

# END CARRIAGES



OMIS offers a wide range of end carriages for single and double girder bridge cranes, for hook capacities up to 60 tons

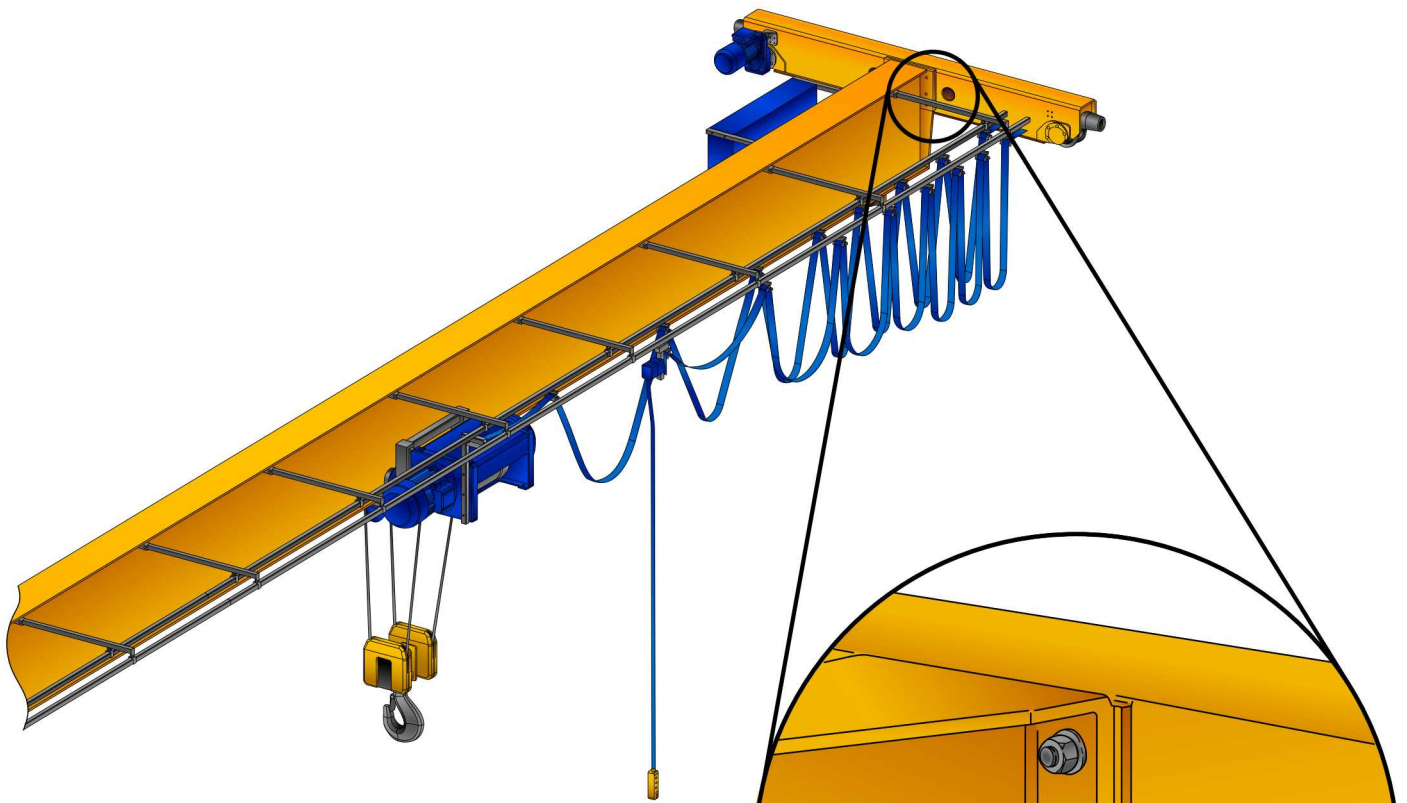
Manufactured by means of high-technology processes involving automatic welding and machining centres, OMIS end carriages feature high quality and modularity of components.

The large productive capacity allows cost effectiveness and fast delivery.

Structure is of box girder construction characterised by high resistance to bending and torsional stresses. Self-aligning bushes are fitted into the bolted connections to guarantee perfect bridge squareness. Buffers are fabricated from polyurethane resin featuring high shock-absorbing resistance.



