	2	2
	2m	42V2•K	12	12/4	16	16/5,3	12	16	32	45	58	2/1	16B (16B)	3	3
5000	3m	42V3•K	12	12/4	16	16/5,3	12	16	32	45	58	2/1	15M (15A)	3	3
	1Am	24L1•L	4	4/1,3	5	5/1,65	5	7	10	14	18	4/1	9M (9A)	2	1
	1Bm	24V0•L	6	6/2	5,5	5,5/1,8	5	7	10	14	18	4/1	9M (9A)	2	1
	2m	24L2•L	4	4/1,3	5	5/1,65	5	7	10	14	18	4/1	9M (9A)	2	1
	3m	34L3•L	4	4/1,3	10	10/3,3	5	7	10	14	19	4/1	12M (12A)	3	2
	2m	34V2•L	6	6/2	10	10/3,3	5	7	10	14	19	4/1	13B (13B)	3	2
	3m	34V3•L	6	6/2	10	10/3,3	5	7	10	14	19	4/1	12M (12A)	3	2
	1Am	32L1•L	8	8/2,6	10	10/3,3	10	14	28	37	47	2/1	13M (13A)	2	2
	2m	32L2•L	8	8/2,6	10	10/3,3	10	14	28	37	47	2/1	13M (13A)	2	2
	3m	42L3•L	8	8/2,6	16	16/5,3	12	16	32	45	58	2/1	15M (15A)	3	3
6300	2m	42V2•L	12	12/4	16	16/5,3	12	16	32	45	58	2/1	16B (16B)	3	3
	1Am	24L1•M	4	4/1,3	5	5/1,65	5	7	10	14	18	4/1	9A (9A)	2	1
	2m	34L2•M	4	4/1,3	10	10/3,3	5	7	10	14	19	4/1	13B (13B)	3	2
	3m	34L3•M	4	4/1,3	10	10/3,3	5	7	10	14	19	4/1	12M (12A)	3	2
	2m	34V2•M	6	6/2	10	10/3,3	5	7	10	14	19	4/1	13B (13B)	3	2
	3m	44V3•M	6	6/2	16	16/5,3	6	8	11	17	24	4/1	15M (15A)	4	3
	1Am	32L1•M	8	8/2,6	10	10/3,3	10	14	28	37	47	2/1	13A (13A)	2	2
	2m	42L2•M	8	8/2,6	16	16/5,3	12	16	32	45	58	2/1	16B (16B)	3	3
	3m	42L3•M	8	8/2,6	16	16/5,3	12	16	32	45	58	2/1	15A (15A)	3	3
	1Am	42V1•M	12	12/4	16	16/5,3	12	16	32	45	58	2/1	16B (16B)	3	3
8000	1Am	34L1•N	4	4/1,3	10	10/3,3	5	7	10	14	19	4/1	13B (13B)	3	2
	2m	34L2•N	4	4/1,3	10	10/3,3	5	7	10	14	19	4/1	13M (13B)	3	2
	3m	34L3•N	4	4/1,3	10	10/3,3	5	7	10	14	19	4/1	12A (12A)	3	2
	1Am	34V1•N	6	6/2	10	10/3,3	5	7	10	14	19	4/1	13B (13B)	3	2
	2m	44V2•N	6	6/2	16	16/5,3	6	8	11	17	24	4/1	16B (16B)	4	3
	3m	44V3•N	6	6/2	16	16/5,3	6	8	11	17	24	4/1	15M (15A)	4	3
	1Am	42L1•N	8	8/2,6	16	16/5,3	12	16	32	45	58	2/1	16M (16M)	3	3
	2m	42L2•N	8	8/2,6	16	16/5,3	12	16	32	45	58	2/1	16M (16M)	3	3
	1Am	34L1•O	4	4/1,3	10	10/3,3	5	7	10	14	19	4/1	13M (13A)	3	2
	1Bm	34V0•O	6	6/2	11	11/3,6	5	7	10	14	19	4/1	13M (13A)	3	2
10000	2m	34L2•O	4	4/1,3	10	10/3,3	5	7	10	14	19	4/1	13M (13A)	3	2
	3m	44L3•O	4	4/1,3	16	16/5,3	6	8	11	17	24	4/1	15M (15A)	4	3
	2m	44V2•O	6	6/2	16	16/5,3	6	8	11	17	24	4/1	16B (16B)	4	3
	3m	©44S3•O	6	6/2	24	24/7,8	6	8	11	17	24	4/1	15M (15A)	4	3
	1Am	42L1•O	8	8/2,6	16	16/5,3	12	16	32	45	58	2/1	16A (16A)	3	3
	1Am	©42S1•O	12	12/4	24	24/7,8	12	16	32	45	58	2/1	16A (16A)	3	3
	1Am	34L1•P	4	4/1,3	10	10/3,3	5	7	10	14	19	4/1	13A (13A)	3	2
	2m	44L2•P	4	4/1,3	16	16/5,3	6	8	11	17	24	4/1	16B (16B)	4	3
	3m	44L3•P	4	4/1,3	16	16/5,3	6	8	11	17	24	4/1	15A (15A)	4	3
	1Am	44V1•P	6	6/2	16	16/5,3	6	8	11	17	24	4/1	16B (16B)	4	3
12500	2m	©44S2•P	6	6/2	24	24/7,8	6	8	11	17	24	4/1	16B (16B)	4	3
	3m	©44S3•P	6	6/2	24	24/7,8	6	8	11	17	24	4/1	15A (15A)	4	3
	2m	36L2•Q	2,7	2,7/0,9	10	10/3,3	-	4	8,8	11,5	15	6/1	13A1	-	3
	1Am	44L1•Q	4	4/1,3	16	16/5,3	6	8	11	17	24	4/1	16M (16M)	4	3
	1Bm	44V0•Q	6	6/2	18	18/5,9	6	8	11	17	24	4/1	16M (16M)	4	3
	2m	44L2•Q	4	4/1,3	16	16/5,3	6	8	11	17	24	4/1	16M (16M)	4	3
	1Am	©44S1•Q	6	6/2	24	24/7,8	6	8	11	17	24	4/1	16M (16M)	4	3
	2m	©44S2•Q	6	6/2	24	24/7,8	6	8	11	17	24	4/1	16M (16M)	4	3
	1Am	36L1•R	2,7	2,7/0,9	10	10/3,3	-	4	8,8	11,5	15	6/1	13A1	-	3
	1Am	44L1•R	4	4/1,3	16	16/5,3	6	8	11	17	24	4/1	16A (16A)	4	3
20000	1Am	©44S1•R	6	6/2	24	24/7,8	6	8	11	17	24	4/1	16A (16A)	4	3
	2m	38L2•R	2	2/0,7	10	10/3,3	-	-	6	8	10,8	8/1	13A1	-	3
	2m	44L2•R	4	4/1,3	16	16/5,3	6	8	11	17	24	4/1	16A1(16A)	4	3
	1Bm	44L0•S	4	4/1,3	18	18/5,9	6	8	11	17	24	4/1	16A1	-	3
	1Am	38L1•S	2	2/0,7	10	10/3,3	-	-	6	8	10,8	8/1	13A1(13A1)	-	3
	1Am	©44M1•S	4	4/1,3	24	24/7,8	6	8	11	17	24	4/1	16,2A	-	3
25000	2m	46L2•S	2,7	2,7/0,9	16	16/5,3	-	5	10	14	19	6/1	16A	-	3
	2m	©46S2•S	4	4/1,3	24	24/7,8	-	5	10	14	19	6/1	16A	-	3
	1Am	46L1•T	2,7	2,7/0,9	16	16/5,3	-	5	10	14	19	6/1	16A	-	3
	1Am	©46S1•T	4	4/1,3	24	24/7,8	-	5	10	14	19	6/1	16A	-	3
	2m	46L2•T	2,7	2,7/0,9	16	16/5,3	-	5	10	14	19	6/1	16A1	-	3
	1Am	48L1•U	2	2/0,7	16	16/5,3	-	3	7	10	13,5	8/1	16A	-	4
40000	1Am	©48S1•U	3	3/1	24	24/7,8	-	3	7	10	13,5	8/1	16A	-	4
	2m	48L2•U	2	2/0,7	16	16/5,3	-	3	7	10	13,5	8/1	16A1	-	4
50000	1Bm	48L0•V	2	2/0,7	18	18/5,9	-	3	7	10	13,5	8/1	16A1	-	4
	1Bm	©48S0•V	3	3/1	27	27/8,8	-	3	7	10	13,5	8/1	16A1	-	4

