



CRANE SET

COMPONENTS

FOR BRIDGE CRANES



 **donati**
CLEVER CONVENIENCE



OVERHEAD BRIDGE CRANE COMPONENTS



RUNNING END CARRIAGES

FOR OVERHEAD BRIDGE CRANES

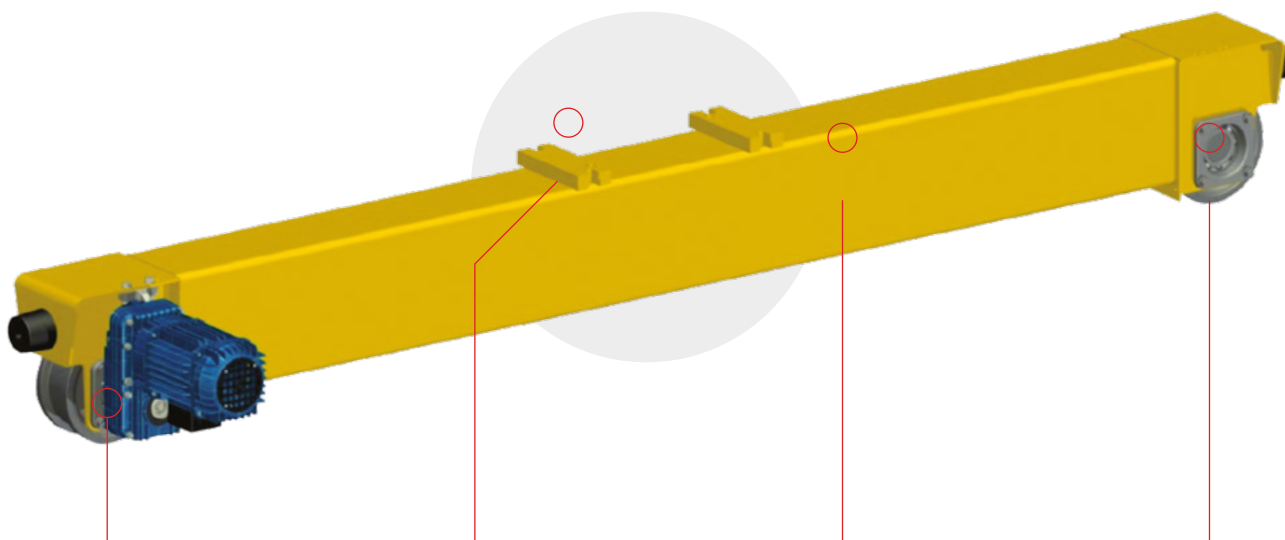
The main components of bridge crane running end carriages are:

END CARRIAGE FRAME

- The frame is made up of a rectangular tube.
- The bridge girders are mounted on the end carriage structure by a system of high-strength bolts and a pin centring system.



END CARRIAGE IN OPERATION FOR CRANE SINGLE-GIRDER



Travelling drive unit realized with DGT wheel complete with motoreducers

Connecting plates between the end carriage and the crane's girder

Tubular profile framework

Travelling drive unit consisting of DGT idler

TRAVELLING END CARRIAGES

The **travelling end carriages** are designed to allow movement along **runways** rails:

- **at a sliding speed, from 3.2 to 25 m/min;**
- **with two travel speeds, from 12.5/3.2 to 80/20 m/min.**

In execution:

- **single-girder, with load capacity of up to 20,000 kg and span up to 25 m;**
- **double-girder, with load capacity of up to 40,000 kg and span up to 27 m.**

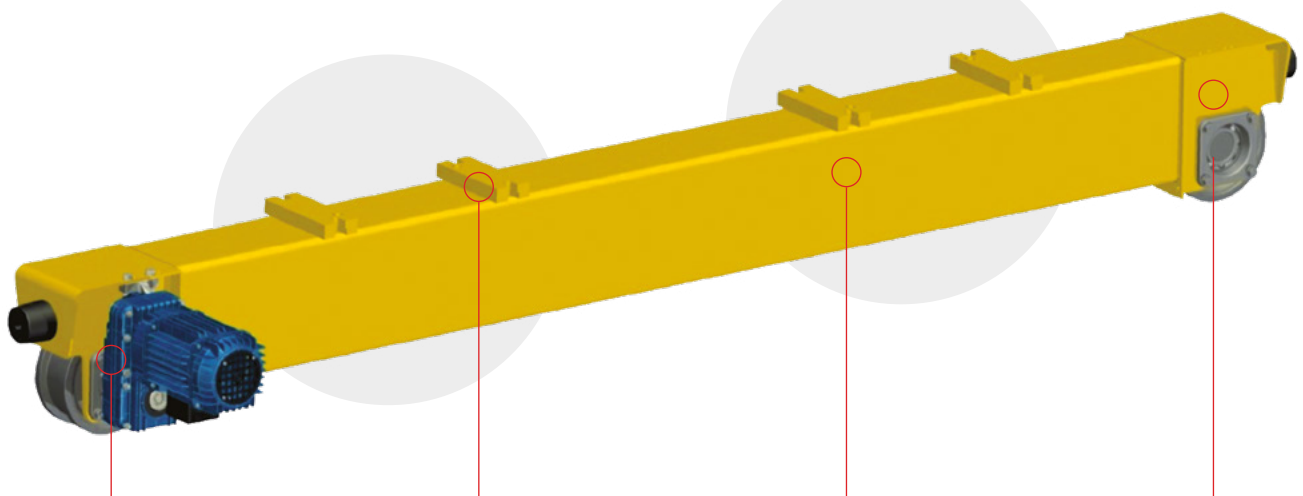
Designed and built on the principle of modular components assembled together in relation to usage requirements, they are equipped with travelling units **realized with DGT series wheel units** combined with **DGP series offset geared motoreducers**.

