

OMIS

Om's Cranes
built around your business



In the national crane market since 1967, OMIS has become one of the most important crane manufacturer in Europe, thanks to the quality and reliability of its products.

OMIS product range includes high-level material handling components for standard bridge cranes, developed for own use and now available on the market.

The use of quality-controlled materials, the application of advanced working processes and the accurate checks on the smallest details have allowed OMIS to fulfil any customer's needs.

Therefore, OMIS can be considered the ideal partner for crane manufacturers throughout Europe.



An efficient technical service, made from qualified maintenance engineers, is at customers disposal to ensure appropriate functionality of all parts cranes are made of, from erection onward.





OMIS is the Italian leading company in the standard bridge crane market, that is for cranes characterised by a hook capacity up to 20,000 kg and bridge span up to 25 m. OMIS also manufactures special-purpose cranes of any capacity and bridge span.





OMIS product range also includes light handling systems such as jib cranes, monorails and bridge cranes. Next to the standard production, specific solutions are provided to satisfy different needs.



OMIS travelling gantry cranes are known for their sturdiness, simplicity and design.

Thanks to the constant development, OMIS gantry cranes are capable of suiting the increasing needs of all users especially in the marble industry.



- Council Directive 89/392/eec And Following Amending Directives 91/368/eec, 93/44/eec And 93/68/eec
- Low Voltage Directive 73/23/ecc
- Electromagnetic Compatibility 89/336/ecc • En - 292 Part 1 And 2 (Safety Of Electrical Equipment Of Machines)
- En - 60204-1 (Safety Of Electrical Equipment Of Machines)
- En 29001 (Warranty Of Quality)
- Din 15401 / 15402 (Lifting Hooks for Lifting Appliances)
- Din 40050 (Ip Protections)
- Fem 1001 - 3rd Edition (Lifting Appliances; Calculation)
- Fem 9761 (Overload Limit Devices)
- Fem 9755 (Safe Work Period)
- Fem 9341 (Local Stress On Beam Flanges) • Agma 2001 - B88 (Gearings)

CONDITIONS OF USE

The crane components treated in this catalogue are manufactured with regard to the following environmental conditions:

WORKING TEMPERATURE	-10 + 40°C
UMIDITY RATIO	max. 80%
ALTITUDE	max. 1000 m

The standard power supply is characterised by a three-phase voltage of 380V and a frequency of 50 Hz, with a 10% allowance.

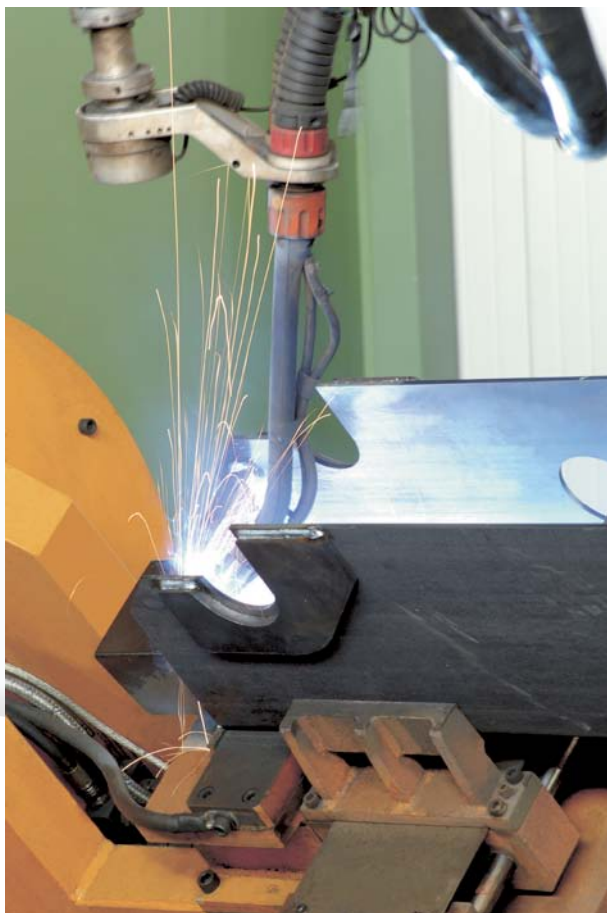
OMIS crane components are designed to be used in environments protected from atmospheric corrosion.
See paragraph 'Electrical equipment' for details.

The sound level of all components is lower than 85 dB, measured 1 m away and at 1.6 m from the ground.

OMIS

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END CARRIAGES



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

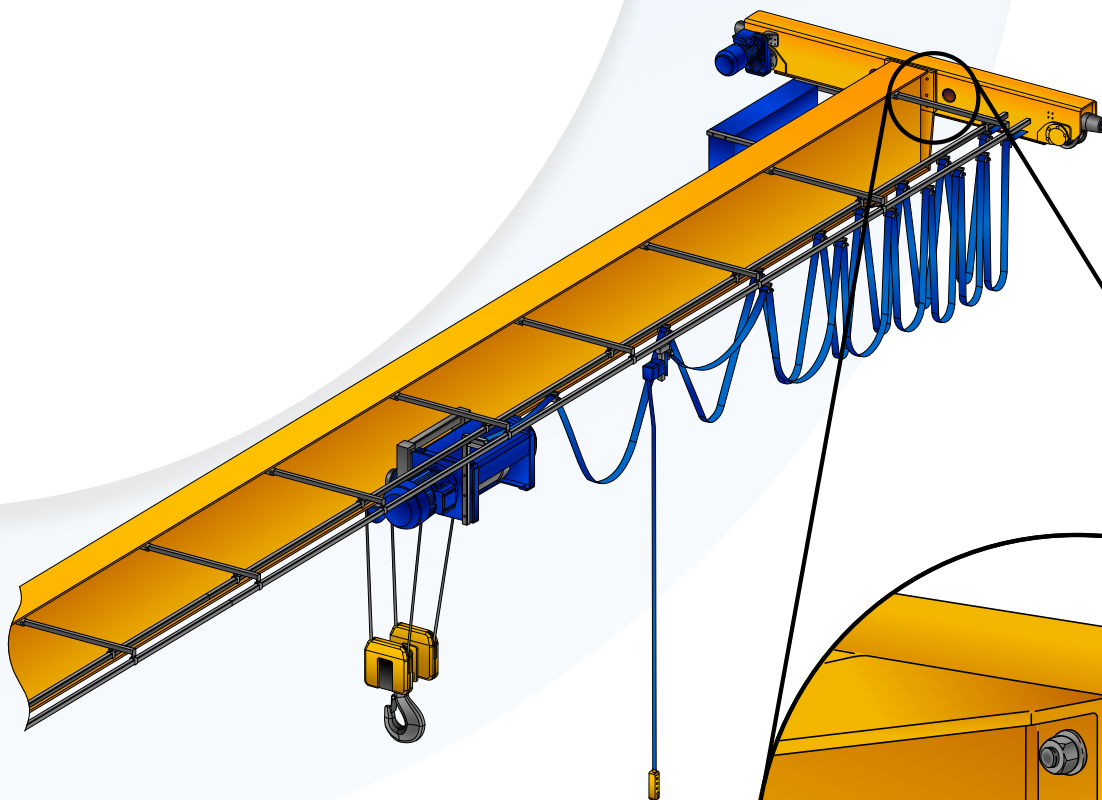
Manufactured by means of high-technology processes involving automatic welding and machining centres, OMIS end carriages feature high quality and modularity of components.

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



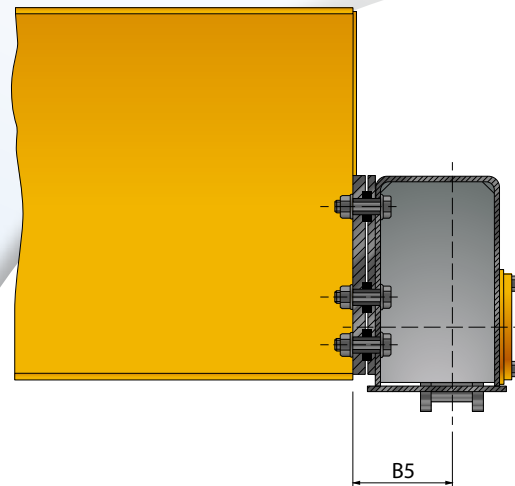
Connection with the bridge girders is much simple, as long as the right value of the tightening torque is abided by. Alignment is guaranteed by suitable self-aligning bushes.

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.

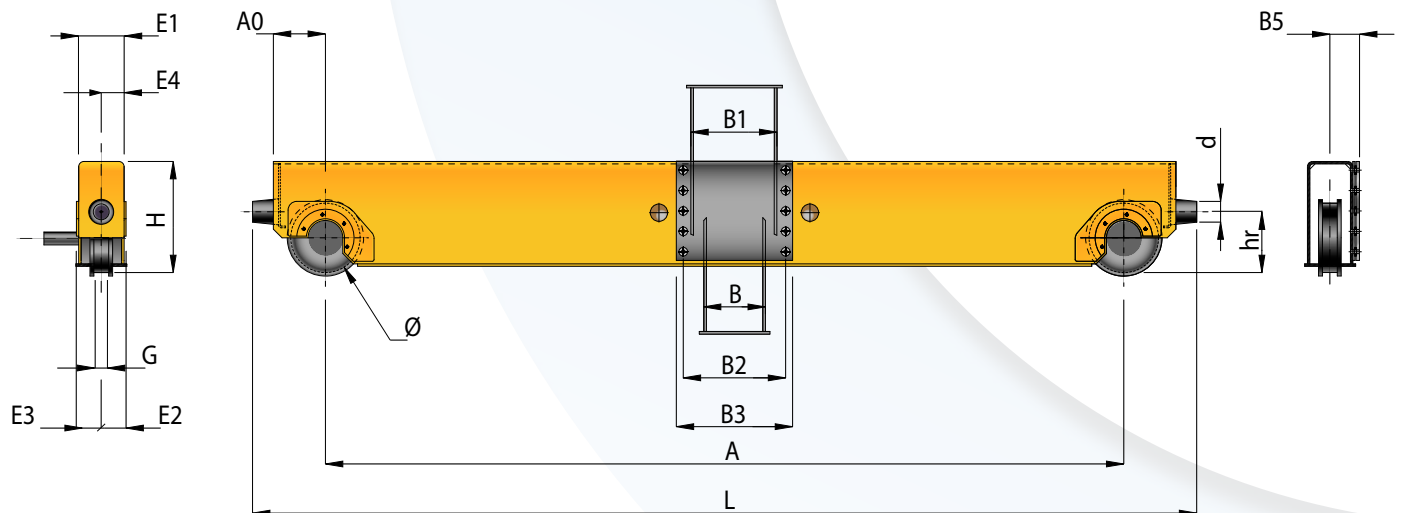
With regard to FEM classification, the tables given in the next pages show the maximum wheel load each end carriage is capable of bearing.

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	STANDARD GEARMOTORS	
	M4 (1am)	M5 (2m)	M6 (3m)	Ø	G	A	kg / pair	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	250		2700	640	SFR15090030	SFR15090350
T 11960	60	54	49			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

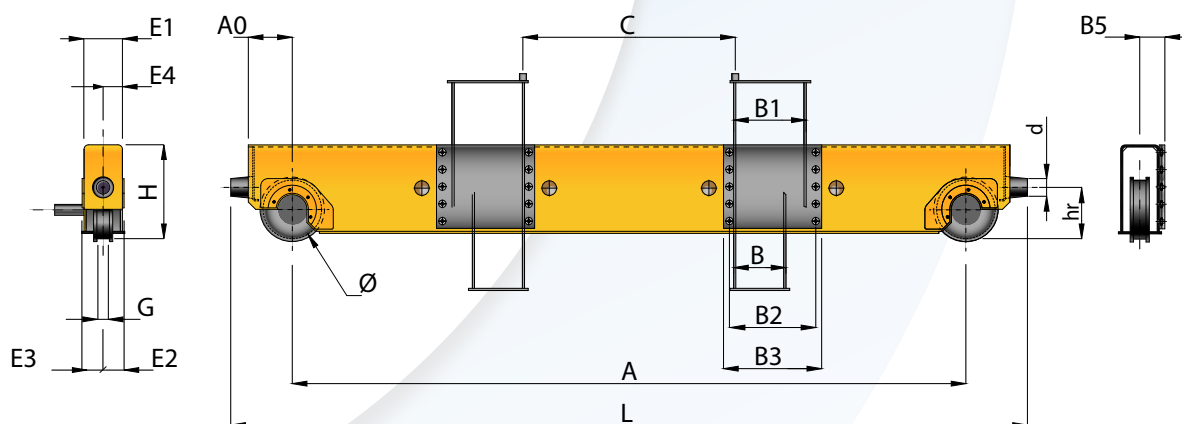
- ▶ B and B1 are the minimum and maximum allowed girder widths
- ▶ B5 includes the counter-flanges (welded on the girder)

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
	M4 (1am)	M5 (2m)	M6 (3m)	Ø	G	A	C	kg / pair
	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	250		3150	1000	570
T 11936	73	71	60			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	80	4600	1000	1150
T 11940	124	114	106			3150	1200	780
T 11941	132	128	106			3700	1200	1200
T 11942	156	148	106			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	90	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

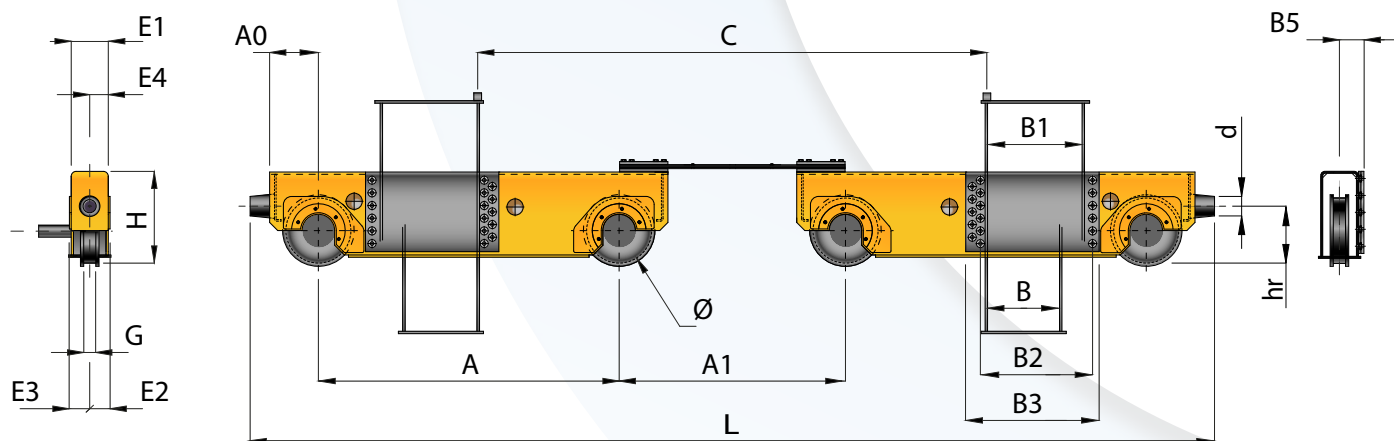
STANDARD GEARMOTORS	
FOR INVERTER	FOR DUAL SPEED
SNR05080020	SFR05090300
SNR05080020	SFR05090300
SNR05080020	SFR15090350
SFR15090030	SFR15090350
SFR15090030	SFR15090360
SFR15090035	SFR15090370
SFR15090035	SFR15090370
SFR25100055	SFR20090400
SFR25100055	SFR20090400
SFR25100055	SOR25100700
SFR25100055	SOR25100700
SFR25100055	SOR25100700
SFR25100055	SOSTD112850
SFR25100055	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