# END CARRIAGES



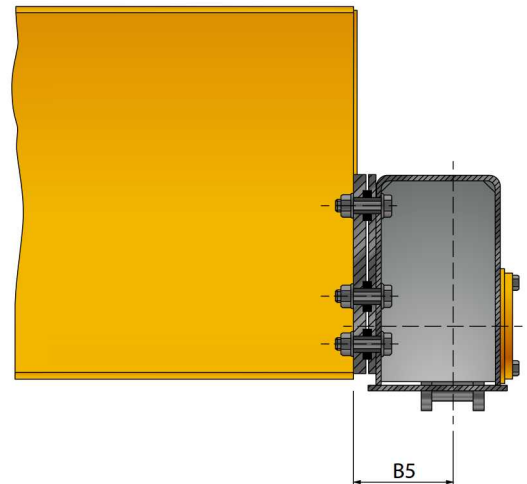
Connection with the bridge girders is much simple, as long as the right value of the tightening torque is abided by. Alignment is guaranteed by suitable self-aligning bushes.

Choosing the appropriate end carriage for the construction of a bridge crane (single or double girder) is based on determining the maximum wheel load imposed upon each wheel.

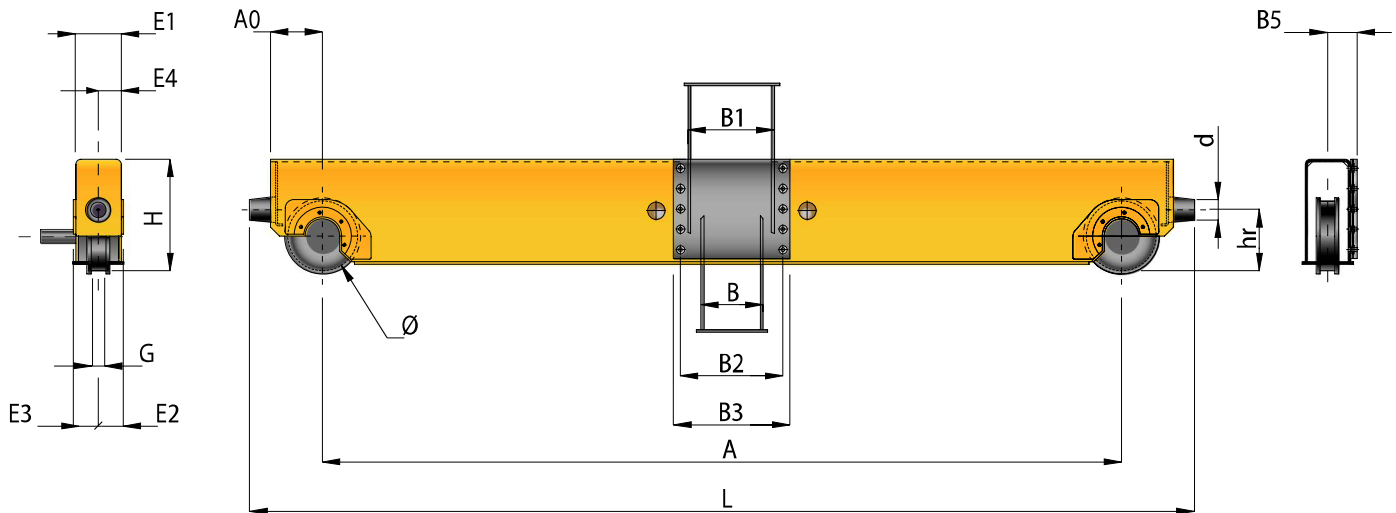
With regard to FEM classification, the tables given in the next pages show the maximum wheel load each end carriage is capable of bearing.

Bridge girders are geometrically linked with the type of end carriage, and it is therefore fundamental that dimensions B1, B2 and B3 must be complied with. OMIS supplies counter-flanges to be welded on the bridge girders.

Gearmotors are normally designed to provide a long travel speed of 40 m/min, duty group M5 (2m), but alternative solutions can be supplied in accordance with the gearmotors selection table hereinafter enclosed.



