

**munck**

-all about handling-

Wire rope hoists XM Series



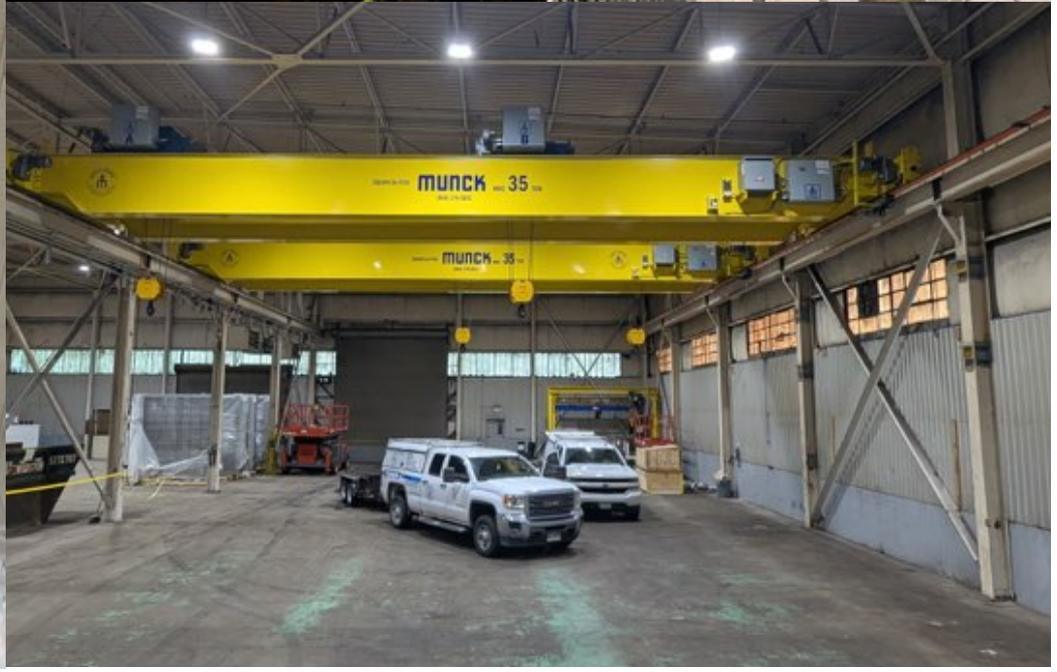
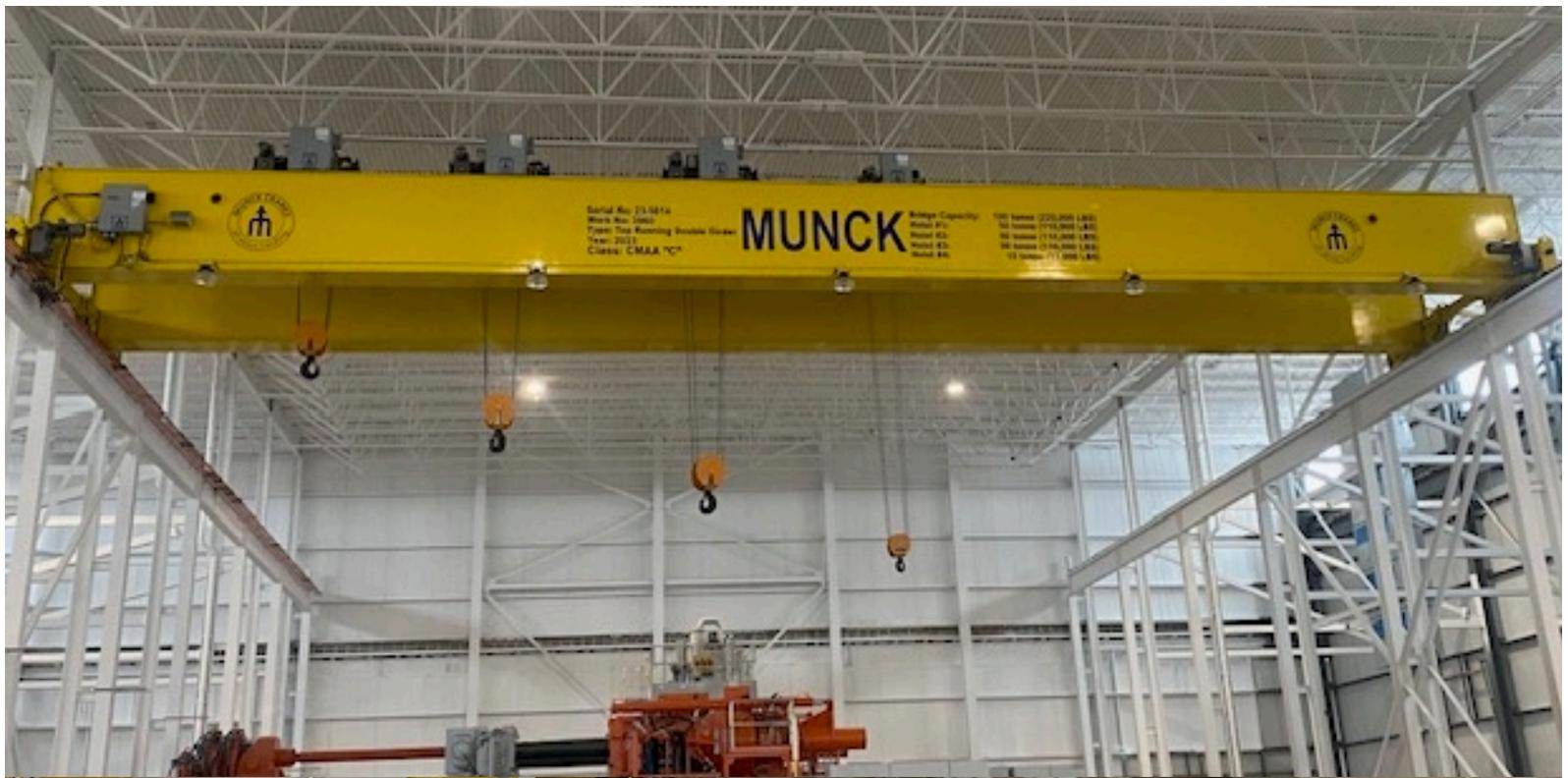
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## The Company

Since 1983, Munck Cranes Inc. has been a proud Canadian-owned and operated company, manufacturing quality overhead cranes and material handling equipment from our base in Stoney Creek, Ontario.

Our dedication to Canadian craftsmanship extends across North America, and into parts of South America, Mexico, and the Middle East.

We distinguish ourselves by setting new benchmarks in the crane service and sales industry, developing solutions that not only meet but exceed customer expectations.

At Munck Cranes, we're more than just a supplier; we're your partners in lifting excellence, offering everything from overhead and gantry cranes to transfer carts and monorail systems, all designed and manufactured with precision. Choose us for unwavering reliability, innovative solutions, and a commitment to safety in every product. We go beyond standard offerings, designing and manufacturing equipment tailored to your specific needs, ensuring a more efficient and safer material handling process, be it on the floor or overhead.

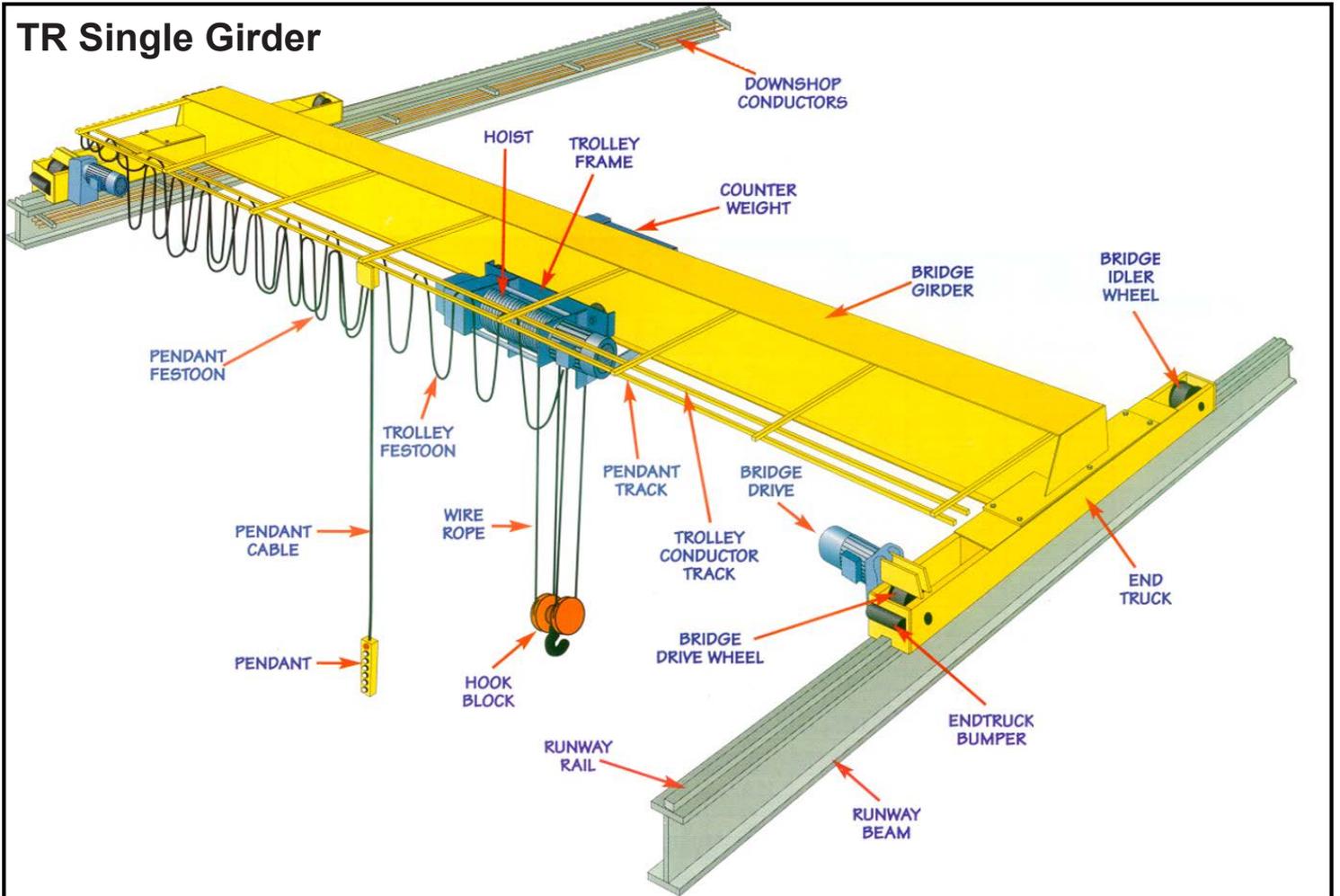
We invest the time upfront to fully understand your requirements, ensuring you receive the perfect equipment for your unique application.



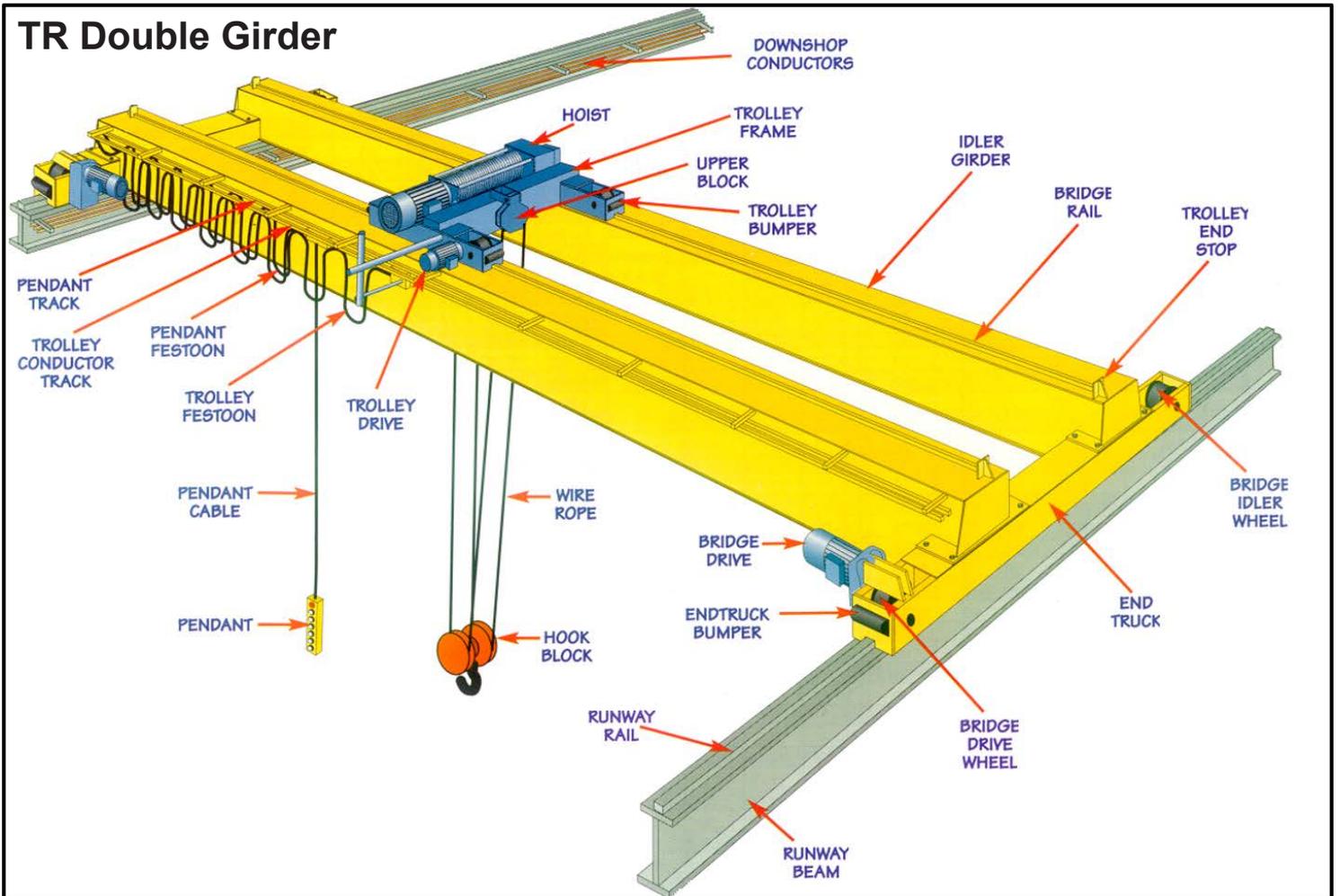
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# Top Running crane component diagrams

## TR Single Girder



## TR Double Girder



# Quality and Certifications

The engineering, manufacturing, installation and service of all MUNCK Cranes are in compliance with the CMAA (the Crane Manufacturers Association of America) specifications.

Munck Cranes operates with an approved quality system registered with DNV in compliance with ISO 9001 and is the leading manufacture of cranes in Canada.

The Munck XM Series Hoists are produced in accordance with the Machine Directive 89/392/EEC.

We are continuously improving our systems to provide an optimum product and service for our clients.



# Marks

The leadership & reliability of MUNCK electric wire rope hoists are confirmed and guaranteed by taking on the responsibilities resulting from the CE mark.

MUNCK wire rope hoists are manufactured under Machine Directives 2006/42/CE.

The CE mark on MUNCK Crane products guarantee the conformity of the product with the pertinent UE regulations in force.

Before being made available for sale or used in the manufacture of our cranes, we ensure that the hoist and the electrical control panels we build are inspected and tested to be in compliance with CSA & UL specifications.

 <b>munck</b>		403 Dewitt Road, Stoney Creek, Ontario L8E 4B9, Canada Ph. +1-866-370-5831		MUNCK CRANES INC. -all about handling-					
ELECTRIC ROPE HOIST PALAN ELECTRIQUE A CABLE			N°			TYPE			
CAPACITY PORTEE		kg.	GROUPE GROUP		MANUFACTURING YEAR ANNEE DE FABRICATION				
HEIGHT OF LIFT COURSE DE LE CROCHET		m.	FEM		POWER PUISSANCE				Kw
HOISTING SPEED VITESSE DE LEVAGE		m/min.			SUPPLY ALIMENTATION				V- Hz







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## Range of wire rope hoists XM series

The manufacturing of the standard version of XM series wire rope hoists covers over 90% of the company's production. This confirms the flexibility of the MUNCK product in adapting to many industrial lifting applications without subjecting the user to a bespoke product.

The production of the new XM series includes 11 construction sizes for capacities between 1,000 Kg and 50,000 Kg, 2 or 4 rope falls, lifting speeds ranging from 1.5 m/min to 12 m/min, foot mountings allowing "supported" or "suspended" fixing (for foot mounted or double rail "crab" units).

A wide range of travelling trolleys are also available in either double or monorail version, with the option of low or standard headroom, and a range of hoists with hook travel from 32 to 65 m and over, capacity from 1,600 to 5,000 Kg, 2 rope falls, and hoists with double output rope from the drum (4/2 reeving), capacity from 1,600 to 25,000 Kg.

Special features are available upon request.





## Standard configurations

The XM series of Munck wire rope hoist are available in the following configurations:

### S2 version (2 rope falls)

Lifting capacity from 1,000 kg to 16,000 kg either supported or suspended.

### S4 version (4 rope falls)

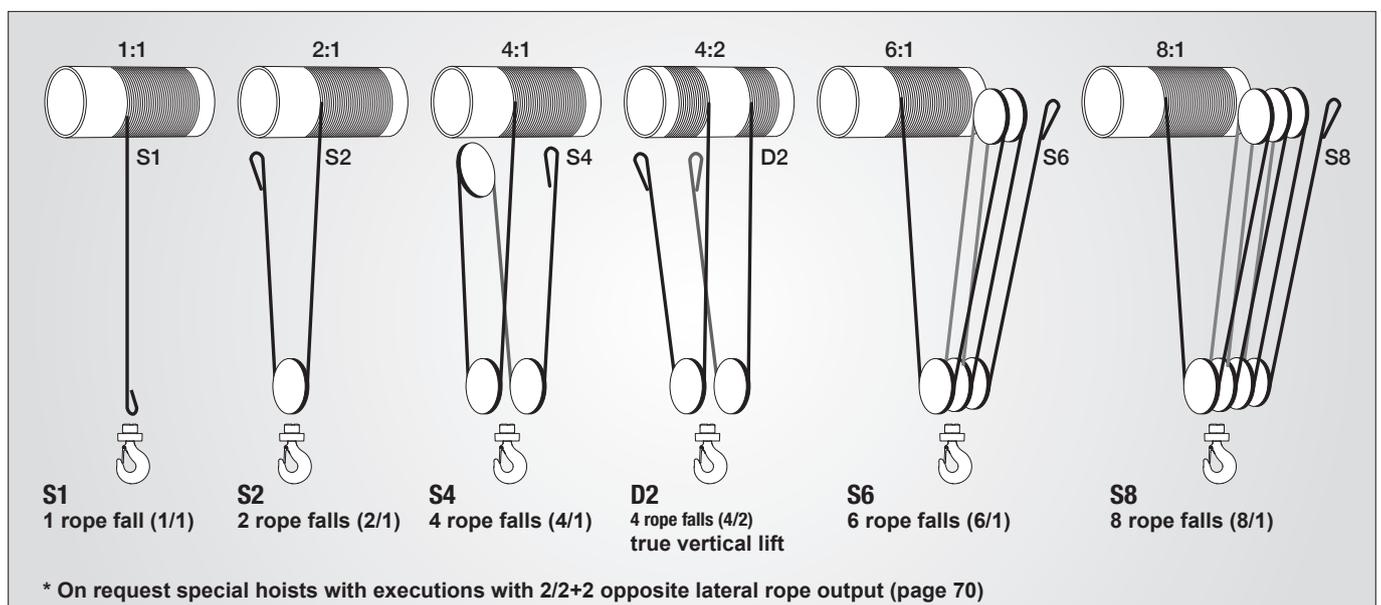
Lifting capacity from 2,000 kg to 32,000 kg either supported or suspended.

### D2 version (true vertical lift)

Lifting capacity from 1,600 kg to 25,000 kg. **Only in "supported" execution**

For capacities from 20,000 kg up to 25,000 kg 2 rope falls.

For capacities from 40,000 kg up to 50,000 kg 4 rope falls.



## TYPE 5

Foot mounted hoist



Foot mounted hoist without trolley.

## TYPE 3

Hoist with monorail trolley



Monorail hoist fitted with standard headroom trolley.  
For capacities from 1,000 kg up to 32,000 kg.  
Version S2-S4.

## TYPE 53

Hoist with bi-rail trolley



Double rail "crab" unit. For capacities from 1,000 kg up to 32,000 kg either supported or suspended, version S2-S4.

### Only in supported execution

For capacities from 20,000 kg up to 25,000 kg 2 rope falls, for capacities from 40,000 kg up to 50,000 kg 4 rope falls.

## TYPE 83

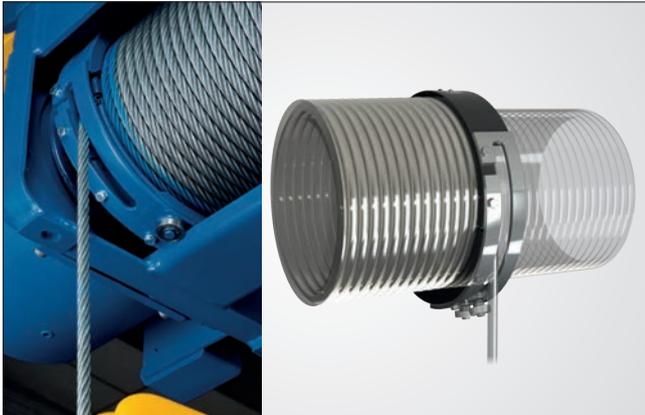
Hoist with monorail trolley low headroom type



Low headroom monorail hoist trolley.  
For capacities from 1,000 kg up to 10,000 kg.  
Version S2-S4.

# Components

## Rope guide



The rope guide consists of two parts: the guide ring and pressure spring. The pressure spring ensures that the rope lays correctly into the drum groove whilst the guide ring always maintains the rope in the correct position preventing the rope from coming off the drum groove. The guide is a robust design fitted with high quality bearings. Movement of the guide across the drum activates the up/down limit switch.

## Hoist gearbox



The 2 or 3 stage planetary gearbox reduces the speed of the electric motor to the required rpm of the drum. Each individual planetary gear is manufactured using heat-treated high quality steel.

## Load limiter



All "XM" series hoists with 2 and 4 rope falls are endowed with overload limiters (OLL) with two reaction thresholds. The OLL acts on the auxiliary circuit by:

- activating a WARNING (1st stop);
- stopping both lifting and travel actions (2nd stop).

When the OLL reaches the 2<sup>nd</sup> stop the only possible action is load lowering.

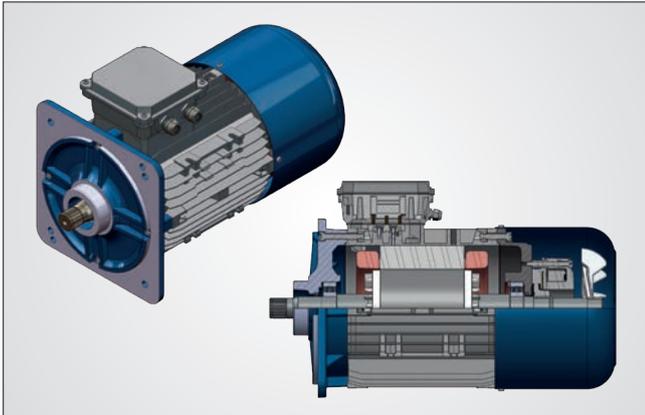
## Bi-rail trolley



The Munck bi-rail trolley is equipped with n°4 wheels with dual edge, sliding on bearings. The two drive wheels are connected directly to the self braking gearmotor. This type of connection allows to avoid any type of external reduction coupling allowing the best trasmission of the motion and less maintenance.

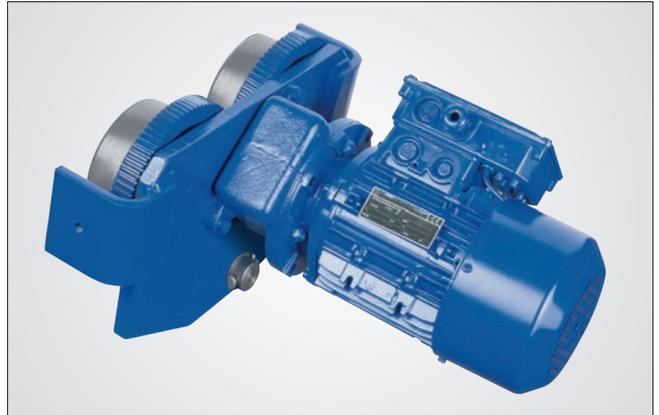
# Components

## Self braking cylindrical motor



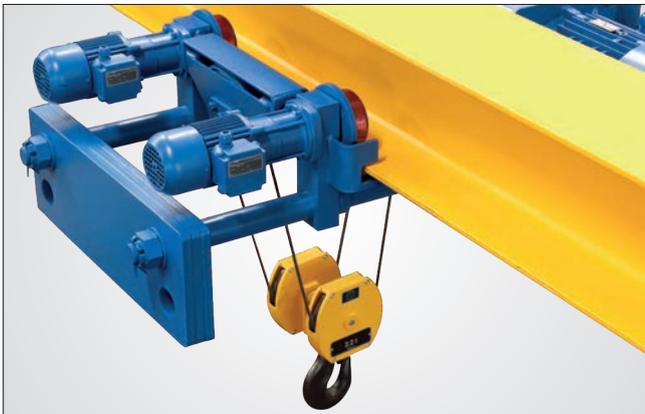
The three-phase asynchronous electric motor with cylindrical rotor and disc brake is available in both single or dual speed option. The single polarity motor allows inverter control to be fitted offering further speed control to suit the application requirements

## Standard headroom trolleys



The standard headroom monorail design enables the hoist to operate directly under and parallel with the crane or runway beam. The hoist is suspended via drive trolley.

## Low headroom trolleys



The low headroom trolley consists of two electric trolley motors fitted onto planetary gearboxes. The trolley is of a live axel design with the gearboxes fitting directly onto the drive shaft of the wheels **removing the need of external gears.**

## Performance

---

Selection of the FEM/CMAA group is determined by 2 parameters:

- a) running time;
- b) duty.

According to FEM/(CMAA) standard the use of hoists is divided to duty groups: 1Bm (B), 1Am (C), 2m (D), 3m (D), 4m (E). 1Bm (B) is for lightest use of hoists. 4m (E) the heaviest.

Generally, when no other duty requirement is indicated, class FEM 2m (D) is the most suitable.



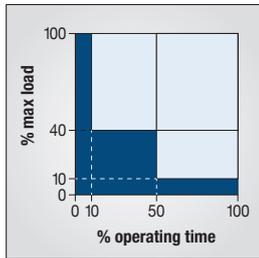
# Selection criteria

When choosing the proper hoist take into account the following considerations:

1. The maximum load (capacity)
2. The maximum hook travel
3. The lifting speed needed (optional micro speed)
4. The trolley speed needed
5. The operating conditions

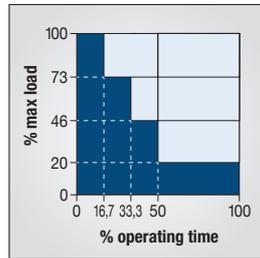
The general hoist model is defined in accordance with the load spectrum, the average daily operating time, the capacity and the reeving.

### L1 Light duty "B"



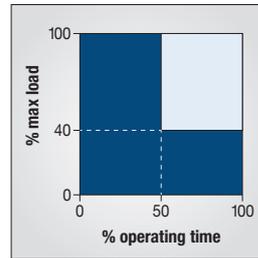
Hoist seldom lifting the maximum load and mostly light loads.