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

- **No. 6 sizes of DGT series drive wheel units**
(Ø 125, Ø 160, Ø 200, Ø 250, Ø 315 and Ø 400/400 R);
- **No. 4 sizes of DGP series offset geared motoreducers**
(DGP 0, DGP 1, DGP 2 and DGP 3);
- **4 sizes of self-braking motors**
(motor 71, motor 80, motor 100 and motor 112).



END CARRIAGE FOR DOUBLE-GIRDER BRIDGE CRANE



Travelling drive unit realized with DGT wheel complete with motoreducers

Connecting plates between the end carriage and the crane's girder

Tubular profile framework

Travelling drive unit consisting of DGT idler



LIMITS OF USE OF SINGLE-GIRDER END CARRIAGES BASED ON: LOAD CAPACITY - ISO/FEM UNIT - SPAN

LOAD CAPACITY (kg)	GROUP ISO / FEM	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																								
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																								
Admissible travelling mass for the end carriages of the SINGLE-GIRDER bridge crane [Travelling mass (kg) = load capacity + crane weight + trolley / hoist weight]																									
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												
8400		7400		11100		9800		15800		14800		22000		24400		19000		24800		28600					
Note: limits of use determined using Donati components (hoist, trolley, etc.) and box beam girder sized with deflection f = Span / 750																									
FOR FURTHER DIMENSIONAL / CONSTRUCTION DATA, CONSULT THE RELATED TECHNICAL SALES CATALOGUE																									



LIMITS OF USE OF DOUBLE-GIRDER END CARRIAGES BASED ON: LOAD CAPACITY - ISO/FEM UNIT - SPAN

LOAD CAPACITY (kg)	GROUP ISO / FEM	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 for the end carriages of the SINGLE-GIRDER bridge crane [Travelling mass (kg) = load capacity + crane weight + trolley / hoist weight]																											
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	3900	3900 R															
9300	10400	11500	13200	17100	18800	25000	25500	35900	46000	62000																	
Note: limits of use determined using Donati components (hoist, trolley, etc.) and box beam girder sized with deflection f = Span / 750																											
FOR FURTHER DIMENSIONAL / CONSTRUCTION DATA, CONSULT THE RELATED TECHNICAL SALES CATALOGUE																											



LIMITS OF USE OF END CARRIAGES FOR SINGLE-GIRDER AND DOUBLE-GIRDER BRIDGE CRANES, IN RELATION TO THE SPAN

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

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



LEONARDO CRANE SET CONFIGURATOR

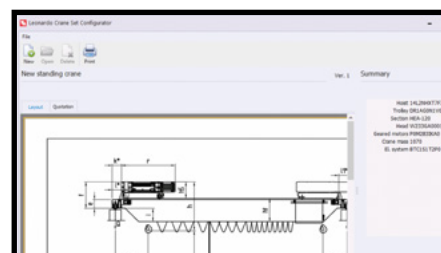
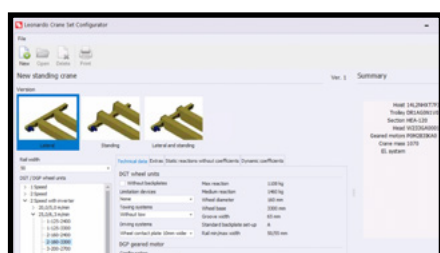
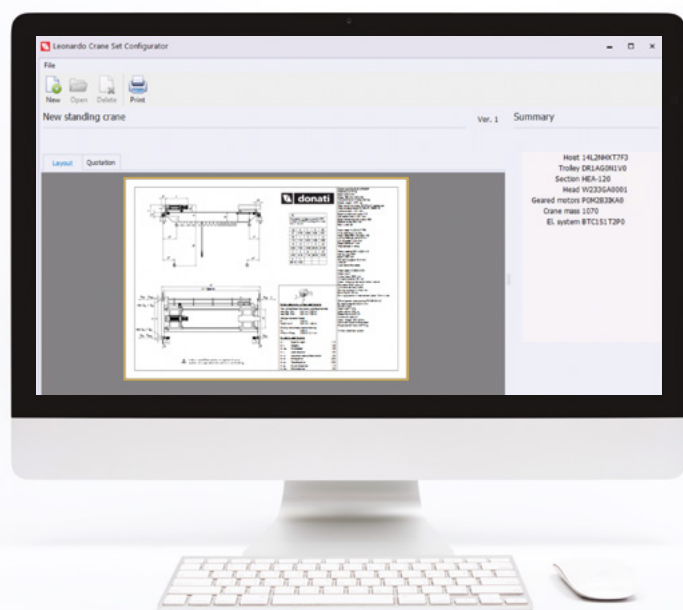
TOOL FOR SELECTING
STANDARD COMPONENTS
FOR OVERHEAD BRIDGE CRANES

A tool configurator dedicated to bridge crane manufacturers that sizes bridge structures complete with end carriages, trolleys and hoists.

The highly versatile nature of this system means it can meet the needs of the customer at the design phase, and can also provide a detailed quote, including all the components and accessories.

The Leonardo Crane Set configurator can also provide the information for calculating the **dimensions of the girders**.