# END CARRIAGES FOR SINGLE GIRDER CRANES



CODE	DUTY GROUP			FEATURES			WEIGHT kg / pair	STANDARD GEARMOTORS	
	M4 (1am)	M5 (2m)	M6 (3m)	Ø	G	A		FOR INVERTER	FOR DUAL SPEED
	kN	kN	kN	mm	mm	mm			
T 11957	33	29	26	125	60	1500	160	SNR05080020	SFR05090250
T 11958	36	32	29	160	70	2200	280	SNR05080020	SFR05090300
T 11961	48	44	40	200		2000	420	SNR05080020	SFR05090300
T 11945	40	36	33	2350		380	SNR05080020	SFR05090300	
T 11946	44	39	36	2700		470	SNR05080020	SFR15090350	
T 11944	48	44	40	3700		650	SNR05080020	SFR15090350	
T 11948	60	54	49	2700		640	SFR15090030	SFR15090350	
T 11960	60	54	49	250		3700	950	SFR15090035	SFR15090370

- ▶ type T 11957 is for H-profile girders
- ▶ the max. wheel load is calculated based on an LT speed of 40 m/min and on a rail width of 40 mm for T11957 and a width of 50 mm for all the other end-carriages. For narrower rails and/or higher speeds the max. wheel load will be lower and must be calculated case by case
- ▶ weight is referred to two end carriages without gearmotors
- ▶ standard gearmotors are related to an LT speed of 40 m/min

CODE	A0	L	H	E1	E2	E3	E4	B	B1	B2	B3	B5	d	hr
T 11957	150	1880	248	140	88	88	70	—	—	220	320	105	100	170
T 11958	160	2680	267	152	94	94	76	180	236	315	395	120	100	180
T 11961	175	2500	375	196	105	155	73	230	280	360	440	159	100	210
T 11945	175	2850	335	194	105	155	72	180	236	315	395	158	100	210
T 11946	175	3200	335	196	105	155	73	230	280	360	440	159	100	210
T 11944	175	4200	375	196	105	155	73	290	325	405	485	159	100	210
T 11948	200	3245	375	210	110	175	80	230	280	360	440	166	100	250
T 11960	200	4245	385	210	110	175	80	290	325	405	485	166	100	250

- ▶ B and B1 are the minimum and maximum allowed girder widths
- ▶ B5 includes the counter-flanges (welded on the girder)

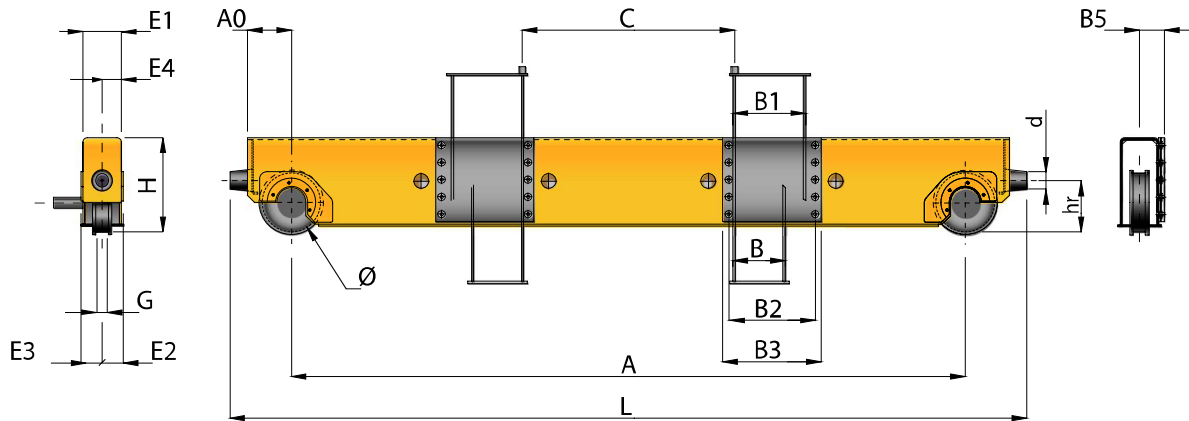
Choosing the appropriate end carriage for the construction of a bridge crane, whether single or double girder version, is based on determining the maximum wheel load imposed upon each wheel. With regard to FEM classification, the first table gives the maximum wheel load each end carriage is capable of bearing.