### L2 Medium "C"



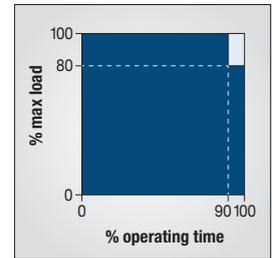
Hoist lifting maximum medium and light loads at an even ratio.

### L3 Heavy "D"



Hoists frequently lifting the maximum load and normally medium loads.

### L4 Very heavy "E"



Hoists regularly lifting loads near the maximum capacity.

<b>Duty mode</b>	FEM 9.511 / DIN 15 020	1Am	2m	3m
	CMAA	C	D	E
		Light/Medium duty work shop crane, single shift operation, medium average loads. Occasional lifting of max load.	Medium/Heavy duty work shop crane, 1 or 2 shift operation. Regular, medium and heavy loads.	Heavy duty crane, 2 shift operation. Nominal load regularly lifted Traverse or other dead loads below the hook.
<b>Hoist group</b>		1Am (C)	2m (D)	3m (E)
<b>Duty Factor</b>		30% ED	40% ED	50% ED
<b>Max starts / hour</b>		<180/h	<240/h	<300/h

### Comparison FEM-ISO-CMAA Groups

Duty class	Running time "T" hour	
L1 - Light duty	6,300	12,500
L2 - Medium duty	3,200	6,300
L3 - Heavy duty	1,600	3,200
L4 - Very heavy duty	800	1,600
<b>FEM</b>	<b>1Am</b>	<b>2m</b>

FEM sec. IX	ISO	CMAA
1BM	M3	B
1Am	M4	C
2m	M5	D
3m	M6	D
4m	M7	E
5m	M8	E

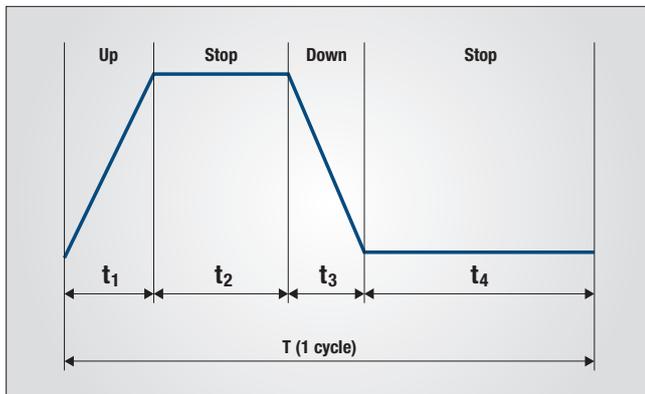
## Duty Rating (ED%)

**Hoist duty group also specifies the Intermittent Duty Rating (ED%).  
Maximum allowed starts/h of hoisting motors.**

This rating relates to the rise in motor temperature that occurs during operation. It determinates how many % of a certain time (max 10min) the motor can run (fast + micro speed): 33% slow speed, 67% with fast speed. The higher of the two speeds can endure longer operation because when the motor speed is higher, the hoist cools itself more effectively.

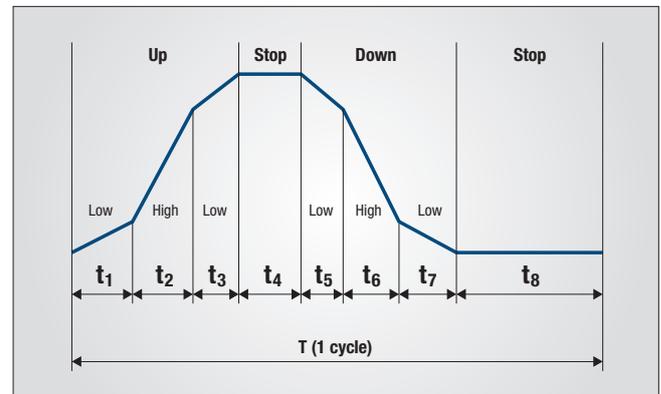
Duty rating (ED%)					
	1Bm (B)	1Am (C)	2m (D)	3m (D)	4m (E)
Duty factor	25%	30%	40%	50%	60%
Max starts/h for dual speed (Fast speed / Micro speed)	<150/h 100/50	<180/h 120/60	<240/h 160/80	<300/h 200/100	<360/h 240/120
Total in 10 min Period, min	2.5 min	3	4	5	6 min
Fast / Micro speed, min	1.7/0.8	2/1	2.7/1.3	3.3/1.7	4/2

### SINGLE SPEED HOISTS



The cycle consists of lifting/stop/lowing and another stop of duration t4 before the cycle is repeated. The cycle is no greater than 10 min. When the single speed hoist operates in this conditions the rise in motor temperature will not exceed the maximum allowable. One cycle includes 2 motor starts %ED =  $(\text{Motor on time } (t_1+t_2)/T) \times 100$ .

### DOUBLE SPEED HOISTS



The cycle consists of a low speed and high-speed periods and stops. In the case of Dual Speed ER hoists, the %ED is 40 (high speed) / 20 (Low speed). Therefore, its total %ED would be 40%+20% = 60% ED.

## Features

The design of Munck wire rope hoist units is complemented by the use of quality components. All gearboxes are of planetary gear type, 2 or 3 stages and lubricated for life. Motors are supplied with cylindrical type disc brakes. The rope guide is manufactured using high quality materials and bearings. Ropes are of high endurance class and galvanized. Monorail low headroom trolleys utilize our twin drive live axel design with planetary geared motors and gearboxes fitted directly onto the drive shaft of the trolley wheels eliminating the need of external gears.



## Abbreviation of the XM range of Munck wire rope hoist

**XM 312 N S4 H7 A /5 a**

Series

Hoist size

Height of lift

Second trolley speed (wherever requested)

Versions:

**S2** - 2 Rope falls

**S4** - 4 Rope falls

**D2** - 4/2 Rope falls  
true vertical lift

Type:

**5** foot mounted supported

**5C1** foot mounted suspended

**3** standard headroom monorail trolley

**43** monorail trolley for curved beam

**83** low headroom monorail trolley

**53** double rail "crab" trolley with supported hoist

**53C1** double rail "crab" trolley with suspended hoist

**N** Normal lifting speed (single)  
**V** Fast lifting speed (single)

Second lifting speed  
(wherever requested)



**MUNCK**

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**ELECTRIC ROPE HOIST**

**PALAN ELECTRIQUE A CÂBLE**

**N° 130072**

**CAPACITY**

**PORTEE**

**5.000 kg.**

**GROUPE**

**GROUP**

**HEIGHT OF LIFT**

**COURSE DE LE CROCHET**

**7 m.**

**FEM**

**2m**

**HOISTING SPEED**

**VITESSE DE LEVAGE**

**4/1.3 m/min.**

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TYPE XM312NS4H7A/53a

MANUFACTURING YEAR 2023  
ANNEE DE FABRICATION

POWER 4/1.3 Kw  
CAPACITE

SUPPLY 400 V- 50 Hz  
ALIMENTATION

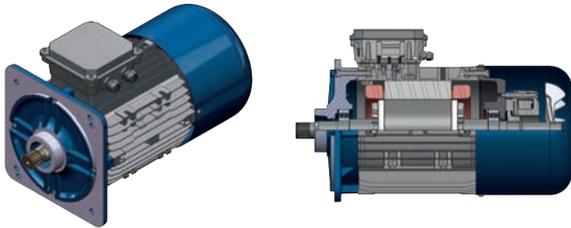
## Technical data

Cylindrical motor  
Trolleys  
Motors absorption



Cylindrical motor

XM SERIES ROPE HOISTS



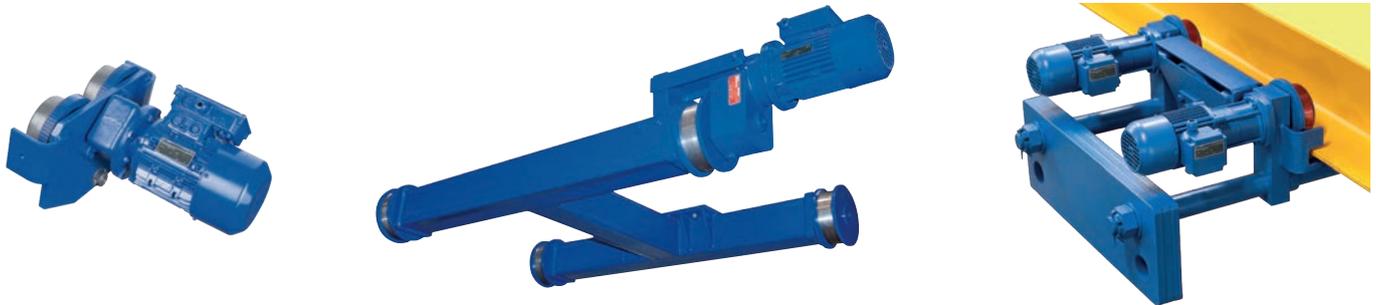
TECHNICAL DATA

Capacity	Group	Hoist	Rope falls	Hook travel				Lifting speed / Motor power							
								N		V		NA		VA	
								m/min	kW *	m/min	kW *	m/min	kW	m/min	kW
1,000	3m	308	2/1	10	14	20	26	9.6	2.5	14.4	2.5	9.6/3.1	2.5/0.83	14.4/4.8	2.5/0.83
1,250	3m	308	2/1	10	14	20	26	9.6	2.5	14.4	4	9.6/3.1	2.5/0.83	14.4/4.8	4/1.3
1,600	2m	308	2/1	10	14	20	26	9.6	2.5	14.4	4	9.6/3.1	2.5/0.83	14.4/4.8	4/1.3
2,000	3m	308	4/1	/	7	10	13	4.8	2.5	7.2	2.5	4.8/1.6	2.5/0.83	7.2/2.4	2.5/0.83
	3m	312	2/1	10	14	20	26	9.6	4	14.4	5	9.6/3.1	4/1.3	14.4/4.8	5/1.6
2,500	3m	308	4/1	/	7	10	13	4.8	2.5	7.2	4	4.8/1.6	2.5/0.83	7.2/2.4	4/1.3
	2m	312	2/1	10	14	20	26	9.6	4	14.4	5.8	9.6/3.1	4/1.3	14.4/4.8	5.8/1.9
3,200	2m	308	4/1	/	7	10	13	4.8	2.5	7.2	4	4.8/1.6	2.5/0.83	7.2/2.4	4/1.3
	2m	316	2/1	10	14	20	26	9.6	5	14.4	7	9.6/3.1	5/1.6	14.4/4.8	7/2.3
4,000	3m	312	4/1	/	7	10	13	4.8	4	7.2	5	4.8/1.6	4/1.3	7.2/2.4	5/1.6
	3m	525	2/1	10	14	20	26	9.6	8	14.4	12	9.6/3.1	8/2.6	14.4/4.8	12/4
5,000	2m	312	4/1	/	7	10	13	4.8	4	7.2	5.8	4.8/1.6	4/1.3	7.2/2.4	5.8/1.9
	3m	316	4/1	/	7	10	13	4.8	4	7.2	5.8	4.8/1.6	4/1.3	7.2/2.4	5.8/1.9
	2m	525	2/1	10	14	20	26	9.6	8	14.4	12	9.6/3.1	8/2.6	14.4/4.8	12/4
6,300	2m	316	4/1	/	7	10	13	4.8	5	7.2	7	4.8/1.6	5/1.6	7.2/2.4	7/2.3
	2m	740	2/1	13	18	25	32	9.6	12	/	/	9.6/3.1	12/4	/	/
8,000	3m	525	4/1	/	7	10	13	4.8	8	7.2	12	4/1.6	8/2.6	7.2/2.4	12/4
	2m	740	2/1	13	18	25	32	9.6	12	/	/	9.6/3.1	12/4	/	/
	3m	750	2/1	13	18	25	32	/	/	9.6	12	/	/	9.6/3.1	12/4
10,000	2m	525	4/1	/	7	10	13	4.8	8	7.2	12	4/1.6	8/2.6	7.2/2.4	12/4
	2m	750	2/1	13	18	25	32	/	/	9.6	15	/	/	9.6/3.1	15/5
	3m	963	2/1	20	32	48	/	9.6	20	10	20	9.6/3.1	20/6.5	12/4	20/6.5
12,500	3m	740	4/1	6.5	9	12.5	16	4.8	12	/	/	4.8/1.6	12/4	/	/
	2m	963	2/1	20	32	48	/	9.6	20	10	24	9.6/3.1	20/6.5	/	/
16,000	2m	740	4/1	6.5	9	12.5	16	4.8	12	/	/	4.8/1.6	12/4	/	/
	3m	750	4/1	6.5	9	12.5	16	/	/	4.8	12	/	/	4.8/1.6	12/4
	1Am	980	2/1	20	32	48	/	/	/	9.6	24	/	/	/	/
20,000	2m	750	4/1	6.5	9	12.5	16	/	/	4.8	15	/	/	4.8/1.6	15/5
	3m	963	4/1	10	16	24	/	6	20	7.2	24	6/1.9	/	/	/
	2m	1100	2/1	22	28	36	52	4.8	20	6	20	4.8/1.6	/	6/1.9	/
25,000	2m	963	4/1	10	16	24	/	/	/	4.8	20	4.8/1.6	/	/	/
	1Am	1125	2/1	22	28	36	52	4.8	20	6	24	4.8/1.6	/	/	/
32,000	1Am	980	4/1	10	16	24	/	/	/	4.8	24	/	/	/	/
40,000	2m	1100	4/1	11	14	18	26	2.4	20	3	20	2.4/0.7	/	3/1	/
50,000	1Am	1125	4/1	11	14	18	26	2.4	20	3	24	2.4/0.7	/	/	/

\* Motors suitable also with inverter

# Trolleys

## XM series rope hoists



### TECHNICAL DATA

Capacity kg	Group FEM	Hoist XM	Rope falls N°	Trolleys speeds and motor power															
				Monorail								bi-rail							
				Type: 3-43				Type: 83				Type: 53-53C1							
				m/min	kW *	m/min	kW	m/min	kW *	m/min	kW	m/min	kW *	m/min	kW	m/min	kW	m/min	kW
1,000	3m	308	2/1	21.6	0.37	0.37/0.12	24	2x0.25	24/6	2x0.24/0.06	0.37	0.37/0.12	0.37	0.37/0.12	24	0.37	0.37/0.12		
1,250	3m	308	2/1																
1,600	2m	308	2/1																
2,000	3m	308	4/1																
	3m	312	2/1																
2,500	3m	308	4/1																
	2m	312	2/1																
3,200	2m	308	4/1																
	2m	316	2/1																
4,000	3m	312	4/1																
	3m	525	2/1																
5,000	2m	312	4/1																
	3m	316	4/1																
	2m	525	2/1																
6,300	2m	316	4/1																
	2m	740	2/1																
8,000	3m	525	4/1	0.55	0.55/0.18	20	2x0.30	20/5	2x0.30/0.07	19.2	0.55	19.2/6.4	0.55/0.18	24	0.55	24/7.2	0.55/0.18		
	2m	740	2/1																
	3m	750	2/1																
10,000	2m	525	4/1																
	2m	750	2/1																
12,500	3m	740	4/1	2x0.37	2x0.37/0.12	/	/	/	/	/	/	/	/	/	/	/	/		
	2m	963	2/1																
16,000	2m	740	4/1	2x0.55**	2x0.55**	/	/	/	/	/	/	/	/	/	/	/	/		
	2m	750	4/1																
	3m	963	4/1																
20,000	1Am	980	2/1	24	2x0.75**	24/7.2	2x0.75**	/	/	/	/	/	/	/	/	/	/		
	2m	750	4/1																
	3m	963	4/1																
25,000	2m	1100	2/1	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
	1Am	1125	2/1																
32,000	1Am	980	4/1	24	2x1.1**	24/7.2	2x1.1**	2x1.1	2x1.1/0.37	2x1.1	2x1.1/0.37	2x1.1	2x1.1/0.37	2x1.1	2x1.1/0.37	2x1.1	2x1.1/0.37		
40,000	2m	1100	4/1	/	/	/	/	2x1.5	2x1.5/0.55	2x1.5	2x1.5/0.55	2x1.5	2x1.5/0.55	2x1.5	2x1.5/0.55	2x1.5	2x1.5/0.55		
50,000	1Am	1125	4/1	/	/	/	/	/	/	/	/	/	/	/	/	/	/		

\* Motors suitable also with inverter

\*\* Second speed obtained with inverter

## Motors absorption

## XM series rope hoists

### CYLINDRICAL HOIST MOTORS

(N° avv/h = 240 - S.I. 40% - Vel. aux 15%)

Motor		Rated current (in A)		"aM" type protection fuse for the motor	
Poles	Power kW	230 V	460 V	230 V	460 V
4	2.5	12.3	6.2	20	10
4	4	15.8	7.9	20	10
4	5	19.9	10	25	15
4	5.8	23	11.5	30	15
4	7	26.9	13.4	35	20
4	8	29.1	14.5	40	20
4	12	41.5	20.7	50	30
4	15	57	28.5	65	40
4	20	72.7	36.3	100	50
4	24	86.7	43.3	100	55
4/12	2.5/0.83	10.9/10.4	5.5/5.2	15	10
4/12	4/1.3	16/15.8	8/7.9	20	15
4/12	5/1.6	21/16.8	10.5/8.4	30	15
4/12	5.8/1.9	22/15.8	11/7.9	30	15
4/12	7/2.3	30.3/25.4	15.1/12.7	40	20
4/12	8/2.6	30.1/32.4	15/16.2	40	20
4/12	12/4	43.6/32.2	21.8/16.1	55	30
4/12	15/5	52.2/41.7	26.1/20.8	70	35
4/12	20/6.5	69.7/56.4	34.8/28.2	100	45

### TRAVEL MOTORS MONORAIL TROLLEY TYPE 83

(N° avv/h = 180 - S.I. 40% - Vel. aux 15%)

Motor		Rated current (in A)		"aM" type protection fuse for the motor	
Poles	Power kW	230 V A	460 V A	230 V A	460 V A
2	0.25	1.2	0.6	2	1
2	0.30	1.7	0.8	3	1
2	0.55	2.4	1.2	4	2
4	0.18	1.05	0.5	2	1
4	0.25	1.65	0.8	3	1
2/8	0.24/0.06	1.4/1.3	0.7/0.6	2	1
2/8	0.30/0.075	2.2/2.2	0.1/1.1	3	1
2/8	0.55/0.13	2.4/3.3	1.2/1.6	4	2

### TRAVEL MOTORS DOUBLE RAIL TROLLEY TYPE 53

(N° avv/h = 180 - S.I. 40% - Vel. aux 15%)

Motor		Rated current (in A)		"aM" type protection fuse for the motor	
Poles	Power kW	230 V A	460 V A	230 V A	460 V A
4	0.37	2.1	1	3	2
4	0.55	2.9	1.4	4	2
4	0.75	4.0	2	6	3
4	1.1	5.1	2.5	6	4
4	1.5	6.6	3.3	10	5
4	2.2	9.3	4.6	15	6
4/12	0.37/0.12	2.6/3.1	1.3/1.5	4	2
4/12	0.55/0.18	2.9/3.5	1.4/1.7	4	3
4/12	0.75/0.25	3.9/4.4	1.9/2.2	5	3
4/12	1.1/0.37	6.4/6.4	3.2/3.2	8	4
4/12	1.5/0.55	7.1/7.1	3.5/3.5	10	5
4/12	2.2/0.75	13.8/9.8	6.9/6.9	20	10

### TRAVEL MOTORS MONORAIL TROLLEY TYPE 3

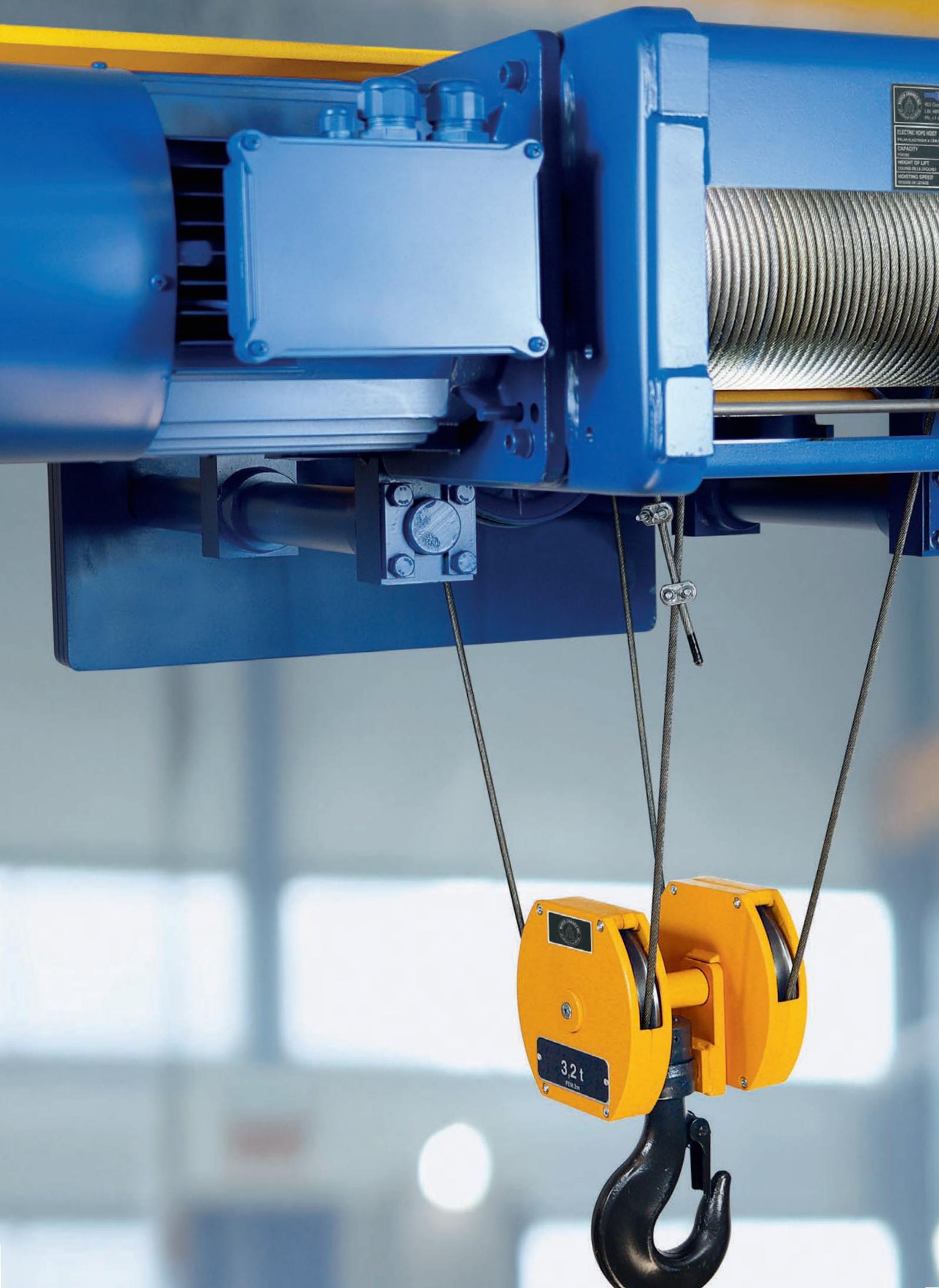
(N° avv/h = 180 - S.I. 40% - Vel. aux 15%)

Motor		Rated current (in A)		"aM" type protection fuse for the motor	
Poles	Power kW	230 V A	460 V A	230 V A	460 V A
4	0.37	2.1	1	3	2
4	0.55	2.9	1.4	4	2
4	0.75	4.0	2	6	3
4	1.10	5.1	2.5	7	4
4/12	0.37/0.12	2.6/3.1	1.3/1.5	4	2
4/12	0.55/0.18	2.9/3.5	1.4/1.7	4	3
4/12	0.75/0.25	3.9/4.4	1.9/2.2	5	3
4/12	1.1/0.37	6.4/6.4	3.2/3.2	8	4



Tolerance on current values is  $\pm 5\%$





WEG  
ELECTRIC ROPE HOIST  
TYPE: ELECTRIC ROPE HOIST  
CAPACITY  
HEIGHT OF LIFT  
COUNTRY OF ORIGIN  
WEG S.A. - BRAZIL  
WEG S.A. - BRAZIL

3,2t  
FEM 2m



-all about handling-

## **XM series standard hoists**

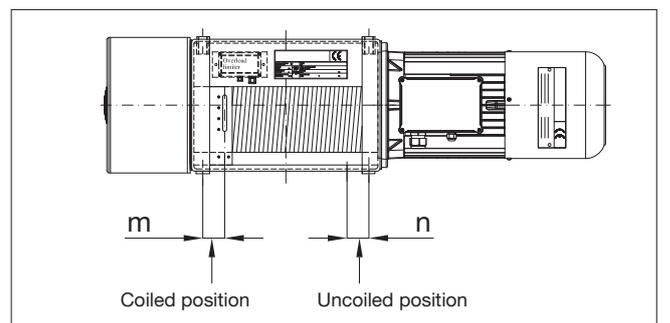
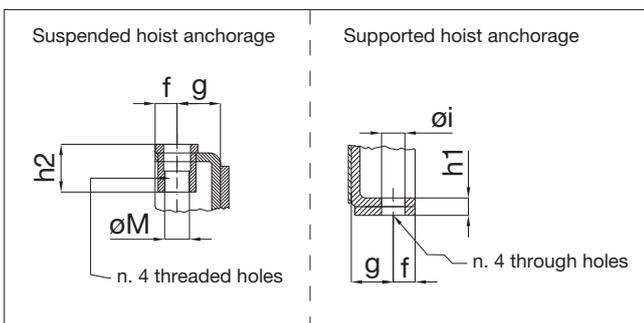
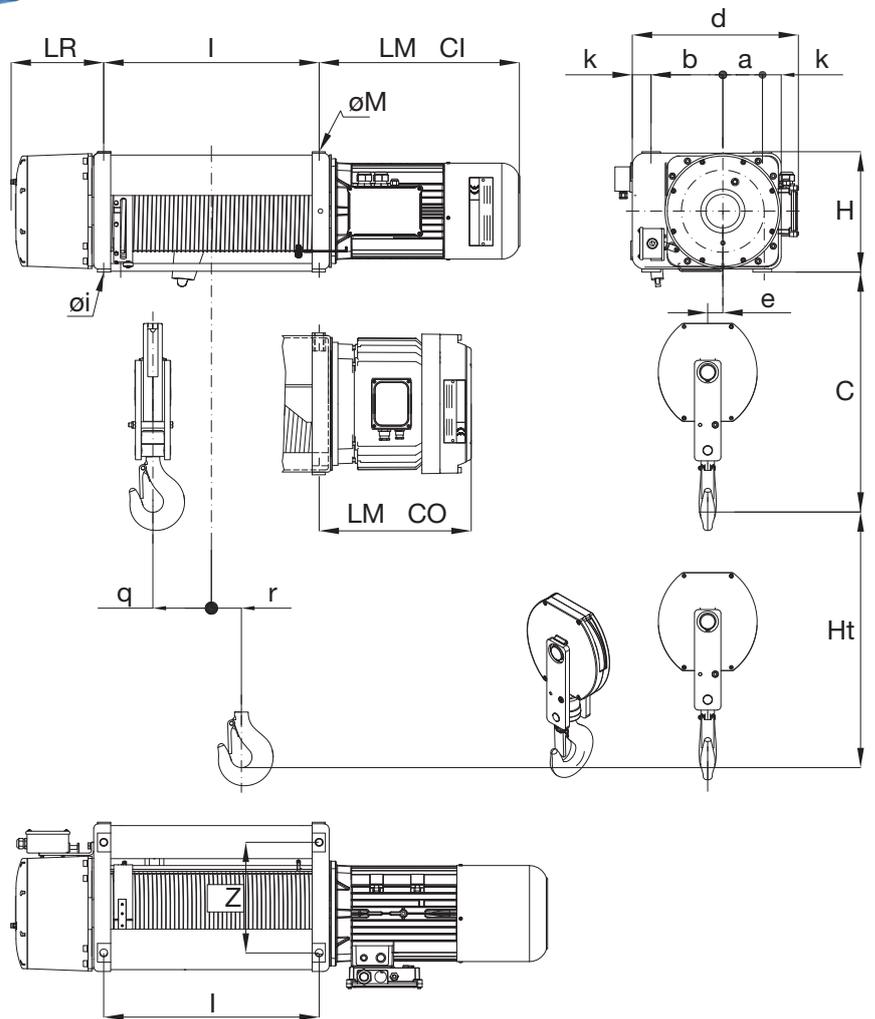
- Foot mounted hoists**
- Hoists with monorail trolley**
- Hoists with bi-rail trolley**