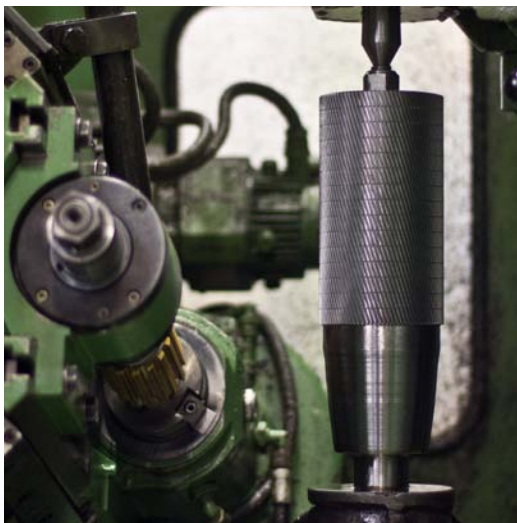
STANDARD GEARMOTORS	
FOR INVERTER	FOR DUAL SPEED
SFR25090055	SOSTD112850
SOSTD100050	SOSTD112900
SOSTD112060	—

- 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)





OMIS drive units have been developed to meet the specific needs in the material handling market. They are characterised by graduality of starting and slowing down. They also offer smooth and noiseless running. The use of high-quality materials and the constant control of all components in every production phase, allow great reliability. OMIS drive units ensure low maintenance costs as they have been designed to suit the most severe operative conditions.

Gears are of helical spur type and constructed from casehardening steel.

Boxes are obtained from cast iron in two halves.

Once closed, gearboxes are life-time lubricated with grease.

High mechanical efficiency is ensured by accurate controls during the assembling phase.

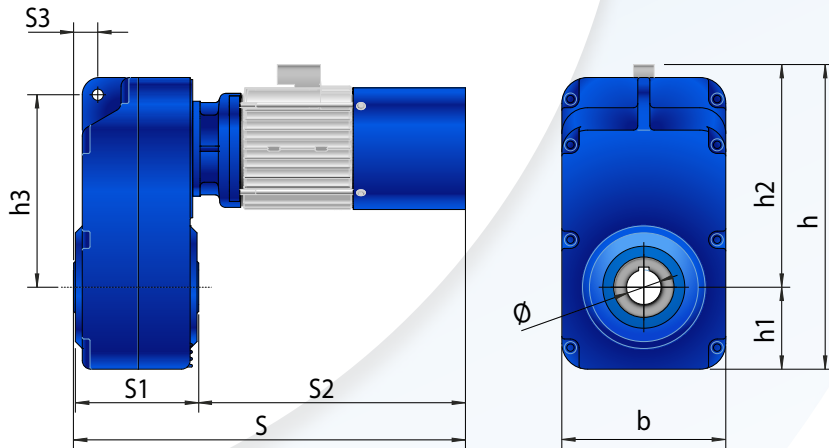
Motors are of short-circuited type. They feature protection IP55 and insulation class F.

The possibility to match each gearbox with different motors allows several LT and CT speeds.



MQ motors are cylindrical rotor, flux deviation motors and are suitable for Inverter use. MEC motors feature an external electro-magnetic brake that guarantees higher braking torques. They come as single pole rotor motors for inverter use or as dual-speed, rotor pole change motors.

GEARMOTORS



GEARMOTOR		GEARBOX			MOTOR				DIMENSIONS [mm]										WEIGHT
CODE	TYPE	DUTY (vs. ratio)			TYPE	USE	rpm	kW	ø	s	s1	s2	s3	b	h	h1	h2	h3	kg
61.3																			
SNR03080005	R03	M5	—	—	MQ	Inverter	2860	0.37	30	340	100	240	27	145	284	70	214	150	19
SNR03080100	R03	M5	—	—	MQ	Dual Speed	2500/820	0.25/0.08	30	340	100	240	27	145	284	70	214	150	21
SFR03080150	R03	M5	—	—	MQ	Dual Speed	2500/820	0.37/0.12	30	340	100	240	27	145	284	70	214	150	23
61.2 40.7 31.3																			
SNR05080010	R05	M5	M6	M6	MQ	Inverter	2860	0.37	30	345	105	240	25	155	327	90	237	180	24
SNR05080020	R05	M4	M5	M6	MQ	Inverter	2830	0.75	30	345	105	240	25	155	327	90	237	180	25
SFR05080200	R05	M5	M6	M6	MQ	Dual Speed	2500/820	0.37/0.12	30	415	105	310	25	155	327	90	237	180	28
SFR05080250	R05	M4	M5	M5	MQ	Dual Speed	2400/870	0.55/0.18	30	415	105	310	25	155	327	90	237	180	28
SFR05090300	R05	M4	M5	M5	MQ	Dual Speed	2600/800	0.75/0.25	30	465	105	360	25	155	327	90	237	180	32
61.3 51.4 40.8																			
SFR15090030	R15	M5	M6	M6	MQ	Inverter	2800	1.1	40	430	120	310	24	180	353	90	263	200	36
SFR15090035	R15	M5	M5	M6	MQ	Inverter	2750	1.5	40	430	120	310	24	180	353	90	263	200	37
SFR15090350	R15	M5	M6	M6	MQ	Dual Speed	2600/800	0.75/0.25	40	480	120	360	24	180	353	90	263	200	37
SFR15090360	R15	M5	M6	M6	MQ	Dual Speed	2500/760	1.1/0.36	40	480	120	360	24	180	353	90	263	200	42
SFR15090370	R15	M5	M5	M6	MQ	Dual Speed	2600/840	1.5/0.5	40	500	120	380	24	180	353	90	263	200	42
82.3																			
SFR20090040	R20	M6	—	—	MQ	Inverter	2800	1.1	40	455	145	310	28	190	357	95	262	223	46
SFR20090045	R20	M5	—	—	MQ	Inverter	2750	1.5	40	455	145	310	28	190	357	95	262	223	47
SFR20090380	R20	M6	—	—	MQ	Dual Speed	2600/800	0.75/0.25	40	505	145	360	28	190	357	95	262	223	49
SFR20090390	R20	M6	—	—	MQ	Dual Speed	2500/760	1.1/0.36	40	505	145	360	28	190	357	95	262	223	52
SFR20090400	R20	M5	—	—	MQ	Dual Speed	2600/840	1.5/0.5	40	525	145	380	28	190	357	95	262	223	52
91.1 72.9 62.6																			
SFR25100055	R25	M5	M6	M6	MQ	Inverter	2750	2.2	50	500	175	325	35	240	421	136	285	250	74
SOR25100037	R25	M5	M6	M6	MEC	Inverter	1400	2.2	50	540	175	365	35	240	480	136	344	250	80
SOR25100040	R25	M4	M5	M6	MEC	Inverter	1400	3	50	540	175	365	35	240	480	136	344	250	80
SNR25090420	R25	M6	M6	M6	MQ	Dual Speed	2500/760	1.1/0.36	50	530	175	355	35	240	421	136	285	250	75
SNR25090430	R25	M6	M6	M6	MQ	Dual Speed	2600/840	1.5/0.5	50	550	175	375	35	240	421	136	285	250	78
SOR25100700	R25	M6	M6	M6	MEC	Dual Speed	2865/945	1.5/0.5	50	570	175	395	35	240	480	136	344	250	82
104.2 80.2 59.8																			
SOSTD100045	R30	M6	M6	M6	MEC	Inverter	1400	2.2	70	570	210	360	38	300	547	150	397	360	132
SOSTD100050	R30	M5	M6	M6	MEC	Inverter	1400	3	70	570	210	360	38	300	547	150	397	360	135
SOSTD112060	R30	M5	M5	M6	MEC	Inverter	1400	4	70	615	210	405	38	300	565	150	415	360	147
SOSTD100750	R30	M6	M6	M6	MEC	Dual Speed	2850/945	1.5/0.5	70	570	210	360	38	300	547	150	397	360	138
SOSTD112850	R30	M6	M6	M6	MEC	Dual Speed	2850/945	2.2/0.76	70	595	210	415	38	300	565	150	415	360	147
SOSTD112900	R30	M5	M6	M6	MEC	Dual Speed	2850/945	3/1	70	595	210	415	38	300	565	150	415	360	151

R30 gearboxes are also available with the following reduction ratios: 120.2 - 91.1 - 71.0 - 52.3 - 46.1 - 40.8 - 30.9 - 27.2 - 24.1

The reliability of OMIS's OPE series of hoist units is endorsed by 20 years of success throughout Europe and the loyalty of thousands of customers who recognize it as extremely versatile, cost-effective and of easy maintenance.

The OPE hoist has been designed with rectangular shape, which allows fitting-up on all frame sides.

A two fall-of-rope hoist can be transformed into a four fall-of-rope hoist (or vice-versa) by simply replacing the hook-block and by adding (or removing) the fixed sheave.

The drum can be accessed from all four sides. Motor and gearbox are simply flanged to the main frame to allow easy maintenance.

All parts are accurately inspected during all production phases and appropriately tested in the final testing procedure.

OPE hoists can be integrated into three main different configuration trolleys: supported (CBA) and underslung (CBS) for double girder cranes, low-headroom (CRO or CMR) for single girder cranes.



HOISTS

Gearbox

This is a two-stage planetary gearbox. Gears are heat treated and mounted on pinions supported by oil-lubricated bearings



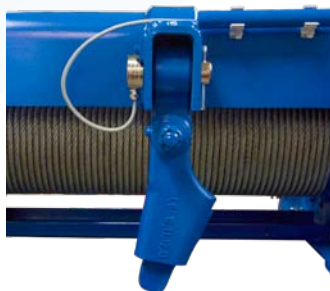
Motor

The OPE hoists mounts a cylindrical rotor motor suitable for inverter use, though dual stage pole change motors are also available upon request. The motor is connected to the gearbox fast shaft through a flexible coupling, and it is fitted outside the hoist body to allow easy maintenance and adequate cooling. It features protection IP54, insulation class F.



Rope guide

Made up of two halves and easy to replace, rope guides are designed to guarantee smooth rope reeving and minimize wear.



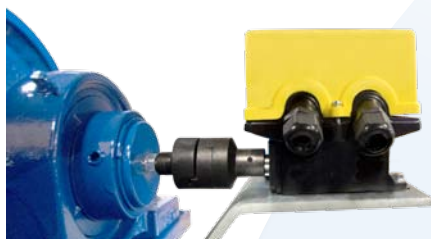
Load cell

The load cell is a strain-gauge device enclosed in the fixed-end pin, and it is connected to an electronic card where two load thresholds can be set up in to prevent hoist overloading in accordance with the European specifications.



Drum

The drum is accurately machined from a thick steel tube. It is set in motion by the slow shaft of the gearbox through a convex grooved coupling to allow slight oscillation without producing additional stress.



Limit switch

To prevent dangerous situations, OMIS hoists are equipped with an emergency limit switch that restricts the vertical lift. It consists of a micro-switch, mechanically operated by the guide ring, that acts on the control circuit.



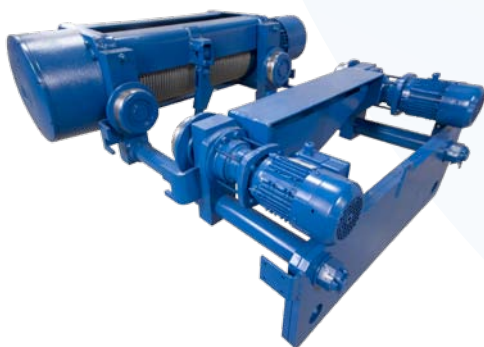
Hook-block

Hook is made from high-resistance forged steel and is equipped with a spring latch. Covers guarantee against accidental contacts with all moving parts such as sheaves and rope.



FOOT MOUNTED

Given the particular rectangular shape, the OPE hoist can be easily integrated into different types of trolley frames, as it can be connected from all four sides.



“CMR” VERSION

This is the traditional version of the low-headroom hoist units, with the hoist off-centered and balanced by means of a ballast on the other side of the beam.

The CT movement is achieved through two parallel shaft gearmotors.



“CRO” VERSION

This is the new configuration OMIS is employing for their low-headroom hoist units, and it will soon replace all the previous CMR versions.

Basically, the ballast has been replaced by contrast wheels running on the bottom plate.

The CT movement is achieved through one parallel shaft gearmotor.



“CBA” VERSION

This is the most common crab unit configuration, featuring a compact size trolley with two driven wheels.

These flanged wheels are connected through a shaft and are powered by a parallel shaft gearmotor.