NOTES : ⁽¹⁾ The hoists with 2 falls with drum L, X1, X2 and hoists with 4 falls with drum X2 use anti-twist ropes.
The type of anti-twist rope is shown in brackets.
© DRH4 version with cylindrical motor.

TRAVEL HEADS FOR STANDING BRIDGE CRANE

DRH SERIES ELECTRIC WIRE ROPE HOISTS WITH 2 AND 4 ROPE FALLS IN STANDING OR SUSPENDED EXECUTION



* For DRH3 and DRH4 with L.V., dimension P becomes: DRH3 = 330; DRH4 = 360

N° OF ROPE FALLS	DHR TYPE	OVERALL DIMENSIONS (mm)										
		H	H1	H2	H3	I	L	L1	N	P	Q	S4
2/1	1	690	460	230	390	250	320	210	480	255	225	28
	2	820	550	270	445	290	370	235	525	270	260	30
	3	1090	710	380	595	370	480	290	705	205	300	40
	4	1390	920	470	750	460	600	360	855	220	340	45
	⊙4	1390	920	470	750	460	600	360	1015	220	340	45
4/1	1	650	420	230	345	250	320	210	480	255	225	15
	2	750	480	270	390	290	370	235	525	270	260	19
	3	1020	640	380	540	370	480	290	705	205	300	23
	4	1320	850	470	700	460	600	360	855	220	340	25
	⊙4	1320	850	470	700	460	600	360	1015	220	340	25

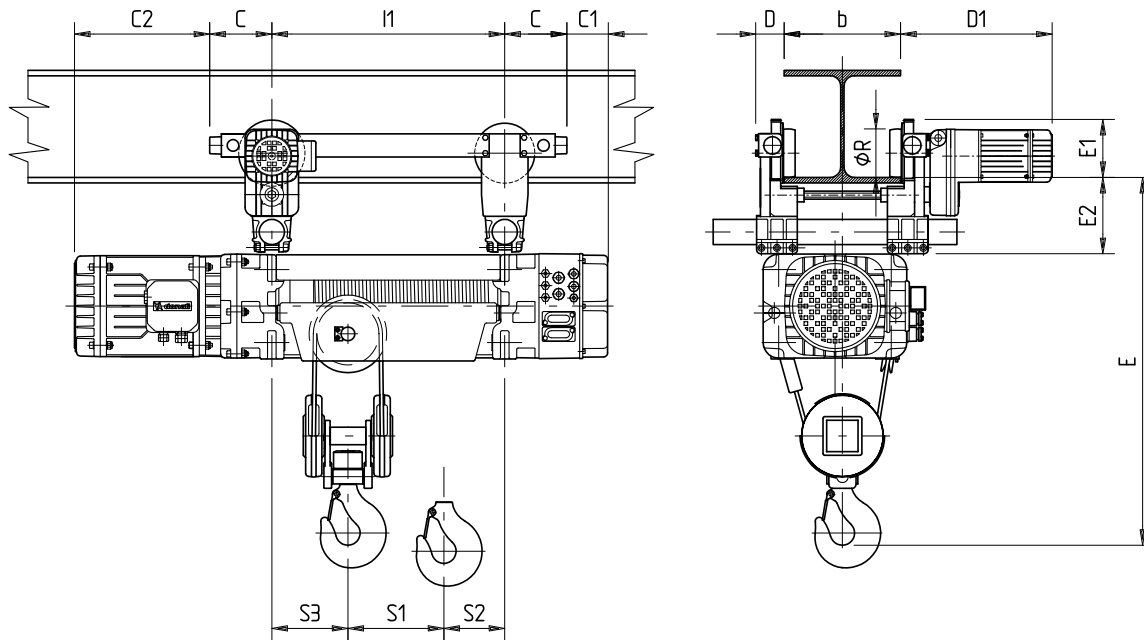
N° OF ROPE FALLS	DHR TYPE	DRUM C				DRUM N				DRUM L				DRUM X1				DRUM X2				WEIGHT (kg) WITH DRUM TYPE				
		I1	R	S1	S3	I1	R	S1	S3	I1	R	S1	S3	I1	R	S1	S3	I1	R	S1	S3	C	N	L	X1	X2
2/1	1	400	1135	125	95	515	1250	185	95	890	1625	365	95	1200	1935	515	95	1530	2265	680	95	132	141	160	180	200
	2	480	1275	160	100	600	1395	220	100	1000	1795	410	100	1260	2055	530	100	1530	2325	670	100	180	195	215	260	280
	3	600	1510	195	130	740	1650	265	130	1260	2170	515	130	1550	2460	680	130	1940	2850	860	130	460	490	565	590	620
	4	722	1797	220	170	862	1937	290	170	1422	2497	570	170	1852	2927	800	170	2352	3427	1030	170	855	890	1010	1200	1250
	⊙4	722	1957	220	170	862	2097	290	170	1422	2657	570	170	1852	3087	800	170	2352	3587	1030	170	910	945	1065	1255	1305
4/1	1	400	1135	70	150	515	1250	100	150	890	1625	160	165	1200	1935	230	165	1530	2265	300	165	140	150	170	200	220
	2	480	1275	105	180	600	1395	135	180	1000	1795	210	200	1260	2055	280	200	1530	2325	350	200	195	205	235	280	300
	3	600	1510	130	240	740	1650	160	240	1260	2170	240	270	1550	2460	280	270	1940	2850	350	270	515	540	625	650	700
	4	722	1797	150	300	862	1937	180	300	1422	2497	220	300	1852	2927	310	300	2352	3427	410	300	960	1000	1140	1350	1400
	⊙4	722	1957	150	300	862	2097	180	300	1422	2657	220	300	1852	3087	310	300	2352	3587	410	300	1015	1055	1195	1405	1455

⊙ DRH4 hoist with cylindrical motor.