**Foot mounted hoist S2**

**XM 308 / 312 / 316 / 525**  
Capacity 1 ÷ 5 t

**S2** 2 ROPE FALLS (2/1)  
**Type 5** SUPPORTED  
**Type 5C1** SUSPENDED



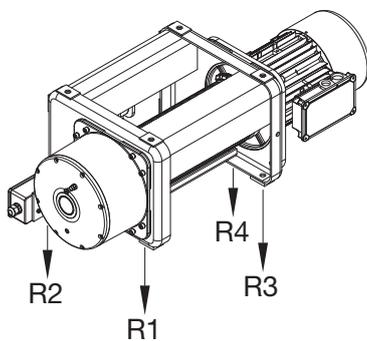
**Fixed dimensions**

WLL	Group	Hoist type	C	H	a	b	Z (a+b)	d	k	e	øi	f	g	øM	h1	h2	m	n
Kg	FEM	XM	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	M	mm	mm	mm	mm
1,000	3m	308 - 2/1	570	325	105	190	295	500	50	53	15	19	27	M14	13	28	45	48
1,600	2m	308 - 2/1	570	325	105	190	295	490	50	53	15	19	27	M14	13	28	45	48
2,500	2m	312 - 2/1	640	325	105	190	295	490	50	40	17	19	27	M20	13	34	48	56
3,200	2m	316 - 2/1	640	325	105	190	295	490	50	40	17	19	27	M20	13	34	48	56
5,000	2m	525 - 2/1	730	380	133	212	345	560	53	41	21	21	31	M24	18	48	60	61

**Variable dimensions**

WLL	Group	Hoist type	Hook travel	l	q	r	LMCI				LMCO				LR	Weight	
Kg	FEM	XM	m	mm	mm	mm	mm N	mm V	mm NA	mm VA	mm N	mm V	mm NA	mm VA		Kg	
1,000	3m	308 - 2/1	10	395	91	61	460	460	490	490	315	375	385	420	200		180
			14	520	154												190
1,600	2m		20	700	244												200
			26	885	377												215
2,500	2m	312 - 2/1	10	440	90	77	460	460	490	565	375	420	420	420	250		240
			14	570	155												253
			20	775	258												273
			26	975	358												293
3,200	2m	316 - 2/1	10	440	90	77	460	565	500	565	375	/	420	/	250		256
			14	570	155												270
			20	775	258												290
			26	975	358												310
5,000	2m	525 - 2/1	10	455	90	78	600	600	600	650	415	465	460	505	270		370
			14	590	157												400
			20	795	260												430
			26	995	360												460

**Static reactions**

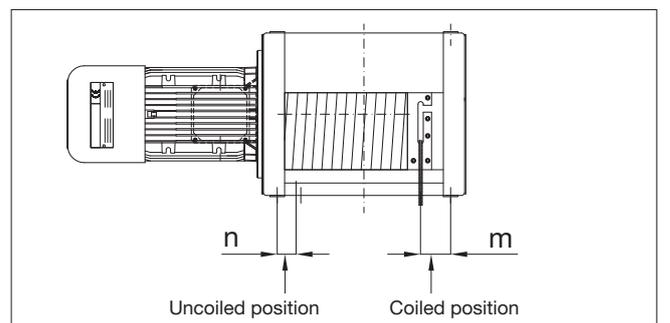
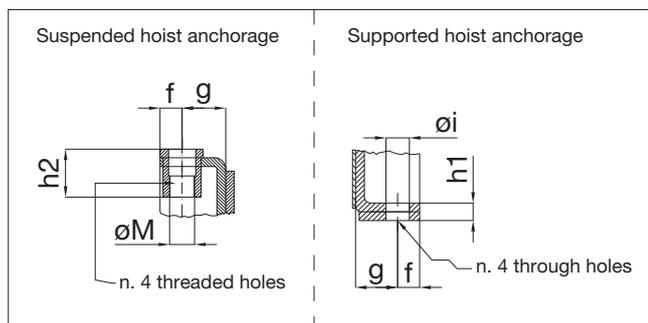
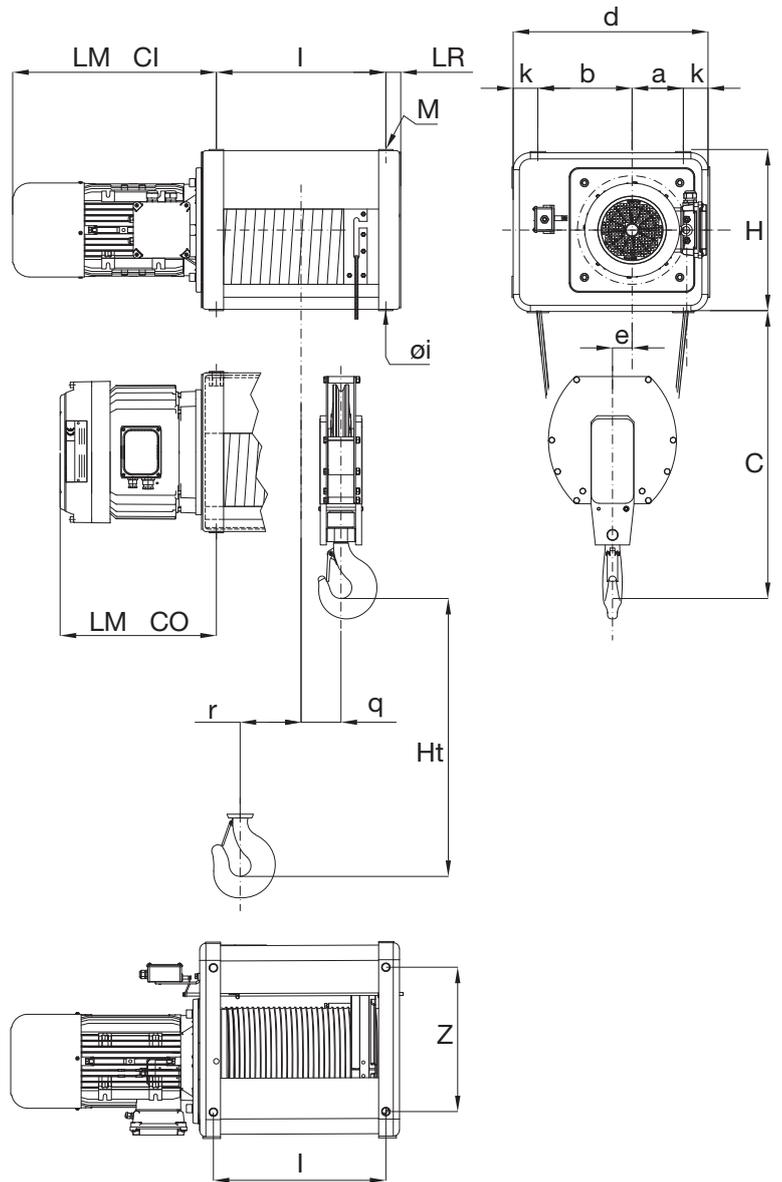


Hoist type	WLL	Hook travel															
		H10				H14				H20				H26			
XM	Kg	R1 daN	R2 daN	R3 daN	R4 daN	R1 daN	R2 daN	R3 daN	R4 daN	R1 daN	R2 daN	R3 daN	R4 daN	R1 daN	R2 daN	R3 daN	R4 daN
308	1,000	382	441	166	192	415	478	137	159	442	510	116	133	460	531	104	119
308	1,600	586	675	241	278	637	734	194	224	679	782	158	182	706	814	137	158
312	2,000	779	753	360	347	852	823	294	284	919	889	237	228	960	927	207	199
312	2,500	958	927	435	420	1048	1013	352	340	1131	1094	279	270	1180	1141	240	233
316	3,200	1213	1173	544	526	1327	1282	437	423	1432	1384	343	331	1493	1443	292	282
525	3,200	1201	1223	569	578	1317	1341	466	474	1423	1447	376	383	1486	1511	328	334
525	4,000	1478	1504	688	701	1621	1650	559	568	1751	1781	445	453	1827	1860	383	389
525	5,000	1824	1856	838	853	2001	2036	675	686	2161	2198	531	540	2254	2294	451	460

**Foot mounted hoist S2**

**XM 740 / 750 / 963 / 980 / 1100 / 1125**  
Capacity 6.3 ÷ 25 t

**S2** 2 ROPE FALLS (2/1)  
**Type 5** SUPPORTED  
**Type 5C1** SUSPENDED



**Fixed dimensions**

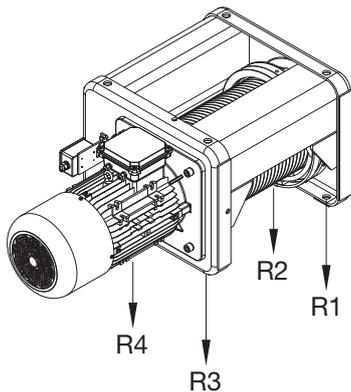
WLL	Group	Hoist type	C	H	a	b	Z (a+b)	d	k	e	øi	f	g	øM	h1	h2	m	n
Kg	FEM	XM	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
6,300	3m	740 - 2/1	840	530	168	307	475	636	81	64	25	24	45	M27	17	47	65	85
8,000	2m	740 - 2/1	840	530	168	307	475	636	81	64	25	24	45	M27	17	47	65	85
10,000	2m	750 - 2/1	1000	530	168	307	475	636	81	64	25	24	45	M27	17	47	65	85
10,000	3m	963 - 2/1	1100	625	200	340	540	725	92	66	39	29	60	M36	24	66	55	90
12,500	2m	963 - 2/1	1100	625	200	340	540	725	92	66	39	29	60	M36	24	66	55	90
16,000	1Am	980 - 2/1	1150	625	200	340	540	725	92	66	39	29	60	M36	24	66	55	90
20,000	2m	1100 - 2/1	1330	810	233	452	685	964	138	89	39	40	80	M30*	19	58	75	120
25,000	1Am	1125 - 2/1	1330	810	233	452	685	964	138	89	39	40	80	M30*	19	58	75	120

\* Not suitable for suspended version

**Variable dimensions**

WLL	Group	Hoist type	Hook travel	l	q	r	LMCI				LMCO				LR	Weight
Kg	FEM	XM	m	mm	mm	mm	mm N	mm V	mm NA	mm VA	mm N	mm V	mm NA	mm VA	mm	Kg
6,300	3m	740 - 2/1	13	563	130	83	670	/	670	/	480	/	520	/	45	660
			18	713	160	700										
			25	928	268	760										
8,000	2m	740 - 2/1	32	1143	375	133	670	/	670	/	480	/	520	/	45	836
			13	563	135	83										
10,000	2m	750 - 2/1	18	713	160	133	670	/	670	/	480	/	520	/	45	790
			25	928	268	812										
			32	1143	375	960										
			20	840	230	1015										
10,000	3m	963 - 2/1	32	1255	438	134	760	/	760	/	495	/	535	/	60	1220
			48	1755	688	1466										
			20	840	230	1015										
12,500	2m	963 - 2/1	32	1255	438	134	760	/	760	/	495	/	535	/	60	1220
			48	1755	688	1466										
			20	840	230	1256										
16,000	1Am	980 - 2/1	32	1255	438	134	760	/	760	/	495	/	535	/	60	1460
			48	1755	688	1710										
			22	977	305	2400										
20,000	2m	1100 - 2/1	28	1162	400	100	850	/	860	/	555	/	585	/	150	2470
			36	1402	520	2660										
			52	1912	775	2930										
			22	977	305	2400										
25,000	1Am	1125 - 2/1	28	1162	400	100	850	/	860	/	555	/	585	/	150	2470
			36	1402	520	2660										
			52	1912	775	2970										
			22	977	305	2400										

**Static reactions**

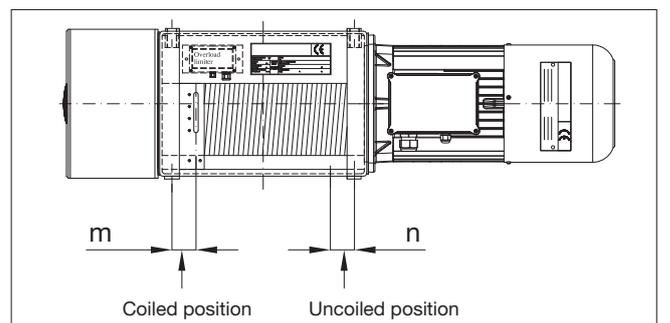
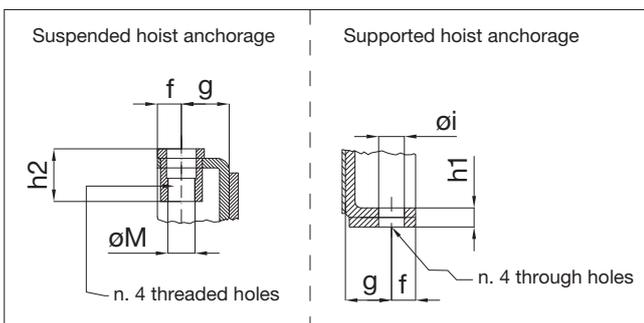
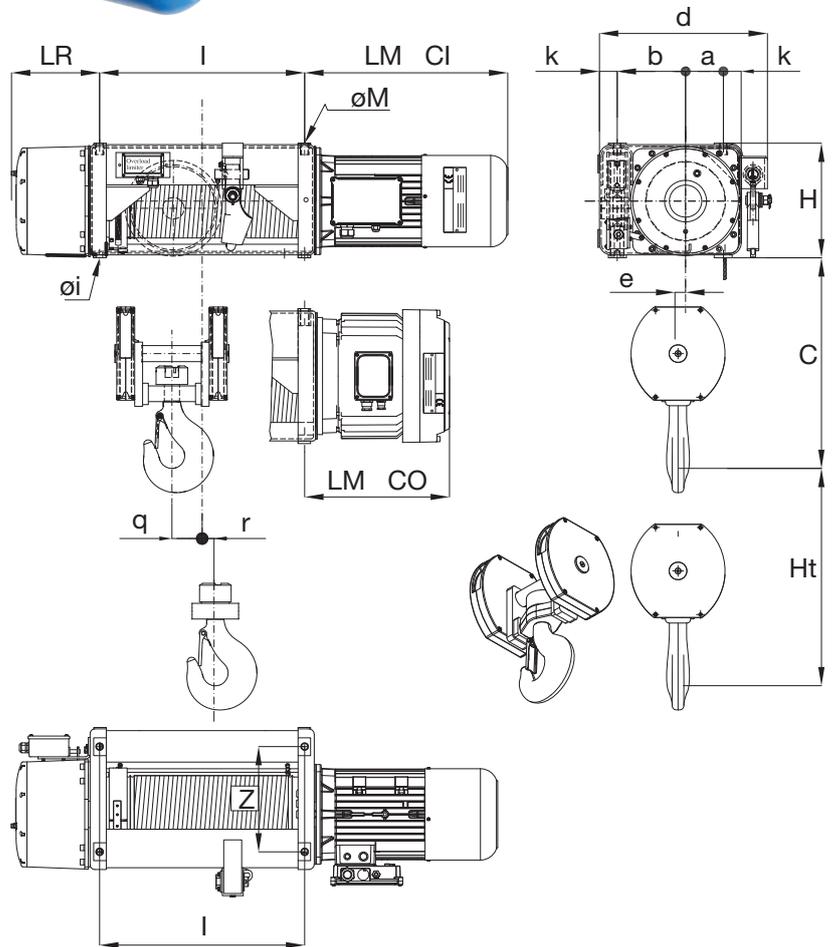


Hoist	Capacity	Hook travel															
		H13				H18				H25				H32			
XM	Kg	R1 daN	R2 daN	R3 daN	R4 daN	R1 daN	R2 daN	R3 daN	R4 daN	R1 daN	R2 daN	R3 daN	R4 daN	R1 daN	R2 daN	R3 daN	R4 daN
740	6,300	2552	2425	1017	966	2527	2402	1061	1010	2753	2617	867	824	2900	2757	758	721
740	8,000	3192	3035	1248	1186	3158	3002	1302	1237	3440	3270	1051	999	3622	3443	908	863
750	10,000	4112	3992	1314	1276	4520	4388	954	927	4746	4607	740	719	4782	4643	777	754
XM	Kg	H20				H32				H48				/			
963	10,000	4278	4153	1310	1271	4251	4126	1441	1398	4314	4188	1504	1460	/	/	/	/
963	12,500	5181	5029	1676	1627	5232	5080	1728	1677	5296	5141	1791	1739	/	/	/	/
980	16,000	7251	7039	1505	1460	7657	7433	1202	1167	7719	7493	1264	1227	/	/	/	/
XM	Kg	H22				H28				H36				H52			
1100	20,000	9284	8236	2583	2291	9647	8558	2258	2003	9983	8856	2022	1793	10425	9247	1724	1529
1125	25,000	11436	10144	3080	2733	11884	10542	2671	2369	12291	10903	2364	2096	12824	11375	1975	1751

**Foot mounted hoist S4**

**XM 308 / 312 / 316 / 525**  
Capacity 2 ÷ 10 t

**S4** 4 ROPE FALLS (4/1)  
**Type 5** SUPPORTED  
**Type 5C1** SUSPENDED



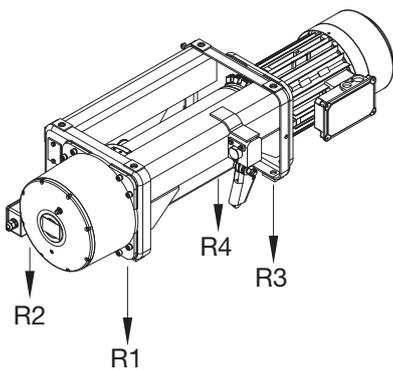
**Fixed dimensions**

WLL	Group	Hoist type	C	H	a	b	Z (a+b)	k	e	d	øi	f	g	øM	h1	h2	m	n
Kg	FEM	XM	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	M	mm	mm	mm	mm
2,000	3m	308 - 4/1	520	325	105	190	295	50	27	467	15	19	27	M14	13	28	45	48
3,200	2m	308 - 4/1	520	325	105	190	295	50	27	467	15	19	27	M14	13	28	45	48
5,000	2m	312 - 4/1	590	325	105	190	295	50	21	467	17	19	27	M20	13	34	48	56
6,300	2m	316 - 4/1	590	325	105	190	295	50	21	467	17	19	27	M20	13	34	48	56
10,000	2m	525 - 4/1	670	380	133	212	345	53	17	522	21	21	31	M24	18	48	60	61

**Variable dimensions**

WLL	Group	Hoist type	Hook travel	l	q	r	LMCI				LMCO				LR	Weight
Kg	FEM	XM	m	mm	mm	mm	mm N	mm V	mm NA	mm VA	mm N	mm V	mm NA	mm VA		Kg
2,000	3m	308 - 4/1	7	520	90	17	460	460	490	490	315	375	385	420	200	210
			10	700	180	-28										220
3,200	2m		13	885	273	-75										240
5,000	2m	312 - 4/1	7	570	84	33	460	460	490	565	375	420	420	420	250	290
			10	775	187	-20										315
			13	975	287	-70										335
6,300	2m	316 - 4/1	7	570	84	33	460	565	500	565	375	/	420	/	250	310
			10	775	187	-20										330
			13	975	287	-70										350
10,000	2m	525 - 4/1	7	590	73	45	600	600	600	650	415	465	460	505	270	470
			10	795	176	-8										505
			13	995	267	-58										535

**Static reactions**

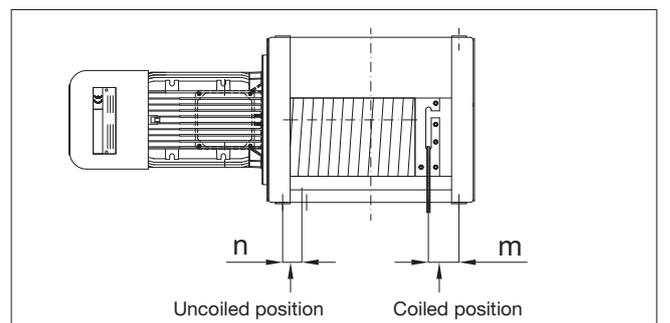
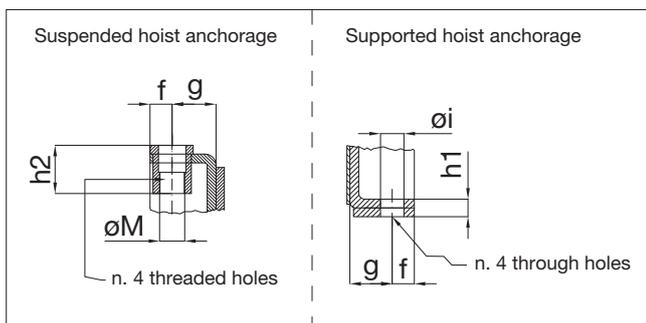
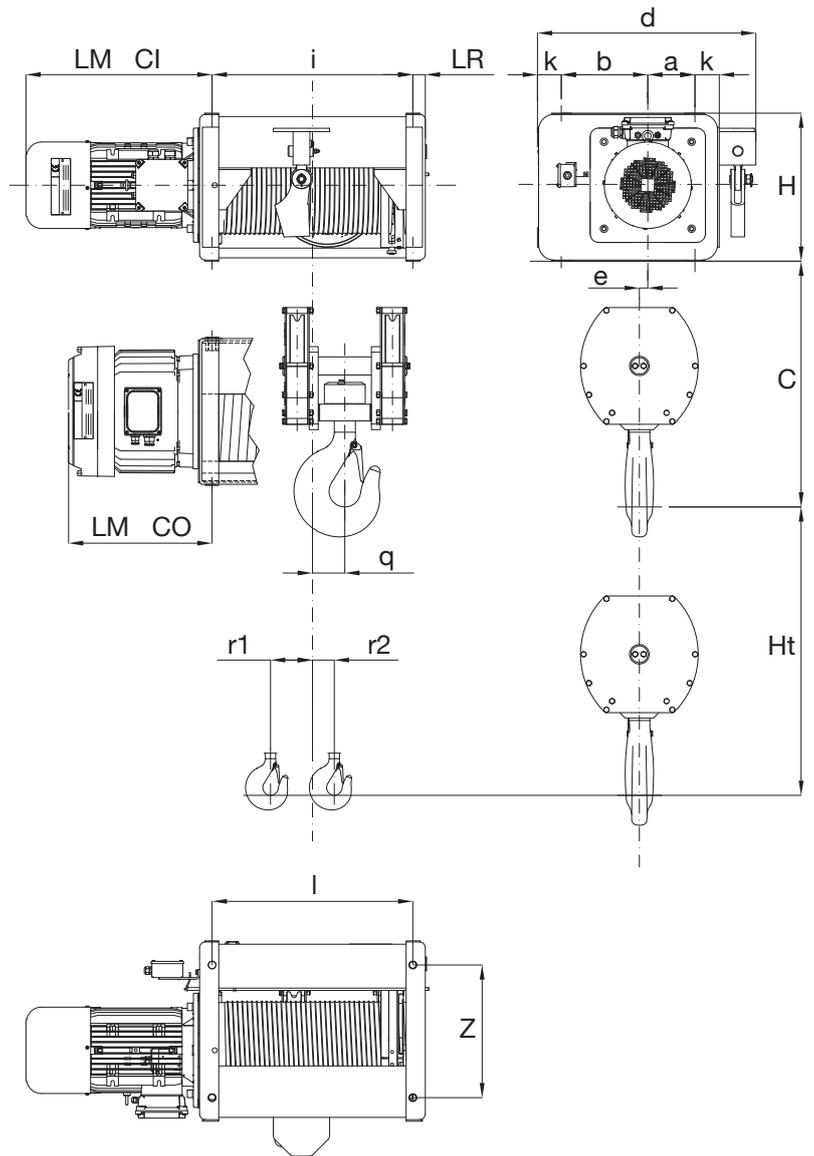


Hoist type	WLL	Hook travel											
		H7				H10				H13			
XM	Kg	R1 daN	R2 daN	R3 daN	R4 daN	R1 daN	R2 daN	R3 daN	R4 daN	R1 daN	R2 daN	R3 daN	R4 daN
308	2,000	824	667	396	320	916	741	311	253	979	792	257	207
308	2,500	1015	823	481	389	1129	914	375	303	1206	977	305	247
308	3,200	1283	1039	600	486	1427	1156	463	375	1525	1235	373	302
312	4,000	1546	1152	913	681	1772	1322	699	520	1905	1421	578	430
312	5,000	1910	1425	1121	836	2192	1634	852	635	2356	1757	700	521
316	6,300	2389	1782	1396	1041	2742	2044	1056	787	2947	2197	863	643
525	6,300	2352	1810	1475	1135	2714	2087	1131	871	2925	2249	938	721
525	8,000	2950	2269	1838	1414	3406	2619	1400	1077	3671	2823	1153	886
525	10,000	3653	2810	2265	1743	4220	3246	1717	1320	4548	3499	1406	1081

**Foot mounted hoist S4**

**XM 740 / 750 / 963 / 980 / 1100 / 1125**  
Capacity 12.5 ÷ 50 t

**S4** 4 ROPE FALLS (4/1)  
**Type 5** SUPPORTED  
**Type 5C1** SUSPENDED



**Fixed dimensions**

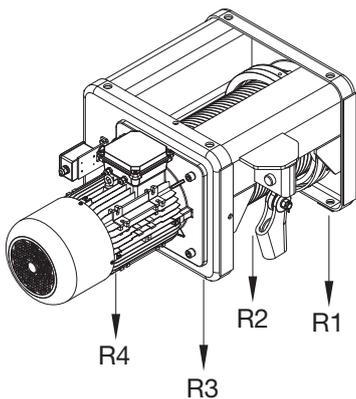
WLL	Group	Hoist type	C	H	a	b	Z (a+b)	d	k	e	øi	f	g	øM	h1	h2	m	n
Kg	FEM	XM	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
12,500	3m	740 - 4/1	840	530	168	307	475	771	81	30	25	24	45	M27	17	47	65	85
16,000	2m	740 - 4/1	840	530	168	307	475	771	81	30	25	24	45	M27	17	47	65	85
20,000	2m	750 - 4/1	880	530	168	307	475	771	81	30	25	24	45	M27	17	47	65	85
20,000	3m	963 - 4/1	1000	625	200	340	540	860	92	29	39	29	60	M36	24	66	55	90
25,000	2m	963 - 4/1	1000	625	200	340	540	860	92	29	39	29	60	M36	24	66	55	90
32,000**	1Am	980 - 4/1	1100	625	200	340	540	860	92	29	39	29	60	M36	24	66	55	90
40,000*	2m	1100 - 4/1	1200	810	233	452	685	1140	138	54	39	40	80	M30*	19	58	75	120
50,000*	1Am	1125 - 4/1	1200	810	233	452	685	1140	138	54	39	40	80	M30*	19	58	75	120

