

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.

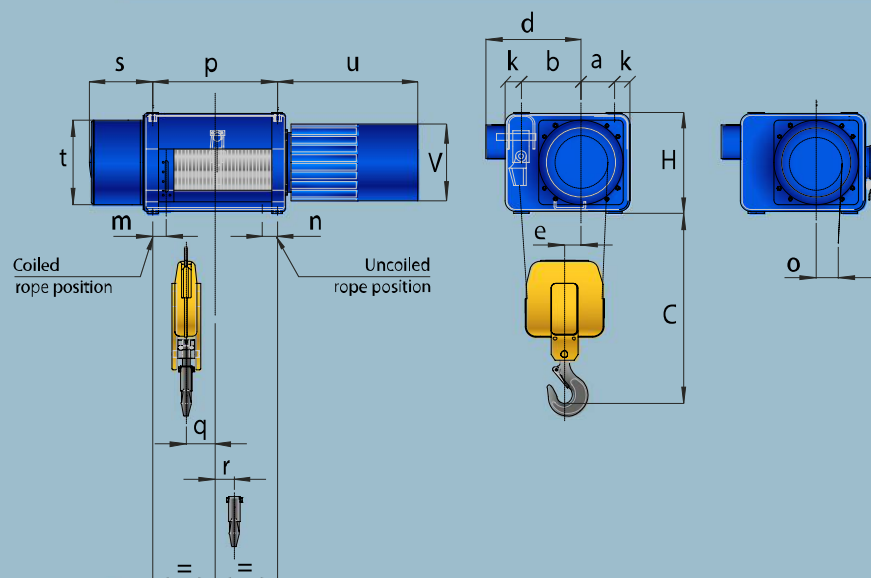


"CBS" VERSION

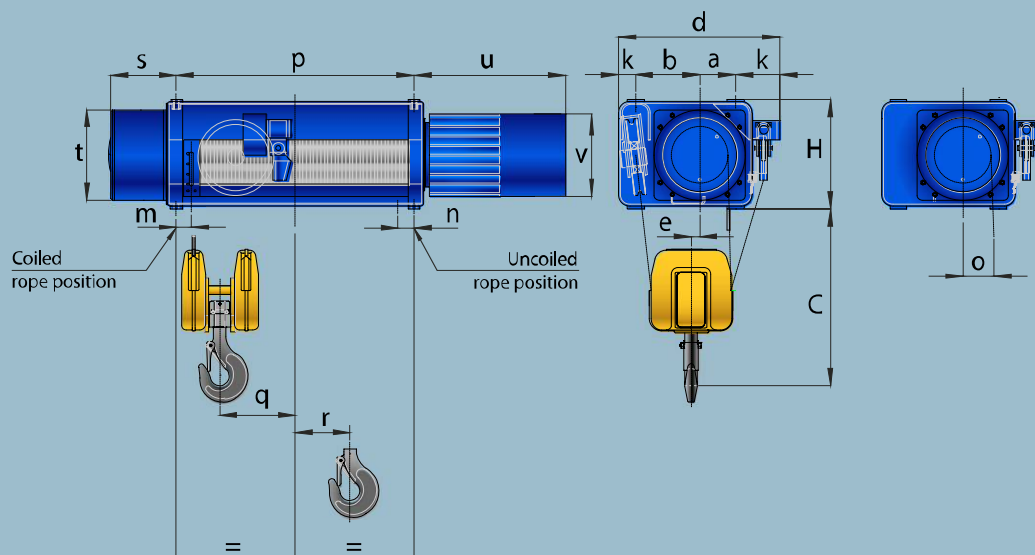
In this version, hoist and trolley are identical to the CBA version, only assembly differs. This interchangeability allows to change the configuration of the crab unit in case of need (typically when rail-to-roof clearance is less than expected).