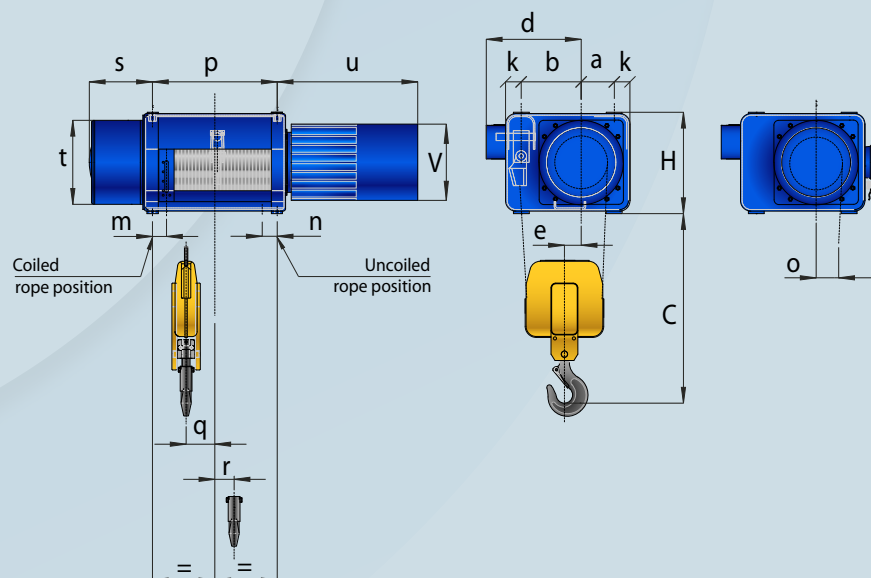


“CBS” VERSION

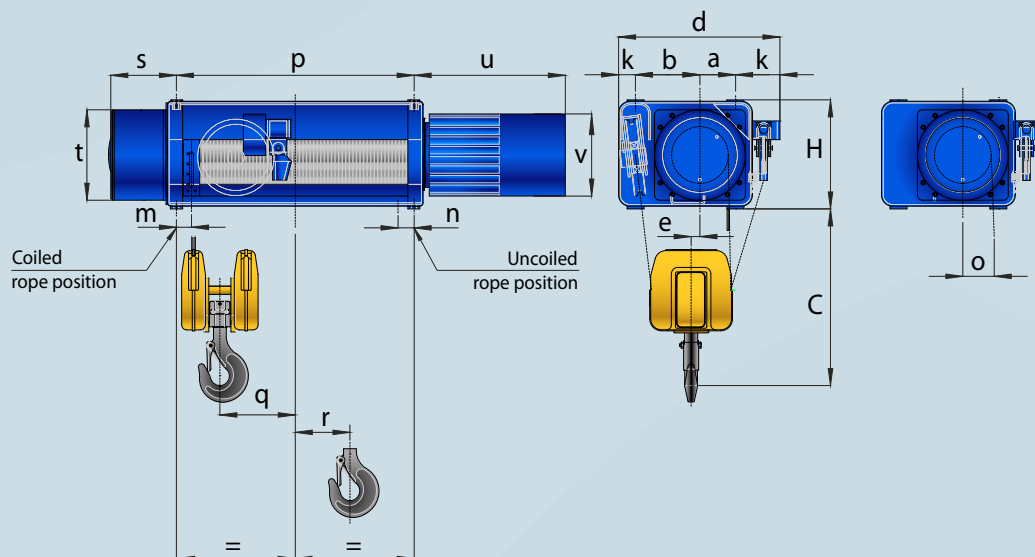
In this version, hoist and trolley are identical to the CBA version, only assembly differs. This interchangeability allows to change the configuration of the crab unit in case of need (typically when rail-to-roof clearance is less than expected).

HOISTS - OPE SERIES

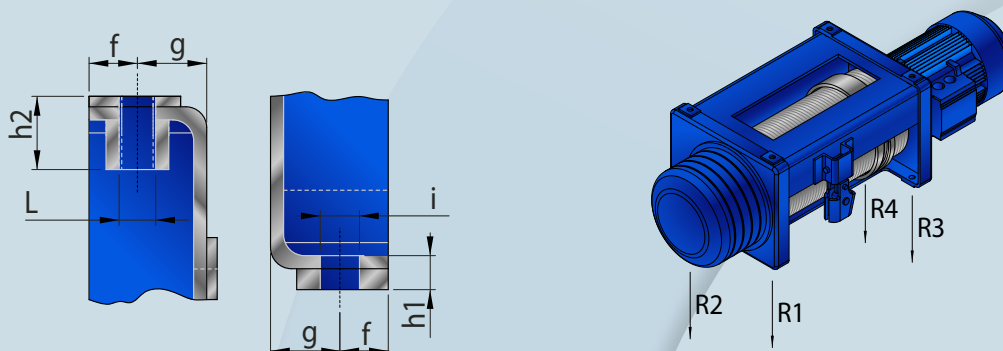
**HOIST WITH
2/1 FALLS OF ROPE**



**HOIST WITH
4/1 FALLS OF ROPE**



STATIC REACTIONS



HOISTS - OPE SERIES

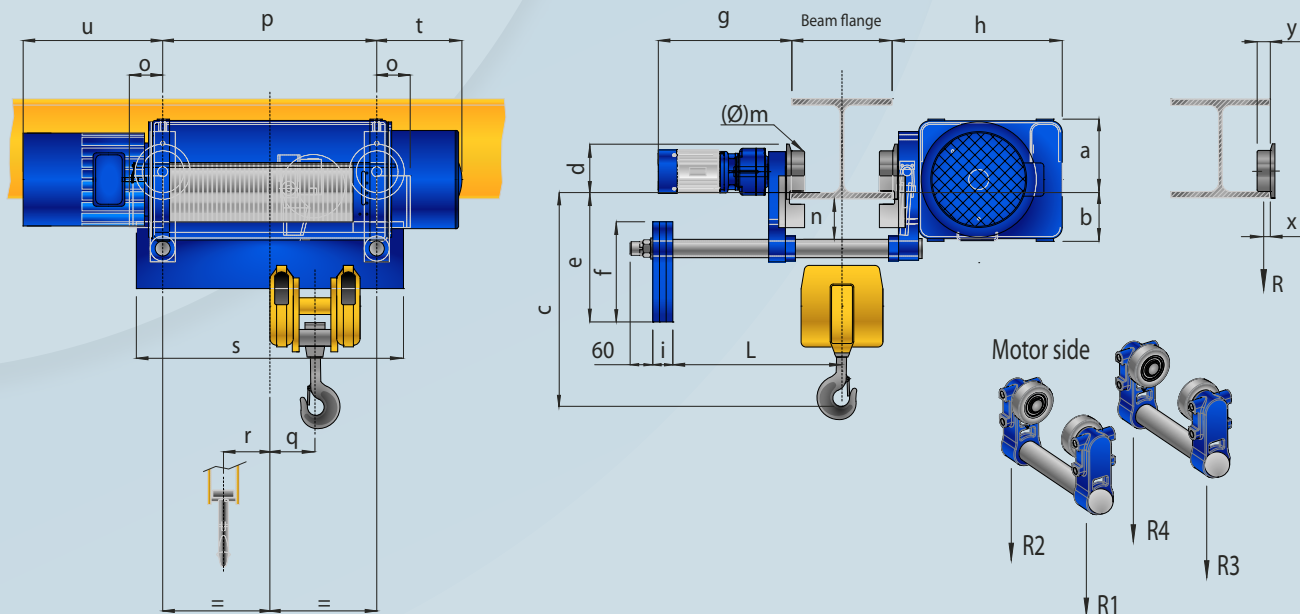
CODE	CAPACITY		REEVING	ROPE Ø	HOOK DIN 15401	HOL	LIFTING SPEED	MOTOR POWER	STATIC REACTIONS				WEIGHT
	t			mm	nr.	m	m/min	kW	kN				Kg
	M5 (2m)	M6 (3m)							R1	R2	R3	R4	
OPE 308 2T 10 N	1.6	1	2/1	7	1	8.8	8/2	3	5.9	6.8	2.4	2.8	160
OPE 308 2T 14 N	1.6	1	2/1	7	1	12.8	8/2	3	6.4	7.4	2.0	2.3	170
OPE 312 2T 10 N	2.5	1.6	2/1	10	1.6	9.2	8/2	4	7.9	7.6	3.6	3.5	220
OPE 312 2T 14 N	2.5	1.6	2/1	10	1.6	13.2	8/2	4	8.6	8.3	3.0	2.9	240
OPE 308 4T 7 N	3.2	2.5	4/1	7	1.6	6.4	4/1	3	14.0	11.4	5.0	4.0	190
OPE 308 4T 10 N	3.2	2.5	4/1	7	1.6	9.4	4/1	3	15.2	12.3	3.9	3.2	210
OPE 308 4T 13 N	3.2	2.5	4/1	7	1.6	12.4	4/1	3	15.9	12.9	3.3	2.7	230
OPE 316 2T 10 N	3.2	2.5	2/1	10	1.6	9.2	8/2	5	12.2	11.8	5.5	5.3	245
OPE 316 2T 14 N	3.2	2.5	2/1	10	1.6	13.2	8/2	5	13.4	12.9	4.5	4.3	270
OPE 312 4T 7 N	5	4	4/1	10	2.5	6.6	4/1	4	22.2	16.5	8.3	6.2	260
OPE 312 4T 10 N	5	4	4/1	10	2.5	9.6	4/1	4	24.3	18.1	6.4	4.8	290
OPE 312 4T 13 N	5	4	4/1	10	2.5	12.6	4/1	4	25.5	19.0	5.3	4.0	320
OPE 525 2T 10 N	5	4	2/1	12	2.5	9.6	8/2	8	18.3	18.6	8.4	8.6	330
OPE 525 2T 14 N	5	4	2/1	12	2.5	13.6	8/2	8	20.0	20.4	6.7	6.9	350
OPE 316 4T 7 N	6.3	5	4/1	10	4	6.6	4/1	5	27.8	20.7	10.3	7.7	290
OPE 316 4T 10 N	6.3	5	4/1	10	4	9.6	4/1	5	30.4	22.7	7.9	5.9	320
OPE 316 4T 13 N	6.3	5	4/1	10	4	12.6	4/1	5	31.9	23.8	6.6	4.9	360
OPE 525 4T 7 N	10	8	4/1	12	4	6.8	4/1	8	42.5	32.7	16.8	12.9	390
OPE 525 4T 10 N	10	8	4/1	12	4	9.8	4/1	8	46.7	35.9	12.8	9.9	430
OPE 525 4T 13 N	10	8	4/1	12	4	12.8	4/1	8	49.1	37.8	10.6	8.2	470

CODE	DIMENSIONS																					
	mm																					
	a	b	C	d	e	f	g	H	h1	h2	i	L	m	n	o	p	q	r	s	t	u	v
OPE 308 2T 10 N	105	190	700	300	53	19	27	325	13	28	15	14	60	69	83	395	91	61	200	218	445	220
OPE 308 2T 14 N	105	190	700	300	53	19	27	325	13	28	15	14	60	69	83	520	154	61	200	218	445	220
OPE 312 2T 10 N	105	190	770	300	40	19	27	325	13	34	17	20	60	69	109	440	90	77	250	292	450	220
OPE 312 2T 14 N	105	190	770	300	40	19	27	325	13	34	17	20	60	69	109	570	155	77	250	292	450	220
OPE 308 4T 7 N	105	190	635	470	27	19	27	325	13	28	15	14	60	69	83	520	132	-25	200	218	445	220
OPE 308 4T 10 N	105	190	635	470	27	19	27	325	13	28	15	14	60	69	83	700	222	-69	200	218	445	220
OPE 308 4T 13 N	105	190	635	470	27	19	27	325	13	28	15	14	60	69	83	885	314	-115	200	218	445	220
OPE 316 2T 10 N	105	190	770	300	40	19	27	325	13	34	17	20	60	69	109	440	90	77	250	292	480	260
OPE 316 2T 14 N	105	190	770	300	40	19	27	325	13	34	17	20	60	69	109	570	155	77	250	292	480	260
OPE 312 4T 7 N	105	190	700	470	21	19	27	325	13	34	17	20	60	69	109	570	137	-19	250	292	450	220
OPE 312 4T 10 N	105	190	700	470	21	19	27	325	13	34	17	20	60	69	109	775	240	-72	250	292	450	220
OPE 312 4T 13 N	105	190	700	470	21	19	27	325	13	34	17	20	60	69	109	975	340	-122	250	292	450	220
OPE 525 2T 10 N	133	213	860	325	33	21	31	380	18	48	21	24	60	69	132	455	90	66	270	360	490	260
OPE 525 2T 14 N	133	213	860	325	33	21	31	380	18	48	21	24	60	69	132	590	157	66	270	360	490	260
OPE 316 4T 7 N	105	190	715	470	21	19	27	325	13	34	17	20	60	69	109	570	137	-19	250	292	480	260
OPE 316 4T 10 N	105	190	715	470	21	19	27	325	13	34	17	20	60	69	109	775	240	-72	250	292	460	260
OPE 316 4T 13 N	105	190	715	470	21	19	27	325	13	34	17	20	60	69	109	975	340	-122	250	292	460	260
OPE 525 4T 7 N	133	213	770	545	12	21	31	380	18	48	21	24	60	69	132	590	133	-15	270	360	490	260
OPE 525 4T 10 N	133	213	770	545	12	21	31	380	18	48	21	24	60	69	132	795	236	-67	270	360	490	260
OPE 525 4T 13 N	133	213	770	545	12	21	31	380	18	48	21	24	60	69	132	995	336	-117	270	360	490	260

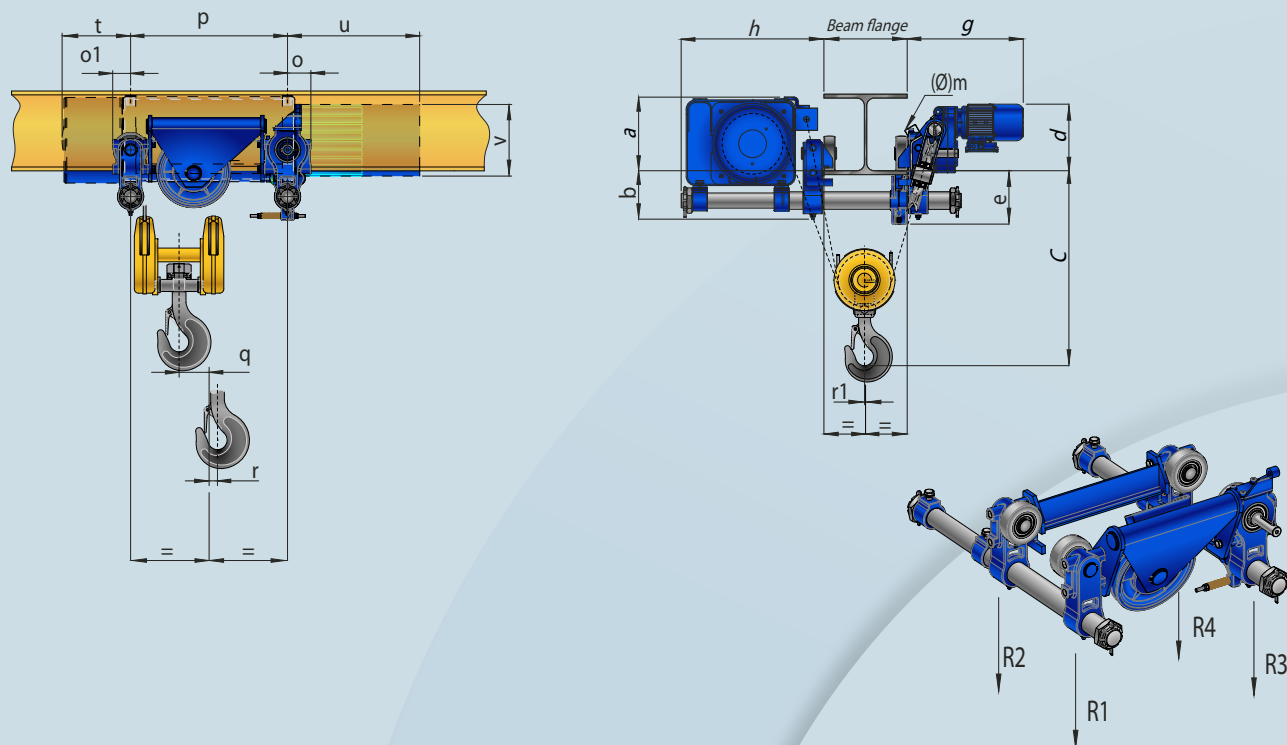
► All motors are for inverter use. Dual speed available upon request.