\* Not suitable for suspended version  
\*\* Suspended execution upon request

**Variable dimensions**

WLL	Group	Hoist type	Hook travel	l	q	r1	r2	LMCI				LMCO				LR	Weight																		
Kg	FEM	XM	m	mm	mm	mm	mm	mm N	mm V	mm NA	mm VA	mm N	mm V	mm NA	mm VA	mm	Kg																		
12,500	3m	740 - 4/1	6,5	563	35	71	/	670	/	670	/	480	/	520	/	45	685																		
			9	713	115	31	/											810																	
16,000	2m		12,5	928	223	/	22											900																	
			16	1143	330	/	76											940																	
20,000	2m	750 - 4/1	6,5	563	38	69	/											890	/	890	/	495	/	535	/	60	760								
			9	713	115	31	/																				870								
			12,5	928	223	/	22																				950								
			16	1143	320	/	76																				1020								
20,000	3m	963 - 4/1	10	840	130	52	/	890	/	890	/	495	/	535	/	60	1286																		
			16	1255	338	/	51										1480																		
			24	1755	588	/	177										1720																		
25,000	2m	963 - 4/1	10	840	130	52	/										890										/	890	/	495	/	535	/	60	1286
			16	1255	338	/	51											1480																	
			24	1755	588	/	177											1720																	
32,000	1Am	980 - 4/1	10	840	130	52	/											890	/	890	/	495	/	535	/	60									1452
			16	1255	338	/	51																												1660
			24	1755	588	/	177	1910																											
40,000	2m	1100 - 4/1	11	977	193	12	/	890	/	890	/	555	/	585	/	150																			2670
			14	1162	285	/	35																												2820
			18	1402	405	/	95										3030																		
			26	1912	660	/	222										3450																		
50,000	1Am	1125 - 4/1	11	977	193	12	/										890										/	890	/	555	/	585	/	150	2670
			14	1162	285	/	35											2820																	
			18	1402	405	/	95											3030																	
			26	1912	660	/	222											3450																	

**Static reactions**

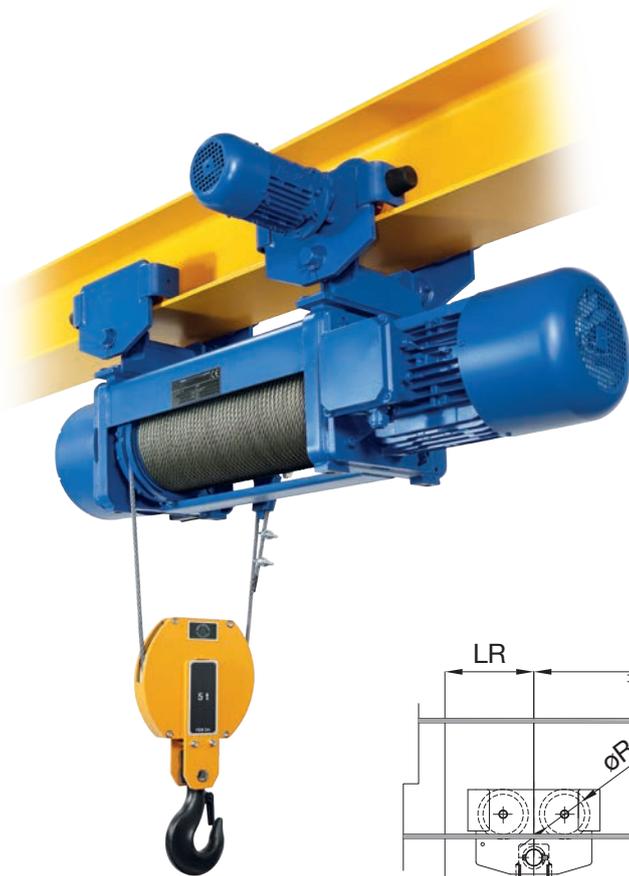


Hoist	Capacity	Hook travel															
		H6,5				H9				H12,5				H16			
XM	Kg	R1 daN	R2 daN	R3 daN	R4 daN	R1 daN	R2 daN	R3 daN	R4 daN	R1 daN	R2 daN	R3 daN	R4 daN	R1 daN	R2 daN	R3 daN	R4 daN
740	12,500	4325	3051	3405	2402	5094	3595	2707	1910	5706	4026	2149	1517	6077	4288	1803	1273
740	16,000	5489	3873	4292	3029	6451	4552	3402	2400	7225	5098	2682	1893	7695	5430	2237	1578
750	20,000	6883	4856	5288	3732	8023	5660	4213	2973	8979	6335	3303	2331	9571	6754	2752	1942
XM	Kg	H10				H16				H24				/			
963	20,000	7929	5839	4330	3188	9318	6861	3053	2248	10150	7474	2357	1736	/	/	/	/
963	25,000	9815	7227	5324	3920	11533	8492	3717	2738	12555	9245	2832	2085	/	/	/	/
980	32,000	12515	9215	6751	4971	14707	10830	4677	3444	16003	11783	3525	2596	/	/	/	/
XM	Kg	H11				H14				H18				H26			
1100	40,000	17036	12285	7754	5592	18200	13124	6676	4814	19286	13907	5713	4119	20729	14948	4510	3252
1125	50,000	21089	15207	9512	6859	22530	16247	8156	5881	23869	17213	6939	5005	25640	18489	5409	3901

**Hoist with monorail trolley S2**

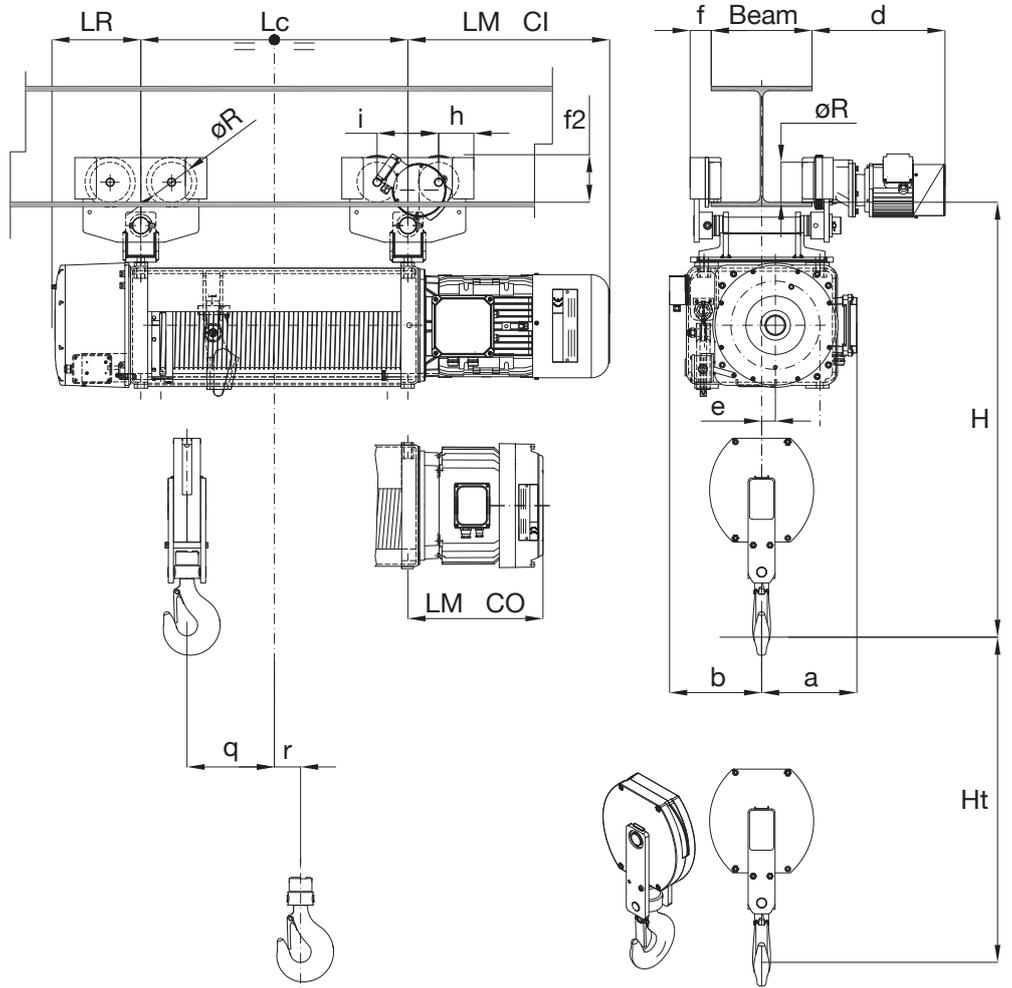
**XM 308 / 312 / 316 / 525**  
Capacity 1 ÷ 5 t

**S2** 2 ROPE FALLS (2/1)  
**Type 3** STANDARD HEADROOM



Wheel diameter	x	L	g max
mm	mm	mm	mm
120	17	35	25

R = Per single wheel



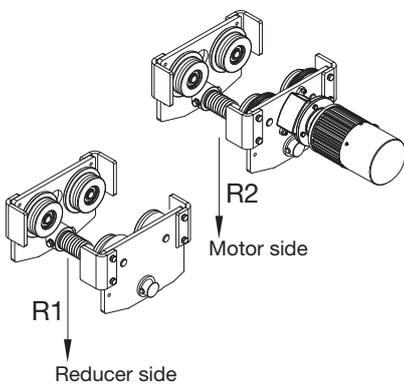
### Fixed dimensions

WLL	Group	Hoist type	C	H	a	b	d	e	f	øR	f2	i	h	Min flange width
Kg	FEM	XM	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
1,000	3m	308 - 2/1	1080	500	240	250	410	53	60	120	145	183	110	110
1,600	2m	308 - 2/1	1080	500	240	250	410	53	60	120	145	183	110	110
2,500	2m	312 - 2/1	1140	510	240	250	410	40	60	120	145	183	110	110
3,200	2m	316 - 2/1	1140	510	240	250	410	40	60	120	145	183	110	110
5,000	2m	525 - 2/1	1290	560	280	260	410	41	60	120	145	183	110	110

### Variable dimensions

WLL	Group	Hoist type	Hook travel	Lc	q	r	LMCI				LMCO				LR	Weight	
Kg	FEM	XM	m	mm	mm	mm	mm N	mm V	mm NA	mm VA	mm N	mm V	mm NA	mm VA		Kg	
1,000	3m	308 - 2/1	10	395	91	61	460	460	490	490	315	375	385	420	200		312
			14	520	154												321
1,600	2m		20	700	244												333
			26	885	377												346
2,500	2m	312 - 2/1	10	440	90	77	460	460	490	565	375	420	420	420	250		372
			14	570	155												385
			20	775	258												405
			26	975	358												425
3,200	2m	316 - 2/1	10	440	90	77	460	565	500	565	375	/	420	/	250		388
			14	570	155												402
			20	775	258												422
			26	975	358												442
5,000	2m	525 - 2/1	10	455	90	78	600	600	600	650	415	465	460	505	270		503
			14	590	157												530
			20	795	260												562
			26	995	360												590

### Static reactions



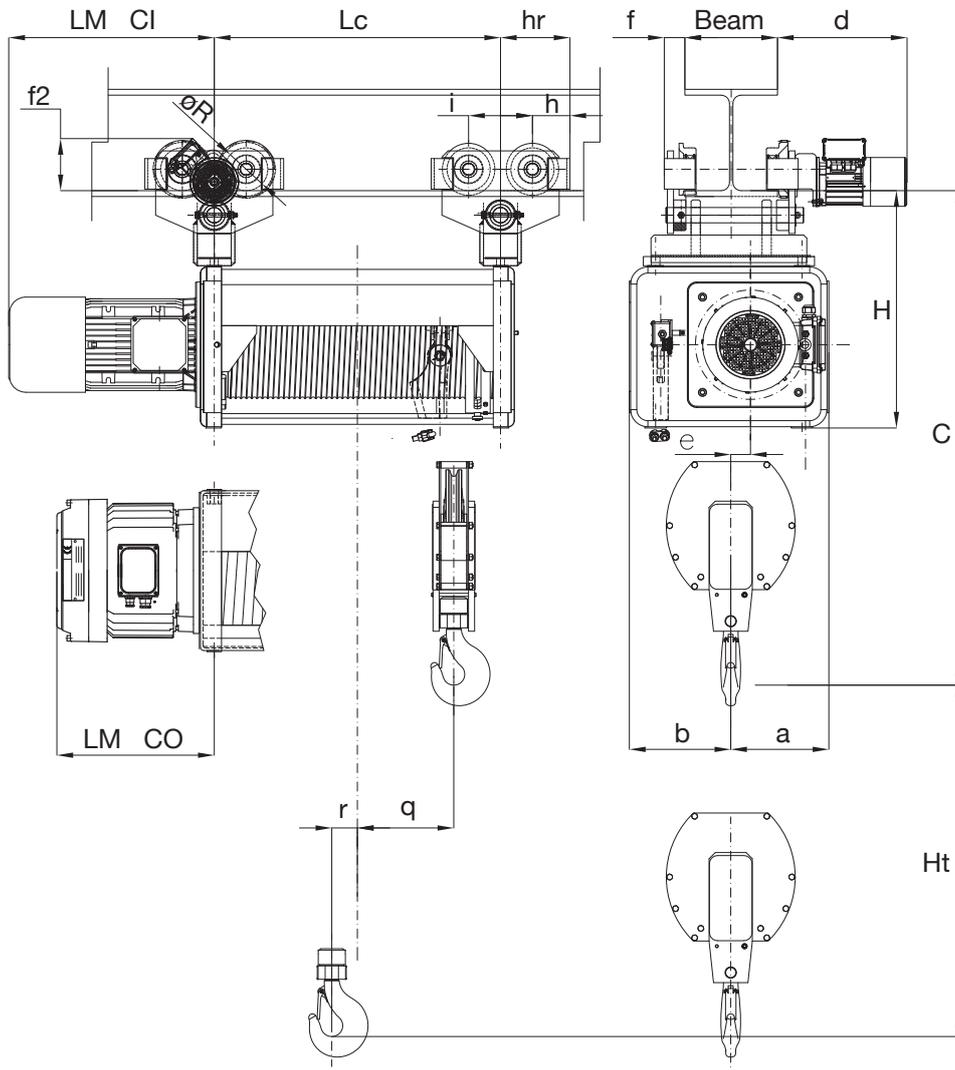
Hoist type	WLL	Hook travel							
		H10		H14		H20		H26	
XM	Kg	R1 daN	R2 daN	R1 daN	R2 daN	R1 daN	R2 daN	R1 daN	R2 daN
308	1,000	893	419	964	357	1023	310	1062	285
308	1,600	1331	581	1441	480	1532	401	1590	357
312	2,000	1607	765	1749	636	1882	523	1962	463
312	2,500	1959	913	2135	750	2299	606	2395	530
316	3,200	2460	1128	2684	917	2890	731	3010	631
525	3,200	2503	1200	2737	993	2950	812	3077	714
525	4,000	3062	1441	3350	1180	3612	950	3766	825
525	5,000	3760	1743	4116	1414	4439	1123	4628	963

$$\text{Load on the single wheel} = \frac{R1}{4} \quad \frac{R2}{4}$$

**Hoist with monorail trolley S2**

**XM 740 / 750 / 963**  
Capacity 6.3 ÷ 16 t

**S2** 2 ROPE FALLS (2/1)  
**Type 3** STANDARD HEADROOM



Wheel diameter	x	L	g max
mm	mm	mm	mm
140	20	40	25

R = Per single wheel

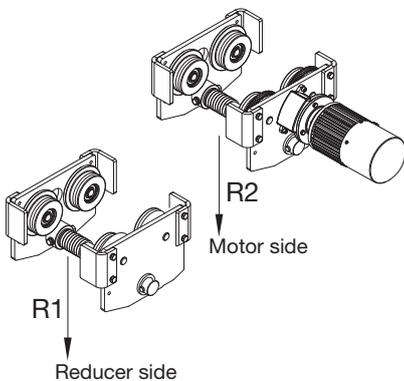
**Fixed dimensions**

WLL	Group	Hoist type	C	H	a	b	d	e	f	øR	f2	i	h	hr	Min flange width
Kg	FEM	XM	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
6,300	3m	740 - 2/1	1650	775	410	410	410	64	70	140	165	207	125	225	120
8,000	2m	740 - 2/1	1650	775	410	410	410	64	70	140	165	207	125	225	120
10,000	2m	750 - 2/1	1700	775	410	410	410	64	70	140	165	207	125	225	120
10,000	3m	963 - 2/1	2160	900	410	450	410	66	70	140	165	207	125	225	120
12,500	2m	963 - 2/1	2160	900	410	450	410	66	100	160	235	310	150	310	150
16,000	1Am	980 - 2/1	2160	900	410	450	350	66	250	160	235	310	150	310	150

**Variable dimensions**

WLL	Group	Hoist type	Hook travel	Lc	q	r	LMCI				LMCO				LR	Weight		
Kg	FEM	XM	m	mm	mm	mm	mm N	mm V	mm NA	mm VA	mm N	mm V	mm NA	mm VA	mm	Kg		
6,300	3m	740 - 2/1	13	563	130	83	670	/	670	/	480	/	520	/	45	878		
			18	713	160												916	
8,000	2m		25	928	268	133												977
			32	1143	375												1054	
10,000	2m	750 - 2/1	13	563	135	83												910
			18	713	160												1005	
			25	928	268	133												
			32	1143	375												1173	
10,000	3m	963 - 2/1	20	840	230	134	760	/	760	/	495	/	535	/	60	1590		
			32	1255	438												1790	
			48	1755	688													2040
12,500	2m	963 - 2/1	20	840	230	134	760	/	760	/	495	/	535	/	60	1590		
			32	1255	438												1790	
			48	1755	688													2040
16,000	1Am	980 - 2/1	20	840	230	134	760	/	760	/	495	/	535	/	60	1830		
			32	1255	438												2030	
			48	1755	688													2280

**Static reactions**



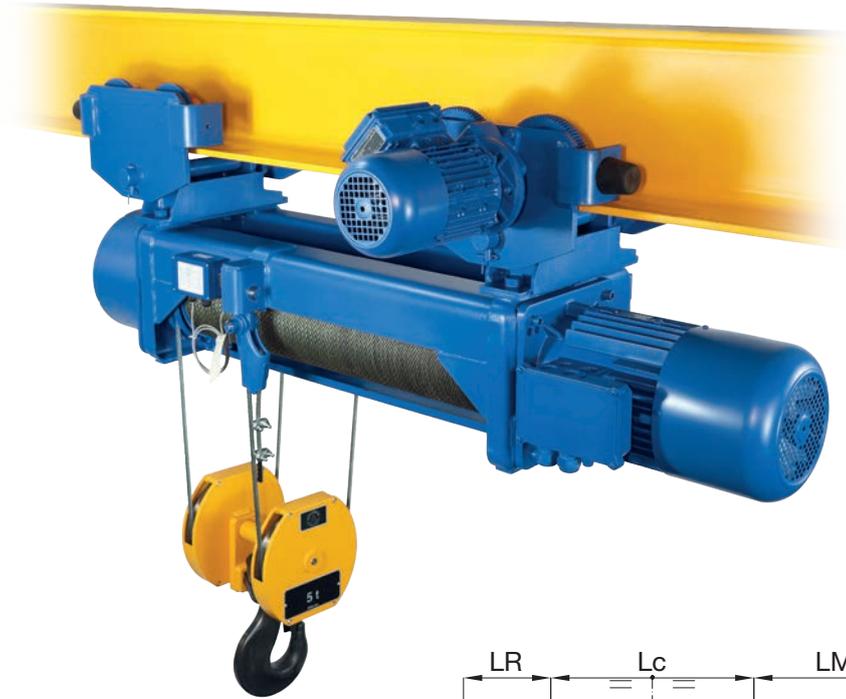
Hoist	Capacity	Hook travel							
		H13		H18		H25		H32	
XM	Kg	R1 daN	R2 daN	R1 daN	R2 daN	R1 daN	R2 daN	R1 daN	R2 daN
740	6,300	5093	2085	5071	2145	5512	1766	5800	1553
740	8,000	6336	2542	6303	2613	6853	2125	7208	1845
750	10,000	7814	3097	7796	3210	8456	2573	8924	2249
XM	Kg	H20		H32		H48		/	
963	10,000	8617	2966	9479	2308	10039	1997	/	/
963	12,500	10551	3532	11602	2685	12269	2267	/	/
980	16,000	13467	4358	14789	3240	15609	2665	/	/

$$\text{Load on the single wheel} = \frac{R1}{4} \frac{R2}{4}$$

**Hoist with monorail trolley S4**

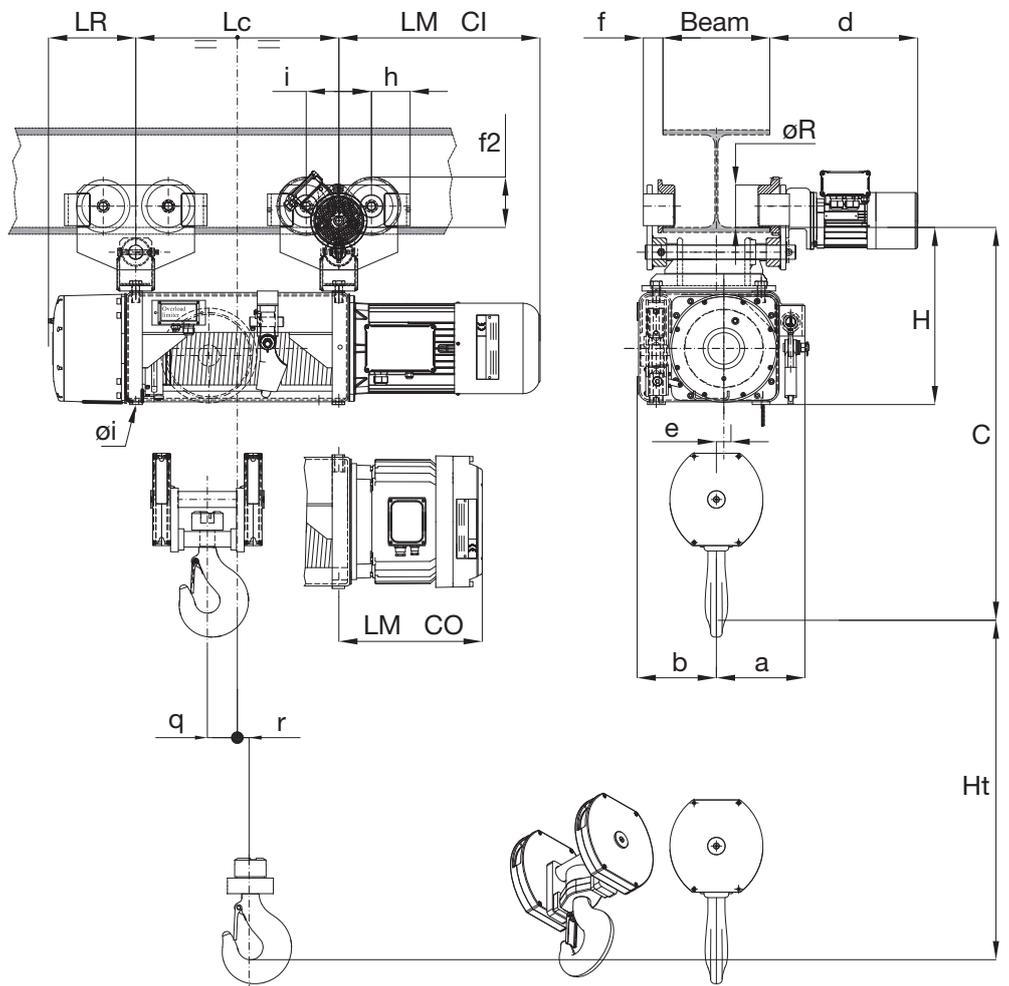
**XM 308 / 312 / 316 / 525**  
Capacity 2 ÷ 10 t

**S4** 4 ROPE FALLS (4/1)  
**Type 3** STANDARD HEADROOM



Wheel diameter	x	L	g <sub>max</sub>
mm	mm	mm	mm
120	17	35	25
140	20	40	25

R = Per single wheel



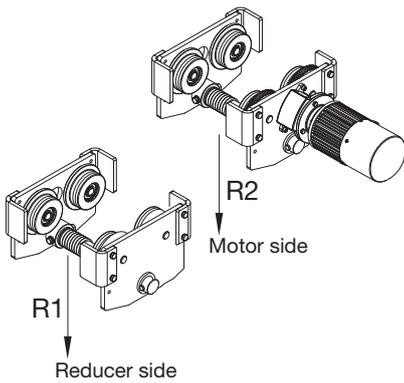
**Fixed dimensions**

WLL	Group	Hoist type	C	H	a	b	d	e	f	øR	f2	i	h	Min flange width
Kg	FEM	XM	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
2,000	3m	308 - 4/1	985	500	260	240	410	27	60	120	145	183	110	110
3,200	2m	308 - 4/1	985	500	260	240	410	27	60	120	145	183	110	110
5,000	2m	312 - 4/1	1140	510	260	240	410	21	60	120	145	183	110	110
6,300	2m	316 - 4/1	1140	510	260	240	410	21	65	140	170	207	125	120
10,000	2m	525 - 4/1	1290	560	280	265	410	17	65	140	170	207	125	120

**Variable dimensions**

WLL	Group	Hoist type	Hook travel	Lc	q	r	LMCI				LMCO				LR	Weight
Kg	FEM	XM	m	mm	mm	mm	mm N	mm V	mm NA	mm VA	mm N	mm V	mm NA	mm VA		Kg
2,000	3m	308 - 4/1	7	520	90	17	460	460	490	490	315	375	385	420	200	335
			10	700	180	-28										350
3,200	2m		13	885	273	-75										365
		5,000	2m	312 - 4/1	7	570	84	33	460	460	490	565	375	420	420	420
10	775				187	-20	440									
13	975				287	-70	460									
6,300	2m	316 - 4/1	7	570	84	33	460	565	500	565	375	/	420	/	250	505
			10	775	187	-20										530
			13	975	287	-70										550
10,000	2m	525 - 4/1	7	590	73	45	600	600	600	650	415	465	460	505	270	685
			10	795	176	-8										715
			13	995	267	-58										750