HOISTS - OPE SERIES

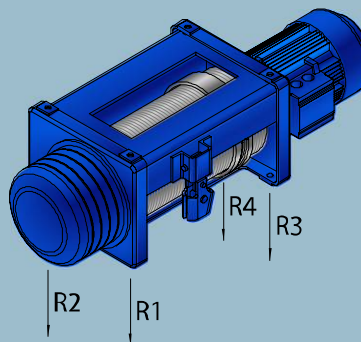
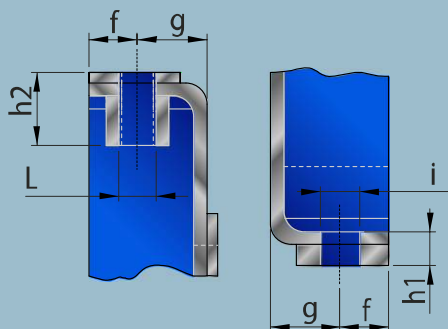
**HOIST WITH
2/1 FALLS OF ROPE**



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



STATIC REACTIONS



HOISTS - OPE SERIES

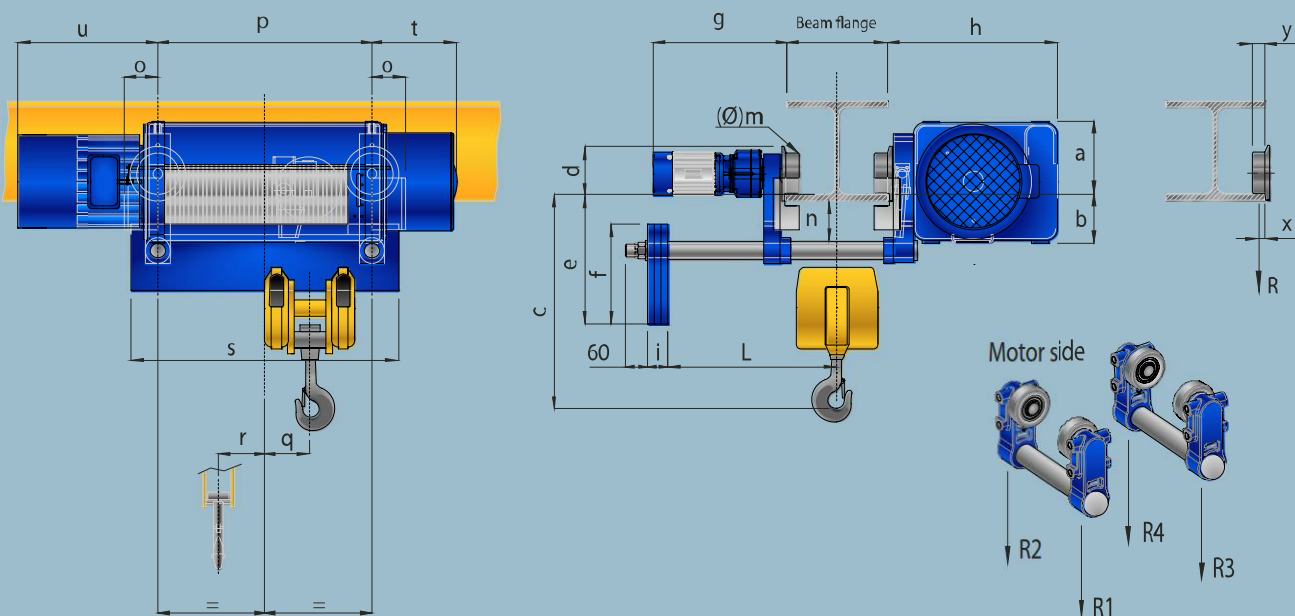
CODE	CAPACITY		REEVING	ROPE Ø	HOOK DIN 15401	HOL	LIFTING SPEED	MOTOR POWER	STATIC REACTIONS				WEIGHT
	t			mm	nr.	m	m/min	kW	kN				Kg
	M5 (2m)	M6 (3m)							R1	R2	R3	R4	
OPE 308 2T 10 N	1.6	1	2/1	7	1	8.8	8/2	3	5.9	6.8	2.4	2.8	160
OPE 308 2T 14 N	1.6	1	2/1	7	1	12.8	8/2	3	6.4	7.4	2.0	2.3	170
OPE 312 2T 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