LOW-HEADROOM HOISTS - OPE SERIES

"CMR" VERSION



"CRO" VERSION



LOW-HEADROOM HOISTS - OPE SERIES

CODE	CAPACITY		REEVING	ROPE Ø	HOOK DIN 15401	HOL	LIFTING SPEED	MOTOR POWER	CT POWER	STATIC REACTIONS				WEIGHT
	t			mm	nr.	m	m/min	kW	kW	kN				Kg
	M5 (2m)	M6 (3m)								R1	R2	R3	R4	
OPE 308 2T 10 N - CRO	1.6	1	2/1	7	1	8.8	8/2	3	0.37	6.5	6.8	2.9	3.0	310
OPE 308 2T 14 N - CMR	1.6	1	2/1	7	1	12.8	8/2	3	2 x 0.18	7.3	7.3	2.5	2.5	340
OPE 312 2T 10 N - CRO	2.5	1.6	2/1	10	1.6	9.2	8/2	4	0.37	6.3	9.7	3.2	4.7	380
OPE 312 2T 14 N - CMR	2.5	1.6	2/1	10	1.6	13.2	8/2	4	2 x 0.18	9.0	9.0	3.5	3.5	470
OPE 308 4T 7 N - CRO	3.2	2.5	4/1	7	1.6	6.4	4/1	3	0.37	11.0	11.4	6.6	6.8	360
OPE 308 4T 10 N - CRO	3.2	2.5	4/1	7	1.6	9.4	4/1	3	0.37	12.6	13.0	5.2	5.3	390
OPE 308 4T 13 N - CMR	3.2	2.5	4/1	7	1.6	12.4	4/1	3	2 x 0.18	15.1	15.1	2.6	2.6	480
OPE 316 2T 10 N - CRO	3.2	2.5	2/1	10	1.6	9.2	8/2	5	0.37	9.6	15.1	4.7	6.9	400
OPE 316 2T 14 N - CMR	3.2	2.5	2/1	10	1.6	13.2	8/2	5	2 x 0.18	12.7	12.7	6.1	6.1	520
OPE 312 4T 7 N - CRO	5	4	4/1	10	2.5	6.6	4/1	4	0.37	16.1	17.1	10.4	11.0	440
OPE 312 4T 10 N - CRO	5	4	4/1	10	2.5	9.6	4/1	4	0.37	18.7	19.8	8.1	8.5	490
OPE 312 4T 13 N - CMR	5	4	4/1	10	2.5	12.6	4/1	4	2 x 0.24	22.9	22.9	5.3	5.3	590
OPE 525 2T 10 N - CMR	5	4	2/1	12	2.5	9.6	8/2	8	2 x 0.24	19.1	19.1	9.2	9.2	610
OPE 525 2T 14 N - CMR	5	4	2/1	12	2.5	13.6	8/2	8	2 x 0.24	21.0	21.0	7.6	7.6	660
OPE 316 4T 7 N - CRO	6.3	5	4/1	10	4	6.6	4/1	5	0.75	20.1	21.3	13.0	13.7	480
OPE 316 4T 10 N - CRO	6.3	5	4/1	10	4	9.6	4/1	5	0.75	23.3	24.7	9.9	10.5	520
OPE 316 4T 13 N - CMR	6.3	5	4/1	10	4	12.6	4/1	5	2 x 0.24	28.6	28.6	6.5	6.5	660
OPE 525 4T 7 N - CMR	10	8	4/1	12	4	6.8	4/1	8	2 x 0.30	38.3	38.3	15.5	15.5	660
OPE 525 4T 10 N - CMR	10	8	4/1	12	4	9.8	4/1	8	2 x 0.30	42.1	42.1	12.2	12.2	750
OPE 525 4T 13 N - CMR	10	8	4/1	12	4	12.8	4/1	8	2 x 0.30	44.4	44.4	10.3	10.3	840

CODE	DIMENSIONS																							
	mm																							
	a	b	C(*)	d	e	f	g	h	i	L(**)	m	n	o1	o	p	q	r	r1	s	t	u	v	y	x
OPE 308 2T 10 N - CRO	260	175	705	276	193	—	425	515	—	—	125	66	65	85	395	91	61	0	—	193	445	220	—	—
OPE 308 2T 14 N - CMR	265	45	750	140	340	310	420	455	40	430÷345	125	61	100	100	520	149	65	0	720	200	445	220	40	20
OPE 312 2T 10 N - CRO	260	175	705	276	193	—	425	515	—	—	125	61	65	85	440	90	77	0	—	245	450	260	—	—
OPE 312 2T 14 N - CMR	240	70	820	140	370	310	425	470	80	465÷38	125	82	100	100	570	164	68	0	700	246	450	220	40	20
OPE 308 4T 7 N - CRO	260	175	705	276	193	—	425	515	—	—	125	66	65	85	520	132	-25	0	—	200	445	220	—	—
OPE 308 4T 10 N - CRO	260	175	705	276	193	—	425	515	—	—	125	66	65	85	700	222	69	0	—	200	445	220	—	—
OPE 308 4T 13 N - CMR	240	70	700	140	370	310	420	475	40	520÷435	125	82	100	100	440	99	68	0	700	246	445	220	40	20
OPE 316 2T 10 N - CRO	260	175	705	276	193	—	425	515	—	—	125	61	65	85	440	90	77	0	—	245	480	260	—	—
OPE 316 2T 14 N - CMR	240	70	820	140	370	310	425	470	80	465÷38	125	82	82	82	570	164	68	0	700	246	480	260	40	20
OPE 312 4T 7 N - CRO	260	175	705	276	193	—	425	515	—	—	125	61	65	85	570	137	-19	0	—	245	450	220	—	—
OPE 312 4T 10 N - CRO	260	175	705	276	193	—	425	515	—	—	125	61	65	85	775	240	-72	0	—	245	450	220	—	—
OPE 312 4T 13 N - CMR	262	47	770	175	345	310	525	480	80	490÷405	125	60	120	120	975	225	-10	0	1100	246	450	220	45	22
OPE 525 2T 10 N - CMR	285	70	925	146	360	310	485	525	100	490÷405	125	77	95	95	455	85	82	0	700	266	490	260	40	20
OPE 525 2T 14 N - CMR	285	70	925	146	360	310	485	525	100	490÷405	125	77	95	95	590	152	82	0	700	266	490	260	40	20
OPE 316 4T 7 N - CRO	260	175	705	276	193	—	425	515	—	—	125	61	65	85	570	137	-19	0	—	249	480	260	—	—
OPE 316 4T 10 N - CRO	260	175	705	276	193	—	425	515	—	—	125	61	65	85	775	240	-72	0	—	249	480	260	—	—
OPE 316 4T 13 N - CMR	262	47	770	175	345	310	525	480	80	490÷405	155	60	120	120	975	225	-10	0	1100	246	480	260	45	22
OPE 525 4T 7 N - CMR	305	50	820	175	335	310	535	547	100	575÷49	155	58	120	120	590	60	60	0	700	266	490	260	45	22
OPE 525 4T 10 N - CMR	305	50	820	175	335	310	535	547	100	575÷49	155	58	120	120	795	165	5	0	900	266	490	260	45	22
OPE 525 4T 13 N - CMR	305	50	820	175	335	310	535	547	100	575÷49	155	58	120	120	995	265	-45	0	1100	266	490	260	45	22

Beam flange width:

- min 250 / max 450 for hoists size 308, trolley type CRO
- min 250 / max 500 for hoists size 312 and 316, trolley type CRO
- min 130 / max 500 for all hoists with trolley type CMR

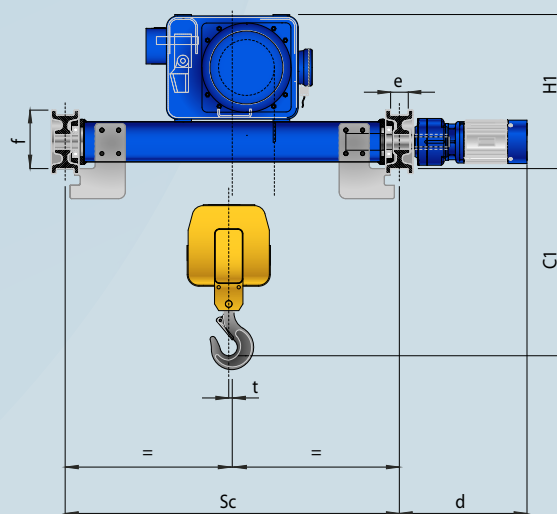
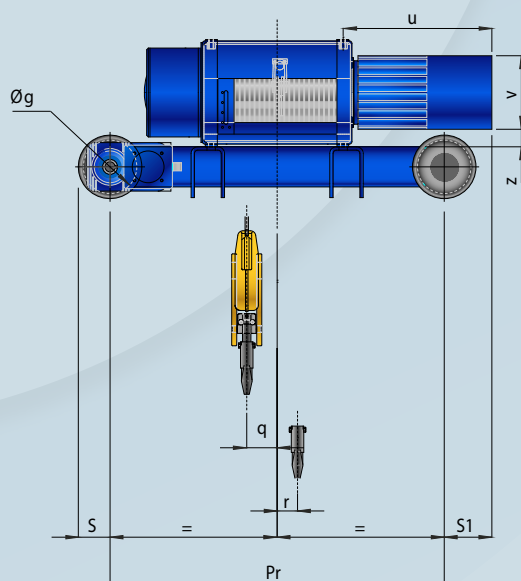
(*) "C" refers to max beam width of 300 mm. For wider beams "C" increases by 12 mm every 10 mm of extra width.

(**) "L" refers to a beam width of 300 mm. For different widths, "L" increases or decreases by half of the width difference.

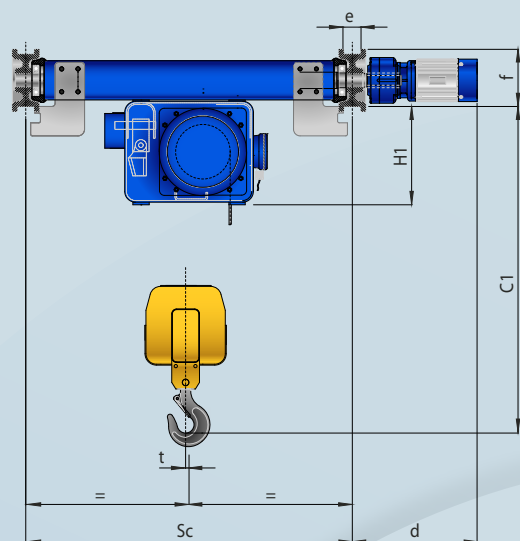
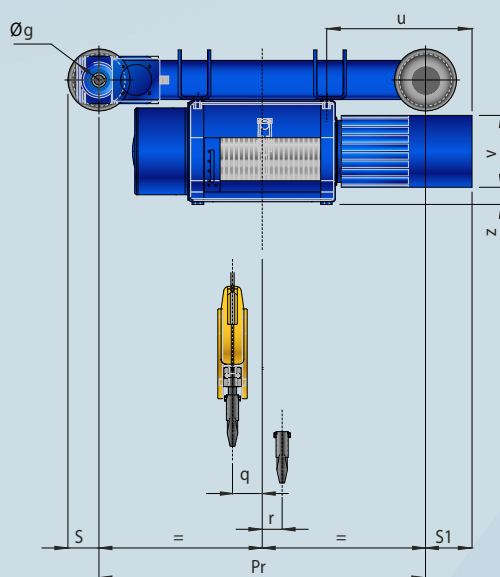
- All motors are for inverter use. Dual speed available upon request.
- Standard CT speed for all hoists is 20/5 m/min.