**Static reactions**



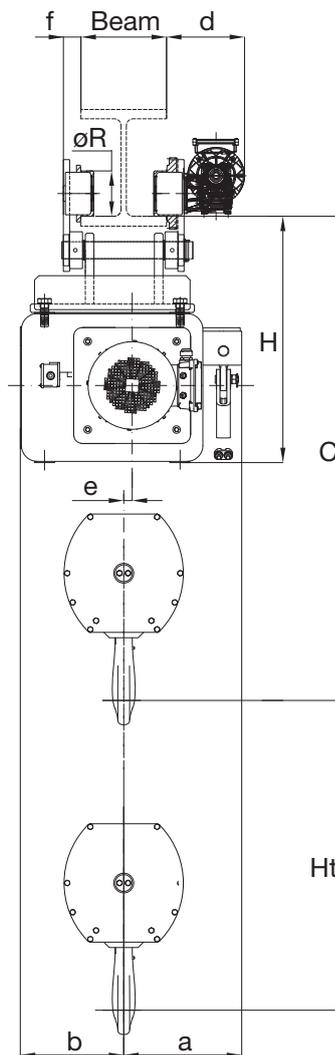
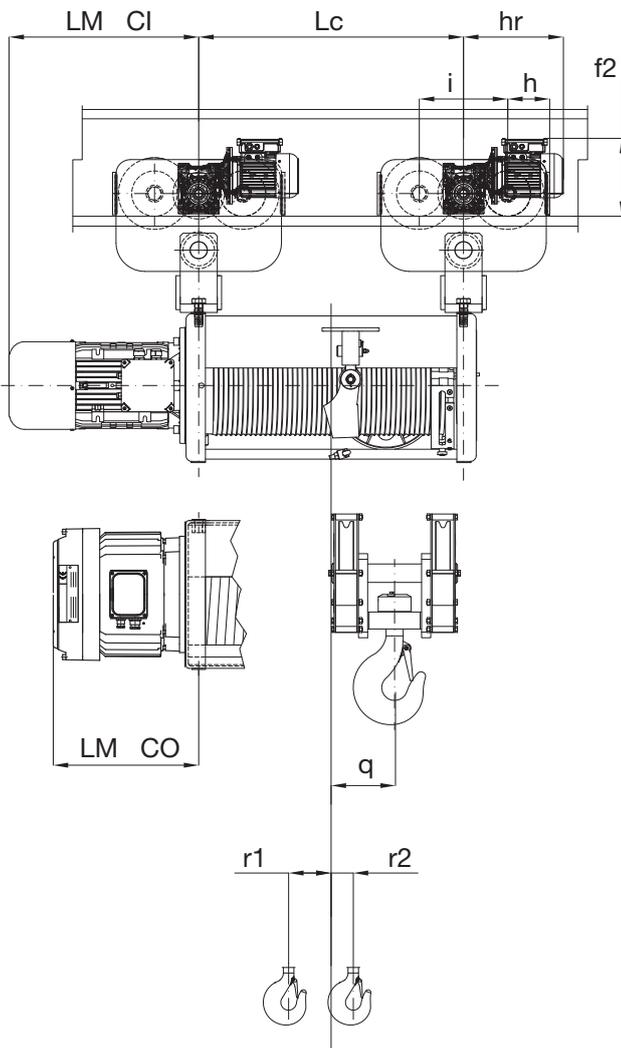
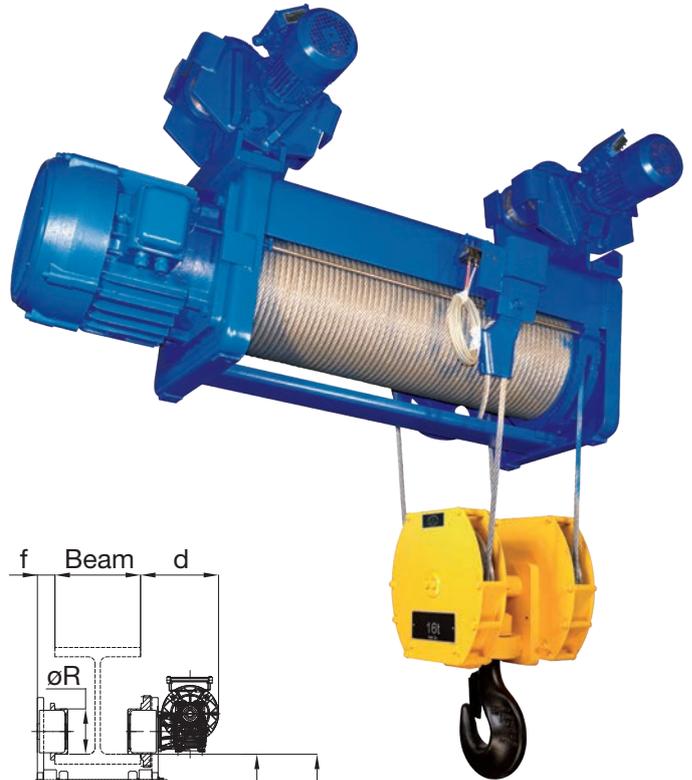
Hoist type	WLL	Hook travel					
		H7		H10		H13	
XM	Kg	R1 daN	R2 daN	R1 daN	R2 daN	R1 daN	R2 daN
308	2,000	1523	812	1699	649	1810	553
308	2,500	1860	975	2078	770	2214	649
308	3,200	2331	1204	2608	940	2780	783
312	4,000	2821	1597	3211	1229	3436	1025
312	5,000	3469	1949	3952	1488	4230	1231
316	6,300	4353	2451	4959	1868	5306	1541
525	6,300	4308	2676	4944	2072	5258	1789
525	8,000	5368	3316	6171	2545	6565	2182
525	10,000	6616	4068	7614	3102	8101	2646

$$\text{Load on the single wheel} = \frac{R1}{4} + \frac{R2}{4}$$

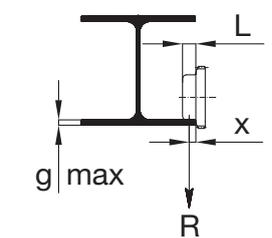
**Hoist with monorail trolley S4**

**XM 740 / 750 / 963 / 980**  
Capacity 12.5 ÷ 32 t

**S4** 4 ROPE FALLS (4/1)  
**Type 3** STANDARD HEADROOM



Wheel diameter	x	L	g max
mm	mm	mm	mm
140	20	40	25
160	22,5	45	45
210	22,5	45	45



R = Per single wheel

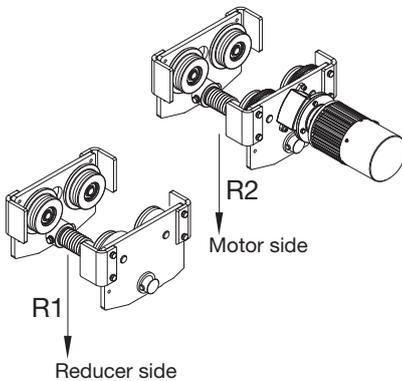
**Fixed dimensions**

WLL	Group	Hoist type	C	H	a	b	d	e	f	øR	f2	i	h	hr	Min flange width
Kg	FEM	XM	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
12,500	3m	740 - 4/1	1710	785	415	360	410	30	70	140	165	207	125	/	150
16,000	2m	740 - 4/1	1710	785	415	360	300	30	70	160	235	310	200	350	150
20,000	2m	750 - 4/1	1750	910	415	360	340	30	140	160	235	310	200	350	150
20,000	3m	963 - 4/1	2130	1020	470	405	340	29	140	210	235	310	200	350	150
25,000	2m	963 - 4/1	2130	1020	470	405	340	29	140	210	235	310	200	350	150
32,000	1Am	980 - 4/1	2250	1020	470	405	340	29	140	210	235	310	200	350	150

**Variable dimensions**

WLL	Group	Hoist type	Hook travel	Lc	q	r1	r2	LMCI				LMCO				Weight
Kg	FEM	XM	m	mm	mm	mm	mm	mm N	mm V	mm NA	mm VA	mm N	mm V	mm NA	mm VA	Kg
12,500	3m	740 - 4/1	6.5	563	35	71	/	670	/	670	/	480	/	520	/	1185
			9	713	115	31	/									1310
16,000	2m		12.5	928	223	/	22									1400
			16	1143	330	/	76									1450
20,000	2m	750 - 4/1	/	/	/	/	/	890	/	890	/	495	/	535	/	/
			9	713	115	31	/									1370
			12.5	928	223	/	22									1450
			16	1143	330	/	76									1520
20,000	3m	963 - 4/1	10	840	130	52	/	890	/	890	/	495	/	535	/	2000
			16	1255	338	/	51									2150
			24	1755	588	/	177									2390
25,000	2m	963 - 4/1	10	840	130	52	/	890	/	890	/	495	/	535	/	2000
			16	1255	338	/	51									2150
			24	1755	588	/	177									2390
32,000	1Am	980 - 4/1	10	840	130	52	/	890	/	890	/	495	/	535	/	2120
			16	1255	338	/	51									2340
			24	1755	588	/	177									2580

**Static reactions**



Hoist	Capacity	Hook travel							
		H6,5		H9		H12,5		H16	
XM	Kg	R1 daN	R2 daN	R1 daN	R2 daN	R1 daN	R2 daN	R1 daN	R2 daN
740	12,500	7689	5996	9001	4807	10330	3570	10677	3265
740	16,000	9656	7529	11316	5992	13001	4399	13438	4004
750	20,000	11953	9307	14005	7366	16092	5358	16647	4874
XM	Kg	H10		H16		H24		/	
963	20,000	14200	7756	16611	5539	18056	4331	/	/
963	25,000	17474	9482	20457	6693	22232	5155	/	/
980	32,000	22231	11891	26038	8290	28287	6290	/	/

$$\text{Load on the single wheel} = \frac{R1}{4} \frac{R2}{4}$$

**Hoist with monorail trolley S2**

**XM 308 / 312 / 316 / 525**

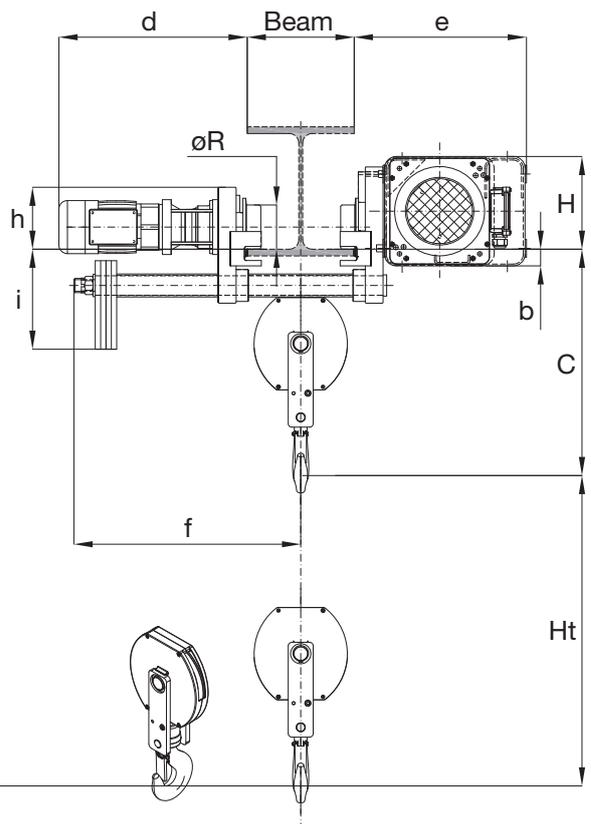
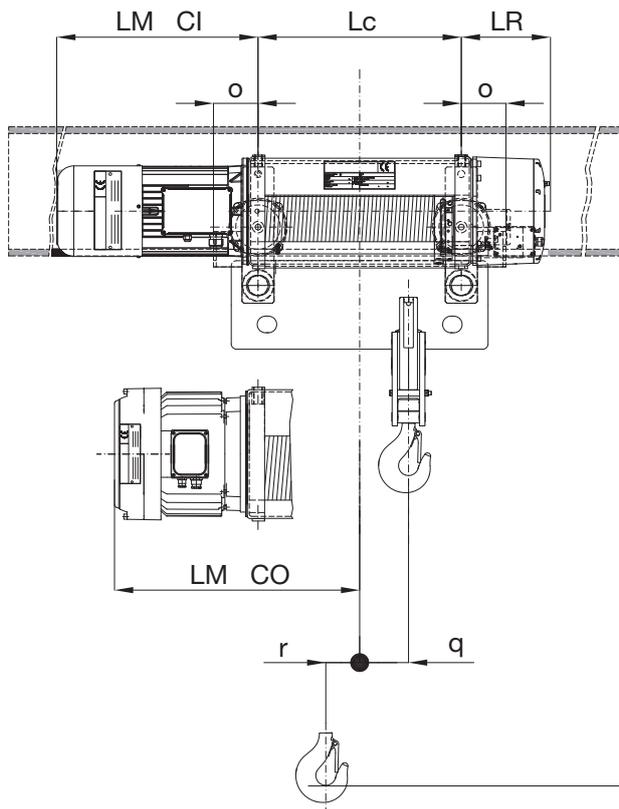
**S2** 2 ROPE FALLS (2/1)

**Type 83** MONORAIL TROLLEY LOW HEADROOM



Wheel diameter	x	L	g <sub>max</sub>
mm	mm	mm	mm
125	20	40	28

R = Per single wheel



**Fixed dimensions**

WLL	Group	Hoist type	C	H	e	d	h	i	øR	b	f*	o	Min flange width	Max beam flange x C quote
Kg	FEM	XM	mm	mm	mm	mm	mm	mm						
1,000	3m	308 - 2/1	700	242	470	430	140	290	125	70	620	100	110	300
1,600	2m	308 - 2/1	700	242	470	430	140	290	125	70	620	100	110	300
2,500	2m	312 - 2/1	750	250	475	430	140	290	125	70	620	100	110	300
3,200	2m	316 - 2/1	750	250	475	430	140	290	125	70	620	100	110	300
5,000	2m	525 - 2/1	780	305	550	485	140	340	125	75	650	100	110	300

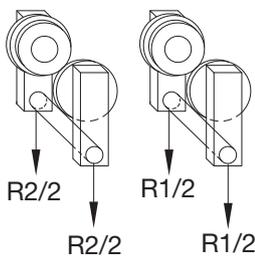
Note: 1) For beam sizes wider than those shown, the "C" dimension (hook to girder min. size) increases of 16 mm every 10 mm of wider beam size.  
\* The dimension "f" shown is valid for beam size 300 mm; with different beam size it increases or decreases of half of the difference of the beam size.

**Variable dimensions**

WLL	Group	Hoist type	Hook travel	Lc	q	r	LMCI				LMCO				LR	Weight	
Kg	FEM	XM	m	mm	mm	mm	mm N	mm V	mm NA	mm VA	mm N	mm V	mm NA	mm VA		Kg	
1,000	3m	308 - 2/1	10	395	91	61	460	460	490	490	315	375	385	420	200		360
			14	520	154												390
1,600	2m		20	700	244												430
			26	885	377												470
2,500	2m	312 - 2/1	10	440	90	77	460	460	490	565	375	420	420	420	250		425
			14	570	155												455
			20	775	258												500
			26	975	358												545
3,200	2m	316 - 2/1	10	440	90	77	460	565	500	565	375	/	420	/	250		440
			14	570	155												470
			20	775	258												520
			26	975	358												560
5,000	2m	525 - 2/1	10	455	90	78	600	600	600	650	415	465	460	505	270		625
			14	590	157												660
			20	795	260												720
			26	995	360												790

**Static reactions**

Motor side      Reducer side



$$\text{Load on the single wheel} = \frac{R1}{2} \quad \frac{R2}{2}$$

Hoist type	WLL	Hook travel							
		H10		H14		H20		H26	
		R1 daN	R2 daN	R1 daN	R2 daN	R1 daN	R2 daN	R1 daN	R2 daN
308	1,000	917	443	997	390	1069	357	1118	342
308	1,600	1355	605	1474	513	1578	448	1647	413
312	2,000	1631	790	1783	670	1930	570	2020	522
312	2,500	1983	938	2169	784	2346	654	2454	588
316	3,200	2485	1152	2717	952	2937	779	3069	689
525	3,200	2563	1260	2802	1056	3029	891	3176	813
525	4,000	3122	1501	3414	1244	3691	1029	3865	924
525	5,000	3819	1804	4181	1477	4518	1202	4727	1062

**Hoist with monorail trolley S4**

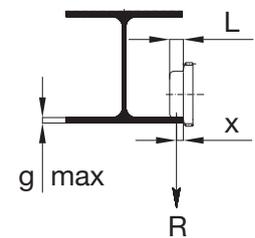
**XM 308 / 312 / 316 / 525**

**S4** 4 ROPE FALLS (4/1)

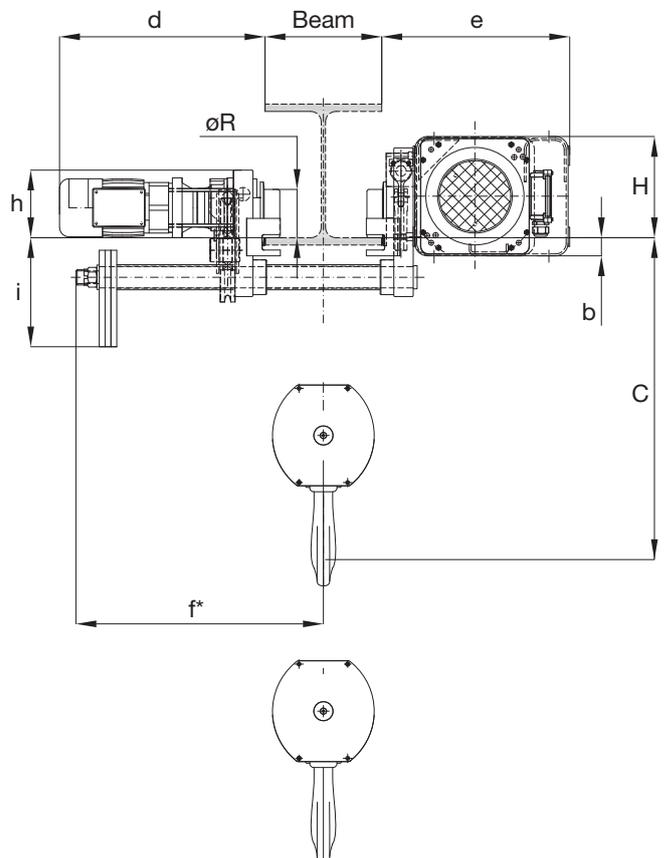
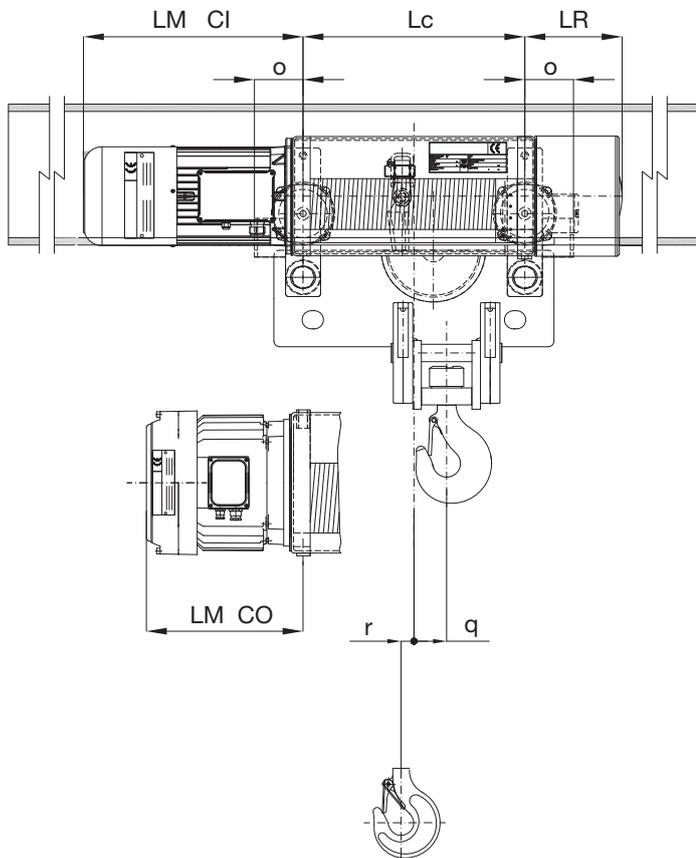
**Type 83 MONORAIL TROLLEY LOW HEADROOM**



Wheel diameter	x	L	g <sub>max</sub>
mm	mm	mm	mm
125	20	40	28
155	22	45	28



R = Per single wheel



**Fixed dimensions**

WLL	Group	Hoist type	C	H	e	d	h	i	øR	b	f*	o	Min flange width	Max beam flange x C quote
Kg	FEM	XM	mm	mm	mm	mm	mm	mm						
2,000	3m	308 - 4/1	680	245	470	430	140	290	125	66	620	100	110	300
3,200	2m	308 - 4/1	680	245	470	430	140	290	125	66	620	100	110	300
5,000	2m	312 - 4/1	720	245	470	475	140	290	125	66	650	100	110	300
6,300	2m	316 - 4/1	720	270	485	530	175	290	125	50	650	125	110	300
10,000	2m	525 - 4/1	770	305	525	535	175	320	155	50	750	125	110	300

Note: 1) For beam sizes wider than those shown, the "C" dimension (hook to girder min. size) increases of 16 mm every 10 mm of wider beam size for 308/312/316 hoists and 22 mm for 525 hoists.

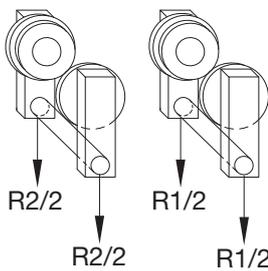
\* The dimension "f" shown is valid for beam size 300 mm; with different beam size it increases or decreases of half of the difference of the beam size.

**Variable dimensions**

WLL	Group	Hoist type	Hook travel	Lc	q	r	LMCI				LMCO				LR	Weight
							mm N	mm V	mm NA	mm VA	mm N	mm V	mm NA	mm VA		
Kg	FEM	XM	m	mm	mm	mm	mm N	mm V	mm NA	mm VA	mm N	mm V	mm NA	mm VA	Kg	
2,000	3m	308 - 4/1	7	520	90	17	460	460	490	490	315	375	385	420	200	410
			10	700	180	-28										450
3,200	2m	308 - 4/1	13	885	273	-75									490	
5,000	2m	312 - 4/1	7	570	84	33	460	460	490	565	375	420	420	420	250	520
			10	775	187	-20										570
			13	975	287	-70										620
6,300	2m	316 - 4/1	7	570	84	33	460	565	500	565	375	/	420	/	250	535
			10	775	187	-20										590
			13	975	287	-70										635
10,000	2m	525 - 4/1	7	590	73	45	600	600	600	650	415	465	460	505	270	785
			10	795	176	-8										850
			13	995	267	-58										950

**Static reactions**

Motor side      Reducer side

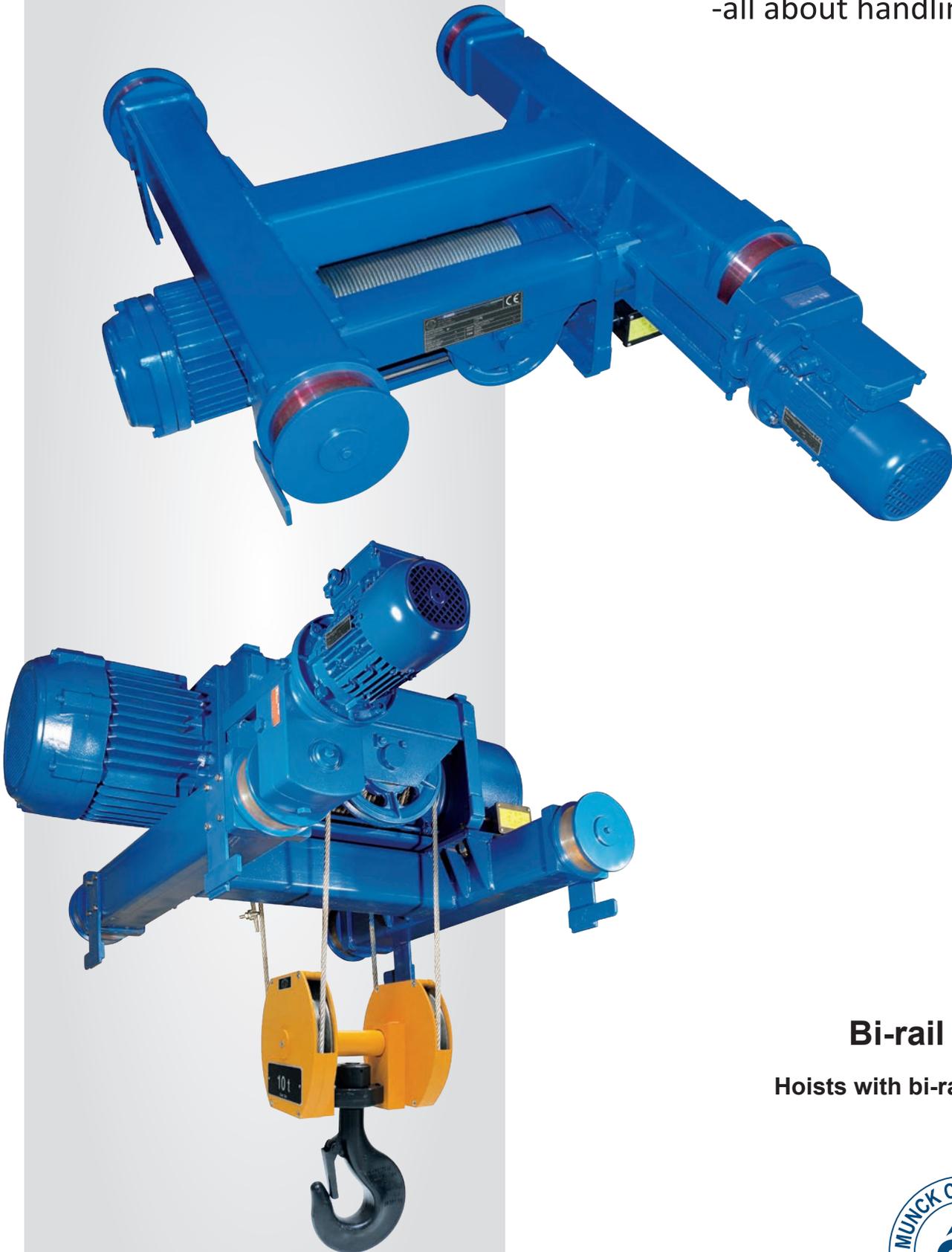


$$\text{Load on the single wheel} = \frac{R1}{2} \quad \frac{R2}{2}$$

Hoist type	WLL	Hook travel					
		H7		H10		H13	
		R1 daN	R2 daN	R1 daN	R2 daN	R1 daN	R2 daN
XM	Kg						
308	2,000	1561	848	1751	700	1873	615
308	2,500	1897	1012	2129	822	2277	711
308	3,200	2368	1241	2659	992	2843	845
312	4,000	2872	1647	3277	1294	3515	1104
312	5,000	3519	2000	4018	1553	4309	1310
316	6,300	4368	2467	4990	1897	5349	1585
525	6,300	4357	2725	4988	2163	5343	1873
525	8,000	5417	3365	6208	2643	6649	2267
525	10,000	6664	4118	7643	3208	8186	2730