TRAVEL HEADS FOR STANDING BRIDGE CRANE

DST/N MONORAIL TROLLEYS FOR DRH ELECTRIC WIRE ROPE HOISTS – 2 (2/1) AND 4 (4/1) ROPE FALL VERSIONS

DRH series electric wire rope hoists with 2 and 4 rope falls with normal trolley N



* For dimensions l1 - S1 - S2 - S3 see page 18

N° OF ROPE FALLS	DHR TYPE	TROLLEY DST N/S	OVERALL DIMENSIONS (mm)								WEIGHT (kg) WITH DRUM TYPE				
			C	C1	C2	D	D1	E	E1	E2	C	N	L	X1	X2
2/1	1	1	140	115	340	66	393	870	130	180	215	220	240	270	290
	2	1	140	130	385	66	393	1000	130	180	260	270	295	326	346
	3	2	160	45	545	75	400	1290	148	195	575	600	675	750	826
	4	3	275	-55	580	90	460	1650	191	255	1120	1155	1270	1480	1650
	©4	3	275	-55	740	90	460	1650	191	255	1175	1210	1325	1535	1705
4/1	1	1	140	115	340	66	393	830	128	180	220	230	250	280	300
	2	2	160	110	365	75	400	950	148	195	300	310	335	380	400
	3	3	275	-70	430	90	460	1280	191	255	775	810	880	996	1070
	4	4	325	-105	530	102	468	1620	237	295	1415	1455	1590	1800	1970
	©4	4	325	-105	690	102	468	1620	237	295	1470	1510	1645	1855	2025

© DRH4 hoist with cylindrical motor.

BEAM SPECIFICATIONS TABLE FOR DST/N TROLLEYS

TROLLEY	MIN. BEAM WIDTH (mm)	MAX. THICKNESS (mm)	MIN. RADIUS (mm)
DST1N	90	20	–
DST2N	119	23	–
DST3N	135	35	–
DST4N	180	41	–

Min. beam width = minimum beam width required

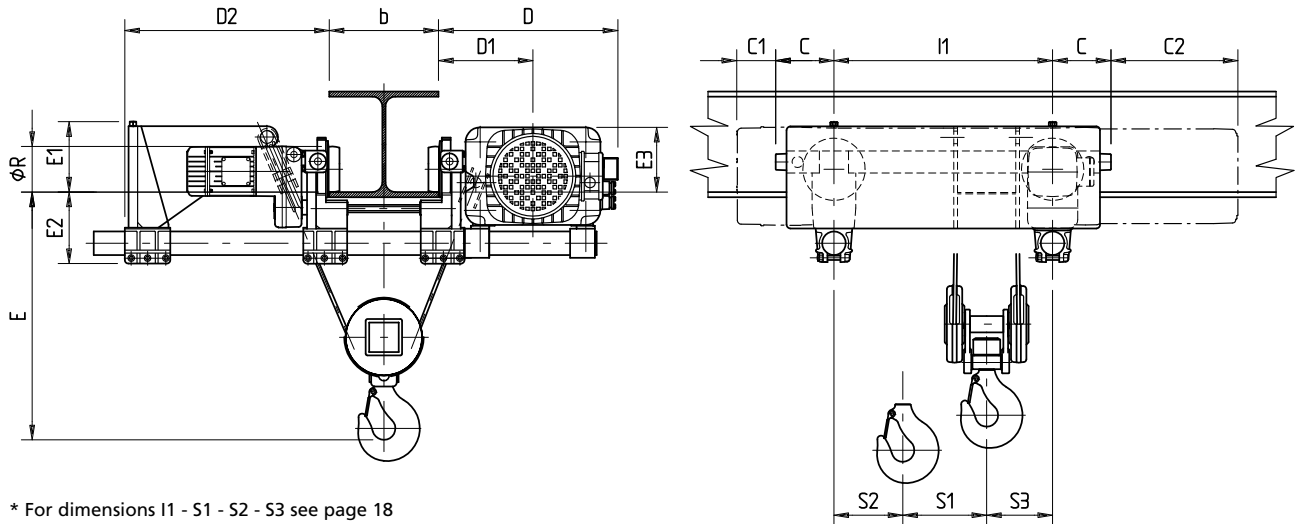
Minimum radius = minimum internal radius required for curved beams

Max. thickness = maximum beam flange thickness allowed

TRAVEL HEADS FOR STANDING BRIDGE CRANE

DST/R MONORAIL TROLLEYS FOR DRH ELECTRIC WIRE ROPE HOISTS - 2 FALL (2/1) AND 4 FALL (4/1) VERSIONS)

DRH series electric wire rope hoists with 2 and 4 rope falls with low headroom trolley R



* For dimensions l1 - S1 - S2 - S3 see page 18

N° OF ROPE FALLS	DRH TYPE	DST-R TROLLEY	OVERALL DIMENSIONS (mm)										WEIGHT (kg) WITH DRUM TYPE						
			D	D1	D2	D2 DRUM (X1-X2)	E1	E1 DRUM (X1-X2)	E2	E3	ØR	C	C1	C2	C	N	L	X1	X2
2/1	1	1	440	230	540	393	140	143	180	145	100	140	115	340	260	270	280	360	390
	2	1	485	250	590	420	200	180	180	185	100	140	130	385	360	370	395	460	490
	3	2	605	315	655	582	317	295	195	295	125	160	45	545	740	770	870	1060	1160
	4	3	755	395	677	677	352	352	255	365	160	275	-55	580	1510	1550	1700	2120	2350
	©4	3	755	395	677	677	352	352	255	365	160	275	-55	740	1565	1605	1755	2175	2405
4/1	1	1	440	230	540	393	140	143	180	145	100	140	115	340	270	280	290	370	400
	2	2	495	265	560	412	195	175	195	180	125	160	110	365	415	425	450	530	560
	3	3	625	335	622	547	286	265	255	265	160	275	-70	430	985	1005	1115	1346	1446
	4	4	760	405	630	630	350	350	295	355	200	325	-105	530	1880	1930	2120	2540	2765
	©4	4	760	405	630	630	350	350	295	355	200	325	-105	690	1935	1985	2175	2595	2820

© DRH4 hoist with cylindrical motor.