Available on the Donati cranes/configurators website





UNDERSLUNG BRIDGE CRANES DPS SERIES KIT



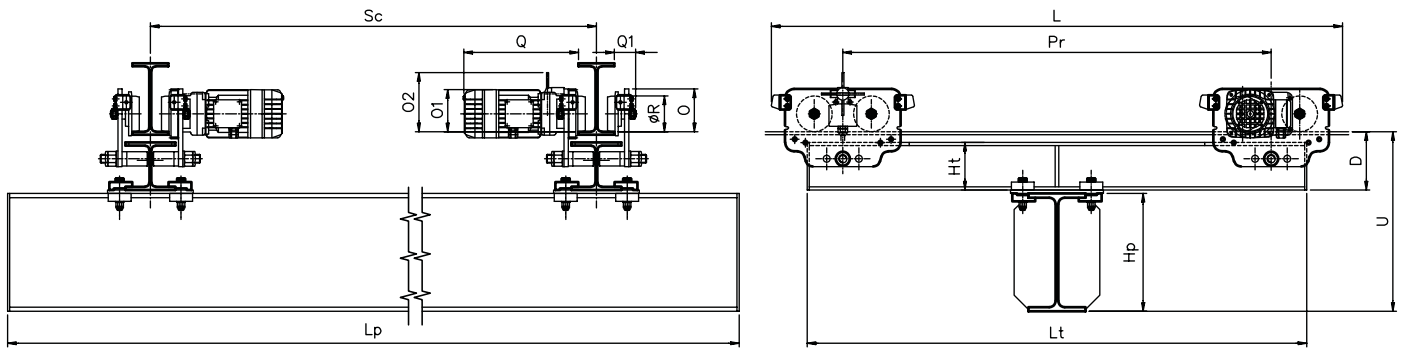
- 1. 2.** Motorised running end carriages realized with DMT series trolleys sizes 3-4-5
- 3.** DRH series wire rope hoists - DMK series chain hoists
- 4.** Electrical control equipment
- 5.** Crane's beams excluded from the scope of Donati supply

The Crane Set includes all the components needed to assemble a single-girder bridge crane. The crane's beam is not included in the KIT but the recommended and verified IPE or HEA girders are shown in the catalogue.

The catalogue provides for the use of HEA girders for the end carriages and IPE or HEA girders for the crane's beam.

The trolleys and the end carriages can have different combinations based on the load capacity and width of the runway profile; in general, for each end carriage there is a driven trolley and an idler one.

TECHNICAL FEATURES AND DATA - DIMENSIONS - WEIGHTS (SINGLE END CARRIAGE)



DPS1 UNDERSLUNG BRIDGE CRANE - CAPACITY 1000 KG - DMK HOIST

Sc m	Pr	END CARRIAGE DIMENSIONS mm											WEIGHT kg	END CARRIAGE CODE	CRANE'S BEAM DIMENSIONS mm			
		HEA GIRDER TYPE	Ht	Lt	L	D	Ø R	O	O1	O2	Q	Q1			GIRDER TYPE	Hp	Lp	U
3	1200	100	96	1400	1562	125	80	98	108	165	316	54	73	T112I03	IPE200	200	3600	335
														T112H03	HEA220	210		345
4	1200	100	96	1400	1562	125	80	98	108	165	316	54	73	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	1200	100	96	1400	1562	125	80	98	108	165	316	54	73	T112I06	IPE240	240	7000	375
														T112H06	HEA220	210		345
7	1200	100	96	1400	1562	125	80	98	108	165	316	54	73	T112I07	IPE270	270	8000	405
														T112H07	HEA220	210		345
8	1500	120	114	1700	1862	143	80	98	108	165	316	54	84	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	1500	120	114	1700	1862	143	80	98	108	165	316	54	84	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	1800	140	133	2000	2162	162	80	98	108	165	316	54	100	T118I12	IPE400	400	13000	572
														T118H12	HEA280	270		422

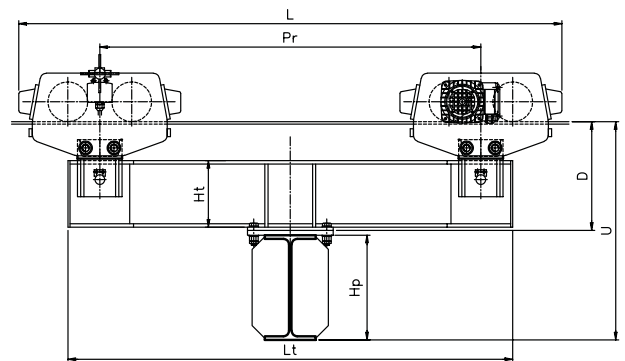
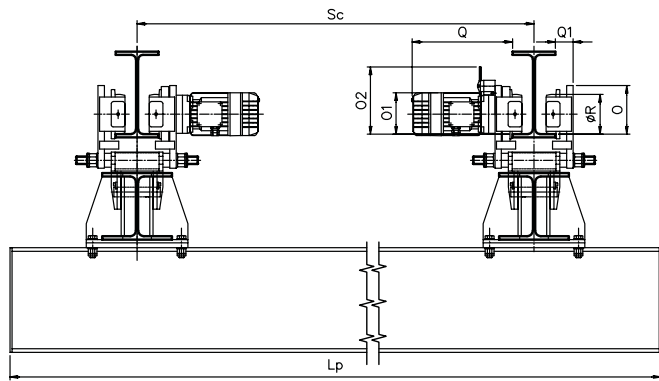
For runways with a flange greater than 220 mm, increase the D and U dimensions by 60 mm with end carriage 1200, by 42 mm with end carriage 1500 and by 23 mm with end carriage 1800