# **munck**

-all about handling-



## **Bi-rail trolley**

**Hoists with bi-rail trolley**

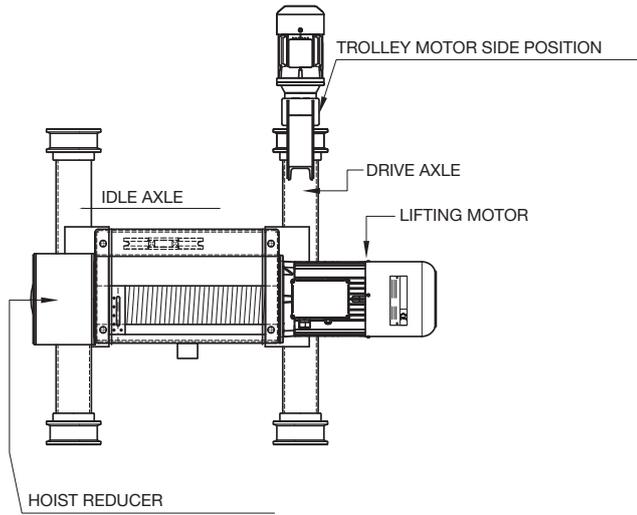


**Motor reducer position**

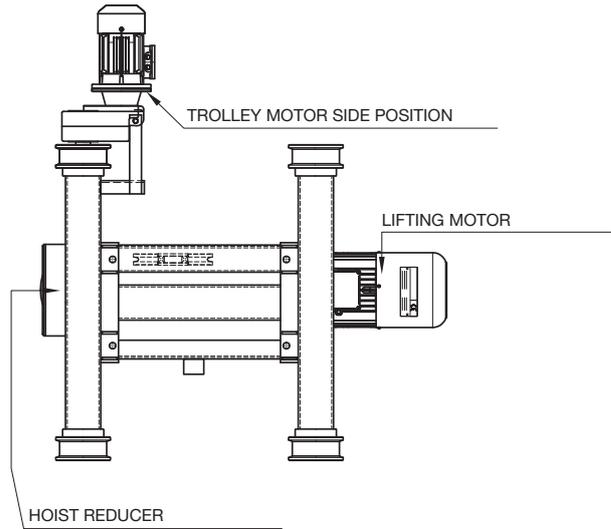
Hoist with bi-rail trolley

**MOTOR REDUCER POSITION FOR HOIST SIZE FROM 308 TO 525**

**HOIST VERSION SUPPORTED**

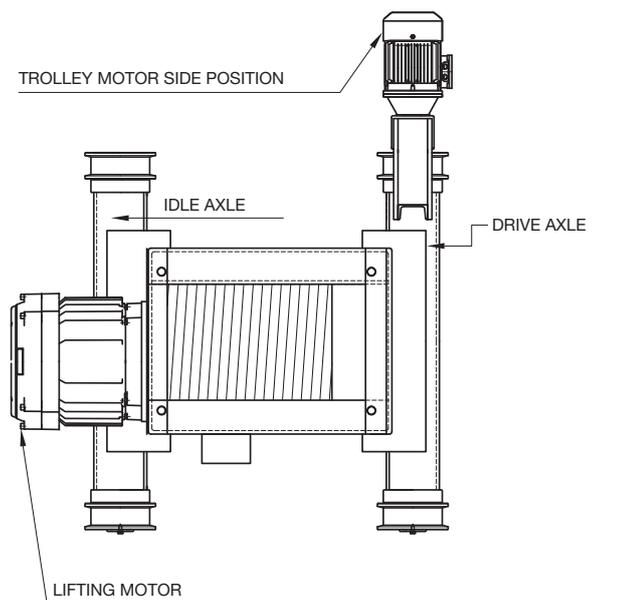


**HOIST VERSION SUSPENDED C1**

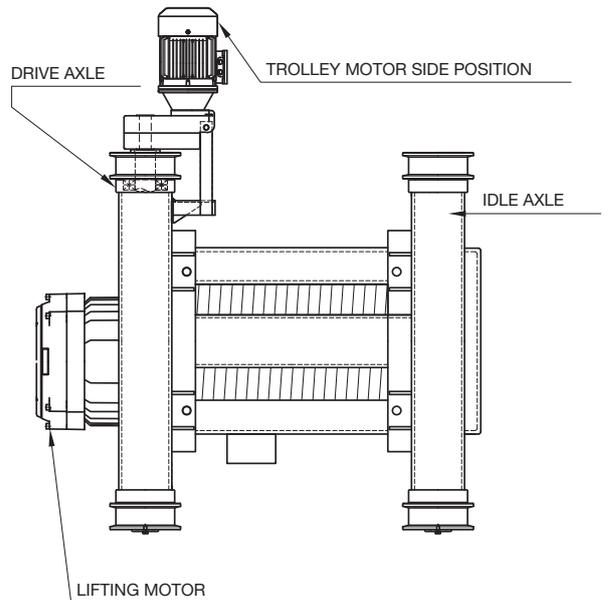


**MOTOR REDUCER POSITION FOR HOIST SIZE FROM 740 TO 1125**

**HOIST VERSION SUPPORTED**



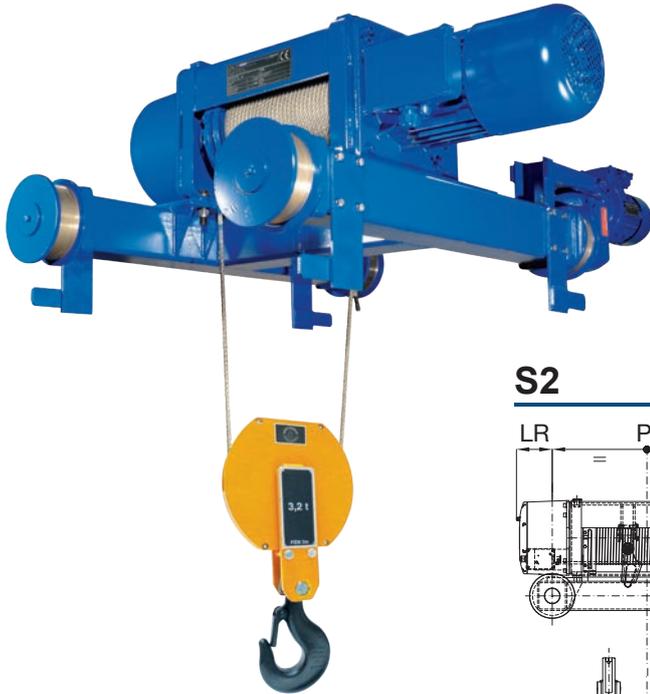
**HOIST VERSION SUSPENDED C1**



**Hoist with bi-rail trolley S2**

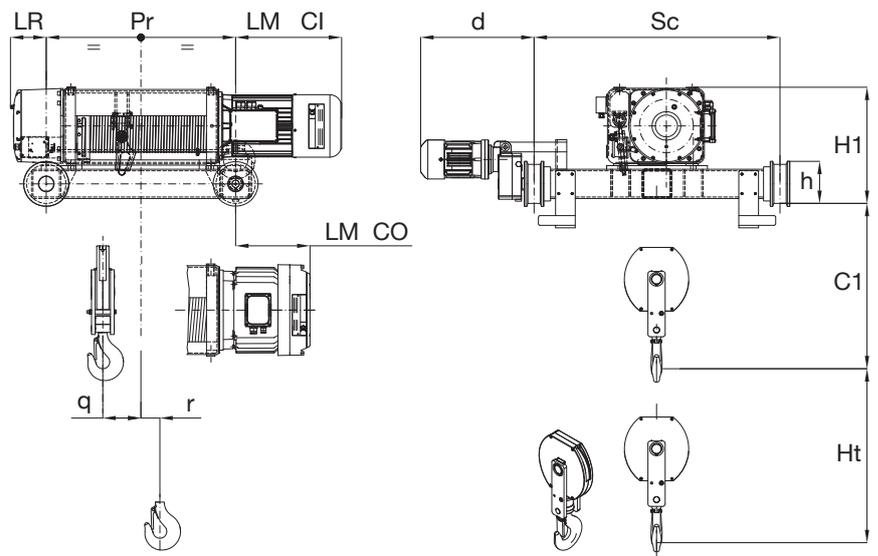
**XM 308 / 312 / 316 / 525**

**S2** 2 ROPE FALLS (2/1)  
**Type 53** BI-RAIL TROLLEY HOIST SUPPORTED  
**Type 53C1** BI-RAIL TROLLEY HOIST SUSPENDED



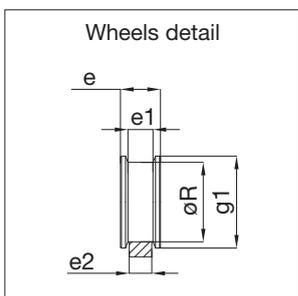
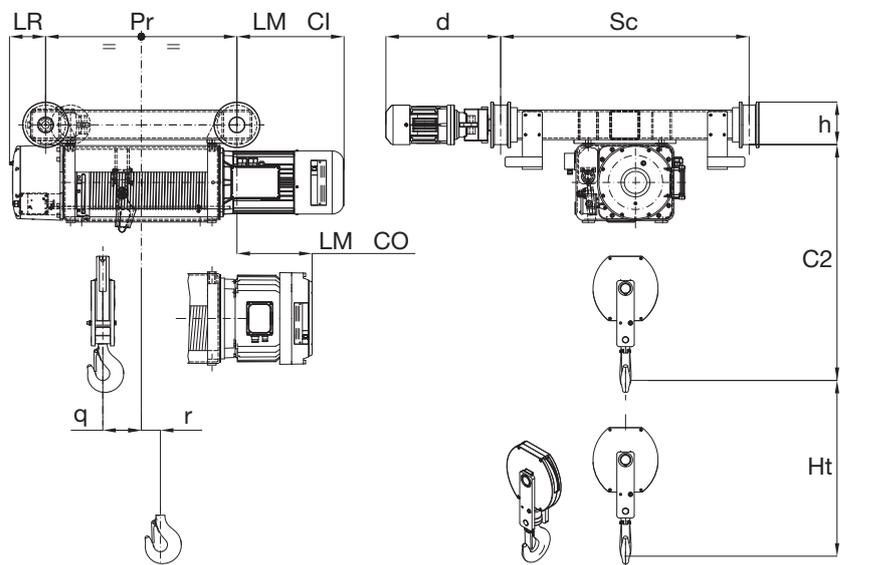
**S2**

**Type 53**



**S2**

**Type 53C1**



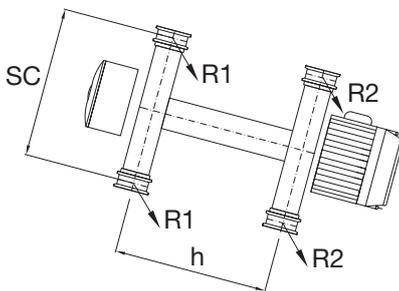
**Fixed dimensions**

WLL	Group	Hoist type	C1	C2	Sc	H1	H2	a	b	d	h	øR	e	e1	e2	g1
Kg	FEM	XM	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
1,000	3m	308 - 2/1	570	900	1000	490	320	240	250	460	175	160	80	50	40	185
1,600	2m	308 - 2/1	570	900	1000	490	320	240	250	460	175	160	80	50	40	185
2,500	2m	312 - 2/1	640	965	1000	490	320	240	250	460	175	160	80	50	40	185
3,200	2m	316 - 2/1	640	965	1000	490	320	240	250	460	175	160	80	50	40	185
5,000	2m	525 - 2/1	730	1110	1000	550	390	250	275	520	175	160	80	50	40	185

**Variable dimensions**

WLL	Group	Hoist type	Hook travel	Pr	q	r	LMCI				LMCO				LR	Weight	
Kg	FEM	XM	m	mm	mm	mm	mm N	mm V	mm NA	mm VA	mm N	mm V	mm NA	mm VA		Kg	
1,000	3m	308 - 2/1	10	595	91	61	360	360	390	390	215	275	285	320	100		380
			14	720	154												415
1,600	2m		20	900	244												430
			26	1085	377												455
2,500	2m	312 - 2/1	10	640	90	77	360	360	390	460	275	320	320	320	145		440
			14	770	155												480
			20	975	258												505
			26	1175	358												540
3,200	2m	316 - 2/1	10	640	90	77	360	465	400	465	275	/	320	/	145		455
			14	770	155												495
			20	975	258												520
			26	1175	358												550
5,000	2m	525 - 2/1	10	655	90	78	500	500	500	550	315	365	360	405	160		630
			14	790	157												670
			20	995	260												710
			26	1195	360												740

**Static reactions**



Load on the single wheel =  $\frac{R1}{2}$   $\frac{R2}{2}$

Hoist type	WLL	Hook travel							
		H10		H14		H20		H26	
XM	Kg	R1 daN	R2 daN	R1 daN	R2 daN	R1 daN	R2 daN	R1 daN	R2 daN
308	1,000	455	235	464	244	497	219	523	205
308	1,600	670	321	678	329	728	288	766	262
312	2,000	817	403	827	412	897	355	945	322
312	2,500	993	478	1002	487	1088	414	1146	371
316	3,200	1242	586	1252	596	1360	500	1432	443
525	3,200	1290	626	1295	640	1406	549	1478	492
525	4,000	1570	746	1574	760	1711	645	1798	572
525	5,000	1921	895	1924	911	2091	764	2199	671

**Hoist with bi-rail trolley S2**

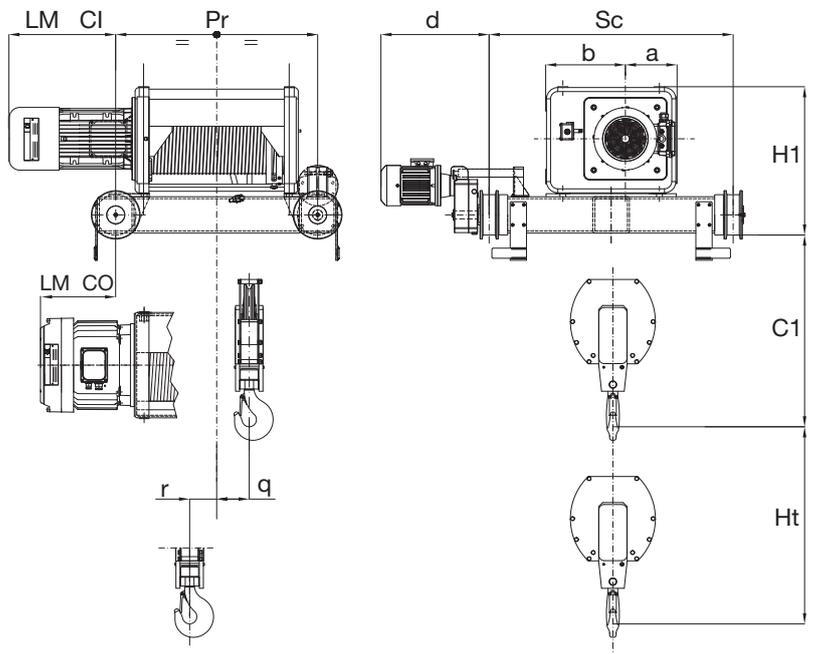
**XM 740 / 750 / 963 / 980 / 1100 / 1125**

**S2** 2 ROPE FALLS (2/1)  
**Type 53** BI-RAIL TROLLEY HOIST SUPPORTED  
**Type 53C1** BI-RAIL TROLLEY HOIST SUSPENDED



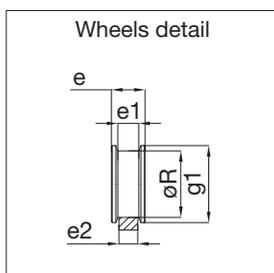
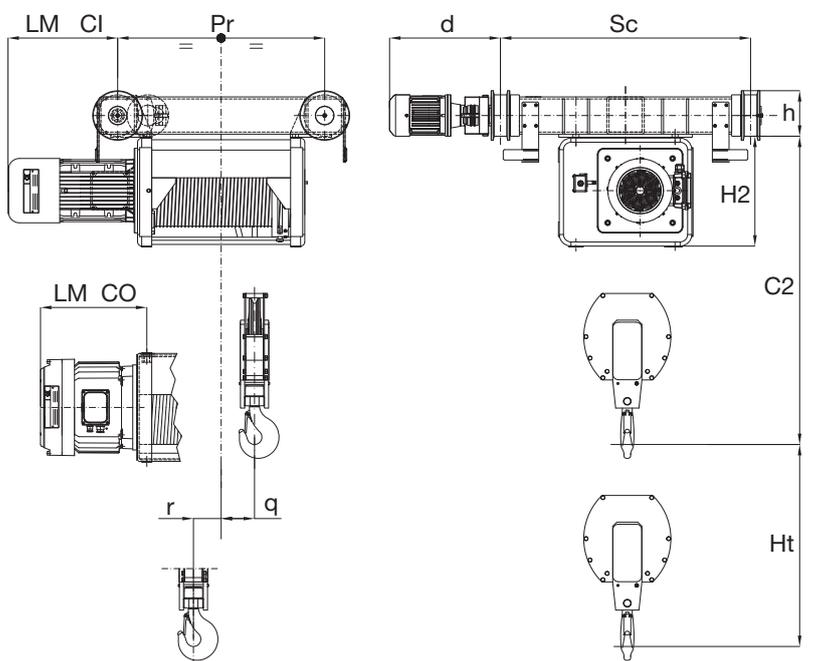
**S2**

**Type 53**



**S2**

**Type 53C1**



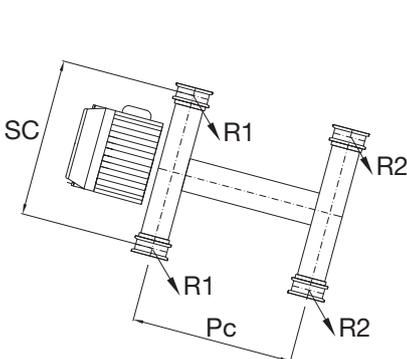
**Fixed dimensions**

WLL	Group	Hoist type	C1	C2	Sc	H1	H2	a	b	d	h	øR	e	e1	e2	g1
Kg	FEM	XM	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
6,300	3m	740 - 2/1	840	1390	1200	740	535	320	405	540	220	160	90	60	50	240
8,000	2m	740 - 2/1	840	1390	1200	740	535	320	405	540	220	160	90	60	50	240
10,000	2m	750 - 2/1	950	1390	1200	740	535	320	405	630	220	200	90	60	50	240
10,000	3m	963 - 2/1	1100	1700	1200	880	615	370	450	630	270	250	90	60	50	290
12,500	2m	963 - 2/1	1100	1700	1200	880	615	370	450	630	270	250	90	60	50	290
16,000	1Am	980 - 2/1	1100	1750	1200	880	615	370	450	630	270	250	90	60	50	290
20,000	2m	1100 - 2/1	1330	/	1450	1060	/	480	500	660	345	320	120	90	80	370
25,000	1Am	1125 - 2/1	1330	/	1450	1060	/	480	500	660	345	320	120	90	80	370

**Variable dimensions**

WLL	Group	Hoist type	Hook travel	Pr	q	r	LMCI				LMCO				Weight
Kg	FEM	XM	m	mm	mm	mm	mm N	mm V	mm NA	mm VA	mm N	mm V	mm NA	mm VA	Kg
6,300	3m	740 - 2/1	13	843	130	83	530	/	530	/	340	/	380	/	1150
			18	993	160	1200									
8,000	2m		25	1208	268	133									1270
			32	1423	375	1360									
10,000	2m	750 - 2/1	13	843	130	83	530	/	530	/	340	/	380	/	1183
			18	993	160	1290									
			25	1208	268	1330									
			32	1423	375	1480									
10,000	3m	963 - 2/1	20	1160	230	134	610	/	610	/	345	/	345	/	1780
			32	1575	438										2010
			48	2075	688										2300
12,500	2m	963 - 2/1	20	1160	230	134	600	/	600	/	335	/	335	/	1780
			32	1575	438										2010
			48	2075	688										2300
16,000	1Am	980 - 2/1	20	1160	230	134	590	/	590	/	325	/	325	/	2020
			32	1575	438										2250
			48	2075	688										2530
20,000	2m	1100 - 2/1	22	1337	305	100	620	/	620	/	325	/	355	/	4160
			28	1522	400										4265
			36	1762	520										4520
			52	2272	775										4900
25,000	1Am	1125 - 2/1	22	1337	305	100	620	/	620	/	325	/	355	/	4160
			28	1522	400										4265
			36	1762	520										4520
			52	2272	775										4900

**Static reactions**

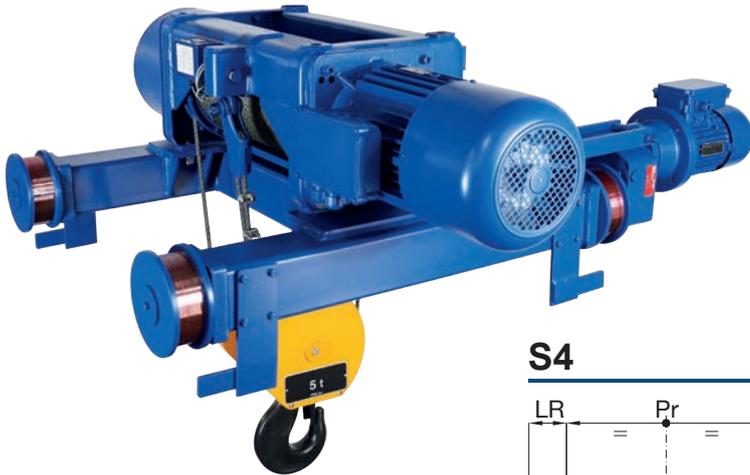


Hoist	Capacity	Hook travel							
		H13		H18		H25		H32	
XM	Kg	R1 daN	R2 daN	R1 daN	R2 daN	R1 daN	R2 daN	R1 daN	R2 daN
740	6,300	2371	1355	2405	1345	2680	1106	2770	1058
740	8,000	2927	1649	2967	1633	3311	1325	3419	1259
750	10,000	3589	2003	3651	1994	4065	1596	4213	1526
XM	Kg	H20		H32		H48		/	
963	10,000	3974	1913	4435	1567	4778	1368	/	/
963	12,500	4847	2290	5408	1844	5817	1579	/	/
980	16,000	6168	2839	6874	2250	7378	1887	/	/
XM	Kg	H22		H28		H36		H52	
1100	20,000	8413	3666	8790	3340	9173	3069	9723	2688
1125	25,000	10233	4346	10697	3933	11161	3581	11826	3085

**Hoist with bi-rail trolley S4**

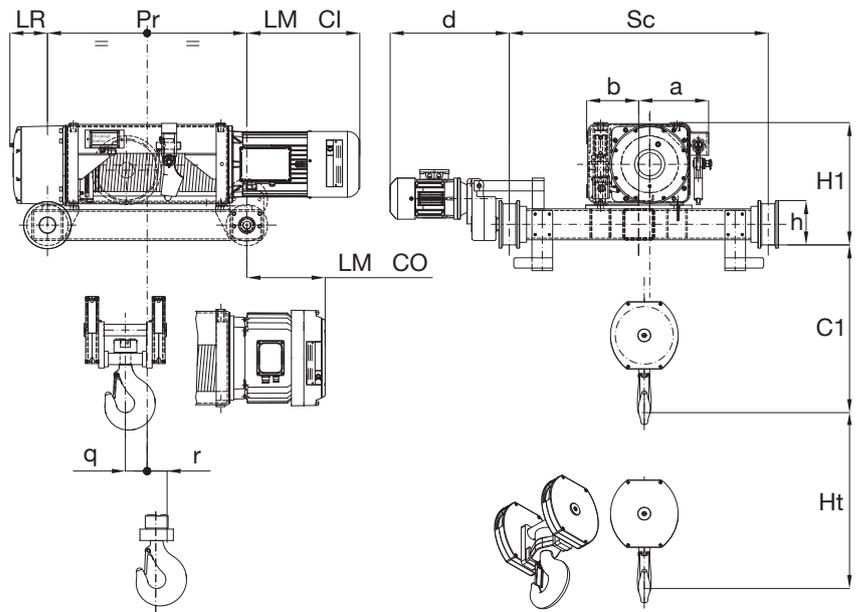
**XM 308 / 312 / 316 / 525**

**S4** 4 ROPE FALLS (2/1)  
**Type 53** BI-RAIL TROLLEY HOIST SUPPORTED  
**Type 53C1** BI-RAIL TROLLEY HOIST SUSPENDED



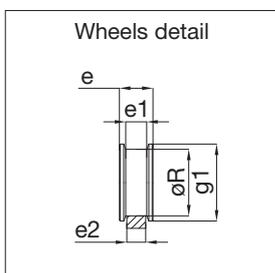
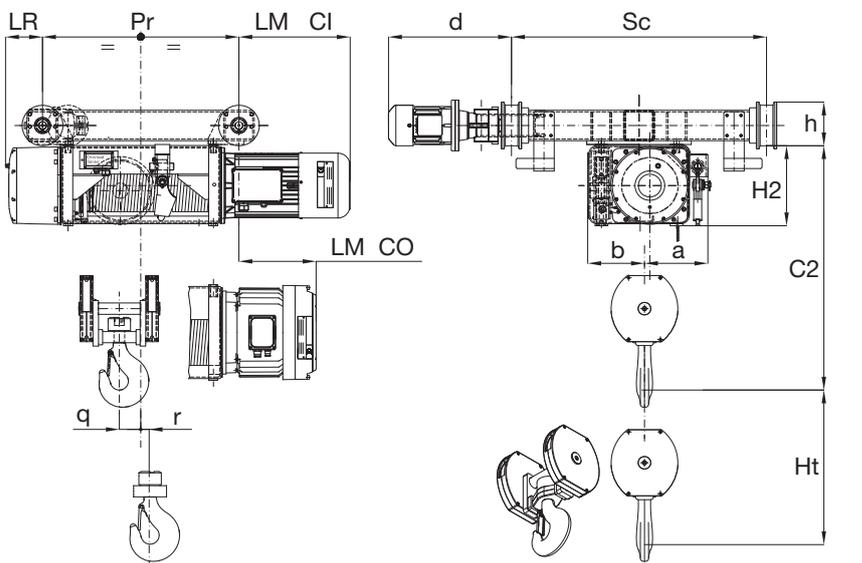
**S4**

**Type 53**



**S4**

**Type 53C1**



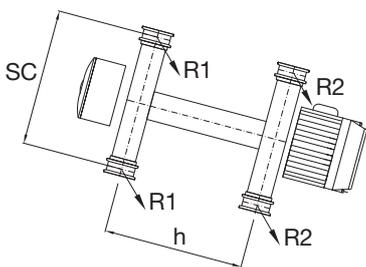
**Fixed dimensions**

WLL	Group	Hoist type	C1	C2	Sc	H1	H2	a	b	d	h	øR	e	e1	e2	g1
Kg	FEM	XM	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
2,000	3m	308 - 4/1	520	840	1000	490	320	255	220	460	175	160	80	50	40	185
3,200	2m	308 - 4/1	520	840	1000	490	320	255	220	460	175	160	80	50	40	185
5,000	2m	312 - 4/1	640	965	1000	490	320	255	220	460	175	160	80	50	40	185
6,300	2m	316 - 4/1	640	965	1000	490	320	255	220	460	175	160	80	50	40	185
10,000	2m	525 - 4/1	750	1060	1000	550	390	275	250	520	175	160	80	50	40	185

**Variable dimensions**

WLL	Group	Hoist type	Hook travel	Pr	q	r	LMCI				LMCO				LR	Weight
Kg	FEM	XM	m	mm	mm	mm	mm N	mm V	mm NA	mm VA	mm N	mm V	mm NA	mm VA		Kg
2,000	3m	308 - 4/1	7	720	90	17	360	360	390	390	215	275	285	320	100	440
			10	900	180	-28										450
3,200	2m		13	1085	273	-75										480
5,000	2m	312 - 4/1	7	770	84	33	360	360	390	460	275	320	320	320	145	520
			10	975	187	-20										550
			13	1175	287	-70										580
6,300	2m	316 - 4/1	7	770	84	33	360	465	400	465	275	/	320	/	145	540
			10	975	187	-20										560
			13	1175	287	-70										590
10,000	2m	525 - 4/1	7	790	73	45	500	500	500	550	315	365	360	405	160	700
			10	995	176	-8										740
			13	1195	267	-58										780

**Static reactions**



Hoist type	WLL	Hook travel					
		H7		H10		H13	
XM	Kg	R1 daN	R2 daN	R1 daN	R2 daN	R1 daN	R2 daN
308	2,000	738	486	818	415	876	370
308	2,500	884	590	974	510	1040	456
308	3,200	1100	724	1214	620	1296	550
312	4,000	1358	918	1532	758	1645	660
312	5,000	1656	1120	1868	922	2007	798
316	6,300	2054	1380	2319	1129	2492	971
525	6,300	2058	1470	2336	1211	2494	1073
525	8,000	2542	1836	2912	1484	3179	1238
525	10,000	2947	2431	3761	1636	4061	1356