CRAB UNITS - OPE SERIES

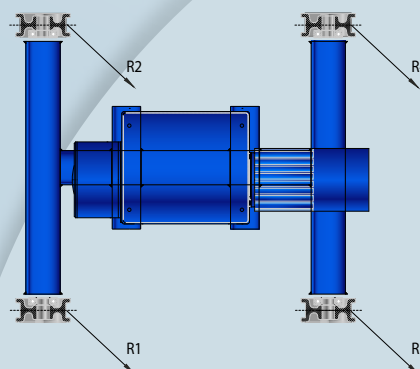
FOOT-MOUNTED HOIST



UNDERSLUNG HOIST



STATIC REACTIONS

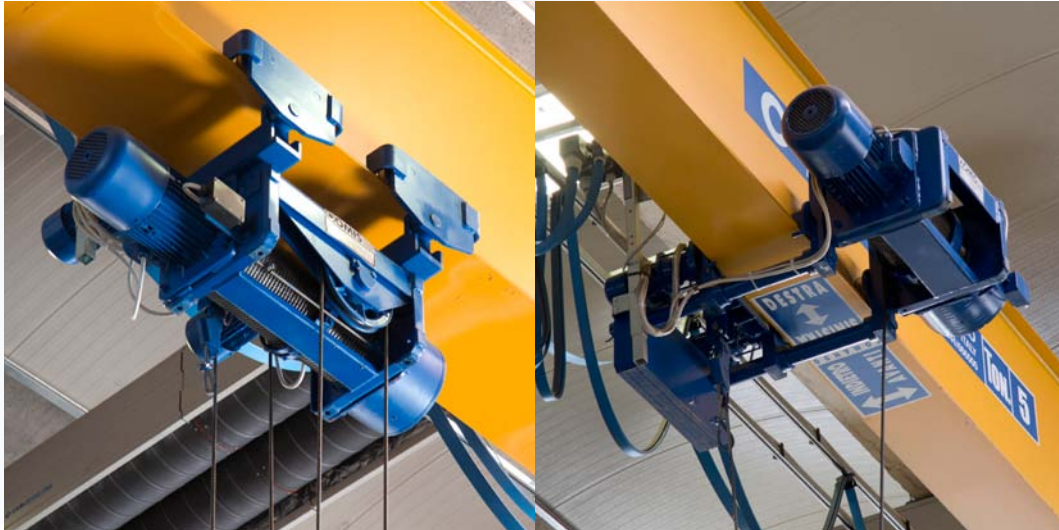


CRAB UNITS - OPE SERIES

CODE	CAPACITY		REEV- ING	ROPE Ø	HOOK DIN 15401	HOL	LIFTING SPEED	MOTOR POWER	CT POWER	STATIC REACTIONS				WEIGHT
	t			mm	nr.	m	m/min	kW	kW	kN				Kg
	M5 (2m)	M6 (3m)								R1	R2	R3	R4	
OPE3082T10N-CBA	1.6	1	2/1	7	1	8.8	8/2	3	0.37	6.0	3.8	6.0	3.8	325
OPE3082T14N-CBA	1.6	1	2/1	7	1	12.8	8/2	3	0.37	6.2	3.7	6.2	3.7	333
OPE3122T10N-CBA	2.5	1.6	2/1	10	1.6	9.2	8/2	4	0.37	7.4	4.8	7.4	4.8	385
OPE3122T14N-CBA	2.5	1.6	2/1	10	1.6	13.2	8/2	4	0.37	7.7	4.6	7.7	4.6	403
OPE 308 4T 7 N - CBA	3.2	2.5	4/1	7	1.6	6.4	4/1	3	0.37	10.0	8.1	10.0	8.1	353
OPE3084T10N-CBA	3.2	2.5	4/1	7	1.6	9.4	4/1	3	0.37	12.0	6.2	12.0	6.2	380
OPE3084T13N-CBA	3.2	2.5	4/1	7	1.6	12.4	4/1	3	0.37	13.1	5.3	13.1	5.3	400
OPE3162T10N-CBA	3.2	2.5	2/1	10	1.6	9.2	8/2	5	0.37	10.6	7.7	10.6	7.7	410
OPE3162T14N-CBA	3.2	2.5	2/1	10	1.6	13.2	8/2	5	0.37	11.7	6.7	11.7	6.7	433
OPE 312 4T 7 N - CBA	5	4	4/1	10	2.5	6.6	4/1	4	0.37	17.2	10.3	17.2	10.3	423
OPE3124T10N-CBA	5	4	4/1	10	2.5	9.6	4/1	4	0.37	18.8	8.8	18.8	8.8	457
OPE3124T13N-CBA	5	4	4/1	10	2.5	12.6	4/1	4	0.37	20.2	7.6	20.2	7.6	490
OPE5252T10N-CBA	5	4	2/1	12	2.5	9.6	8/2	8	0.37	16.1	11.6	16.9	11.6	493
OPE5252T14N-CBA	5	4	2/1	12	2.5	13.6	8/2	8	0.37	18.0	10.1	18.0	10.1	555
OPE 316 4T 7 N - CBA	6.3	5	4/1	10	4	6.6	4/1	5	0.37	21.6	12.6	21.6	12.6	453
OPE3164T10N-CBA	6.3	5	4/1	10	4	9.6	4/1	5	0.37	23.5	10.9	23.5	10.9	487
OPE3164T13N-CBA	6.3	5	4/1	10	4	12.6	4/1	5	0.37	25.2	9.3	25.2	9.3	530
OPE 525 4T 7 N - CBA	10	8	4/1	12	4	6.8	4/1	8	1.1	33.5	20.1	33.5	20.1	613
OPE5254T10N-CBA	10	8	4/1	12	4	9.8	4/1	8	1.1	36.7	17.1	36.7	17.1	658
OPE5254T13N-CBA	10	8	4/1	12	4	12.8	4/1	8	1.1	39.2	14.9	39.2	14.9	720

CODE	DIMENSIONS																	
	mm																	
	Sc	C1(CBA)	C1(CBS)	d	e	f	Ø g	H1(CBA)	H1(CBS)	Pr	q	r	s	s1	t	u	v	z
OPE3082T10N-CBA	1000	560	1005	382	56	175	160	465	305	1000	91	61	95	142	10	445	220	50
OPE3082T14N-CBA	1000	560	1005	382	56	175	160	465	305	1000	154	61	95	205	10	445	220	50
OPE3122T10N-CBA	1000	630	1075	382	56	175	160	465	305	1000	90	77	95	170	2	445	220	50
OPE3122T14N-CBA	1000	630	1075	382	56	175	160	465	305	1000	155	77	95	235	2	450	220	50
OPE 308 4T 7 N - CBA	1000	495	940	382	56	175	160	465	305	1000	132	25	95	205	16	445	220	50
OPE3084T10N-CBA	1000	495	940	382	56	175	160	465	305	1200	222	69	95	195	16	445	220	50
OPE3084T13N-CBA	1000	495	940	382	56	175	160	465	305	1300	314	115	95	237	16	445	220	50
OPE3162T10N-CBA	1000	630	1075	382	56	175	160	465	305	1000	90	77	95	200	2	480	260	30
OPE3162T14N-CBA	1000	630	1075	382	56	175	160	465	305	1000	155	77	95	265	2	480	260	30
OPE 312 4T 7 N - CBA	1000	560	1005	382	56	175	160	465	305	1000	137	19	95	235	21	450	220	50
OPE3124T10N-CBA	1000	560	1005	382	56	175	160	465	305	1200	240	72	95	237	21	450	220	50
OPE3124T13N-CBA	1000	560	1005	382	56	175	160	465	305	1360	340	122	95	257	21	450	220	50
OPE5252T10N-CBA	1000	720	1220	382	56	175	160	518	360	1000	90	66	95	217	3	480	260	60
OPE5252T14N-CBA	1000	720	1220	382	56	175	160	518	360	1000	157	78	95	285	22	490	260	60
OPE 316 4T 7 N - CBA	1000	575	1020	382	56	175	160	461	305	1000	137	19	95	265	21	480	260	30
OPE3164T10N-CBA	1000	575	1020	382	56	175	160	461	305	1200	240	72	95	267	21	480	260	30
OPE3164T13N-CBA	1000	575	1020	382	56	175	160	461	305	1360	340	122	95	287	21	480	260	30
OPE 525 4T 7 N - CBA	1000	630	1130	472	56	175	160	518	360	1000	133	15	95	285	23	490	260	60
OPE5254T10N-CBA	1000	630	1130	472	56	175	160	518	360	1200	236	67	95	287	23	490	260	60
OPE5254T13N-CBA	1000	630	1130	472	56	175	160	518	360	1380	336	117	95	297	23	490	260	60

- All crabs units can be supplied both in "CBA" and in "CBS" versions.
- All motors are for inverter use. Dual speed available upon request.
- Standard CT speed for all hoists is 20/5 m/min.



OPEN BARREL HOISTS

The thirty-year experience in the material handling field, have allowed OMIS to develop a new range of products where robustness, style, easy maintenance and cost-effectiveness are put together.

OMIS standard winches cover a wide range of applications, for SWL up to 35 ton and 2-4-6 falls of rope configurations. Creep speeds are obtained through a planetary gearing incorporated in the main gearbox.

The gearing axle (sun) is connected to an external drive unit in which the motor is of self-braking type. All winch components are of OMIS make and they are accurately controlled during the production.

At the end of the assembling, each winch is appropriately tested in order to verify its performances.



Each winch consists of a main gearbox, featuring either two or three reduction stages, connected to a three-phase asynchronous motor of short-circuited type.

The slow shaft is connected to a single-groove drum accurately machined.

The appropriate winding of the rope is ensured by a guide-ring.

Braking is ensured by an electro-hydraulic clasp brake, in which the blocks operate on a brake-drum connected to the fast shaft of the gearbox.

The vertical stroke is limited by a rotary limit switch fitted to the drum axle. All winches are equipped with an overload limiter according to the Machinery Directive.

The cross travel is performed through a drive unit connected directly to the wheel shaft.

All motors are of self-braking short-circuited type and feature protection IP54 and insulation class F.

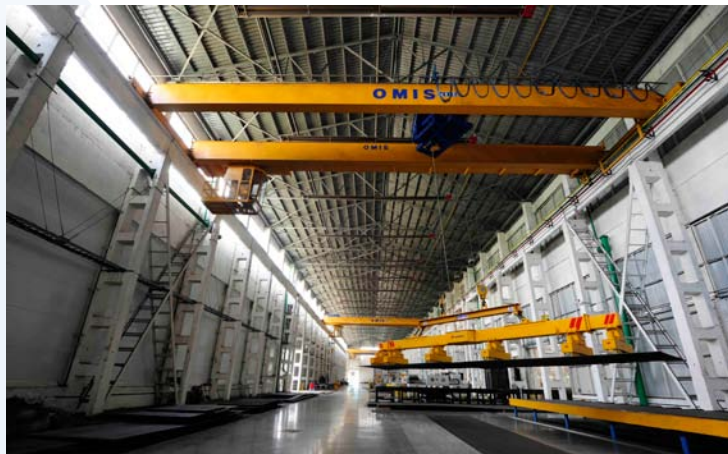


The choice of a winch is mainly based on the SWL with regard to the utilisation class according to FEM specs 1.001, ed. 1987. As the hereby table shows, different lifting speed are offered for each load capacity. All winches refer to short-circuited motors. Slip-ring motors can be furnished upon request. Overall dimensions refer to winches with no auxiliary motor for creep speed. Twenty-thirty cm must be added otherwise.

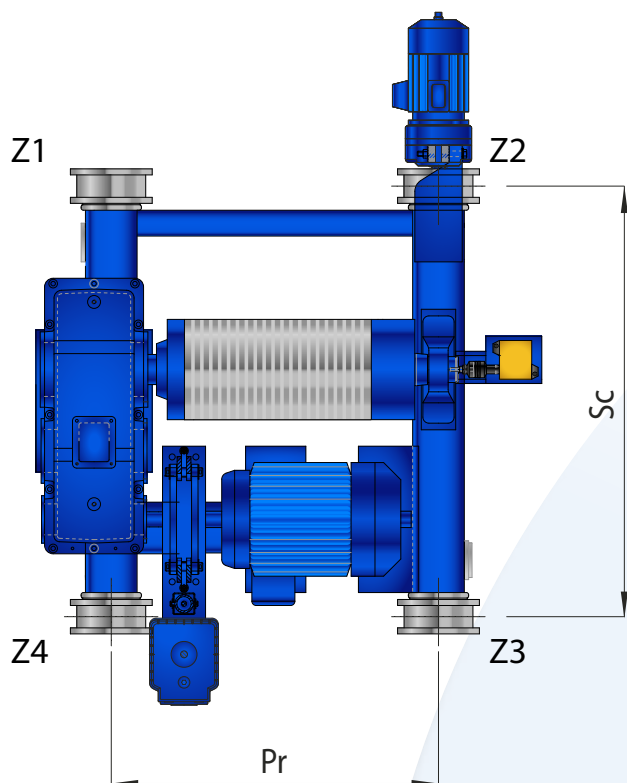
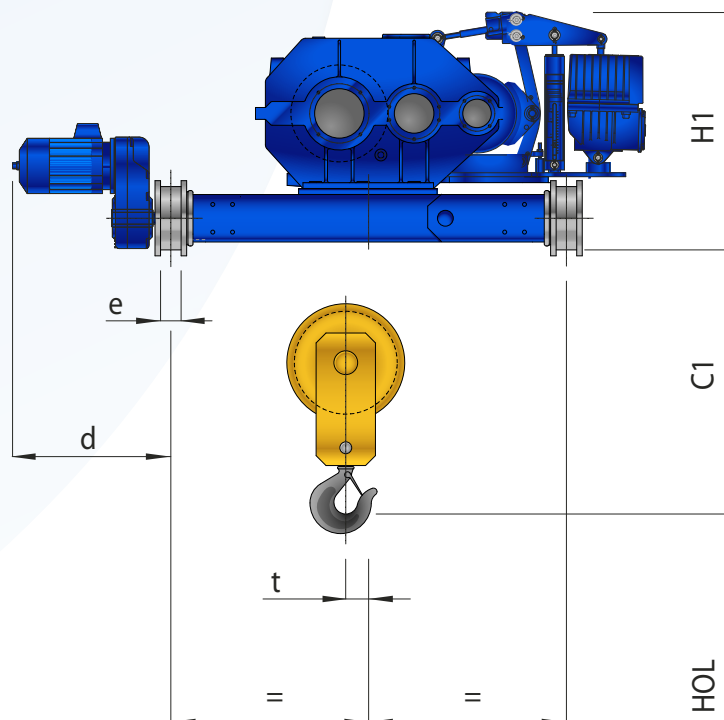
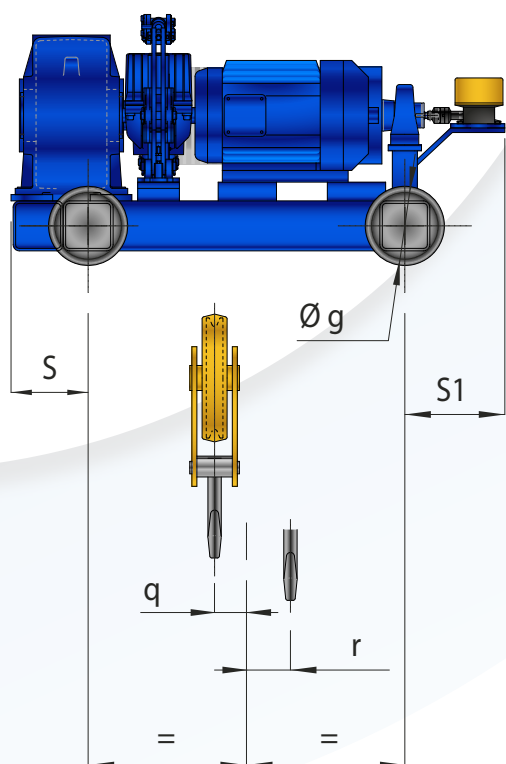
In addition to standard solutions, OMIS can offer special winches designed to meet individual needs.

Double-groove drum winches, two-drum winches and rotating winches come within OMIS normal production.

High hook path and SWL winches are included in OMIS production too.