DPS2 UNDERSLUNG BRIDGE CRANE - CAPACITY 2000 KG - DMK HOIST

Sc m	Pr	END CARRIAGE DIMENSIONS mm											WEIGHT kg	END CARRIAGE CODE	CRANE'S BEAM DIMENSIONS mm			
		HEA GIRDER TYPE	Ht	Lt	L	D	Ø R	O	O1	O2	Q	Q1			GIRDER TYPE	Hp	Lp	U
3	1200	120	114	1400	1602	145	100	120	118	165	322	60	98	T212I03	IPE270	270	3600	425
														T212H03	HEA220	210		365
4	1200	120	114	1400	1602	145	100	120	118	165	322	60	98	T212I04	IPE330	330	4800	485
														T212H04	HEA220	210		365
5	1200	120	114	1400	1602	145	100	120	118	165	322	60	98	T212I05	IPE330	330	6000	485
														T212H05	HEA220	210		365
6	1200	140	133	1400	1602	164	100	120	118	165	322	60	105	T212I06	IPE330	330	7000	504
														T212H06	HEA240	230		404
7	1200	140	133	1400	1602	164	100	120	118	165	322	60	105	T212I07	IPE330	330	8000	504
														T212H07	HEA240	230		404
8	1500	160	152	1700	1902	183	100	120	118	165	322	60	123	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	1500	160	152	1700	1902	183	100	120	118	165	322	60	123	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	1800	160	152	2000	2202	183	100	120	118	165	322	60	132	T218I12	IPE500	500	13000	693
														T218H12	HEA320	310		503

For runways with a flange greater than 220 mm, increase the D and U dimensions by 37 mm with end carriage 1200 and girder HEA120 and by 18 mm with end carriage 1200 and girder HEA140

TECHNICAL FEATURES AND DATA - DIMENSIONS - WEIGHTS (SINGLE END CARRIAGE)



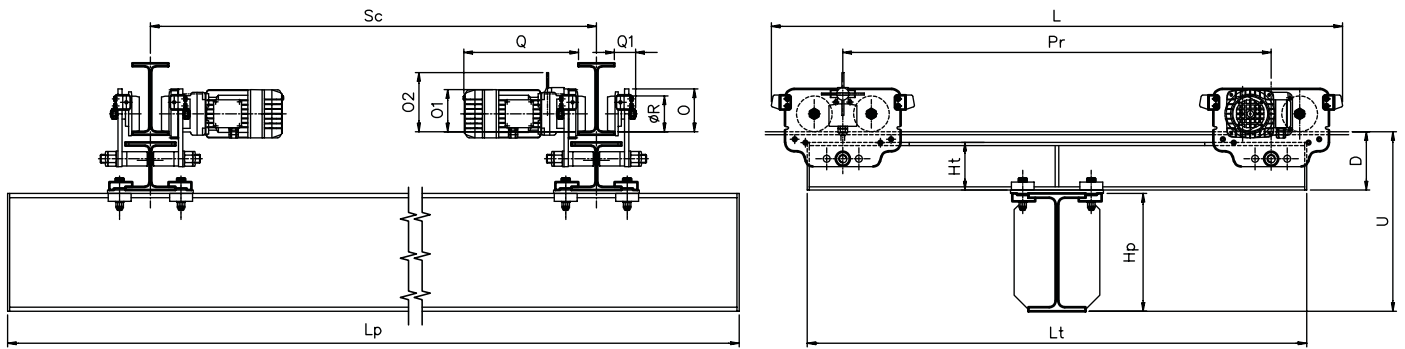
DPS3 UNDERSLUNG BRIDGE CRANE - CAPACITY 3200 KG - DMK HOIST

Sc m	Pr	END CARRIAGE DIMENSIONS mm											WEIGHT kg	END CARRIAGE CODE	CRANE'S BEAM DIMENSIONS mm			
		HEA GIRDER TYPE	Ht	Lt	L	D	Ø R	O	O1	O2	Q	Q1			GIRDER TYPE	Hp	Lp	U
3	1200	220	210	1400	1700	343	125	155	130	211	316	55	240	T312I03	IPE270	270	3500	628
														T312H03	HEA240	230		588
4	1200	220	210	1400	1700	343	125	155	130	211	316	55	240	T312I04	IPE330	330	4700	688
														T312H04	HEA240	230		588
5	1200	220	210	1400	1700	343	125	155	130	211	316	55	240	T312I05	IPE330	330	5800	688
														T312H05	HEA240	230		588
6	1200	220	210	1400	1700	343	125	155	130	211	316	55	240	T312I06	IPE360	360	7000	718
														T312H06	HEA260	250		608
7	1200	220	210	1400	1700	343	125	155	130	211	316	55	240	T312I07	IPE400	400	8000	758
														T312H07	HEA280	270		628
8	1500	240	230	1700	2010	363	125	155	130	211	316	55	272	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	1500	240	230	1700	2010	363	125	155	130	211	316	55	272	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	1800	240	230	2000	2310	363	125	155	130	211	316	55	292	T318I12	IPE600	600	13000	978
														T318H12	HEA400	390		768

DPS4 UNDERSLUNG BRIDGE CRANE - CAPACITY 4000 KG - DMK HOIST

Sc m	Pr	END CARRIAGE DIMENSIONS mm											WEIGHT kg	END CARRIAGE CODE	CRANE'S BEAM DIMENSIONS mm			
		HEA GIRDER TYPE	Ht	Lt	L	D	Ø R	O	O1	O2	Q	Q1			GIRDER TYPE	Hp	Lp	U
3	1200	220	210	1400	1710	343	125	155	130	211	316	55	240	T412I03	IPE330	330	3500	688
														T412H03	HEA240	230		588
4	1200	220	210	1400	1710	343	125	155	130	211	316	55	240	T412I04	IPE330	330	4700	688
														T412H04	HEA240	230		588
5	1200	220	210	1400	1710	343	125	155	130	211	316	55	240	T412I05	IPE360	360	5800	718
														T412H05	HEA260	250		608
6	1200	240	230	1400	1710	363	125	155	130	211	316	55	255	T412I06	IPE360	360	7000	738
														T412H06	HEA280	270		648
7	1200	240	230	1400	1710	363	125	155	130	211	316	55	255	T412I07	IPE400	400	8000	778
														T412H07	HEA300	290		668
8	1500	260	250	1700	2010	383	125	155	130	211	316	55	288	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	1500	260	250	1700	2010	383	125	155	130	211	316	55	288	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	1800	260	250	2000	2310	383	125	155	130	211	316	55	310	T418I12	IPE600	600	13000	998
														T418H12	HEA400	390		788