N° OF ROPE FALLS	HOOK CLEARANCE E (mm) IN RELATION TO THE WIDTH OF BEAM B (mm) AND SIZE OF THE DRH WIRE ROPE HOIST															
	b = 180 (mm)				b = 220 (mm)				b = 300 (mm)				b = 400 (mm)			
	DRH 1	DRH 2	DRH 3	DRH 4	DRH 1	DRH 2	DRH 3	DRH 4	DRH 1	DRH 2	DRH 3	DRH 4	DRH 1	DRH 2	DRH 3	DRH 4
2/1	630	640	680	830	670	680	680	830	770	780	780	880	890	900	900	1000
4/1	480	500	610	790	530	550	610	790	620	650	650	790	740	770	770	850

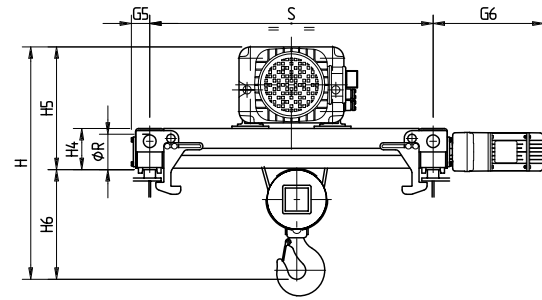
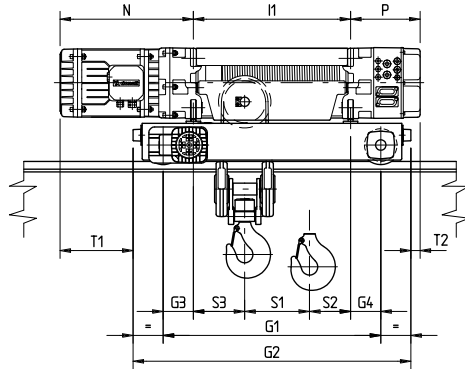
BEAM SPECIFICATIONS TABLE FOR DST/R TROLLEYS

TROLLEY	MIN. BEAM WIDTH (mm)	MAX. THICKNESS (mm)
DST1R	90	20
DST2R	119	23
DST3R	135	35
DST4R	180	41

TRAVEL HEADS FOR STANDING BRIDGE CRANE

DRT DOUBLE GIRDER TROLLEYS FOR DRH STANDING ELECTRIC ROPE HOISTS - 2 FALL (2/1) AND 4 FALL (4/1) VERSIONS

DRH series electric wire rope hoists with 2 and 4 rope falls with DRT double girder trolley, in standing configuration



$$H6 = H - H5$$

For dimensions I1 - S1 - S2 - S3 - N - P - H see page 18

(*) The standard gauge is S=1000 mm, a gauge of S = 1200 mm can be supplied upon request

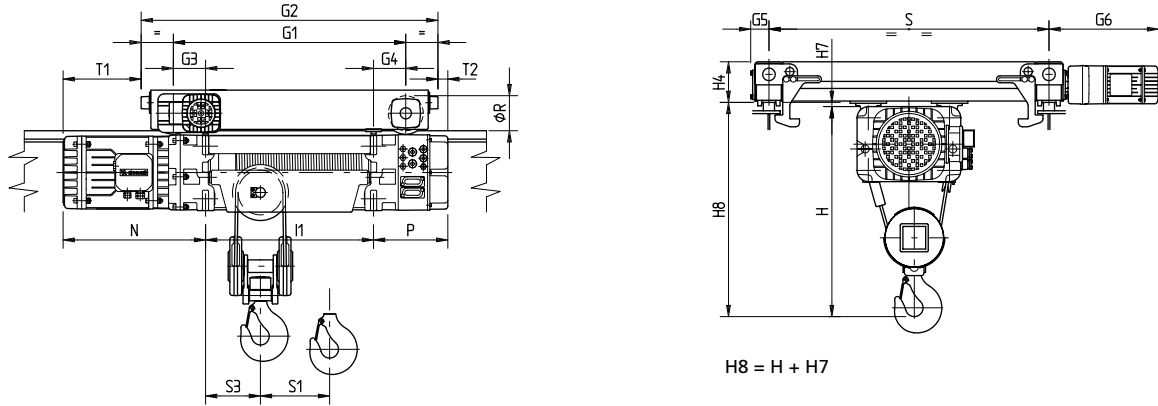
N° OF ROPE FALLS	DHR TYPE	DRT TROLLEY	GAUGE TROLLEY S (mm)	TYPE OF DRUM DRH	WEIGHT DRH + DRT (kg)	OVERALL DIMENSIONS (mm)										
						G1	G2	G3	G4	G5	G6	T1	T2	Ø R	H4	H5
2/1 4/1	1	1	1000	C	236	710	940	155	155	66	392	210	-15	125	145	391
				N	250	830	1060	157,5	157,5	66	392	207,5	-17,5	125	145	391
				L	280	1230	1460	170	170	66	392	195	-30	125	145	391
				X1	306	1500	1730	150	150	66	392	215	-10	125	145	391
				X2	336	1770	2000	120	120	66	392	245	20	125	145	39
	2	1	1000	C	296	710	940	115	115	66	392	295	40	125	145	433
				N	306	830	1060	115	115	66	392	295	40	125	145	433
				L	350	1230	1460	115	115	66	392	295	40	125	145	433
				X1	376	1500	1730	120	120	66	392	290	35	125	145	433
				X2	406	1770	2000	120	120	66	392	290	35	125	145	433
	3	2	1000	C	716	890	1202	145	145	80	461	404	-96	160	190	598
				N	750	1030	1342	145	145	80	461	404	-96	160	190	598
				L	860	1550	1862	145	145	80	461	404	-96	160	190	598
				X1	946	1840	2152	145	145	80	461	404	-96	160	190	598
				X2	1000	2230	2542	145	145	80	461	404	-96	160	190	598
	4	3	1000	C	1252	1060	1446	170	170	90	520	492	-143	200	228	698
				N	1298	1200	1586	170	170	90	520	492	-143	200	228	698
				L	1492	1760	2146	170	170	90	520	492	-143	200	228	698
				X1	1675	2210	2596	180	180	90	520	482	-153	200	228	698
				X2	1865	2710	3096	180	180	90	520	482	-153	200	228	698
©4	3	1000	C	1307	1060	1446	170	170	90	520	652	-143	200	228	698	
			N	1353	1200	1586	170	170	90	520	652	-143	200	228	698	
			L	1547	1760	2146	170	170	90	520	652	-143	200	228	698	
			X1	1730	2210	2596	180	180	90	520	642	-153	200	228	698	
			X2	1920	2710	3096	180	180	90	520	642	-153	200	228	698	
TROLLEYS DRT3 WITH HOISTS DRH4 (25 t)																
4/1	4	3	1000	C	1350	1060	1446	170	170	90	520	492	-143	200	235	727
				N	1397	1200	1586	170	170	90	520	492	-143	200	235	727
				L	1617	1760	2146	170	170	90	520	492	-143	200	235	727
				X1	1822	2210	2596	180	180	90	520	482	-153	200	235	727
				X2	2055	2710	3096	180	180	90	520	482	-153	200	235	727
	©4	3	1000	C	1405	1060	1446	170	170	90	520	652	-143	200	235	727
				N	1452	1200	1586	170	170	90	520	652	-143	200	235	727
				L	1672	1760	2146	170	170	90	520	652	-143	200	235	727
				X1	1877	2210	2596	180	180	90	520	642	-153	200	235	727
				X2	2110	2710	3096	180	180	90	520	642	-153	200	235	727