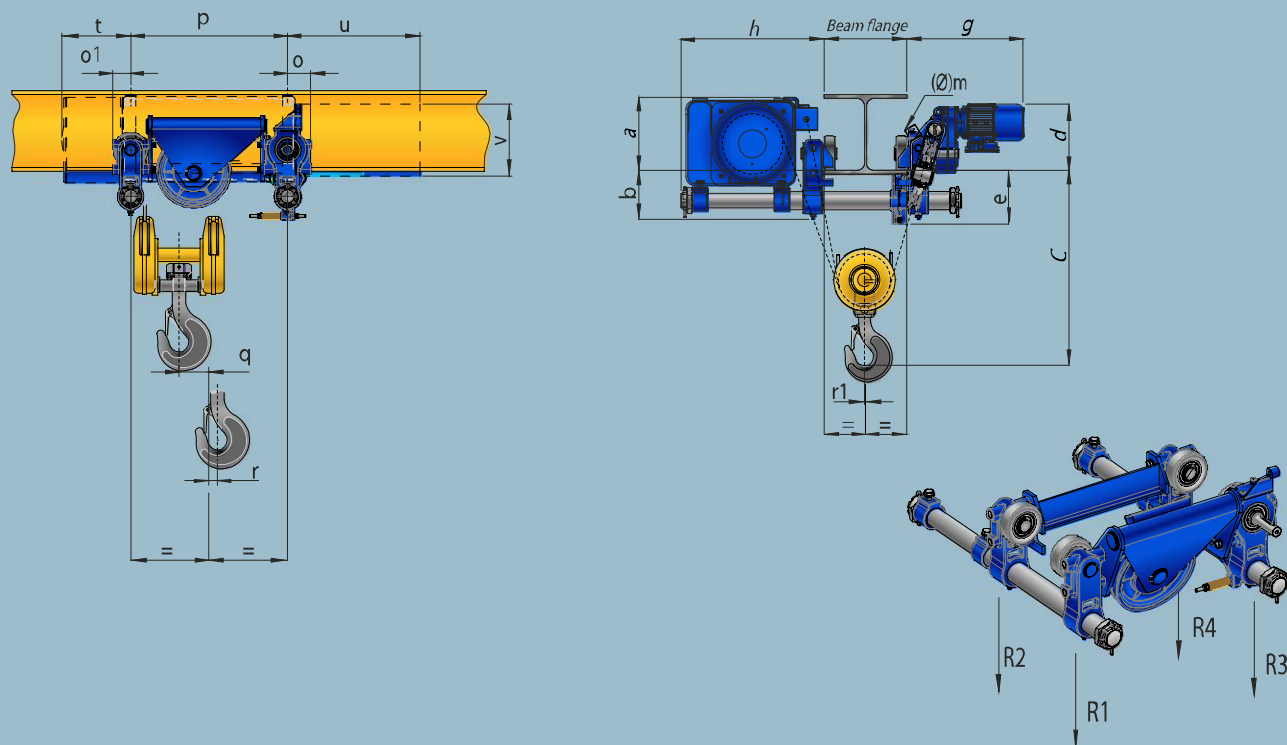
► All motors are for inverter use. Dual speed available upon request.

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.

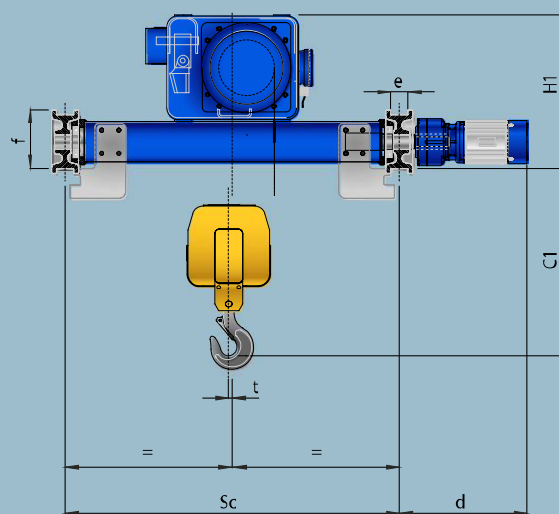
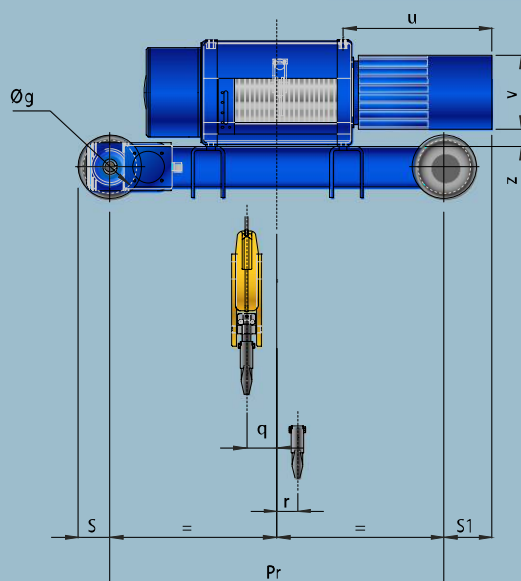
(**) "L" refers to a beam width of 300 mm. For different widths, "L" increases or decreases by half of the width difference.