TECHNICAL FEATURES AND DATA - DIMENSIONS - WEIGHTS (SINGLE END CARRIAGE)



DPS1 UNDERSLUNG BRIDGE CRANE - CAPACITY 1000 KG - DRH1 HOIST

Sc m	Pr	END CARRIAGE DIMENSIONS mm												WEIGHT kg	END CARRIAGE CODE	CRANE'S BEAM DIMENSIONS			
		HEA GIRDER		Lt	L	D	Ø R	O	O1	O2	Q	Q1	GIRDER			Lp	U		
TYPE	Ht																		
3	1800	100	96	2000	2162	125	80	98	108	165	316	54	83	T118J03	IPE240	240	3600	375	
														T118K03	HEA240	230		365	
4	1800	100	96	2000	2162	125	80	98	108	165	316	54	83	T118J04	IPE240	240	4800	375	
														T118K04	HEA240	230		365	
5	1800	100	96	2000	2162	125	80	98	108	165	316	54	83	T118J05	IPE240	240	6000	375	
														T118K05	HEA240	240		365	
6	1800	120	114	2000	2162	143	80	98	108	165	316	54	90	T118J06	IPE240	240	7000	393	
														T118K06	HEA240	230		383	
7	1800	120	114	2000	2162	143	80	98	108	165	316	54	90	T118J07	IPE270	270	8000	423	
														T118K07	HEA240	230		383	
8	1800	120	114	2000	2162	143	80	98	108	165	316	54	90	T118J08	IPE330	330	9000	483	
														T118K08	HEA240	230		383	
9	1800	120	114	2000	2162	143	80	98	108	165	316	54	90	T118J09	IPE330	330	10000	483	
														T118K09	HEA240	230		383	
10	1800	120	114	2000	2162	143	80	98	108	165	316	54	90	T118J10	IPE360	360	11000	513	
														T118K10	HEA260	250		403	
11	1800	140	133	2000	2162	162	80	98	108	165	316	54	100	T118J11	IPE400	400	12000	572	
														T118K11	HEA280	270		442	
12	1800	140	133	2000	2162	162	80	98	108	165	316	54	100	T118J12	IPE400	400	13000	572	
														T118K12	HEA300	290		462	

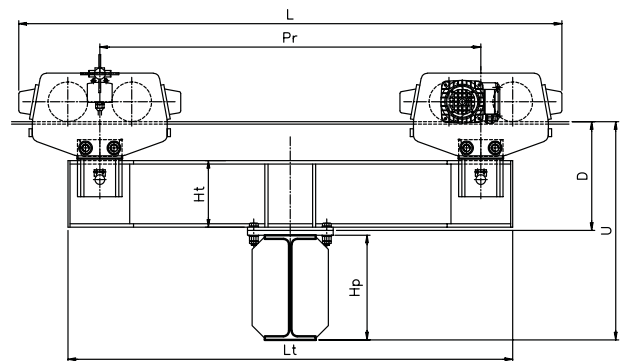
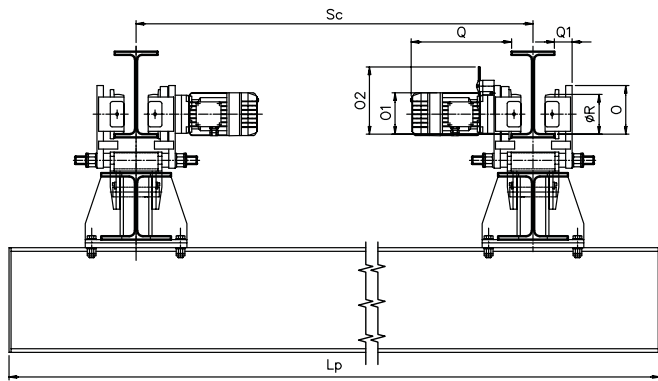
For runways with a flange greater than 220 mm, increase the D and U dimensions by 60 mm with end carriage HEA100, by 42 mm with end carriage HEA120 and by 23 mm with end carriage HEA180

DPS2 UNDERSLUNG BRIDGE CRANE - CAPACITY 2000 KG - DRH1 HOIST

Sc m	Pr	END CARRIAGE DIMENSIONS mm												WEIGHT kg	END CARRIAGE CODE	CRANE'S BEAM DIMENSIONS mm			
		HEA GIRDER		Lt	L	D	Ø R	O	O1	O2	Q	Q1	GIRDER			Lp	U		
TYPE	Ht	T	Hp																
3	1800	120	114	2000	2202	145	100	120	118	165	322	60	110	T218J03	IPE300	300	3600	455	
														T218K03	HEA240	230		385	
4	1800	120	114	2000	2202	145	100	120	118	165	322	60	110	T218J04	IPE330	330	4800	485	
														T218K04	HEA240	230		385	
5	1800	140	133	2000	2202	164	100	120	118	165	322	60	120	T218J05	IPE330	330	6000	504	
														T218K05	HEA240	230		404	
6	1800	140	133	2000	2202	164	100	120	118	165	322	60	120	T218J06	IPE330	330	7000	504	
														T218K06	HEA240	230		404	
7	1800	140	133	2000	2202	164	100	120	118	165	322	60	120	T218J07	IPE330	330	8000	504	
														T218K07	HEA260	250		424	
8	1800	160	152	2000	2202	183	100	120	118	165	322	60	132	T218J08	IPE360	360	9000	553	
														T218K08	HEA280	270		463	
9	1800	160	152	2000	2202	183	100	120	118	165	322	60	132	T218J09	IPE400	400	10000	593	
														T218K09	HEA300	290		483	
10	1800	160	152	2000	2202	183	100	120	118	165	322	60	132	T218J10	IPE450	400	11000	643	
														T218K10	HEA300	290		483	
11	1800	160	152	2000	2202	183	100	120	118	165	322	60	132	T218J11	IPE500	500	12000	693	
														T218K11	HEA320	310		503	
12	1800	160	152	2000	2202	183	100	120	118	165	322	60	132	T218J12	IPE500	500	13000	693	
														T218K12	HEA340	330		523	