© DRH4 hoist with cylindrical motor.

TRAVEL HEADS FOR STANDING BRIDGE CRANE

DRT DOUBLE GIRDER TROLLEYS FOR DRH SUSPENDED ELECTRIC ROPE HOISTS - 2 FALL (2/1) AND 4 FALL (4/1) VERSIONS

DRH series electric wire rope hoists with 2 and 4 rope falls with DRT double girder trolley, in suspended configuration



For dimensions I1 - S1 - S2 - S3 - N - P - H see page 18

(*) The standard gauge is S = 1000 mm, a gauge of S = 1200 mm can be supplied upon request

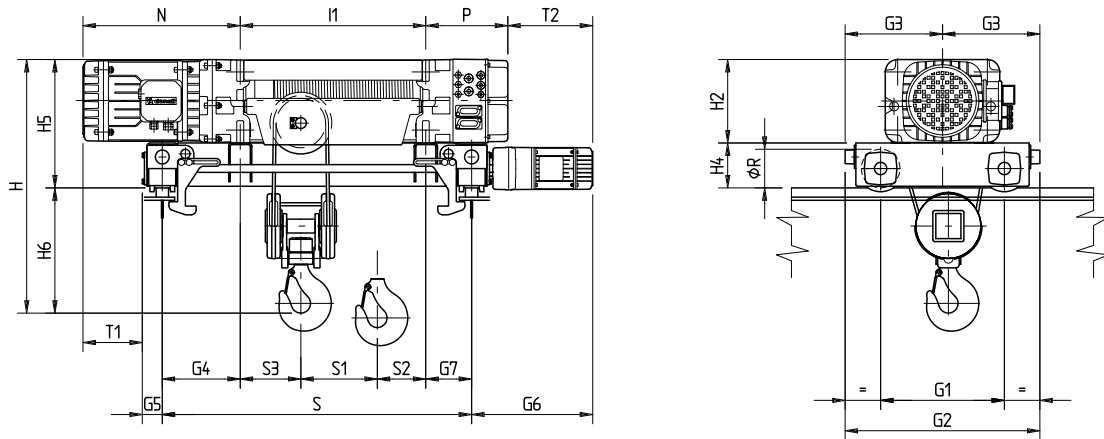
N° OF ROPE FALLS	DHR TYPE	DRT TROLLEY	GAUGE TROLLEY S (mm)	TYPE OF DRUM DRH	WEIGHT DRH + DRT (kg)	OVERALL DIMENSIONS (mm)										
						G1	G2	G3	G4	G5	G6	T1	T2	Ø R	H4	H7
2/1 4/1	1	1	1000	C	236	710	940	155	155	66	392	210	-15	125	145	13
				N	250	830	1060	157,5	157,5	66	392	207,5	-17,5	125	145	13
				L	280	1230	1460	170	170	66	392	195	-30	125	145	13
				X1	306	1500	1730	150	150	66	392	215	-10	125	145	13
	2	1	1000	C	296	710	940	115	115	66	392	295	40	125	145	15
				N	306	830	1060	115	115	66	392	295	40	125	145	15
				L	350	1230	1460	115	115	66	392	295	40	125	145	15
				X1	376	1500	1730	120	120	66	392	290	35	125	145	15
	3	2	1000	X2	406	1770	2000	120	120	66	392	290	35	125	145	15
				C	716	890	1202	145	145	80	461	404	-96	160	190	11
				N	750	1030	1342	145	145	80	461	404	-96	160	190	11
				L	860	1550	1862	145	145	80	461	404	-96	160	190	11
	4	3	1000	X1	946	1840	2152	145	145	80	461	404	-96	160	190	11
				X2	1000	2230	2542	145	145	80	461	404	-96	160	190	11
				C	1240	1060	1446	170	170	90	520	492	-143	200	228	11
				N	1286	1200	1586	170	170	90	520	492	-143	200	228	11
©4	3	1000	L	1480	1760	2146	170	170	90	520	492	-143	200	228	11	
			X1	1656	2210	2596	180	180	90	520	482	-153	200	228	11	
			X2	1846	2710	3096	180	180	90	520	482	-153	200	228	11	
			C	1295	1060	1446	170	170	90	520	652	-143	200	228	11	
©4	3	1000	N	1341	1200	1586	170	170	90	520	652	-143	200	228	11	
			L	1535	1760	2146	170	170	90	520	652	-143	200	228	11	
			X1	1711	2210	2596	180	180	90	520	642	-153	200	228	11	
			X2	1901	2710	3096	180	180	90	520	642	-153	200	228	11	

©DRH4 hoist with cylindrical motor.