OPEN BARREL HOISTS - SINGLE REEVED 2/1



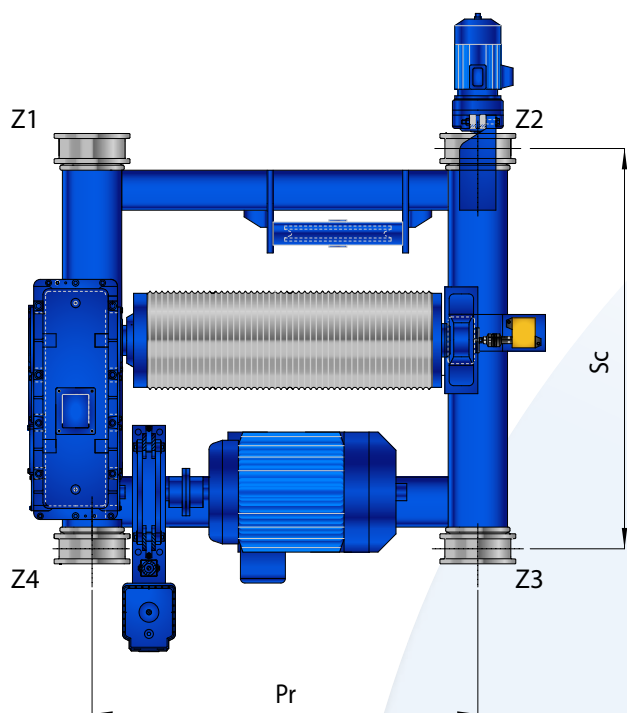
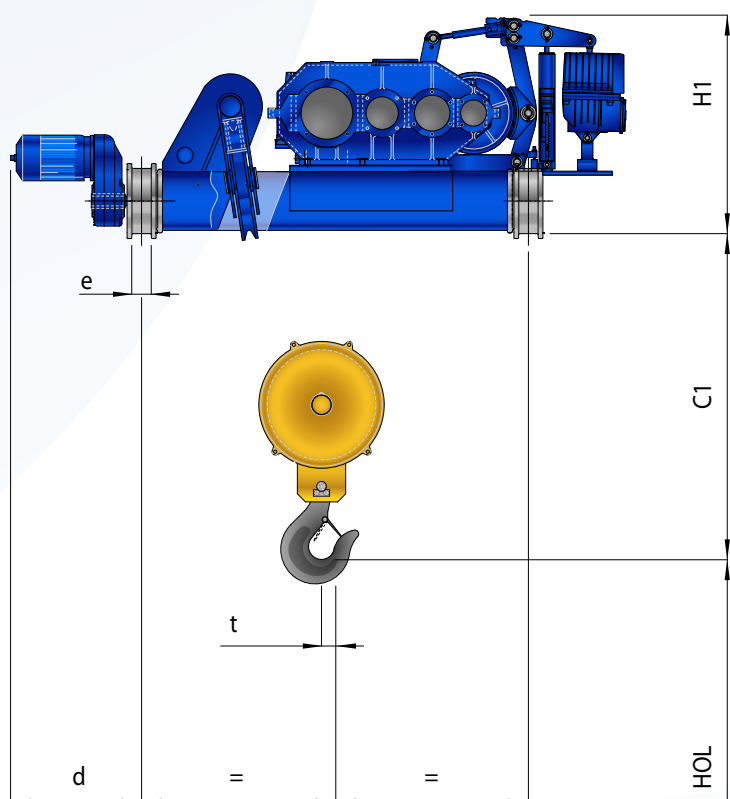
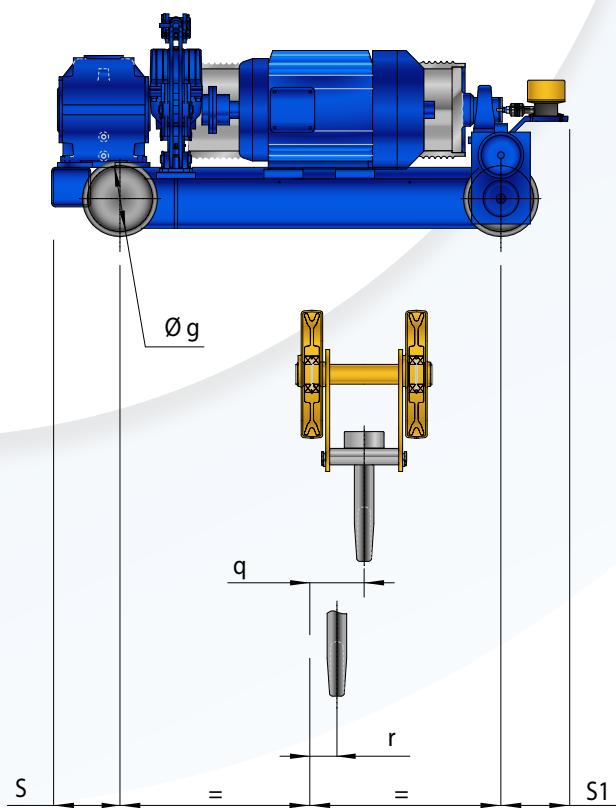
OPEN BARREL HOISTS - SINGLE REEVED 2/1

CODE	CAPACITY		REEVING	ROPE Ø	HOOK DIN 15401	HOL	LIFTING SPEED	MOTOR POWER	CT POWER	STATIC REACTIONS				WEIGHT
	t			mm	nr.	m	m/min	kW	kW	kN				Kg
	M5	M6								Z1	Z2	Z3	Z4	
A260_B05_05_01	5	3.2	2/1	12	4	10	5/1	5.5	0.37	10.6	17.7	17.7	10.6	610
A260_B08_05_01	5	3.2	2/1	12	4	10	8/1.6	7.5	0.37	10.6	17.7	17.7	10.6	610
A260_B10_05_01	5	3.2	2/1	12	4	10	10/2	11	0.37	10.6	17.7	17.7	10.6	610
A260_B12_05_01	5	3.2	2/1	12	4	10	12/2.4	11	0.37	10.6	17.7	17.7	10.6	610
A260_B15_05_01	—	3.2	2/1	12	4	10	15/3	11	0.37	7.4	11.9	11.9	7.4	610
A260_C05_05_02	5	3.2	2/1	12	4	15	5/1	5.5	0.37	18.3	10.5	10.5	18.3	664
A260_C08_05_02	5	3.2	2/1	12	4	15	8/1.6	7.5	0.37	18.3	10.5	10.5	18.3	664
A260_C10_05_02	5	3.2	2/1	12	4	15	10/2	11	0.37	18.3	10.5	10.5	18.3	664
A260_C12_05_02	5	3.2	2/1	12	4	15	12/2.4	11	0.37	18.3	10.5	10.5	18.3	664
A260_C15_05_02	—	3.2	2/1	12	4	15	15/3	11	0.37	12.4	7.4	7.4	12.4	664

CODE	DIMENSIONS											
	mm											
	S	S1	Øg	q	r	d	e	t	H1	C1	Pr	Sc
A260_B05_05_01	185	240	160	77	106	400	56	0	600	670	760	1000
A260_B08_05_01	185	240	160	77	106	400	56	0	600	670	760	1000
A260_B10_05_01	185	240	160	77	106	400	56	0	600	670	760	1000
A260_B12_05_01	185	240	160	77	106	400	56	0	600	670	760	1000
A260_B15_05_01	185	240	160	77	106	400	56	0	600	670	760	1000
A260_C05_05_02	185	240	160	147	102	400	56	0	600	670	940	1000
A260_C08_05_02	185	240	160	147	102	400	56	0	600	670	940	1000
A260_C10_05_02	185	240	160	147	102	400	56	0	600	670	940	1000
A260_C12_05_02	185	240	160	147	102	400	56	0	600	670	940	1000
A260_C15_05_02	185	240	160	147	102	400	56	0	600	670	940	1000

- Reactions refer to the max allowed capacity
- All motors are for inverter use. Dual speed available upon request.
- Standard CT speed for all hoists is 20/5 m/min.

OPEN BARREL HOISTS - SINGLE REEVED 4/1



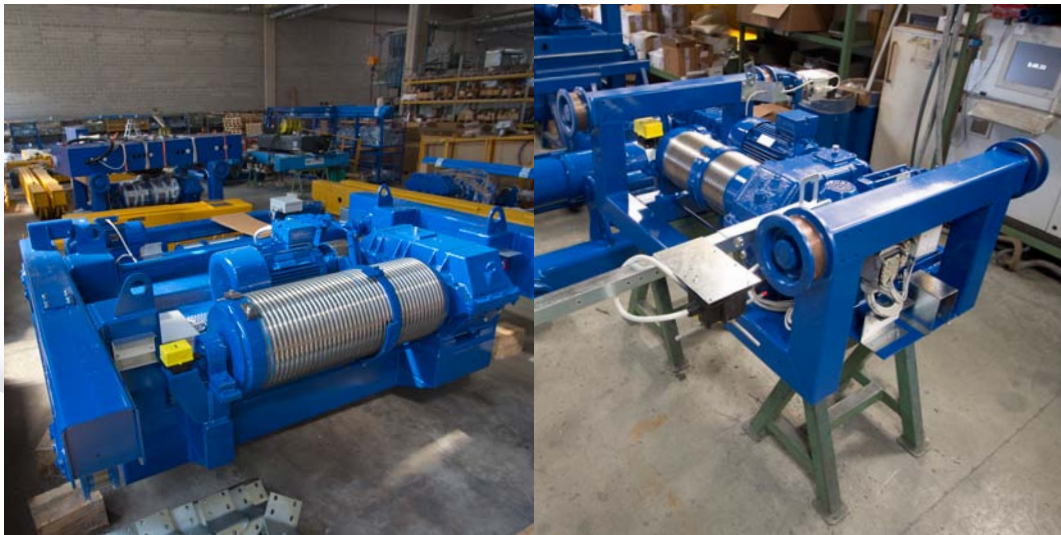
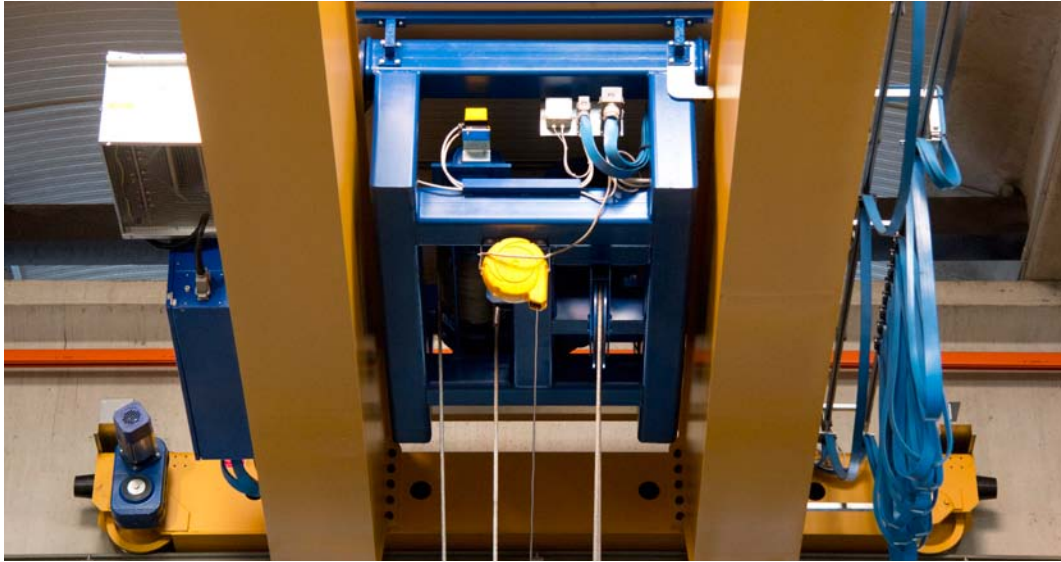
OPEN BARREL HOISTS - SINGLE REEVED 4/1

CODE	CAPACITY		REEVING	ROPE Ø	HOOK DIN 15401	HOL	LIFTING SPEED	MOTOR POWER	CT POWER	STATIC REACTIONS				WEIGHT
	t			mm	nr.	m	m/min	kW	kW	kN				Kg
	M5	M6								Z1	Z2	Z3	Z4	
A260_B04_6D3	6.3	5	4/1	12	5	10	4/0.8	5.5	1.1	10.5	25.7	25.7	10.5	830
A260_B06_6D3	6.3	5	4/1	12	5	10	6/1.2	9	1.1	10.5	25.7	25.7	10.5	830
A260_B08_6D3	6.3	5	4/1	12	5	10	8/1.6	11	1.1	10.5	25.7	25.7	10.5	830
A260_C04_6D3	6.3	5	4/1	12	5	15	4/0.8	5.5	1.1	29.7	12.9	11.0	24.5	1130
A260_C06_6D3	6.3	5	4/1	12	5	15	6/1.2	9	1.1	29.7	12.9	11.0	24.5	1130
A260_C08_6D3	6.3	5	4/1	12	5	15	8/1.6	11	1.1	29.7	12.9	11.0	24.5	1130
A260_B04_10	10	8	4/1	12	6	10	4/0.8	9	1.1	15.3	39.4	39.4	15.3	830
A260_B06_10	10	8	4/1	12	6	10	6/1.2	11	1.1	15.3	39.4	39.4	15.3	830
A260_B08_10	10	8	4/1	12	6	10	8/1.6	15	1.1	15.3	39.4	39.4	15.3	830
A260_C04_10	10	8	4/1	12	6	15	4/0.8	9	1.1	44.8	18.3	15.4	36.6	1130
A260_C06_10	10	8	4/1	12	6	15	6/1.2	11	1.1	44.8	18.3	15.4	36.6	1130
A260_C08_10	10	8	4/1	12	6	15	8/1.6	15	1.1	44.8	18.3	15.4	36.6	1130
A270_B04_12D5	12.5	10	4/1	15	8	10	4/0.8	11	1.1	27.5	46.8	40.0	23.7	1200
A270_B06_12D5	12.5	10	4/1	15	8	10	6/1.2	15	1.1	27.5	46.8	40.0	23.7	1200
A270_B08_12D5	12.5	10	4/1	15	8	10	8/1.6	22	1.1	27.5	46.8	40.0	23.7	1200
A270_C04_12D5	12.5	10	4/1	15	8	15	4/0.8	11	1.1	21.1	55.5	46.1	18.0	1770
A270_C06_12D5	12.5	10	4/1	15	8	15	6/1.2	15	1.1	21.1	55.5	46.1	18.0	1770
A270_C08_12D5	12.5	10	4/1	15	8	15	8/1.6	22	1.1	21.1	55.5	46.1	18.0	1770
A270_B04_16	—	16	4/1	15	12	10	4/0.8	15	1.1	34.3	58.9	50.3	29.5	1200
A270_B06_16	—	16	4/1	15	12	10	6/1.2	22	1.1	34.3	58.9	50.3	29.5	1200
A280_B08_16	—	16	4/1	20	10	10	8/1.6	30	1.1	36.6	56.7	57.4	37.0	2460
A270_C04_16	—	16	4/1	15	12	15	4/0.8	15	1.1	25.9	21.9	57.9	69.9	1770
A270_C06_16	—	16	4/1	15	12	15	6/1.2	22	1.1	25.9	21.9	57.9	69.9	1770
A280_C08_16	—	16	4/1	20	10	15	8/1.6	30	1.1	34.2	65.1	59.0	31.4	2630
A270_B04_20	20	—	4/1	15	12	10	4/0.8	18.5	1.1	40.6	69.8	65.4	38.1	1285
A270_C04_20	20	—	4/1	15	12	15	4/0.8	18.5	1.1	27.6	90.5	76.7	23.4	1580
A280_B04_20	—	20	4/1	20	10	10	4/0.8	18.5	1.1	44.0	69.2	70.0	44.5	2460
A280_B06_20	—	20	4/1	20	10	10	6/1.2	30	1.1	44.0	69.2	70.0	44.5	2460
A280_B08_20	—	20	4/1	20	10	10	8/1.6	37	1.1	44.0	69.2	70.0	44.5	2460
A280_C04_20	—	20	4/1	20	10	10	4/0.8	18.5	1.1	40.9	79.5	71.9	37.4	2630
A280_C06_20	—	20	4/1	20	10	10	6/1.2	30	1.1	40.9	79.5	71.9	37.4	2630
A280_C08_20	—	20	4/1	20	10	10	8/1.6	37	1.1	40.9	79.5	71.9	37.4	2630
A280_B04_30	30	25	4/1	20	10	10	4/0.8	22	2.2	62.5	100.3	101.6	62.5	2460
A280_B06_25		25	4/1	20	10	10	6/1.2	30	2.2	53.2	84.7	85.8	53.9	2460
A280_C04_30	30	25	4/1	20	10	15	4/0.8	22	2.2	57.6	115.5	104.2	52.4	2630
A280_C06_25		25	4/1	20	10	15	6/1.2	30	2.2	49.3	97.5	88.1	44.9	2630
A280_B06_30	30	—	4/1	20	10	10	6/1.2	37	2.2	62.5	100.3	101.6	62.5	2460
A280_C06_30	30	—	4/1	20	10	15	6/1.2	37	2.2	57.6	115.5	104.2	52.4	2630
A280_B03_32	32	—	4/1	20	10	9	3.5/0.7	22	2.2	66.7	107.0	108.4	66.7	2460
A280_B04_32	32	—	4/1	20	10	9	4.5/0.8	30	2.2	66.7	107.0	108.4	66.7	2460
A280_B05_32	32	—	4/1	20	10	9	5.5/1.1	30	2.2	66.7	107.0	108.4	66.7	2460