For runways with a flange greater than 220 mm, increase the D and U dimensions by 37 mm with end carriage HEA120 and by 18 mm with end carriage HEA180

TECHNICAL FEATURES AND DATA - DIMENSIONS - WEIGHTS (SINGLE END CARRIAGE)



DPS3 UNDERSLUNG BRIDGE CRANE - CAPACITY 3200 KG - DRH1 HOIST

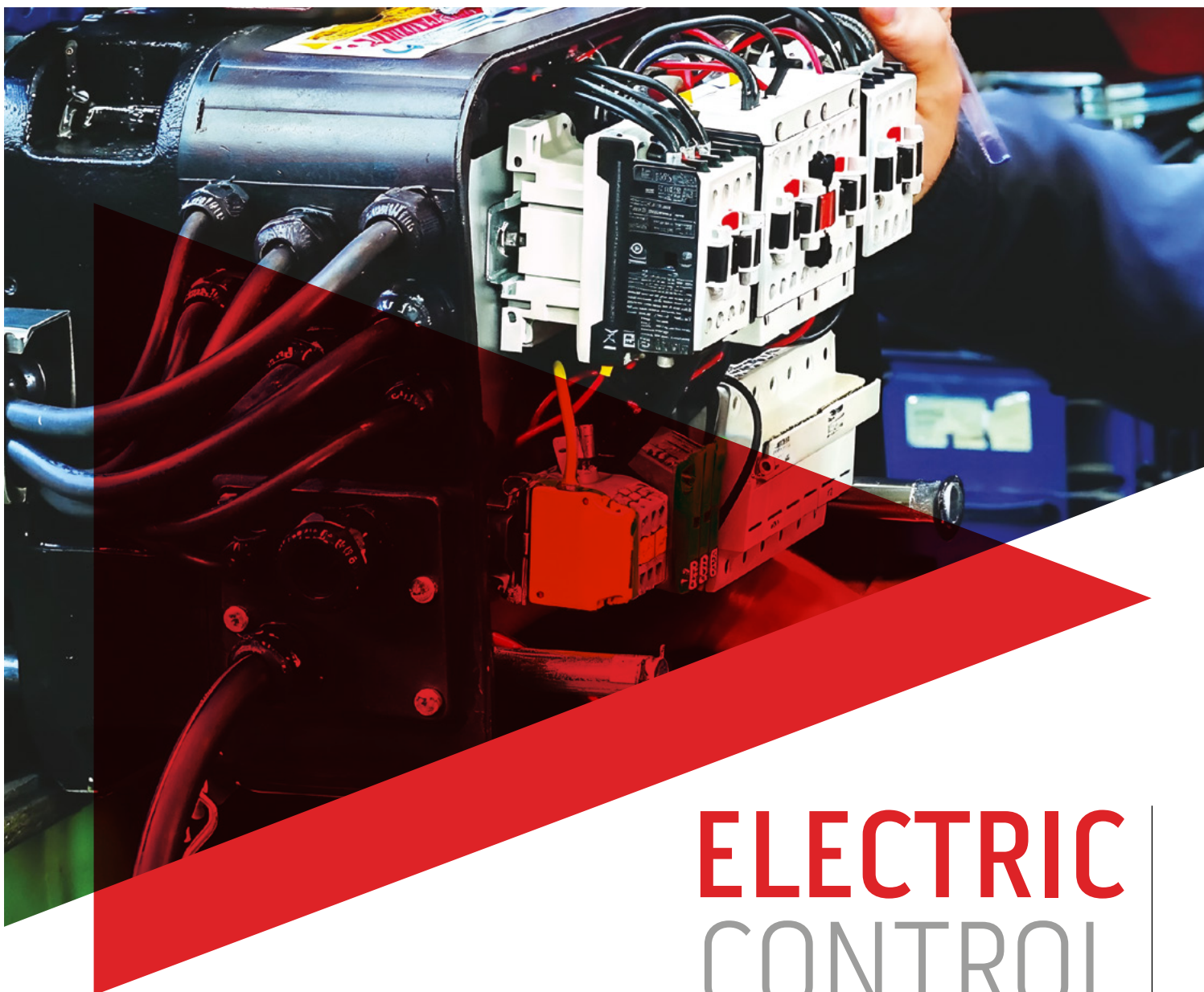
Sc m	Pr	END CARRIAGE DIMENSIONS mm												WEIGHT kg	END CARRIAGE CODE	CRANE'S BEAM DIMENSIONS mm			
		HEA GIRDER		Lt	L	D	Ø R	O	O1	O2	Q	Q1	GIRDER			Lp	U		
TYPE	Ht	TYPE	Hp																
3	1800	220	210	2000	2310	343	125	155	130	211	316	55	270	T318J03	IPE360	360	3500	718	
														T318K03	HEA300	290		648	
4	1800	220	210	2000	2310	343	125	155	130	211	316	55	270	T318J04	IPE360	360	4700	718	
														T318K04	HEA300	290		648	
5	1800	220	210	2000	2310	343	125	155	130	211	316	55	270	T318J05	IPE360	360	5800	718	
														T318K05	HEA300	290		648	
6	1800	220	210	2000	2310	343	125	155	130	211	316	55	270	T318J06	IPE360	330	7000	718	
														T318K06	HEA300	290		648	
7	1800	220	210	2000	2310	343	125	155	130	211	316	55	270	T318J07	IPE400	400	8000	758	
														T318K07	HEA300	290		648	
8	1800	240	230	2000	2310	363	125	155	130	211	316	55	293	T318J08	IPE450	450	9000	828	
														T318K08	HEA300	290		668	
9	1800	240	230	2000	2310	363	125	155	130	211	316	55	293	T318J09	IPE450	450	10000	828	
														T318K09	HEA320	310		688	
10	1800	240	230	2000	2310	363	125	155	130	211	316	55	293	T318J10	IPE500	500	11000	878	
														T318K10	HEA340	330		708	
11	1800	240	230	2000	2310	363	125	155	130	211	316	55	293	T318J11	IPE550	550	12000	928	
														T318K11	HEA360	350		728	
12	1800	240	230	2000	2310	363	125	155	130	211	316	55	293	T318J12	IPE600	600	13000	978	
														T318K12	HEA400	390		768	