TRAVEL HEADS FOR STANDING BRIDGE CRANE

DRT DOUBLE GIRDER TROLLEYS FOR DRH ELECTRIC ROPE HOISTS - TRANSVERSAL VERSION WITH 2 FALL (2/1) AND 4 FALL (4/1) VERSIONS

DRH series electric wire rope hoists with 2 and 4 rope falls with DRT double girder trolley, in transversal standing configuration



For dimensions l1 - S1 - S2 - S3 - N - P - H2 see page 18

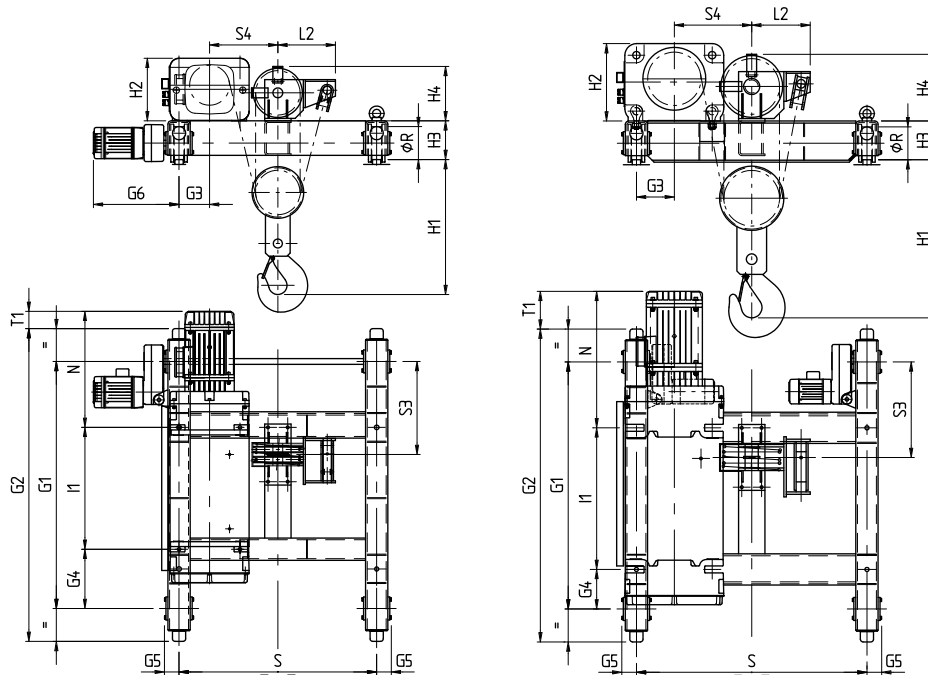
$H = H5 + H6$

N° OF ROPE FALLS	DHR TYPE	DRT TROLLEY	GAUGE TROLLEY S (mm)	TYPE OF DRUM DRH	WEIGHT DRH + DRT (kg)	OVERALL DIMENSIONS (mm)													
						G1	G2	G3	G4	G5	G6	G7	T1	T2	Ø R	H4	H5	H6	
2/1	1	1	1000	C	216	400	630	315	315	66	392	285	99	422	125	145	375	405	360
				N	226	400	630	315	300	66	392	185	114	322	125	145	375	405	360
				L	270	710	940	470	110	66	392	0	304	137	125	145	375	315	275
	2	1	1000	C	276	400	630	315	267	66	392	253	192	375	125	145	415	485	425
				N	286	400	630	315	252	66	392	148	207	270	125	145	415	485	425
				L	346	710	940	470	200	66	392	0	259	122	125	145	415	405	335
3	2	1000	C	660	500	812	406	195	80	461	205	430	461	160	190	570	630	570	
			N	686	500	812	406	170	80	461	90	455	346	160	190	570	630	570	
			L	830	890	1202	601	140	80	461	0	485	256	160	190	570	520	450	
4	3	1000	C	1190	600	986	493	140	90	520	140	625	440	200	228	698	768	722	
			N	1240	600	986	493	200	90	520	140	565	440	200	228	698	768	722	
©4	3	1000	C	1245	600	986	493	140	90	520	140	785	440	200	228	698	768	722	
			N	1295	600	986	493	200	90	520	140	725	440	200	228	698	768	722	

© DRH4 hoist with cylindrical motor.

TRAVEL HEADS FOR STANDING BRIDGE CRANE

DRT DOUBLE GIRDER TROLLEYS FOR DRH ELECTRIC ROPE HOISTS - 6 FALL (6/1) VERSION



For dimensions I1 - N - H2 see page 18

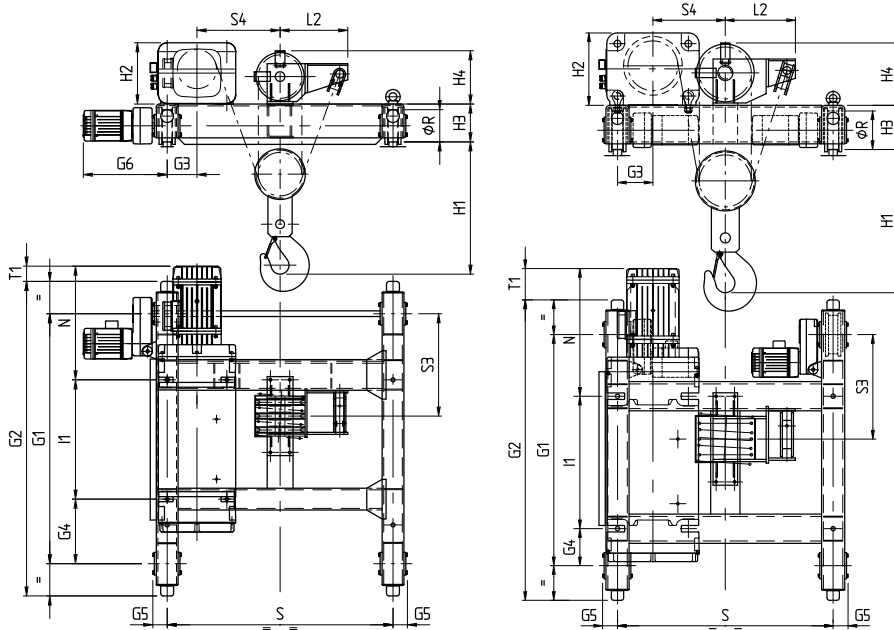
N° OF ROPE FALLS	DHR TYPE	DRT TROLLEY	GAUGE TROLLEY S (mm)	TYPE OF DRUM DRH	WEIGHT DRH + DRT (kg)	OVERALL DIMENSIONS (mm)												
						G1	G2	G3	G4	G5	G6	S3	S4	T1	H1	H3	Ø R	
6/1	3	* 3	1200	N	1120	1500	1900	185	360	90	520	565	415	105	820	235	200	
			1400		1140	1500	1900	185	360	90	520	565	515	105	820	235	200	
			1200	L	1290	2070	2470	185	400	90	520	575	415	95	820	235	200	
			1400		1310	2070	2470	185	400	90	520	575	515	95	820	235	200	
			1200	X1	1380	2500	2900	185	540	90	520	575	415	95	820	235	200	
			1400		1400	2500	2900	185	540	90	520	575	515	95	820	235	200	
	1200	X2	1510	3000	3400	185	410	90	520	575	415	95	820	235	200			
	1400		1530	3000	3400	185	410	90	520	575	515	95	820	235	200			
	6/1	4	** 3	1400	N	1800	1500	1900	230	240	90	-	580	470	255	960	235	200
				2240		2100	1500	1900	650	240	90	-	580	470	255	960	235	200
				2800	L	2400	1500	1900	930	240	90	-	580	470	255	960	235	200
				1400		2000	2070	2470	230	240	90	-	590	470	245	960	235	200
2240				X1	2300	2070	2470	650	240	90	-	590	470	245	960	235	200	
2800					2700	2070	2470	930	240	90	-	590	470	245	960	235	200	
1400		X2	2250	2500	2900	230	240	90	-	590	470	245	960	235	200			
2240			2500	2500	2900	650	240	90	-	590	470	245	960	235	200			
2800		X2	2800	2500	2900	930	240	90	-	590	470	245	960	235	200			
1400			2390	3000	3400	230	240	90	-	590	470	245	960	235	200			
2240		X2	2650	3000	3400	650	240	90	-	590	470	245	960	235	200			
2800			2950	3000	3400	930	240	90	-	590	470	245	960	235	200			
6/1	©4	** 3	1400	N	1855	1500	1900	230	240	90	-	580	470	415	960	235	200	
			2240		2155	1500	1900	650	240	90	-	580	470	415	960	235	200	
			2800	2455	1500	1900	930	240	90	-	580	470	415	960	235	200		
			1400	L	2055	2070	2470	230	240	90	-	590	470	405	960	235	200	
			2240		2355	2070	2470	650	240	90	-	590	470	405	960	235	200	
			2800	2755	2070	2470	930	240	90	-	590	470	405	960	235	200		
	1400	X1	2305	2500	2900	230	240	90	-	590	470	405	960	235	200			
	2240		2555	2500	2900	650	240	90	-	590	470	405	960	235	200			
	2800	X2	2855	2500	2900	930	240	90	-	590	470	405	960	235	200			
	1400		2445	3000	3400	230	240	90	-	590	470	405	960	235	200			
	2240	X2	2705	3000	3400	650	240	90	-	590	470	405	960	235	200			
	2800		3005	3000	3400	930	240	90	-	590	470	405	960	235	200			