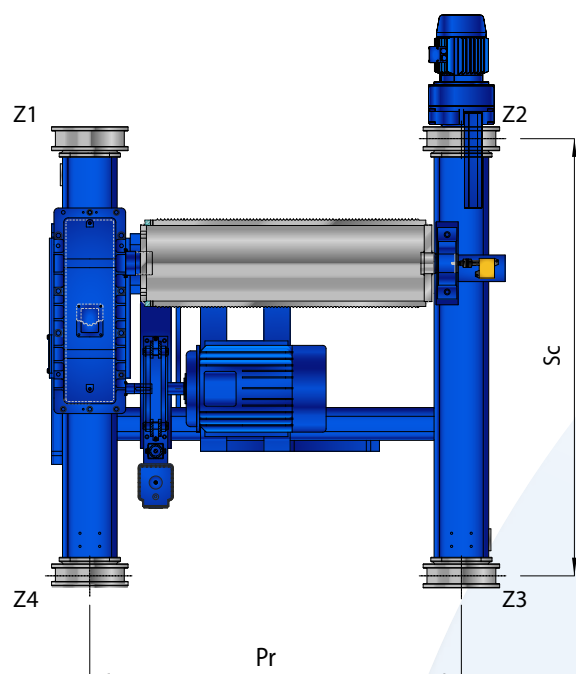
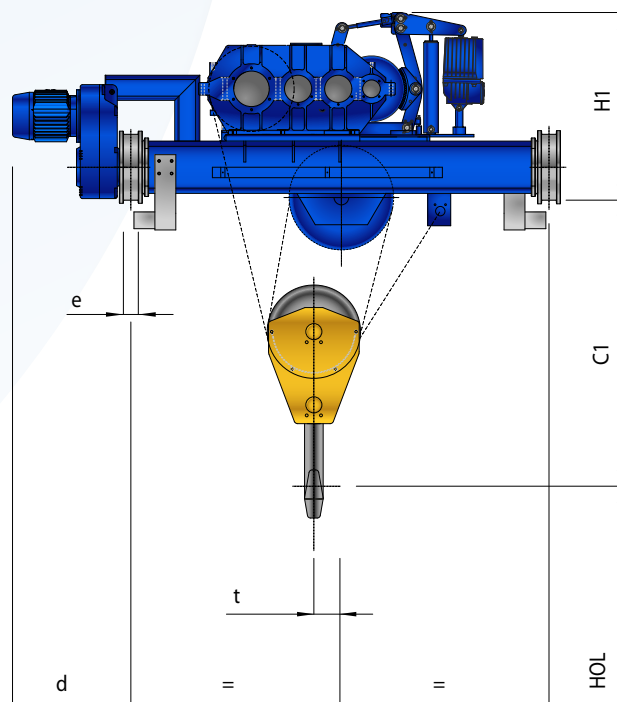
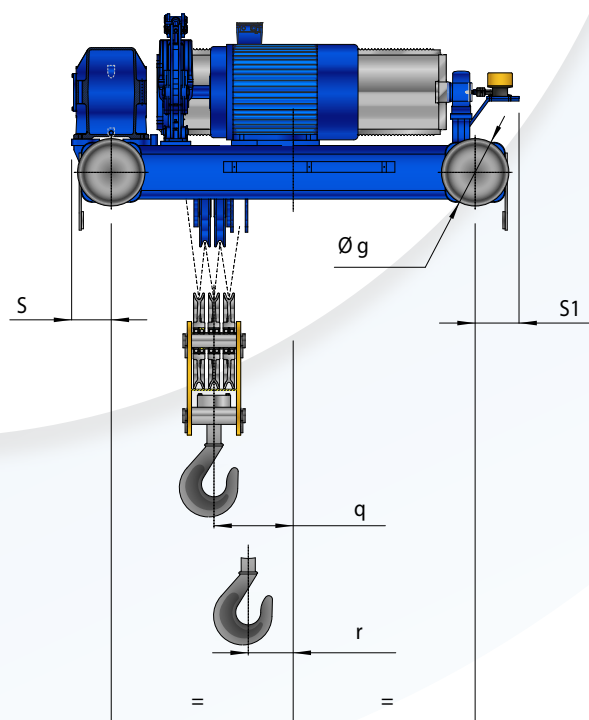
- Reactions refer to the max allowed capacity
- All motors are for inverter use. Dual speed available upon request.
- Standard CT speed for all hoists is 20/5 m/min.

OPEN BARREL HOISTS - SINGLE REEVED 4/1

CODE	DIMENSIONS											
	mm											
	S	S1	Øg	q	r	d	e	t	H1	C1	Pr	Sc
A260_B04_6D3	185	220	160	265	85	490	56	0	600	670	1110	1000
A260_B06_6D3	185	220	160	265	85	490	56	0	600	670	1110	1000
A260_B08_6D3	185	220	160	265	85	490	56	0	600	670	1110	1000
A260_C04_6D3	145	220	200	365	90	505	56	0	620	900	1545	1000
A260_C06_6D3	145	220	200	365	90	505	56	0	620	900	1545	1000
A260_C08_6D3	145	220	200	365	90	505	56	0	620	900	1545	1000
A260_B04_10	185	220	160	265	85	490	56	0	600	670	1110	1000
A260_B06_10	185	220	160	265	85	490	56	0	600	670	1110	1000
A260_B08_10	185	220	160	265	85	490	56	0	600	670	1110	1000
A260_C04_10	145	220	200	365	90	505	56	-55	620	900	1545	1000
A260_C06_10	145	220	200	365	90	505	56	-55	620	900	1545	1000
A260_C08_10	145	220	200	365	90	505	56	-55	620	900	1545	1000
A270_B04_12D5	210	205	200	165	25	515	56	-50	670	1000	1170	1200
A270_B06_12D5	210	205	200	165	25	515	56	-50	670	1000	1170	1200
A270_B08_12D5	210	205	200	165	25	515	56	-50	670	1000	1170	1200
A270_C04_12D5	142	205	200	375	135	515	56	-60	705	1050	1500	1200
A270_C06_12D5	142	205	200	375	135	515	56	-60	705	1050	1500	1200
A270_C08_12D5	142	205	200	375	135	515	56	-60	705	1050	1500	1200
A270_B04_16	210	205	200	165	25	515	56	-50	670	1000	1170	1200
A270_B06_16	210	205	200	165	25	515	56	-50	670	1000	1170	1200
A280_B08_16	225	200	250	165	10	515	60	5	840	1000	1300	1450
A270_C04_16	142	205	200	375	135	515	56	-60	705	1050	1500	1200
A270_C06_16	142	205	200	375	135	515	56	-60	705	1050	1500	1200
A280_C08_16	185	145	250	320	60	515	60	-40	840	1000	1750	1450
A270_B04_20	192	205	200	165	25	515	60	-25	670	1000	1170	1450
A270_C04_20	142	205	200	430	135	515	60	-60	705	1000	1615	1450
A280_B04_20	225	200	250	165	10	570	60	5	840	1000	1300	1450
A280_B06_20	225	200	250	165	10	570	60	5	840	1000	1300	1450
A280_B08_20	225	200	250	165	10	570	60	5	840	1000	1300	1450
A280_C04_20	185	145	250	320	60	570	60	-40	840	1000	1750	1450
A280_C06_20	185	145	250	320	60	570	60	-40	840	1000	1750	1450
A280_C08_20	185	145	250	320	60	570	60	-40	840	1000	1750	1450
A280_B04_30	225	200	250	165	10	570	60	5	840	1000	1300	1450
A280_B06_25	225	200	250	165	10	570	60	5	840	1000	1300	1450
A280_C04_30	185	145	250	320	60	570	60	-40	840	1000	1750	1450
A280_C06_25	185	145	250	320	60	570	60	-40	840	1000	1750	1450
A280_B06_30	225	200	250	165	10	570	60	5	840	1000	1300	1450
A280_C06_30	185	145	250	320	60	570	60	-40	840	1000	1750	1450
A280_B03_32	225	200	250	165	10	570	60	5	840	1000	1300	1450
A280_B04_32	225	200	250	165	10	570	60	5	840	1000	1300	1450
A280_B05_32	225	200	250	165	10	570	60	5	840	1000	1300	1450