For crane span from 3 to 10 m, possibility of end carriages with wheel basis 1500, but only with DST1 normal headroom trolley (end carriage code T315...)

DPS4 UNDERSLUNG BRIDGE CRANE - CAPACITY 4000 KG - DRH1 HOIST

Sc m	Pr	END CARRIAGE DIMENSIONS mm												WEIGHT kg	END CARRIAGE CODE	CRANE'S BEAM DIMENSIONS mm			
		HEA GIRDER		Lt	L	D	Ø R	O	O1	O2	Q	Q1	GIRDER			Lp	U		
TYPE	Ht	TYPE	Hp																
3	1800	220	210	2000	2310	343	125	155	130	211	316	55	270	T418J03	IPE500	500	3500	858	
														T418K03	HEA320	310		668	
4	1800	220	210	2000	2310	343	125	155	130	211	316	55	270	T418J04	IPE500	500	4700	858	
														T418K04	HEA320	310		668	
5	1800	220	210	2000	2310	343	125	155	130	211	316	55	270	T418J05	IPE500	500	5800	858	
														T418K05	HEA320	310		668	
6	1800	240	230	2000	2310	363	125	155	130	211	316	55	293	T418J06	IPE500	500	7000	878	
														T418K06	HEA320	310		688	
7	1800	240	230	2000	2310	363	125	155	130	211	316	55	293	T418J07	IPE500	500	8000	878	
														T418K07	HEA320	310		688	
8	1800	260	250	2000	2310	383	125	155	130	211	316	55	310	T418J08	IPE500	500	9000	898	
														T418K08	HEA320	310		708	
9	1800	260	250	2000	2310	383	125	155	130	211	316	55	310	T418J09	IPE500	500	10000	898	
														T418K09	HEA340	330		728	
10	1800	260	250	2000	2310	383	125	155	130	211	316	55	310	T418J10	IPE550	550	11000	948	
														T418K10	HEA360	350		748	
11	1800	260	250	2000	2310	383	125	155	130	211	316	55	310	T418J11	IPE600	600	12000	998	
														T418K11	HEA400	390		788	
12	1800	280	270	2000	2310	403	125	155	130	211	316	55	320	T418J12	IPE600	500	13000	1018	
														T418K12	HEA450	440		858	

For crane span from 3 to 10 m, possibility of end carriages with wheel basis 1500, but only with DST1 normal headroom trolley (end carriage code T415...)