©DRH4 hoist with cylindrical motor.

* The trolley is made with a single gear motor (motor 100)
 ** The trolley is made with double gear motor (motor 80)

TRAVEL HEADS FOR STANDING BRIDGE CRANE

DRT DOUBLE GIRDER TROLLEYS FOR DRH ELECTRIC ROPE HOISTS - 8 FALL (8/1) VERSION



For dimensions I1 - N - H2 see page 18

N° OF ROPE FALLS	DHR TYPE	DRT TROLLEY	GAUGE TROLLEY S (mm)	TYPE OF DRUM DRH	WEIGHT DRH + DRT (kg)	OVERALL DIMENSIONS (mm)													
						G1	G2	G3	G4	G5	G6	S3	S4	T1	H1	H3	Ø R		
3	*	3	1400	L	1400	2070	2470	185	400	90	520	635	515	95	820	235	200		
		**	3	2240	L	1480	2070	2470	605	400	90	-	635	515	95	820	235	200	
		**	3	2800	L	1730	2070	2470	885	400	90	-	635	515	95	820	235	200	
		*	3	1400	X1	1480	2500	2900	185	540	90	520	635	515	95	820	235	200	
		**	3	2240	X1	1560	2500	2900	605	540	90	-	635	515	95	820	235	200	
		**	3	2800	X1	1820	2500	2900	885	540	90	-	635	515	95	820	235	200	
	**	3	1400	X2	1580	3000	3400	185	650	90	520	635	515	95	820	235	200		
		**	3	2240	X2	1750	3000	3400	605	650	90	-	635	515	95	820	235	200	
		**	3	2800	X2	1950	3000	3400	885	650	90	-	635	515	95	820	235	200	
		4	***	4	1400	N	2000	1500	1950	230	240	97	-	678	470	230	930	287	250
				4	2240	N	2400	1500	1950	550	240	97	-	678	570	230	930	287	250
				4	2800	N	2600	1500	1950	830	240	97	-	678	570	230	930	287	250
4	1400			L	2300	2060	2510	230	240	97	-	678	470	230	930	287	250		
4	2240			L	2600	2060	2510	550	240	97	-	678	570	230	930	287	250		
4	2800			L	2800	2060	2510	830	240	97	-	678	570	230	930	287	250		
***	4		1400	X1	2500	2500	2950	230	240	97	-	688	470	220	930	287	250		
	4		2240	X1	2900	2500	2950	550	240	97	-	688	570	220	930	287	250		
	4		2800	X1	3100	2500	2950	830	240	97	-	688	570	220	930	287	250		
	4		1400	X2	2680	3000	3450	230	240	97	-	688	470	220	930	287	250		
	4		2240	X2	3030	3000	3450	550	240	97	-	688	570	220	930	287	250		
	4		2800	X2	3270	3000	3450	830	240	97	-	688	570	220	930	287	250		
8/1	***	4	1400	N	2055	1500	1950	230	240	97	-	678	470	390	930	287	250		
		4	2240	N	2455	1500	1950	550	240	97	-	678	570	390	930	287	250		
		4	2800	N	2655	1500	1950	830	240	97	-	678	570	390	930	287	250		
		4	1400	L	2355	2060	2510	230	240	97	-	678	470	390	930	287	250		
		4	2240	L	2655	2060	2510	550	240	97	-	678	570	390	930	287	250		
		4	2800	L	2855	2060	2510	830	240	97	-	678	570	390	930	287	250		
	***	4	1400	X1	2555	2500	2950	230	240	97	-	688	470	380	930	287	250		
		4	2240	X1	2955	2500	2950	550	240	97	-	688	570	380	930	287	250		
		4	2800	X1	3155	2500	2950	830	240	97	-	688	570	380	930	287	250		
		4	1400	X2	2735	3000	3450	230	240	97	-	688	470	380	930	287	250		
		4	2240	X2	3085	3000	3450	550	240	97	-	688	570	380	930	287	250		
		4	2800	X2	3325	3000	3450	830	240	97	-	688	570	380	930	287	250		

©DRH4 hoist with cylindrical motor.

* The trolley is made with a single gear motor (motor 100)

** The trolley is made with double gear motor (motor 80)

*** The trolley is made with double gear motor (motor 100).

TRAVEL HEADS FOR STANDING BRIDGE CRANE

4 - 9 ELECTRICAL CONTROL PANELS

Description of electrical system components.

1 ELECTRICAL CONTROL PANEL IN LOW VOLTAGE

AT 48 V composed of a sealed enclosure with IP 55 protection complete with lock for safely opening, line circuit breaker with door lock safety device, siren controlled by the "start-alarm" button of the pushbutton panel.