The bridge girders have to be manufactured in compliance with the dimensions given in the bottom table, in particular B and B1 must be carefully checked. OMIS supplies the counter-flanges to be welded on the girders.

The standard gearmotors that are coupled with each end carriage are shown in the same table, while other possible choices are given in the gearmotors table in the next pages.



# END CARRIAGES FOR DOUBLE GIRDER CRANES



CODE	DUTY GROUP			FEATURES				WEIGHT kg / pair
	M4 (1am)	M5 (2m)	M6 (3m)	Ø	G	A	C	
	kN	kN	kN	mm	mm	mm	mm	
T 11930	40	38	31	160	70	2000	1000	290
T 11933	56	45	35	200		2500	1000	440
T 11934	52	45	35	200		3150	1000	570
T 11936	73	71	60	250		2500	1000	520
T 11937	80	78	60			3150	1000	710
T 11938	92	88	60			3700	1000	940
T 11986	71	68	60	315		4600	1000	1150
T 11940	124	114	106		80	3150	1200	780
T 11941	132	128	106			3700	1200	1200
T 11942	156	148	106		90	3700	1450	1220
T 11949	159	159	106			2700	1450	710
T 11987	110	106	106			4600	1000	1460
T 11988	220	220	180		400	3700	1450	1650
T 11989	210	180	180	4600		1200	1990	
T 11990	212	212	180	4600		1450	2420	
T 11996	212	212	180	3700		2000	1650	
T 11991	270	270	240	500		4600	1450	2840
T 11992	270	270	240		4600	2000	2840	

STANDARD GEARMOTORS	
FOR INVERTER	FOR DUAL SPEED
SNR05080020	SFR05090300
SNR05080020	SFR05090300
SNR05080020	SFR15090350
SFR15090030	SFR15090350
SFR15090030	SFR15090360
SFR15090035	SFR15090370
SFR15090035	SFR15090370
SFR25090055	SFR20090400
SFR25090055	SFR20090400
SFR25090055	SOR25100700
SFR25090055	SOR25100700
SFR25090055	SOSTD112850
SFR25090055	SOSTD112850
SOR25100040	SOSTD112850
SOSTD100050	SOSTD112900
SOSTD100050	SOSTD112900
SOSTD112060	SOSTD112900

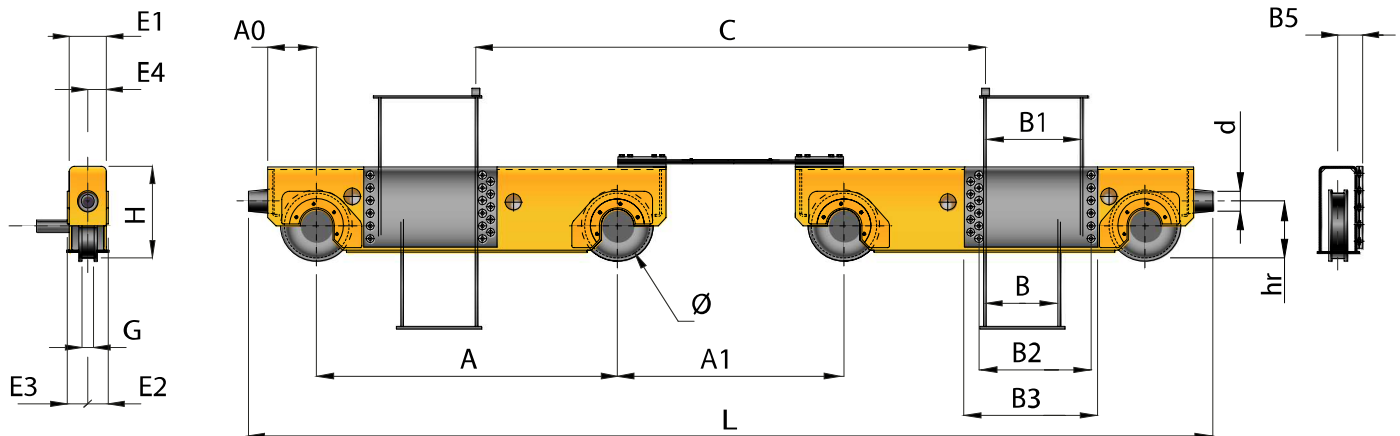
- ▶ the max. wheel load is calculated based on an LT speed of 40 m/min and on a rail width of 50 mm for wheels up to 250 mm, a rail width of 60 mm for wheel of 315 mm and a rail width of 70 mm for wheels up to 500 mm. For narrower rails and/or higher speeds the max. wheel load will be lower and must be calculated case by case
- ▶ weight is referred to two end carriages without gearmotors
- ▶ standard gearmotors are related to an LT speed of 40 m/min