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

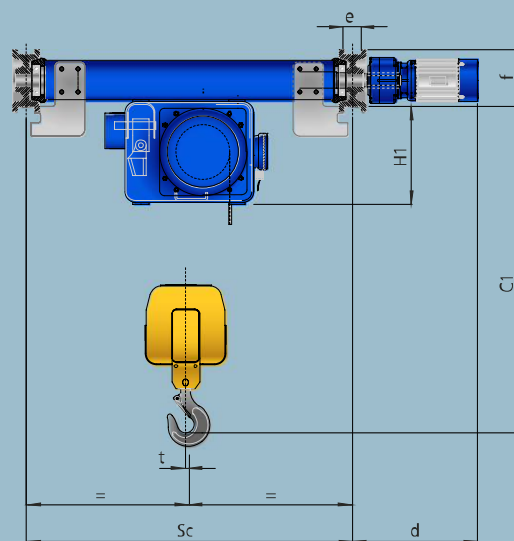
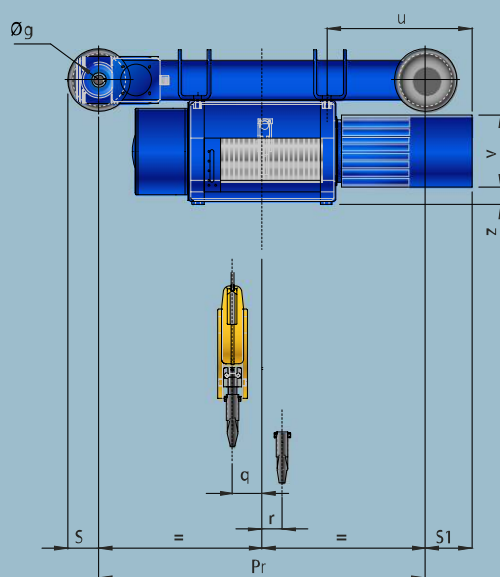


CRAB UNITS - OPE SERIES

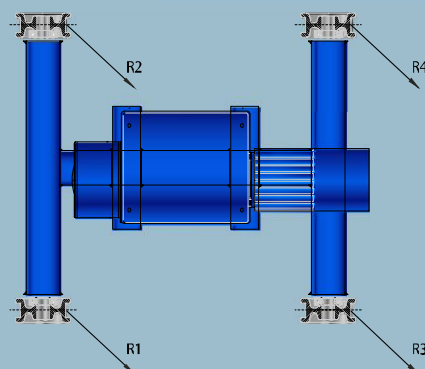
FOOT-MOUNTED HOIST



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	
OPE 308 2T 10N - CBA	1.6	1	2/1	7	1	8.8	8/2	3	0.37	6.0	3.8	6.0	3.8	325
OPE 308 2T 14N - CBA	1.6	1	2/1	7	1	12.8	8/2	3	0.37	6.2	3.7	6.2	3.7	333
OPE 312 2T 10N - 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
OPE 312 2T 14N - 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
OPE 308 4T 10N - 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
OPE 308 4T 13N - 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
OPE 316 2T 10N - 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
OPE 316 2T 14N - 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
OPE 312 4T 10N - CBA	5	4	4/1	10	2.5	9.6	4/1	4	0.37	18.8	8.8	18.8	8.8	457
OPE 312 4T 13N - CBA	5	4	4/1	10	2.5	12.6	4/1	4	0.37	20.2	7.6	20.2	7.6	490
OPE 525 2T 10N - CBA	5	4	2/1	12	2.5	9.6	8/2	8	0.37	16.1	11.6	16.9	11.6	493
OPE 525 2T 14N - 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
OPE 316 4T 10N - CBA	6.3	5	4/1	10	4	9.6	4/1	5	0.37	23.5	10.9	23.5	10.9	487
OPE 316 4T 13N - 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
OPE 525 4T 10N - CBA	10	8	4/1	12	4	9.8	4/1	8	1.1	36.7	17.1	36.7	17.1	658
OPE 525 4T 13N - 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	Øg	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
OPE3084T7N-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
OPE3124T7N-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
OPE3164T7N-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
OPE5254T7N-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.