OPEN BARREL HOISTS - SINGLE REEVED 6/1



OPEN BARREL HOISTS - SINGLE REEVED 6/1

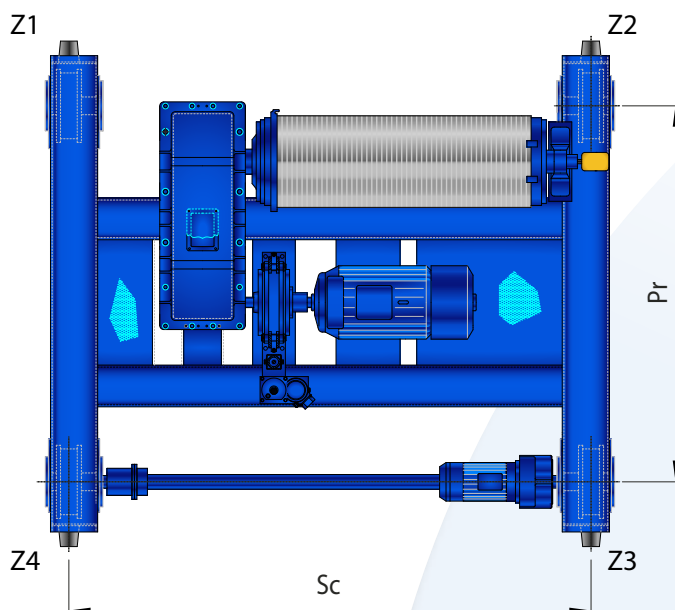
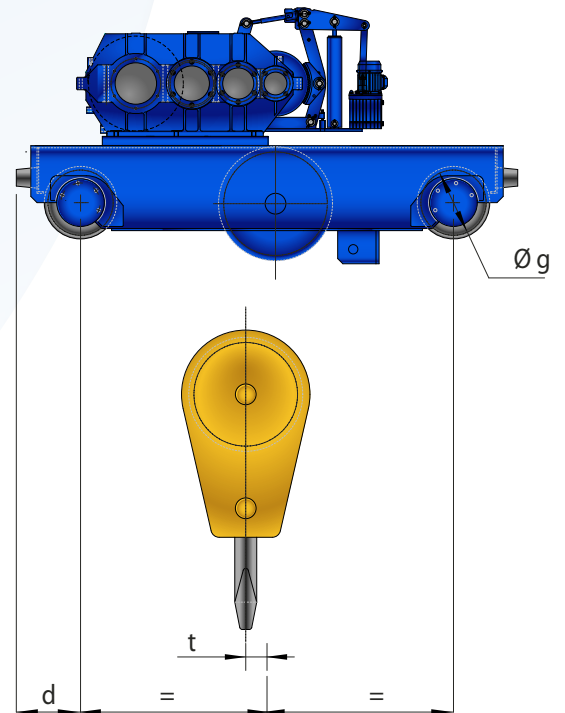
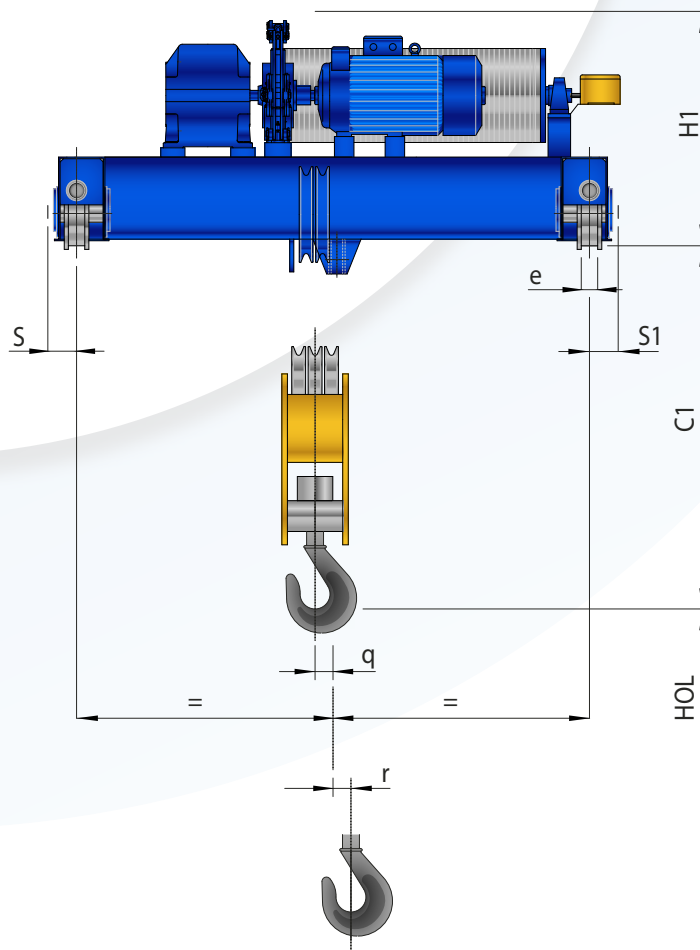
CODE	CAPACITY		REEVING	ROPE Ø	HOOK DIN 15401	HOL	LIFTING SPEED	MOTOR POWER	CT POWER	STATIC REACTIONS				WEIGHT
	t			mm	nr.	m	m/min	kW	kW	kN				Kg
	M5	M6								Z1	Z2	Z3	Z4	
A270_6B04_20	—	20	6/1	15	10	10	4/0.8	18.5	1.1	73.2	31.2	34.6	82.2	1760
A270_6B05_20	—	20	6/1	15	10	10	5/1	22	1.1	73.2	31.2	34.6	82.2	1760
A270_6C04_20	—	20	6/1	15	10	15	4/0.8	18.5	1.1	75.1	23.4	28.4	94.3	2100
A270_6C05_20	—	20	6/1	15	10	15	5/1	22	1.1	75.1	23.4	28.4	94.3	2100
A270_B04_25	25	—	6/1	15	10	10	4/0.8	22	2.2	90.2	37.6	41.9	101.4	1760
A270_C04_25	25	—	6/1	15	10	15	4/0.8	22	2.2	94.6	24.6	31.4	120.6	2100
A280_B03_35	35	32	6/1	20	12	10	3/0.6	30	2.2	134.5	58.3	58.3	134.5	3200
A280_B04_35	35	32	6/1	20	12	10	4/0.8	30	2.2	134.5	58.3	58.3	134.5	3200
A280_B05_35	35	32	6/1	20	12	10	5/1	37	2.2	134.5	58.3	58.3	134.5	3200
A280_C03_35	35	32	6/1	20	12	15	3/0.6	30	2.2	127.9	68.4	66.1	123.3	3850
A280_C04_35	35	32	6/1	20	12	15	4/0.8	30	2.2	127.9	68.4	66.1	123.3	3850
A280_C05_35	35	32	6/1	20	12	15	5/1	37	2.2	127.9	68.4	66.1	123.3	3850
A280_6B03_35	—	35	6/1	20	16	10	3/0.6	30	2.2	134.5	58.3	58.3	134.5	3200
A280_6B04_35	—	35	6/1	20	16	10	4/0.8	30	2.2	134.5	58.3	58.3	134.5	3200
A280_6B05_35	—	35	6/1	20	16	10	5/1	37	2.2	134.5	58.3	58.3	134.5	3200
A280_6C03_35	—	35	6/1	20	16	15	3/0.6	30	2.2	127.9	68.4	68.4	123.3	3850
A280_6C04_35	—	35	6/1	20	16	15	4/0.8	30	2.2	127.9	68.4	68.4	123.3	3850
A280_6C05_35	—	35	6/1	20	16	15	5/1	37	2.2	127.9	68.4	68.4	123.3	3850
A280_B03_40	40	—	6/1	20	12	10	3/0.6	30	2.2	152.4	65.4	65.4	152.4	3200
A280_B04_40	40	—	6/1	20	12	10	4/0.8	37	2.2	152.4	65.4	65.4	152.4	3200
A280_C03_40	40	—	6/1	20	12	15	3/0.6	30	2.2	144.9	76.9	74.3	139.6	3850
A280_C04_40	40	—	6/1	20	12	15	4/0.8	37	2.2	144.9	76.9	74.3	139.6	3850
A280_B03_50	50 (*)	—	6/1	20	12	10	2.7/0.6	30	3	174.1	96.2	96.2	174.1	4000
A280_B03D5_50	50 (*)	—	6/1	20	12	10	3.5/0.7	37	3	174.1	96.2	96.2	174.1	4000

(*) Hoists in M4 Duty Group

CODE	DIMENSIONS											
	mm											
	S	S1	Øg	q	r	d	e	t	H1	C1	Pr	Sc
A270_6B04_20	140	245	200	325	215	575	60	-25	780	1160	1450	1450
A270_6B05_20	140	245	200	325	215	575	60	-25	780	1160	1450	1450
A270_6C04_20	140	140	250	570	338	575	60	-60	815	1150	1940	1450
A270_6C05_20	140	140	250	570	338	575	60	-60	815	1150	1940	1450
A270_B04_25	140	245	200	325	215	575	60	45	780	1160	1450	1450
A270_C04_25	140	140	250	570	338	575	60	88	815	1150	1940	1450
A280_B03_35	185	205	315	370	210	680	70	0	900	1240	1700	2000
A280_B04_35	185	205	315	370	210	680	70	0	900	1240	1700	2000
A280_B05_35	185	205	315	370	210	680	70	0	900	1240	1700	2000
A280_C03_35	175	205	315	450	200	680	70	20	900	1395	2700	2000
A280_C04_35	175	205	315	450	200	680	70	20	900	1395	2700	2000
A280_C05_35	175	205	315	450	200	680	70	20	900	1395	2700	2000
A280_6B03_35	185	205	315	370	210	680	70	0	900	1320	1700	2000
A280_6B04_35	185	205	315	370	210	680	70	0	900	1320	1700	2000
A280_6B05_35	185	205	315	370	210	680	70	0	900	1320	1700	2000
A280_6C03_35	175	205	315	450	200	680	70	20	900	1475	2700	2000
A280_6C04_35	175	205	315	450	200	680	70	20	900	1475	2700	2000
A280_6C05_35	175	205	315	450	200	680	70	20	900	1475	2700	2000
A280_B03_40	185	205	315	370	210	680	70	0	900	1240	1700	2000
A280_B04_40	185	205	315	370	210	680	70	0	900	1240	1700	2000
A280_C03_40	175	205	315	450	200	680	70	20	900	1395	2700	2000
A280_C04_40	175	205	315	450	200	680	70	20	900	1395	2700	2000
A280_B03_50	185	205	315	440	250	750	70	0	1000	1320	1850	2500
A280_B03D5_50	185	205	315	440	250	750	70	0	1000	1320	1850	2500

- Reactions refer to the max allowed capacity
- All motors are for inverter use. Dual speed available upon request.
- Standard CT speed for all hoists is 20/5 m/min.

OPEN BARREL HOISTS - SINGLE REEVED 6/1 (RS350)



OPEN BARREL HOISTS - SINGLE REEVED 6/1 (RS350)

CODE	CAPACITY		REEVING	ROPE Ø	HOOK DIN 15401	HOL	LIFTING SPEED	MOTOR POWER	CT POWER	STATIC REACTIONS				WEIGHT
	t			mm	nr.	m	m/min	kW	kW	kN				Kg
	M5	M6								Z1	Z2	Z3	Z4	
A350_6B04_40	—	40	6/1	22	16	10	4/0.8	37	2.2	121.5	107.5	107.5	121.5	4800
A350_6B05_40	—	40	6/1	22	16	10	5/1	45	2.2	121.5	107.5	107.5	121.5	4800
A350_6B06_40	—	40	6/1	22	16	10	6/1.2	55	2.2	121.5	107.5	107.5	121.5	4800
A350_6C04_40	—	40	6/1	22	16	15	4/0.8	37	2.2	127.0	105.1	105.1	127.0	5200
A350_6C05_40	—	40	6/1	22	16	15	5/1	45	2.2	127.0	105.1	105.1	127.0	5200
A350_6C06_40	—	40	6/1	22	16	15	6/1.2	55	2.2	127.0	105.1	105.1	127.0	5200
A350_B03_50	50	—	6/1	22	16	10	3.5/0.7	37	3	148.3	130.8	130.8	148.3	4800
A350_B04_50	50	—	6/1	22	16	10	4/0.8	45	3	148.3	130.8	130.8	148.3	4800
A350_B05_50	50	—	6/1	22	16	10	5/1	55	3	148.3	130.8	130.8	148.3	4800
A350_C03_50	50	—	6/1	22	16	15	3.5/0.7	37	3	154.8	127.3	127.3	154.8	5200
A350_C04_50	50	—	6/1	22	16	15	4/0.8	45	3	154.8	127.3	127.3	154.8	5200
A350_C05_50	50	—	6/1	22	16	15	5/1	55	3	154.8	127.3	127.3	154.8	5200
A350_6B03_50	—	50	6/1	22	20	10	3.5/0.7	37	3	148.3	130.8	130.8	148.3	4800
A350_6B04_50	—	50	6/1	22	20	10	4/0.8	45	3	148.3	130.8	130.8	148.3	4800
A350_6B05_50	—	50	6/1	22	20	10	5/1	55	3	148.3	130.8	130.8	148.3	4800
A350_6C03_50	—	50	6/1	22	20	15	3.5/0.7	37	3	154.8	127.3	127.3	154.8	5200
A350_6C04_50	—	50	6/1	22	20	15	4/0.8	45	3	154.8	127.3	127.3	154.8	5200
A350_6C05_50	—	50	6/1	22	20	15	5/1	55	3	154.8	127.3	127.3	154.8	5200
A350_B02_60	60	—	6/1	24	20	10	2/0.4	30	4	186.0	152.9	152.9	186.0	6800
A350_B03_60	60	—	6/1	24	20	10	3/0.6	37	4	186.0	152.9	152.9	186.0	6800
A350_B04_60	60	—	6/1	24	20	10	4/0.8	55	4	186.0	152.9	152.9	186.0	6800
A350_C02_60	60	—	6/1	24	20	15	2/0.4	30	4	187.8	153.8	153.8	187.8	7100
A350_C03_60	60	—	6/1	24	20	15	3/0.6	37	4	187.8	153.8	153.8	187.8	7100
A350_C04_60	60	—	6/1	24	20	15	4/0.8	55	4	187.8	153.8	153.8	187.8	7100

CODE	DIMENSIONS											
	mm											
	S	S1	Øg	q	r	d	e	t	H1	C1	Pr	Sc
A350_6B04_40	140	140	315	88	88	310	80	0	1145	1770	1800	2500
A350_6B05_40	140	140	315	88	88	310	80	0	1145	1770	1800	2500
A350_6B06_40	140	140	315	88	88	310	80	0	1145	1770	1800	2500
A350_6C04_40	140	140	315	165	100	310	80	0	1145	1770	1800	3000
A350_6C05_40	140	140	315	165	100	310	80	0	1145	1770	1800	3000
A350_6C06_40	140	140	315	165	100	310	80	0	1145	1770	1800	3000
A350_B03_50	140	140	315	88	88	310	80	0	1145	1770	1800	2500
A350_B04_50	140	140	315	88	88	310	80	0	1145	1770	1800	2500
A350_B05_50	140	140	315	88	88	310	80	0	1145	1770	1800	2500
A350_C03_50	140	140	315	165	100	310	80	0	1145	1770	1800	3000
A350_C04_50	140	140	315	165	100	310	80	0	1145	1770	1800	3000
A350_C05_50	140	140	315	165	100	310	80	0	1145	1770	1800	3000
A350_6B03_50	140	140	315	88	88	310	80	0	1145	1770	1800	2500
A350_6B04_50	140	140	315	88	88	310	80	0	1145	1770	1800	2500
A350_6B05_50	140	140	315	88	88	310	80	0	1145	1770	1800	2500
A350_6C03_50	140	140	315	165	100	310	80	0	1145	1770	1800	3000
A350_6C04_50	140	140	315	165	100	310	80	0	1145	1770	1800	3000
A350_6C05_50	140	140	315	165	100	310	80	0	1145	1770	1800	3000
A350_B02_60	180	180	400	88	98	380	90	0	1230	1880	1950	3000
A350_B03_60	180	180	400	88	98	380	90	0	1230	1880	1950	3000
A350_B04_60	180	180	400	88	98	380	90	0	1230	1880	1950	3000
A350_C02_60	180	180	400	165	110	380	90	0	1230	1880	1950	3000
A350_C03_60	180	180	400	165	110	380	90	0	1230	1880	1950	3000
A350_C04_60	180	180	400	165	110	380	90	0	1230	1880	1950	3000

- Reactions refer to the max allowed capacity
- All motors are for inverter use. Dual speed available upon request.
- Standard CT speed for all hoists is 20/5 m/min.



The electrical equipment is represented by the pendant push-button station and the electrical panel.

Reference power supply is characterised by a voltage of 380 V and a frequency of 50 Hz (110 V for the auxiliary circuit).

Different values of power supply can be furnished upon request.

Standard protection and insulation

- ▶ lifting motors: IP54, insulation class F
- ▶ travel motors: IP54, insulation class F
- ▶ motor brakes: IP23, insulation class F
- ▶ electrical panel: IP54, max. insulation voltage 2500 V
- ▶ connectors: IP65, max. insulation voltage 600 V
- ▶ push-button station: IP65, max. insulation voltage 500 V
- ▶ limit switches: IP54, max. insulation voltage 500 V



Electrical Panel

The electrical panel consists of:

- ▶ A cubicle, fabricated from sheet steel, with hinged front door, painted with epoxy enamel RAL 5009
- ▶ A triple-pole load breaking isolating switch with external operating handle mechanically inter-locked with the sheet steel case door
- ▶ Contactors mechanically interlocked, relays and timers for dual speeds
- ▶ Fuses for protection against short circuits and motor overloads
- ▶ An electric horn for acoustic warning
- ▶ Wiring is carried out with single-core flame-resistant conductors, featuring a minimum cross sectional area of 1.5 mm². Connections to terminal boards are carried out through metallic terminations.
- ▶ The terminal board is characterised by numbered terminals conforming with the wiring diagram. This ensures simplicity and safety of wiring. All parts of the electrical panel that remain energised even when the load breaking isolating switch is switched off, are appropriately shielded.

Pendant push-button station

The pendant push-button station for the crane control consists of:

- ▶ A housing of shockproof thermoplastic material
- ▶ Shrouded push-buttons with automatic return for all motions (2-speed buttons for dual speeds)
- ▶ Shrouded ON / ALARM push-button with automatic return
- ▶ A mushroom-shaped STOP push-button with non-return lock and manual rotary release - plates, placed by every push-button, describing all functions of the crane

The push-button station is furnished along with 8 metres of self-supporting multi-core cable equipped with a quick detachable connector that makes the assembling easy.



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