CODE	A0	L	H	E1	E2	E3	E4	B	B1	B2	B3	B5	d	hr
T 11930	160	2480	267	152	94	94	76	*	*	220	320	110	100	180
T 11933	175	3000	335	192	105	155	71	210	250	335	415	157	100	210
T 11934	175	3650	335	194	105	155	72	280	320	405	485	158	100	210
T 11936	200	3045	375	202	115	165	76	250	290	375	455	162	100	250
T 11937	200	3695	375	206	115	165	78	280	320	405	485	164	100	250
T 11938	200	4245	375	210	115	165	80	330	370	455	535	166	100	250
T 11986	200	5145	385	210	115	165	80	420	460	540	620	166	100	250
T 11940	240	3878	403	226	130	180	88	280	320	405	485	174	150	310
T 11941	240	4430	403	234	130	180	92	380	420	505	585	178	150	310
T 11942	240	4428	483	230	130	180	90	380	420	505	585	176	150	310
T 11949	240	3428	403	226	130	180	88	280	320	405	485	174	150	310
T 11987	240	5328	493	230	130	180	90	420	460	540	620	176	150	310
T 11951	300	4540	550	224	165	165	112	420	460	540	620	148	150	350
T 11952	300	4540	550	224	165	165	112	380	420	505	585	148	150	350
T 11988	300	4540	550	224	165	165	112	420	460	540	620	148	150	350
T 11989	300	5440	580	224	165	165	112	470	510	590	670	148	150	350
T 11990	300	5440	640	228	165	165	114	470	510	590	670	150	150	350
T 11996	300	4540	565	224	165	165	112	420	460	540	620	148	150	350
T 11991	350	5880	700	225	165	165	112	520	560	640	720	148	200	420
T 11992	350	5880	700	225	165	165	112	520	560	640	720	148	200	420

- ▶ B and B1 are the minimum and maximum allowed girder widths
- ▶ B5 includes the counter-flanges (welded on the girder)
- (\*) end carriage for H-beams



# BOGIE TYPE END CARRIAGES



CODE	DUTY GROUP			FEATURES				WEIGHT
	M4	M5	M6	Ø	G	A	C min	kg / set
	1am	2m	3m	mm	mm	mm	mm	
T 11993	159	159	106	315	80	1600	2000	1700
T 11994	220	220	200	400	90	1850	2500	2700
T 11995	300	275	240	500		2300	3000	3500

STANDARD GEARMOTORS	
FOR INVERTER	FOR DUAL SPEED
SFR25090055	SOSTD112850
SOSTD100050	SOSTD112900
SOSTD112060	—

- ▶ The max. wheel load is calculated based on an LT speed of 40 m/min and on a rail width of 60 mm for wheels of 315 mm and a rail width of 70 mm for wheels of 400 mm and 500 mm. For narrower rails and/or higher speeds the max. wheel load will be lower and must be calculated case by case
- ▶ weight is referred to four bogies without gearmotors
- ▶ C min is the minimum trolley gauge

CODE	A0	A1 min	L min	H	E1	E2	E3	E4	B	B1	B2	B3	B5	d	hr
T 11993	240	560	4460	615	230	130	180	90	420	505	590	720	181	150	310
T 11994	300	760	5300	700	220	165	165	112	530	610	690	820	150	150	350
T 11995	325	750	6650	850	225	165	165	112	580	660	740	880	165	200	420

- ▶ B and B1 are the minimum and maximum allowed girder widths
- ▶ B5 includes the counter-flanges (welded on the girder)