**Hoist with bi-rail trolley S4**

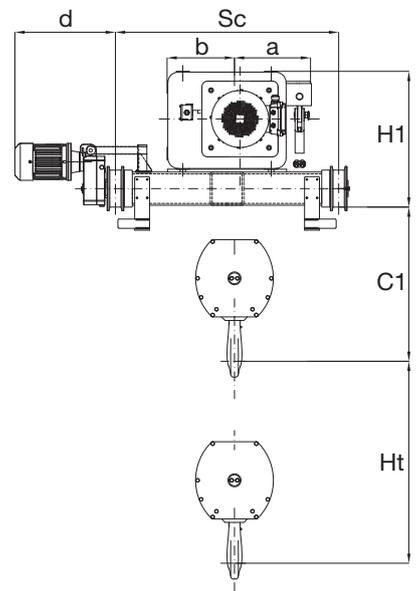
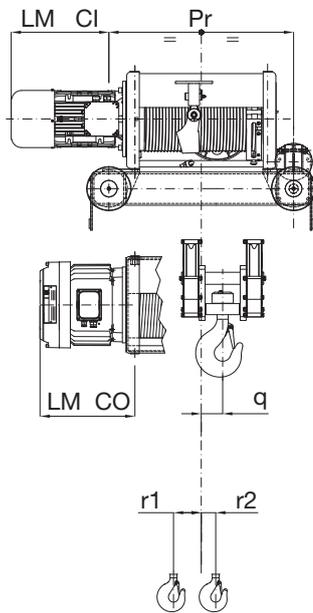
**XM 740 / 750 / 963 / 980 / 1100 / 1125**

**S4** 4 ROPE FALLS (4/1)  
**Type 53** BI-RAIL TROLLEY HOIST SUPPORTED  
**Type 53C1** BI-RAIL TROLLEY HOIST SUSPENDED



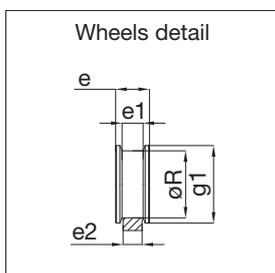
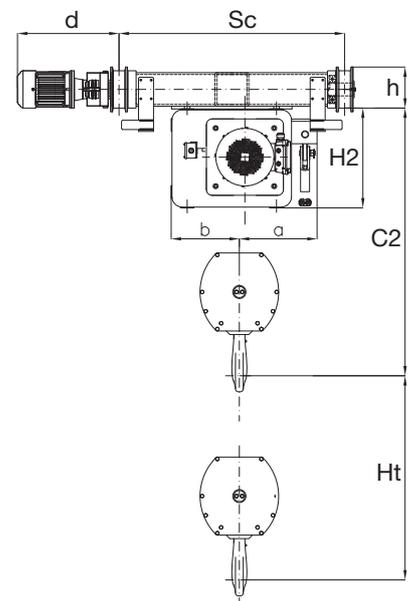
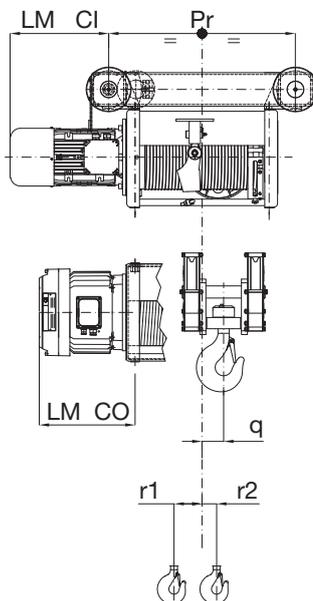
**S4**

**Type 53**



**S4**

**Type 53C1**



**Fixed dimensions**

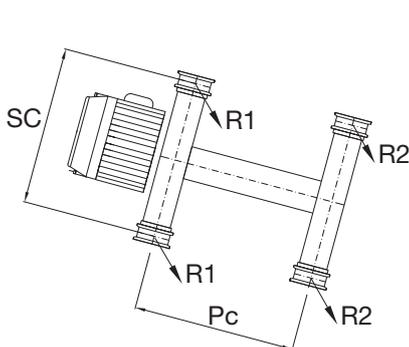
WLL	Group	Hoist type	C1	C2	Sc	H1	H2	a	b	d	h	øR	e	e1	e2	g1
Kg	FEM	XM	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
12,500	3m	740 - 4/1	830	1360	1200	740	535	360	340	540	220	200	90	60	50	240
16,000	2m	740 - 4/1	830	1360	1200	740	535	360	340	540	220	200	90	60	50	240
20,000	2m	750 - 4/1	850	1410	1200	770	535	360	340	630	270	250	90	60	50	290
20,000	3m	963 - 4/1	1150	1750	1450	880	620	435	430	630	270	250	90	60	50	290
25,000	2m	963 - 4/1	1150	1750	1450	880	620	435	430	630	270	250	90	60	50	290
32,000	1Am	980 - 4/1	1200	1800	1450	1180	600	450	320	660	345	320	100	70	60	370
40,000	2m	1100 - 4/1	1270	/	2000	1270	/	660	500	660	345	320	120	90	80	370
50,000	1Am	1125 - 4/1	1270	/	2000	1270	/	660	500	660	345	320	120	90	80	370

**Variable dimensions**

WLL	Group	Hoist type	Hook travel	Pr	q	r1	r2	LMCI				LMCO				Weight
Kg	FEM	XM	m	mm	mm	mm	mm	mm N	mm V	mm NA	mm VA	mm N	mm V	mm NA	mm VA	Kg
16,000	2m	740 - 4/1	6,5	843	35	71	/	530	/	530	/	340	/	380	/	1180
			9	993	115	31	/									1310
			12,5	1208	223	/	22									1410
			16	1423	330	/	76									1460
20,000	2m	750 - 4/1	6,5	883	38	69	/	530	/	530	/	340	/	380	/	1475
			9	1033	115	31	/									1600
			12,5	1248	223	/	22									1700
			16	1463	330	/	76									1780
20,000	3m	963 - 4/1	10	1160	130	52	/	610	/	610	/	345	/	345	/	2045
			16	1575	338	/	51									2270
			24	2075	588	/	177									2550
25,000	2m	963 - 4/1	10	1160	130	52	/	600	/	600	/	335	/	335	/	2045
			16	1575	338	/	51									2270
			24	2075	588	/	177									2550
32,000	1Am	980 - 4/1	10	1180	130	52	/	590	/	590	/	325	/	325	/	2515
			16	1595	338	/	51									2760
			24	2095	588	/	177									3060
40,000*	2m	1100 - 4/1	11	1437	193	12	/	620	/	620	/	325	/	355	/	4470
			14	1622	285	/	35									4600
			18	1862	405	/	95									4890
			26	2372	660	/	222									5600
50,000*	1Am	1125 - 4/1	11	1437	193	12	/	620	/	620	/	325	/	355	/	4470
			14	1622	285	/	35									4600
			18	1867	405	/	95									4890
			26	2372	660	/	222									5600

\* Only supported version

**Static reactions**



Hoist	Capacity	Hook travel							
		H6,5		H9		H12,5		H16	
XM	kg	R1 daN	R2 daN	R1 daN	R2 daN	R1 daN	R2 daN	R1 daN	R2 daN
740	12,500	3714	3184	4213	2752	4778	2238	4985	2057
740	16,000	4663	3986	5291	3424	6005	2761	6266	2526
750	20,000	6188	4627	6535	4310	7232	3658	7816	3145
XM	kg	H10		H16		H24		/	
963	20,000	6692	4428	7782	3449	8545	2823	/	/
963	25,000	8222	5398	9569	4162	10504	3364	/	/
980	32,000	10523	6900	12242	5303	13427	4265	/	/
XM	kg	H11		H14		H18		H26	
1100	40,000	11048	11385	11697	10825	12351	10293	13334	9550
1125	50,000	13506	13927	14305	13217	15105	12539	16302	11582

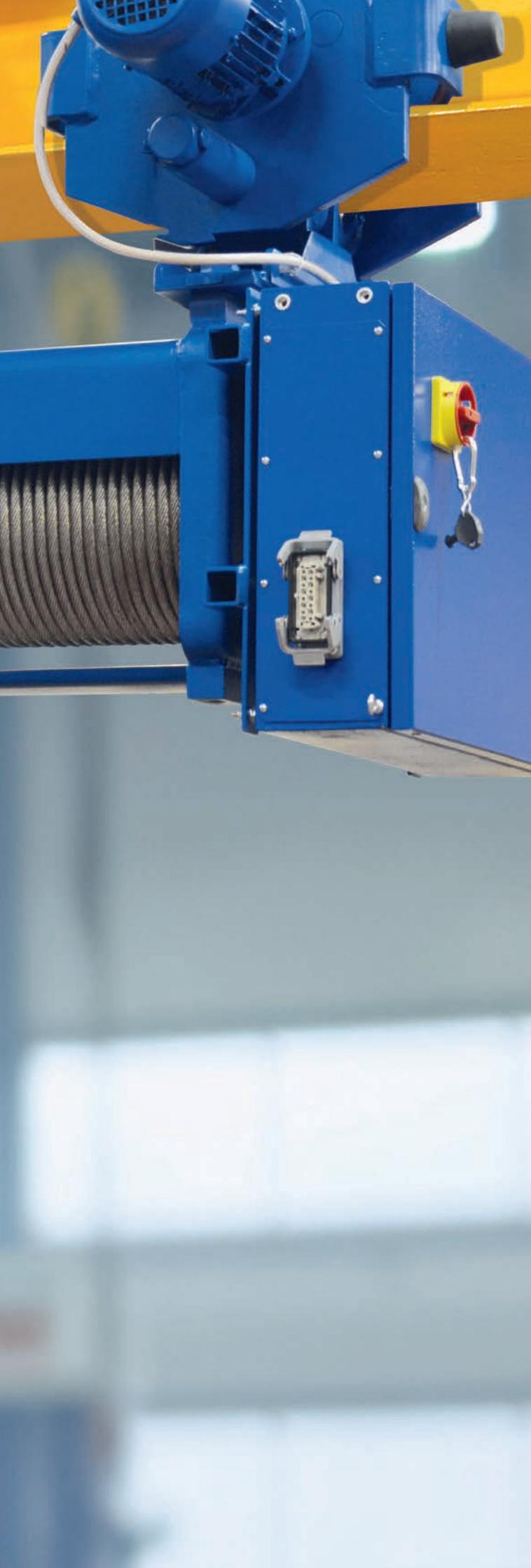


CE

Model	
Capacity	
Stroke	
Speed	
Power	
Weight	
Dimensions	

3,2 t

FEM 2m



-all about handling-

## High lifting height XML SERIES special hoists

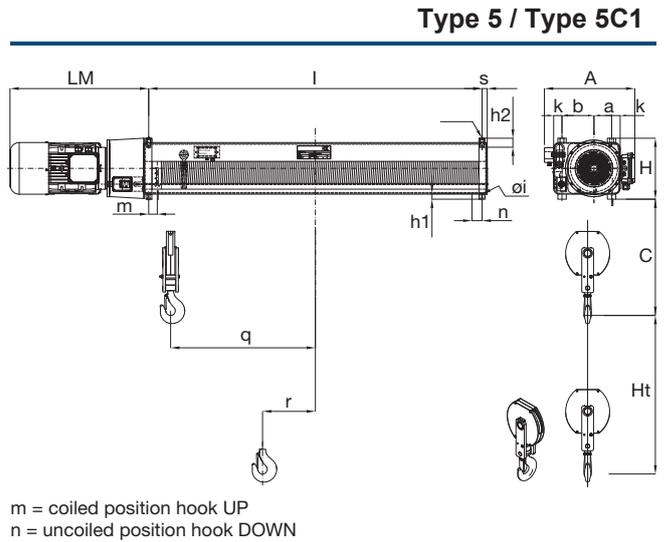
Foot mounted hoists  
Hoists with monorail trolley



**Foot mounted hoist S2**

**SPECIAL HOIST S2 - 2 ROPE FALLS (2/1)**  
**HIGH LIFTING HEIGHT**

**Type 5 SUPPORTED**  
**Type 5C1 SUSPENDED**



**Fixed dimensions**

WLL max	Group	Hoist type	Rope falls	C	H	A	a	b	a+b	s	e	K	øi	øM	h1	h2	m	m
kg	FEM	XML		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
1,600	2m	308	2/1	570	370	450	105	190	295	27	40	50	17	M20	40	54	48	56
2,500	2m	312	2/1	640	370	450	105	190	295	27	40	50	17	M20	40	54	48	56
3,200	2m	316	2/1	640	370	450	105	190	295	27	40	50	17	M20	40	54	48	56
5,000	2m	525	2/1	730	440	510	133	212	345	27	41	50	21	M24	50	75	60	61

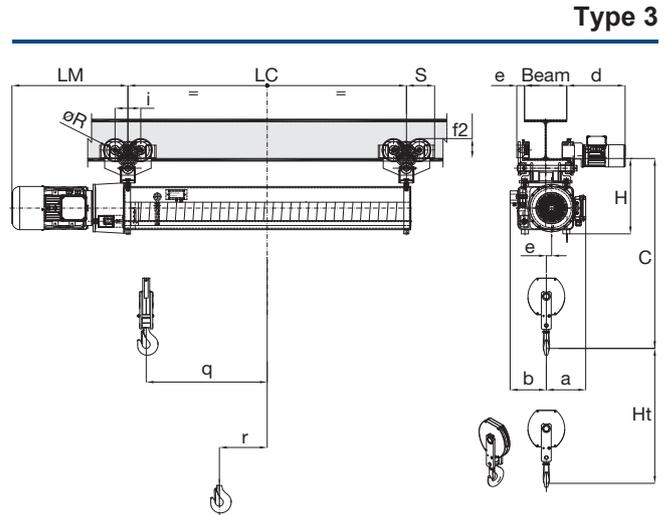
**Variable dimensions**

Hoist	Capacity	Hook travel	l	q	r	Lifting speed - Motor power				LM	Weight
						V		VA			
						m/min	kW	m/min	kW		
308	1,600	46	1175	459	76	14.4	4	14.4/4.8	4/1.3	840	320
		57	1445	594							340
		68	1710	727							360
		79	1980	862							380
312	2,500	32	1175	459	76	14.4	6	14.4/4.8	6/2	840	330
		40	1445	594							350
		48	1710	727							370
		56	1980	862							390
316	3,500	32	1175	459	76	14.4	7	14.4/4.8	7/2.3	840	330
		40	1445	594							350
		48	1710	727							370
		56	1980	862							390
525	5,000	32	1200	445	77	14.4	12	14.4/4.8	12/4	980	410
		40	1470	580							440
		48	1740	715							470
		56	2010	850							500

**Hoist with monorail trolley S2**

**SPECIAL HOIST S2 - 2 ROPE FALLS (2/1) HIGH LIFTING HEIGHT**

**Type 3 STANDARD HEADROOM TROLLEY**



**Fixed dimensions**

WLL max	Group	Hoist type	Rope falls	C	H	a	b	d	e	dR	f2	i	S
kg	FEM	XML		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
1,600	2m	308	2/1	1070	540	240	250	410	40	120	145	183	110
2,500	2m	312	2/1	1140	540	240	250	410	40	120	145	183	110
3,200	2m	316	2/1	1140	540	240	250	410	40	120	145	183	110
5,000	2m	525	2/1	1270	650	280	260	410	41	140	165	207	125

**Variable dimensions**

Hoist	Capacity	Hook travel	Lc	q	r	Lifting speed - Motor power				LM	Weight
						V		VA			
						m/min	kW	m/min	kW		
308	1.6	46	1175	459	76	14.4	4	14.4/4.8	4/1.3	840	460
		57	1445	594							480
		68	1710	727							500
		79	1980	862							520
312	2.5	32	1175	459	76	14.4	6	14.4/4.8	6/2	840	470
		40	1445	594							490
		48	1710	727							510
		56	1980	862							530
316	3.2	32	1175	459	76	14.4	7	14.4/4.8	7/2.3	840	470
		40	1445	594							490
		48	1710	727							510
		56	1980	862							530
525	5	32	1200	445	77	14.4	12	14.4/4.8	12/4	980	620
		40	1470	580							660
		48	1740	715							690
		56	2010	850							720

Trolley speed: 18 - 18/6 m/min

# **munck**

-all about handling-



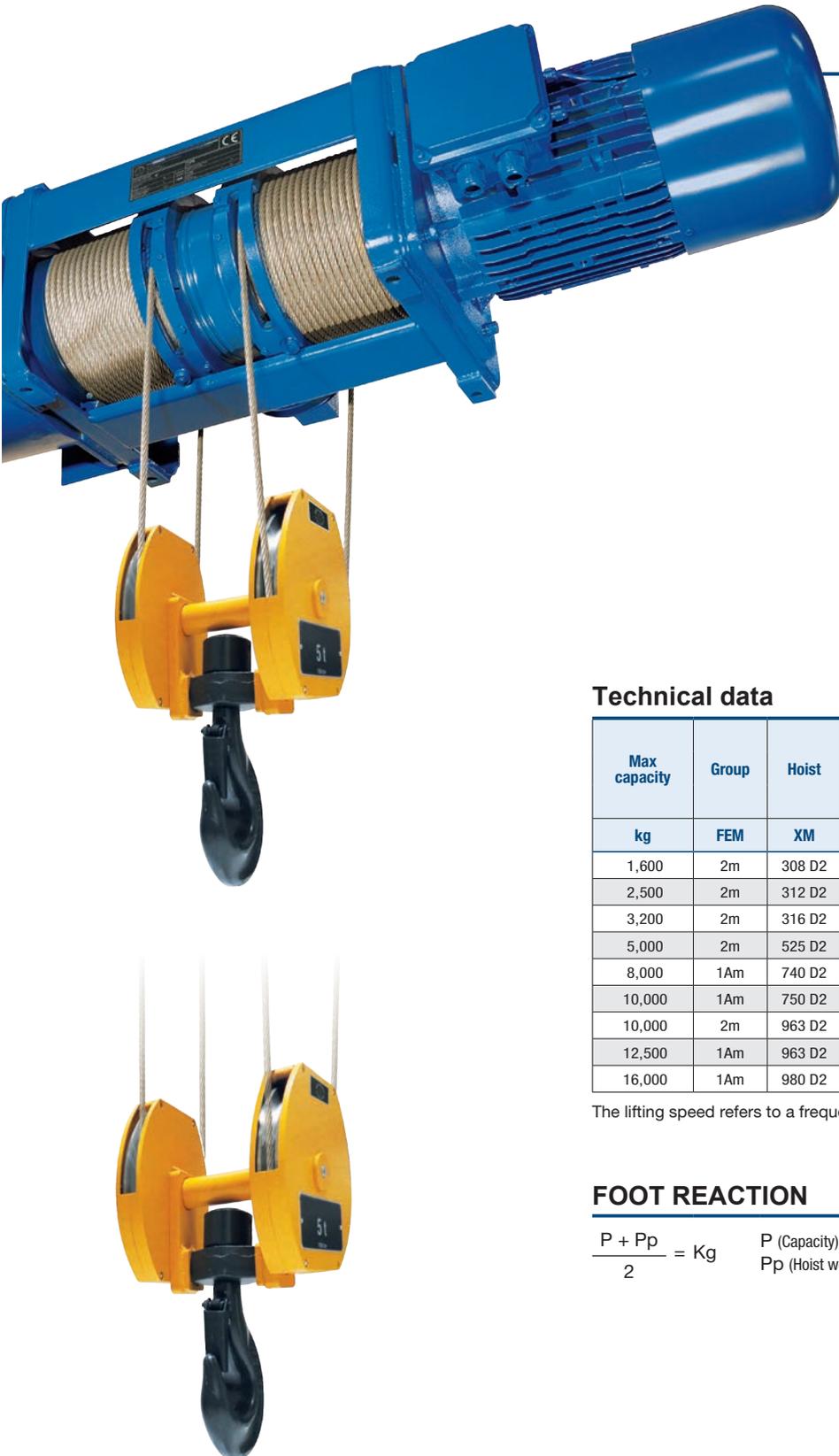
## **True vertical lift 4/2**

**Foot mounted hoist**  
**Hoist with monorail trolley**  
**Hoist with bi-rail trolley**

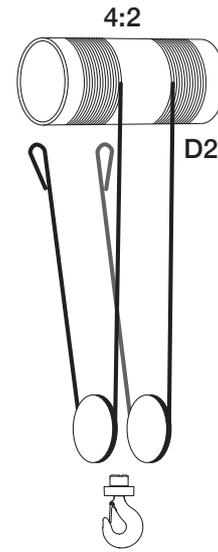


**True vertical lift 4/2**

**HOISTS WITH DOUBLE OUTPUT  
FROM THE DRUM D2 (4/2) TRUE VERTICAL LIFT**



**D2 - 4 ROPE FALLS (4/2) TRUE VERTICAL LIFT**



**Technical data**

Max capacity	Group	Hoist	Rope falls	Hook travel			Lifting speed (m/min)			
							1 speed		2 speed	
									Cylindrical motors	
kg	FEM	XM		m	m	m	N	V	N A	V A
1,600	2m	308 D2	4/2	6	10	13	8	12	8/2.6	12/4
2,500	2m	312 D2	4/2	7.5	12	16	8	12	8/2.6	12/4
3,200	2m	316 D2	4/2	7.5	12	16	8	12	8/2.6	12/4
5,000	2m	525 D2	4/2	6	10	14	8	12	8/2.6	12/4
8,000	1Am	740 D2	4/2	7	11.5	15	8	12	8/2.6	/
10,000	1Am	750 D2	4/2	7	11.5	15	5	8	/	8/2.6
10,000	2m	963 D2	4/2	8	15	25	7.5	/	7.5/2.5	/
12,500	1Am	963 D2	4/2	8	15	25	7.5	/	7.5/2.5	/
16,000	1Am	980 D2	4/2	8	15	25	7.5	/	/	/

The lifting speed refers to a frequency of 50 Hz

**FOOT REACTION**

$$\frac{P + P_p}{2} = \text{Kg}$$

P (Capacity)  
P<sub>p</sub> (Hoist weight)

**Foot mounted hoist**

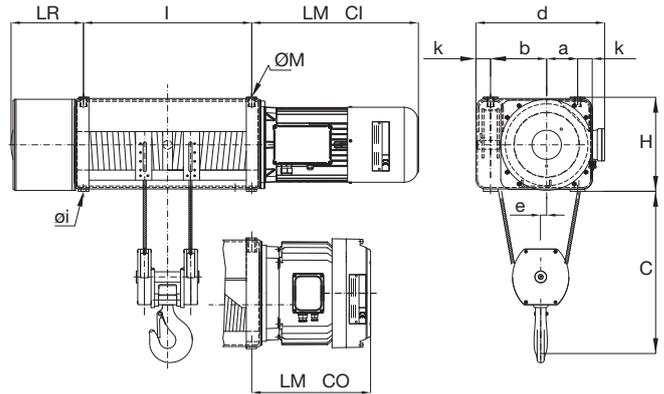
**XM 308 / 312 / 316 / 525**

**HOISTS WITH DOUBLE OUTPUT FROM THE DRUM D2 (4/2) TRUE VERTICAL LIFT**

Type 5 SUPPORTED  
Type 5C1 SUSPENDED



**XM 308 / 312 / 316 / 525**



**Fixed dimensions**

Max capacity	Group	Hoist type	Rope falls	C	H	a	b	a+b	e	K	d	diam i	diam M	h1	h2	m	m
kg	FEM	XM		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
1,600	2m	308	4/2	500	325	105	190	295	40	50	467	17	M20	13	28	48	56
2,500	2m	312	4/2	540	325	105	190	295	40	50	467	17	M20	13	34	48	56
3,200	2m	316	4/2	540	325	105	190	295	40	50	467	17	M20	13	34	48	56
5,000	2m	525	4/2	580	380	133	212	345	41	50	522	21	M24	18	48	60	61

**Variable dimensions**

Capacity	Group	Hoist type	Hook travel	I	LMCI				LMCO				LR	Weight
t-max	FEM	XM	m	mm	mm N	mm V	mm NA	mm VA	mm N	mm V	mm NA	mm VA	mm	Kg
1,600	2m	308	6	520	460	460	490	490	315	375	385	420	200	210
			10	700										220
			13	885										240
2,500	2m	312	7	570	460	460	490	565	375	420	420	420	200	290
			12	775										315
			16	975										335
3,200	2m	316	7	570	460	565	500	565	375	----	420	----	200	310
			12	775										330
			16	975										350
5,000	2m	525	6	590	600	650	600	650	415	465	460	505	200	470
			10	795										505
			13	995										535

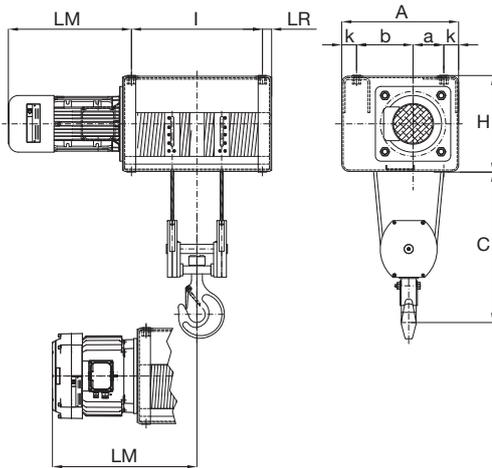
**Foot mounted hoist**

**XM 740 / 750 / 963 / 980**

**HOISTS WITH DOUBLE OUTPUT  
FROM THE DRUM D2 (4/2) TRUE VERTICAL LIFT**

**Type 5 SUPPORTED**  
**Type 5C1 SUSPENDED**

**XM 740 / 750 / 963 / 980**



**Fixed dimensions**

Max capacity	Group	Hoist type	Rope falls	C	H	a	b	a+b	e	K	d	diam i	diam M	h1	h2	m	m
kg	FEM	XM		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
8,000	2m	740	4/2	720	530	168	307	475	30	81	771	25	M27	18	47	65	85
10,000	2m	750	4/2	720	530	168	307	475	30	81	771	25	M27	18	47	65	85
10,000	3m	963	4/2	760	625	200	340	540	20	92	860	39	M36	24	66	55	90
12,500	2m	963	4/2	760	625	200	340	540	20	92	860	39	M36	24	66	55	90
16,000	2m	980	4/2	800	625	200	340	540	20	92	860	39	M36	24	66	55	90

**Variable dimensions**

Capacity	Group	Hoist type	Hook travel	I	LMCI				LMCO				LR	Weight
t-max	FEM	XM	m	mm	mm N	mm V	mm NA	mm VA	mm N	mm V	mm NA	mm VA	mm	Kg
8	2m	740	8	713	670		670		480		520		45	810
			12	928										900
			16	1143										940
10	2m	750	8	713	670		670		480		520		45	870
			12	928										950
			16	1143										1020
10	3m	963	8	840	890		890		495		535		60	1286
			16	1255										1480
			25	1755										1720
12.5	2m	963	8	840	890		890		495		535		60	1286
			16	1255										1480
			25	1755										1720
16	1Am	980	8	840	890		890		495		535		60	1450
			16	1255										1660
			25	1755										1910

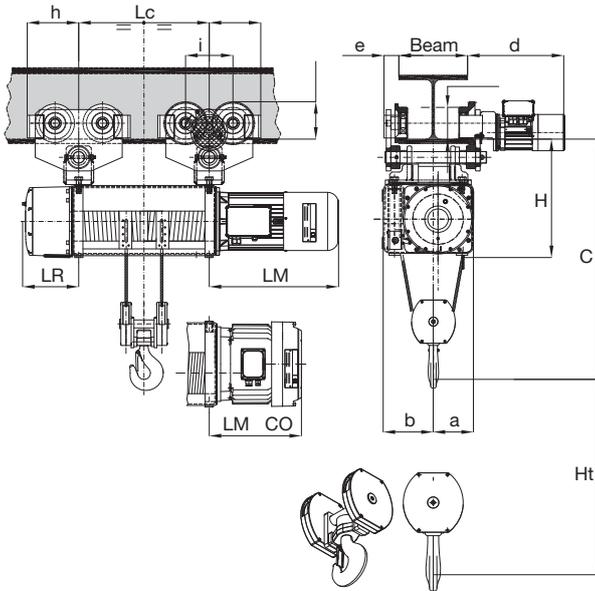
## Hoist with monorail trolley

**XM 308 / 312 / 316 / 525**

**HOISTS WITH DOUBLE OUTPUT  
FROM THE DRUM D2 (4/2) TRUE VERTICAL LIFT**

**Type 3 NORMAL HEADROOM**

### XM 308 / 312 / 316 / 525



### Fixed dimensions

Max capacity	Group	Hoist type	Rope falls	C	H	a	b	e	dR	f2	i	h	Min flange width
kg	FEM	XM		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
1,600	2m	308	4/2	985	500	260	240	60	120	145	183	110	120
2,500	2m	312	4/2	1140	500	260	240	60	120	145	183	110	120
3,200	2m	316	4/2	1140	510	260	240	60	120	145	183	110	120
5,000	2m	525	4/2	1290	510	260	240	60	120	145	183	110	120