The inside of the control panel contains the transformer for low voltage supply of the control circuits, general line contactor, contactors-inverters for controlling the motor of the hoist, trolley and bridge, the terminal board for auxiliary and power circuit connections and the motor and transformer protection fuses;

The electrical panel can be equipped with rapid sockets as an option. Upon request, the electrical panel may contain "Inverters" for activating the various movements.

The wiring diagrams for the connection are placed inside it.

The wiring diagrams include:

- topographical diagrams
- functional, control and power diagrams
- terminal board diagrams
- All the utilities and cables are indicated and numbered on the components.

2 ELECTRICAL LINE WITH CABLE LOOPS SUPPLYING

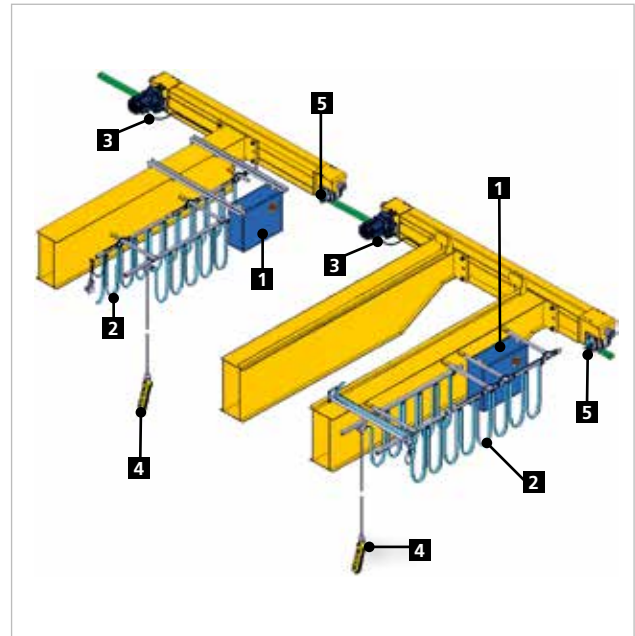
THE HOIST AND TROLLEY composed of flat shaped flexible multi pole cables, suspended on travel trolleys within a C profile in steel sheet, attached along the bridge crane beam with shelves and clasps. Upon request the electrical line can be created with rapid sockets for connection to the hoist and electrical panel (excluding bridge motors).

3 ELECTRICAL LINES TO CONNECT BRIDGE MOTORS TO THE PANEL.

Composed of round multi pole cables, attached with specific devices, along the head and weight bearing beams of the bridge crane.

4 SUSPENDED CONTROL PUSHBUTTON PANEL AND RELATIVE CABLES WITH CABLE LOOPS.

Supplied with a shock resistant thermoplastic cover and buttons to enable all



of the operating functions as well as "start-alarm" button and emergency stop red mushroom head button.

The pushbutton panel is made to slide along the weight bearing beam of the bridge crane, via a cable loop suspended on trolleys within a C profile in steel sheet.

It can be supplied radio controlled upon request.

5 ELECTRICAL LIMIT SWITCH FOR BRIDGE TRAVEL MOVEMENTS.

It acts on the low voltage auxiliary circuits.

It is a cross type and can be single or double clicking for two travel speeds, i.e. the first click generates pre-slowdown, the second the stop, based on the system configuration.

Upon requested and when envisaged, or if two cranes must operate in the same span, anti-collision systems are available.

PERFECTLY UP-TO-DATE

ARIANNA: THE SOFTWARE THAT GUIDES MANUFACTURERS IN THEIR SELECTION OF COMPONENTS TO DESIGN BRIDGE CRANES.

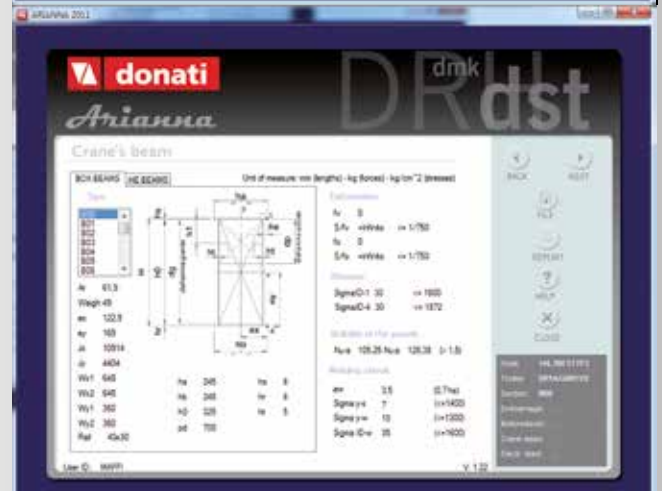
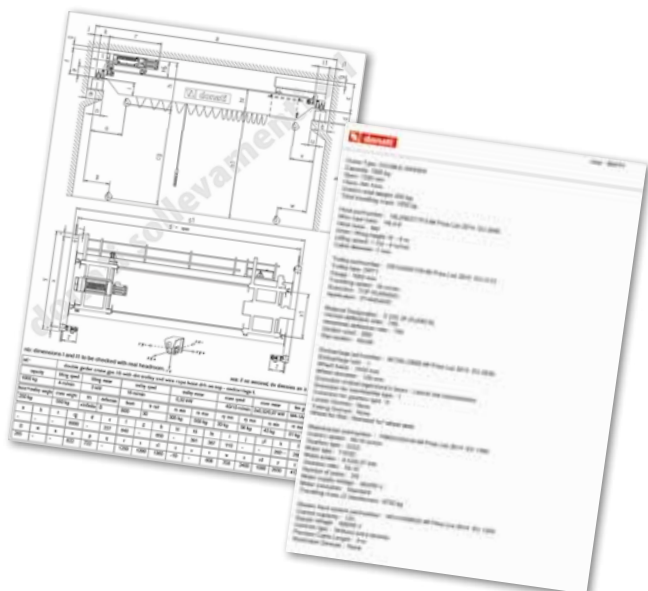
MAIN FEATURES OF THE CRANE DESIGNER SOFTWARE

Guided selection of the Appropriate Donati products for manufacturing bridge cranes, based on the structural and mechanical requirements of the intended use and environment, by entering the following inputs:

- 1) Capacity – SPAN – FEM class and configuration (Single Girder – Double Girder)
- 2) Selection of hoist type
- 3) Selection of trolley type
- 4) Type of Beam material, desired deflection (from 1/600 to 1/1000)
- 5) Selection of the Electrical Control System.

Following outputs are therefore obtained:

- Beam type (Box Beam or HE Beam) with relative dimensions and static specifications
- Endcarriage type and Gear Motor type based on speed
- Layout diagram of the installation
- List of data and codes with relative prices
- Possibility of creating a quotation directly in a word format.
- Possibility of printing the crane layout.





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