ELECTRIC CONTROL EQUIPMENT

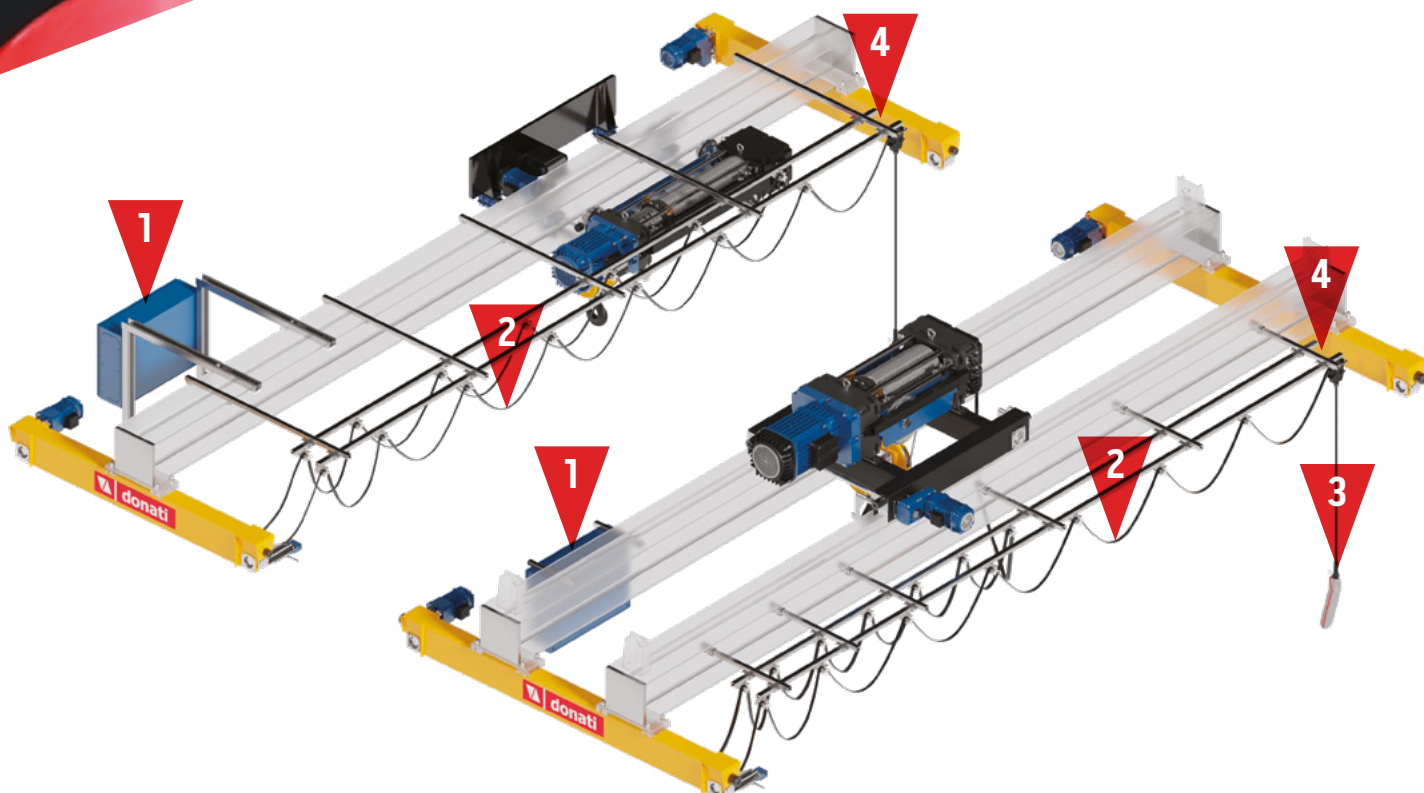
1. 48 V LOW VOLTAGE CONTROL EQUIPMENT

Consisting of a case IP55 enclosure complete with key lock for safe opening, main line on/off switch with door lock safety device, alarm controlled by the “start-alarm” button on the push button’s panel. The control panel houses the transformer for the low voltage power supply of the control circuits, the main line contactor, the contactors used to control the hoist, trolley and crane motors, the terminal board for the power and auxiliary circuits and power and the protection fuses of the rotors and transformer; there is also the option

to fit the electrical panel with fast-set connectors. Upon request, the electrical control panel can be equipped with an “Inverter” to activate the crane travel and trolley movements. The electrical wiring diagrams are supplied inside the control box.

The wiring diagrams include:

- topographic diagrams;
- functional, control and power diagrams;
- terminal block diagrams;
- All utilities and cables are indicated and numbered on the components.



2. FESTOON POWER LINE FOR POWER SUPPLY AND CONTROL OF HOIST, TROLLEY AND BRIDGE

Consisting of flexible flat-form multi-core cables, suspended on trolleys running within a C-shaped steel sheet profile, fixed along the bridge crane girder using brackets and clamps. On request, the electrical line can be made with fast connectors to be connected to the hoist and the electrical panel.

3. PUSH BUTTON PANEL AND RELATED FESTOON CABLE

Equipped with a shockproof thermoplastic case and provided with buttons for activating all movements

functions as well as the “warning alarm” button and the emergency stop button. The push-button panel is supplied with a trolley to run along the bridge crane, with a festoon cable suspended on trolleys running within a C-shaped sheet profile. “Radio Control” can be supplied as option.

4. ELECTRIC LIMIT SWITCH FOR CRANE RUNNING MOVEMENTS

Acting on low-voltage auxiliary circuits, it is a cross-type and can be supplied single or double-step where the first step generates pre-slow down and the second step generates a stop, depending on the system configuration. On request, i.e. when two or more bridge cranes are operating on the same runways, an anti-collision system is available.



DGT SERIES

WHEEL UNITS

WITH DGP SERIES
OFF-SET GEARMOTORS

DGT SERIES WHEEL UNITS

- Drive wheels Ø 125, Ø 160, Ø 200, Ø 250 and Ø 315 are made of carbon steel moulded.
- The Ø 400 and Ø 400 R wheels, are made of spheroidal cast iron.
- All wheels rotate on permanently lubricated radial ball bearings with the exception of the Ø 400 R wheel, with increased capacity, which is equipped with roller bearings.
- Available also in idler version or equipped to be made motorised by combining them with the offset motor reducer.
- In the driven version, the direct and coaxial connection between the output shaft of the offset geared motoreducer and the splined hub of the driven wheel ensures a high level of safety and operational reliability.
- The wheel is available as standard with a double-edged version and can be supplied, upon request, with different running surface in relation to the type of rail on which it will run.
- The wheels, both in the idler and drive versions, are supported and contained within an electro-welded metal structure which acts as a support box for the entire unit and as a connecting element between the end carriage framework where the wheel unit itself is intended to be assembled.

THE PLATE (SINGLE-GIRDER) OR THE PLATES (DOUBLE-GIRDER) CONNECTING THE END CARRIAGE TO THE BRIDGE CRANE GIRDER OR GIRDERS

To allow the running end carriages to connect to the bridge crane girder(s), special connection plates are available. Manufactured from sheet steel in various sizes and dimensions, they are intended to be welded to the bridge girders, whether as a box beam structure or with a I-beam profile, and are equipped with perforations to be connected to the running end carriages, lateral connection or connection on top.

The connection between the motor and the offset gear motoreducers is realized by a coupling device.



DGT idler
wheel unit



Donati Sollevamenti S.r.l.
Via Archimede, 45/47 | 20864 Agrate Brianza (MB) - Italy
Tel +39 0331 14811 - Fax +39 0331 1481880

dvo.info@donaticranes.com
www.donaticranes.com