### Variable dimensions

Capacity	Group	Hoist type	Hook travel	Lc	LMCI				LMCO				LR	Weight
t-max	FEM	XM	m	mm	mm N	mm V	mm NA	mm VA	mm N	mm V	mm NA	mm VA	mm	Kg
1,600	2m	308	7	520	460	460	490	490	315	375	385	420	200	335
			10	700										350
			13	885										365
2,500	2m	312	7	570	460	460	490	565	375	420	420	420	200	420
			10	775										440
			13	975										460
3,200	2m	316	7	570	460	565	500	565	375	----	420	----	200	505
			10	775										530
			13	975										560
5,000	2m	525	7	590	600	650	600	650	415	465	460	505	200	685
			10	795										715
			13	995										750

Trolley speed: 18 - 18/6 m/min

### SINGLE WHEEL REACTION

$$\frac{P + P_p}{2 \cdot 4} = K_g$$

P (Capacity)  
P<sub>p</sub> (Hoist weight)

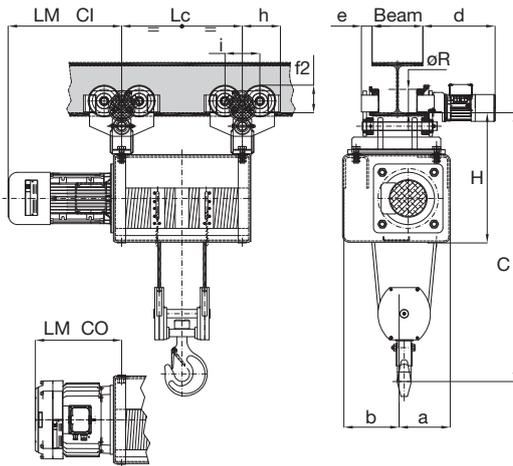
## Hoist with monorail trolley

**XM 740 / 750 / 963 / 980**

**HOISTS WITH DOUBLE OUTPUT  
FROM THE DRUM D2 (4/2) TRUE VERTICAL LIFT**

**Type 3 NORMAL HEADROOM**

### XM 740 / 750 / 963 / 980



### Fixed dimensions

Max capacity	Group	Hoist type	Rope falls	C	H	a	b	e	dR	f2	i	h	Min flange width
kg	FEM	XM		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
8,000	2m	740	4/2	1700	785	415	360	70	140	145	183	110	120
10,000	2m	750	4/2	1700	785	415	360	70	140	165	207	125	120
10,000	3m	963	4/2	2100	1020	470	405	70	140	165	207	125	120
12,500	2m	963	4/2	2100	1020	470	405	70	140	165	207	125	120
16,000	2m	980	4/2	2200	1020	470	405	70	160	235	310	200	150

### Variable dimensions

Capacity	Group	Hoist type	Hook travel	Lc	LMCI				LMCO				LR	Weight
t-max	FEM	XM	m	mm	mm N	mm V	mm NA	mm VA	mm N	mm V	mm NA	mm VA	mm	Kg
8	2m	740	8	713	670	---	670	---	480	---	520	---	45	1300
			12	928										1400
			16	1143										1450
10	2m	750	8	713	670	---	670	---	480	---	520	---	45	1300
			12	928										1400
			16	1143										1450
10	3m	963	8	840	890	---	890	---	495	---	535	---	60	2000
			16	1255										2150
			25	1755										2390
12.5	2m	963	8	840	890	---	890	---	495	---	535	---	60	2000
			16	1255										2150
			25	1755										2390
16	1Am	980	8	840	890	---	890	---	495	---	535	---	60	2120
			16	1255										2340
			25	1755										2580

Trolley speed: 18 - 18/6 m/min

### SINGLE WHEEL REACTION

$$\frac{P + P_p}{2 \cdot 4} = K_g$$

P (Capacity)  
P<sub>p</sub> (Hoist weight)

## Hoist with bi-rail trolley

**XM 308 / 312 / 316 / 525**

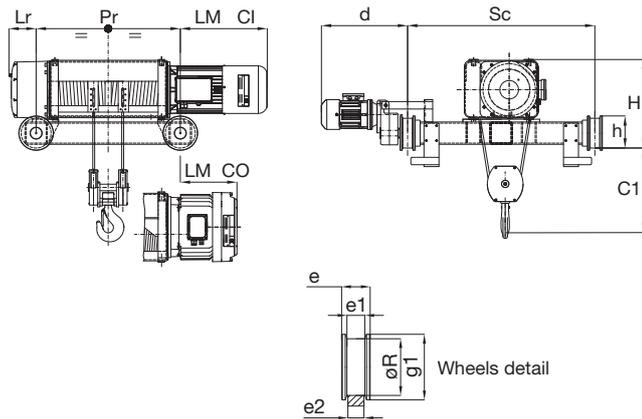
**HOISTS WITH DOUBLE OUTPUT  
FROM THE DRUM D2 (4/2) TRUE VERTICAL LIFT**

**Type 53 BI-RAIL TROLLEY HOIST SUPPORTED**

**Type 53C1 BI-RAIL TROLLEY HOIST SUSPENDED**

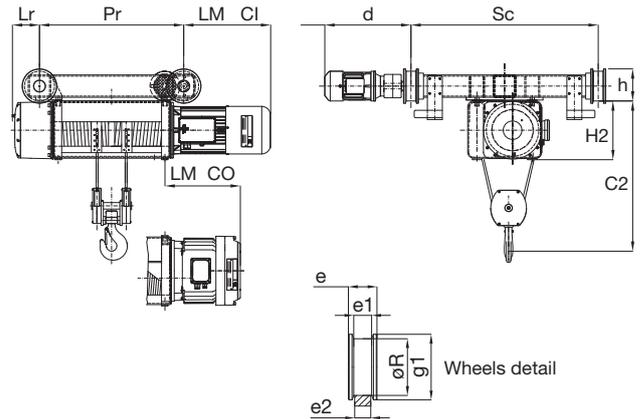
**XM 308 / 312 / 316 / 525**

**Type 53**



**XM 308/312 / 316 / 525**

**Type 53C1**



### Fixed dimensions

Max capacity	Group	Hoist type	Rope falls	C1	C2	SC	H	H2	d	h	dR	e	e1	e2	g1
kg	FEM	XM		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
1,600	2m	308	4/2	520	840	1000	490	320	460	175	160	80	50	40	185
2,500	2m	312	4/2	580	965	1000	490	320	460	175	160	80	50	40	185
3,200	2m	316	4/2	580	965	1000	490	320	460	175	160	80	50	40	185
5,000	2m	525	4/2	750	960	1000	550	390	520	175	160	80	50	40	185

### Variable dimensions

Capacity	Group	Hoist type	Hook travel	Pr	LMCI				LMCO				LR	Weight
t-max	FEM	XM	m	mm	mm N	mm V	mm NA	mm VA	mm N	mm V	mm NA	mm VA	mm	Kg
1,600	2m	308	7	720	460	460	490	490	315	375	385	420	200	440
			10	900										450
			13	1085										480
2,500	2m	312	7	770	460	460	490	565	375	420	420	420	200	520
			10	975										550
			13	1175										580
3,200	2m	316	7	770	460	565	500	565	375	----	420	----	200	520
			10	975										550
			13	1175										580
5,000	2m	525	7	790	600	650	600	650	415	465	460	505	200	700
			10	995										740
			13	1195										780

Trolley speed: 20 - 16 - 20/6.5 - 16/5.3 m/min

### SINGLE WHEEL REACTION

$$\frac{P + Pp}{4} = Kg$$

P (Capacity)  
Pp (Hoist weight)

**Hoist with bi-rail trolley**

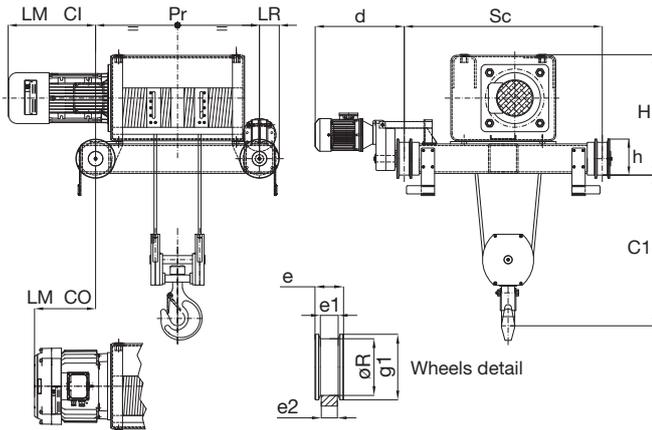
**XM 740 / 750 / 963 / 980**

**HOISTS WITH DOUBLE OUTPUT  
FROM THE DRUM TRUE VERTICAL LIFT**

Type 53 BI-RAIL TROLLEY HOIST SUPPORTED  
Type 53C1 BI-RAIL TROLLEY HOIST SUSPENDED

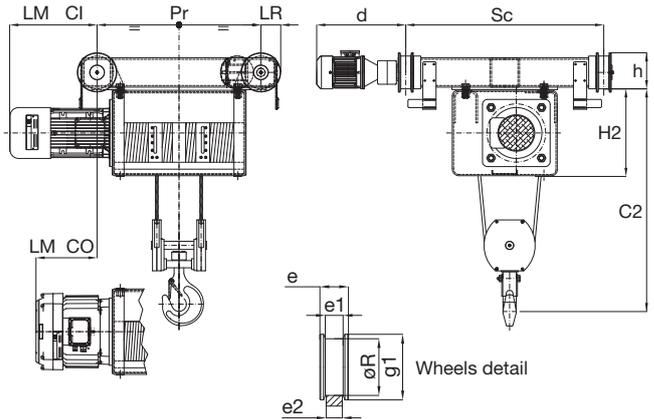
**XM 740 / 750 / 963/980**

**Type 53**



**XM 740 / 750 963 / 980**

**Type 53C1**



**Fixed dimensions**

Max capacity	Group	Hoist type	Rope falls	C1	C2	SC	H	H2	d	h	dR	e	e1	e2	g1
kg	FEM	XM		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
8,000	2m	740	4/2	830	1360	1200	740	535	540	220	200	90	60	50	240
10,000	2m	750	4/2	830	1360	1200	740	535	540	220	200	90	60	50	240
10,000	2m	963	4/2	1150	1410	1450	880	615	630	270	250	90	60	50	290
12,500	2m	963	4/2	1150	1410	1450	880	615	630	270	250	90	60	50	290
16,000	2m	980	4/2	1200	1700	1450	880	615	630	270	250	90	60	50	290

**Variable dimensions**

Capacity	Group	Hoist type	Hook travel	Pr	LMCI				LMCO				LR	Weight
t-max	FEM	XM	m	mm	mm N	mm V	mm NA	mm VA	mm N	mm V	mm NA	mm VA	mm	Kg
8	2m	740	8	993	530	----	530	----	340	----	380	----	45	1210
			12	1208										1270
			16	1423										1330
10	2m	750	8	993	530	----	530	----	340	----	380	----	45	1415
			12	1208										1465
			16	1423										1530
10	2m	963	8	1160	600	----	600	----	335	----	335	----	60	1855
			16	1575										2000
			26	2075										2250
12.5	2m	963	8	1160	600	----	600	----	335	----	335	----	60	1855
			16	1575										2000
			26	2075										2250
16	2m	980	8	1160	620	----	620	----	325	----	355	----	60	2185
			16	1575										2335
			26	2075										2595

Trolley speed: 20 - 16 - 20/6,5 - 16/5,3 m/min

**SINGLE WHEEL REACTION**

$$\frac{P + Pp}{4} = Kg$$

P (Capacity)  
Pp (Hoist weight)

## Hoist with monorail trolley

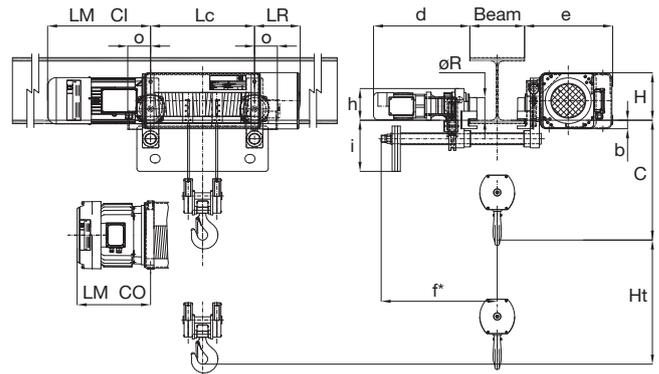
### XM 308 / 312 / 316 / 525

**HOISTS WITH DOUBLE OUTPUT  
FROM THE DRUM D2 (4/2) TRUE VERTICAL LIFT**

**Type 83 MONORAIL TROLLEY LOW HEADROOM**



### XM 308 / 312 / 316 / 525



### Fixed dimensions

Max capacity	Group	Hoist type	Rope falls	C	H	e	d	h	i	dR	f*	o	Min flange width	Max beam flange x C quote
kg	FEM	XM		mm	mm									
1,600	2m	308	4/2	680	245	470	430	140	290	125	620	100	110	300
2,500	2m	312	4/2	620	245	470	475	140	290	125	620	100	110	300
3,200	2m	316	4/2	640	245	485	530	175	290	125	650	125	110	300
5,000	2m	525	4/2	700	270	525	535	175	320	125	750	125	110	300

Note: 1) For beam sizes wider than those shown, the "C" dimension (hook to girder min. size) increases of 12 mm every 10 mm of wider beam size.

\* The dimension "f" shown is valid for beam size 300 mm; with different beam size it increases or decreases of half of the difference of the beam size.

### Variable dimensions

Capacity	Group	Hoist type	Hook travel	I	LMCI				LMCO				LR	Weight
t-max	FEM	XM	m	mm	mm N	mm V	mm NA	mm VA	mm N	mm V	mm NA	mm VA	mm	Kg
1,600	2m	308	7	520	460	460	490	490	315	375	385	420	200	430
			10	700										470
			13	885										510
2,500	2m	312	7	570	460	460	490	565	375	420	420	420	200	520
			10	775										570
			13	975										620
3,200	2m	316	7	570	460	565	500	565	375	----	420	----	200	535
			10	775										590
			13	975										535
5,000	2m	525	7	590	600	650	600	650	415	465	460	505	200	785
			10	795										850
			13	995										950

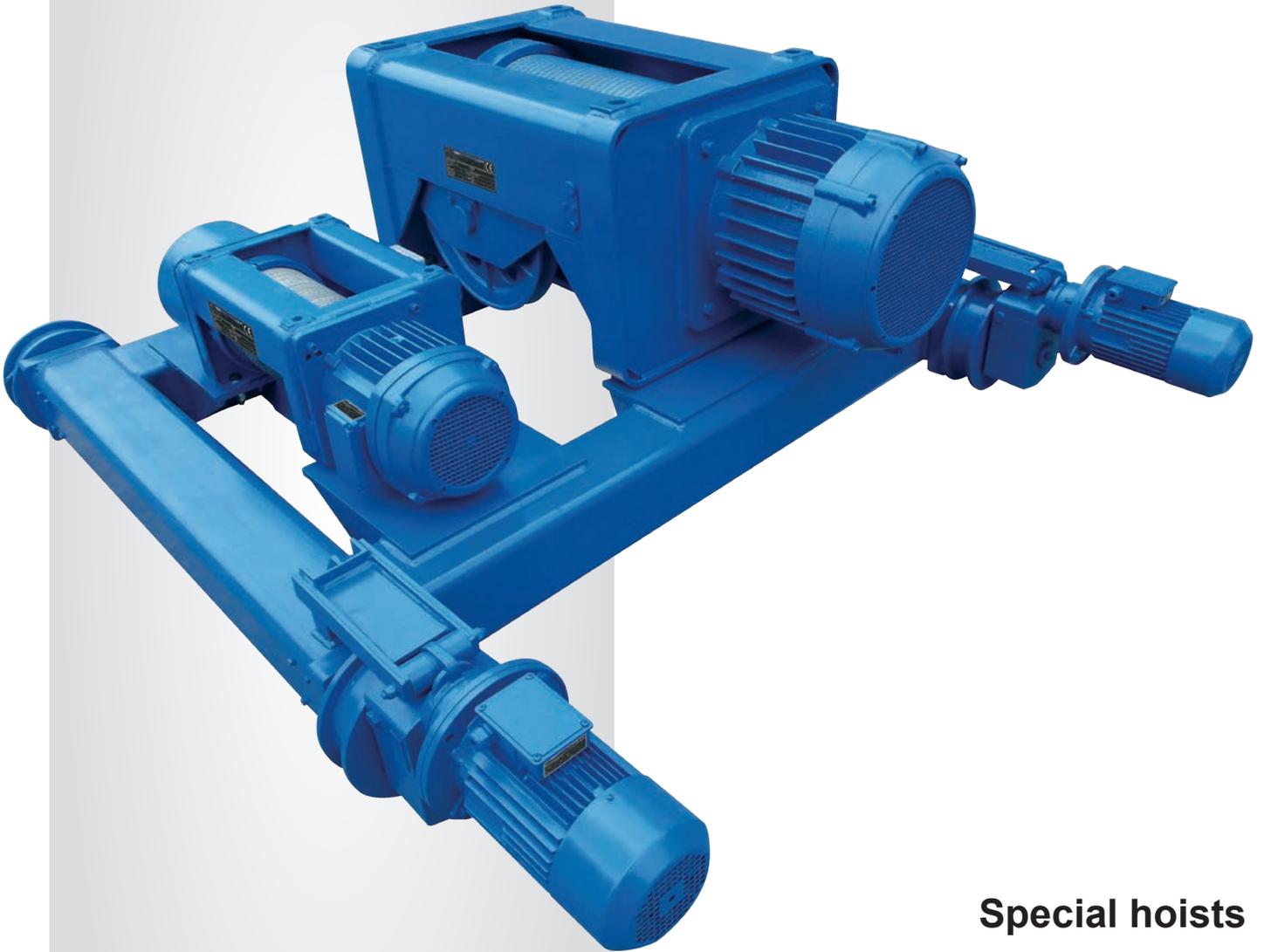
### SINGLE WHEEL REACTION

$$\frac{P + Pp}{4} = \text{Kg}$$

P (Capacity)  
Pp (Hoist weight)

# **munck**

-all about handling-



## **Special hoists**

**Hoists with double outlet from the drum**

**6/1 special hoists**

**8/1 special hoists**

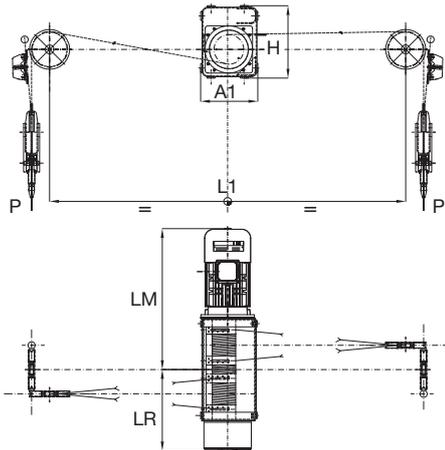


# Hoists with double outlet from the drum

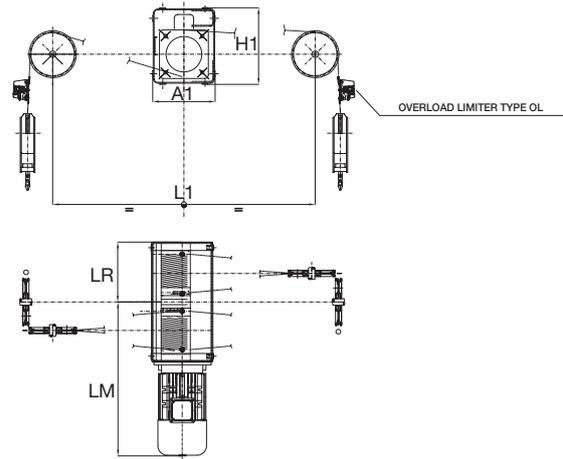
## TYPE DC2 OPPOSITE DOUBLE ROPE OUTPUT WITH 4/2-2 ROPE FALLS

Hoists with double outlet from the drum

### XM 308 / 312 / 316 / 525



### XM 740 / 750 / 963 / 980



## TECHNICAL DATA

Max capacity	Group	Hoist	Rope falls	Hook travel			Lifting speed (m/min)			
							1 speed		2 speed	
							N m/min	V m/min	NA m/min	VA m/min
kg	FEM	XM		m	m	m	N m/min	V m/min	NA m/min	VA m/min
800+800	2m	308 DC2	2 + 2/2	6	10	13	10	14.4	10/3.1	14.4/4.8
1,250+1,250	2m	312 DC2	2 + 2/2	7.5	12	16	10	14.4	10/3.1	14.4/4.8
1,600+1,600	2m	316 DC2	2 + 2/2	7.5	12	16	10	14.4	10/3.1	14.4/4.8
2,500+2,500	2m	525 DC2	2 + 2/2	6	10	14	10	14.4	10/3.1	14.4/4.8
4,000+4,000	1Am	740 DC2	2 + 2/2	7	11.5	16	10	14.4	10/3.1	/
5,000+5,000	1Am	750 DC2	2 + 2/2	7	11.5	16	6.2	10	/	9.6/3.1
5,000+5,000	2m	963 DC2	2 + 2/2	11	21	32.5	9.3	/	9/3	/
6,300+6,300	1Am	963 DC2	2 + 2/2	11	21	32.5	9.3	/	9/3	/
8,000+8,000	1Am	980 DC2	2 + 2/2	8.5	16.5	26	9.3	/	/	/

The lifting speed refer to a frequency of 50 Hz

## DC2 (2/2+2) 2+2 ROPE FALLS

Hoist	XM	308	312	316	525	740	750	963	980																	
Type		DC2 (2/2+2)																								
Capacity (P)	t	800+800		1,250+1,250		1,600+1,600		2,500+2,005		4,000+4,000		5,000+5,000		6,300+6,300		800+800										
Hook travel	m	6	10	13	7,5	12	16	7,5	12	16	6	10	14	7	11,5	16	7	11,5	16	11	21	32	8,5	16,5	26	
H1	mm	400		400		400		450		640		640		730		730										
A1	mm	310		310		310		360		545		545		600		600										
min. L1	mm	2390	3680	4990	2520	3980	5405	2520	3980	5405	2460	3920	5350	2660	4200	5740	2660	4200	5740	3430	6400	9980	3330	6290	9870	
LR	mm	460	550	645	535	640	740	535	640	740	565	670	770	405	510	620	405	510	620	480	690	940	480	690	940	
Cylindrical motor	Lifting speed	N - N A		N - N A		N - N A		N - N A		N - N A		N - N A		N - N A		N - N A										
	LM	mm	790	880	975	815	920	1020	895	940	1040	905	1010	1110	1030	1135	1245	1030	1135	1245	1100	1210	1560	1180	1390	1640
	Lifting speed	V - V A		V - V A		V - V A		V - V A		V - V A		/		/		/		/		/		/		/		/
LM	mm	790	880	975	895	1000	1100	895	1000	1100	965	1070	1170	/	/	/	/	/	/	/	/	/	/	/	/	/
Weight	kg	150	170	190	220	240	260	220	240	260	330	370	410	620	670	720	620	670	720	980	1130	1300	980	1130	1300	

N - V - N A - V A = lifting speeds (see table above)

**6/1 special hoists**

**SPECIAL HOIST WITH SINGLE OUTPUT FROM THE DRUM 6/1**

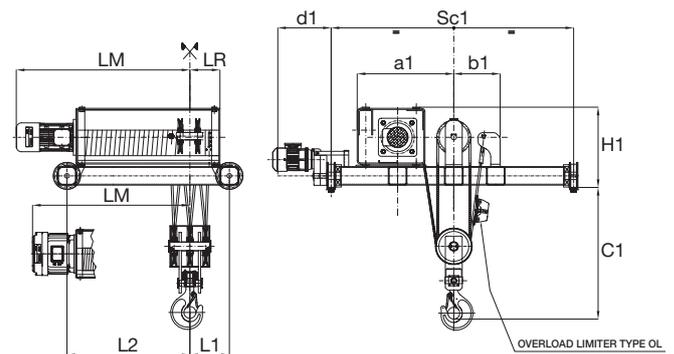
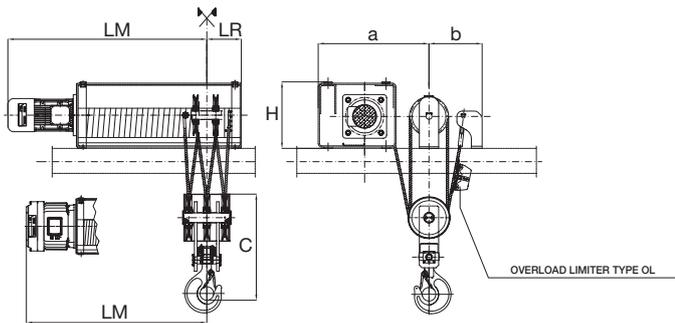
**SR6**      6 ROPE FALLS (6/1)  
**Type 5**    SUPPORTED HOIST  
**Type 53**   HOIST TROLLEY BI-RAIL

**SR6**

**Type 5**

**SR6**

**Type 53**



**SR6 - 6 ROPE FALLS (6/1)**

<b>Hoist</b>	XM	740			750			963			963			980			
<b>Capacity</b>	kg	24,000			30,000			30,000			37,500			48,000			
<b>Group</b>	FEM	1Am			1Am			2m			1Am			1Am			
<b>Hook travel</b>	m	6.5	11	15	6.5	11	15	6.5	10.5	16	6.5	10.5	16	6.5	10.5	16	
<b>Cylindrical motor</b>	<b>Lifting speed</b>	m/min 3.2			3.2			3			3.6			3.2			
	<b>Motor power</b>	kW 12			15			15			24			24			
	<b>Lifting speed</b>	m/min 3.2/1.1			3.2/1.1			3/1			3/1			-			
	<b>Motor power</b>	kW 12/4			15/5			16/5.3			22/7.3			-			
<b>Fig 5</b>	<b>H</b>	mm 530			530			625			625			625			
	<b>C</b>	mm 900			1000			1100			1100			1240			
	<b>a</b>	mm 840			840			990			990			990			
	<b>b</b>	mm 380			380			480			480			480			
	<b>LR</b>	mm 250			257			277			288			189			
<b>Cylindrical motor</b>	<b>LM</b>	mm	1175	1605	1995	1165	1595	1985	1305	1720	2220	1370	1790	2290	/	/	/
<b>Weight</b>	≈	kg	900	1000	1080	980	1080	1160	1480	1630	1810	1480	1630	1810	1610	1760	1940
<b>Fig 53</b>	<b>Sc1</b>	mm 2000			2000			2500			2500			2500			
	<b>H1</b>	mm 790			790			900			900			940			
	<b>C1</b>	mm 1100			1200			1300			1300			1450			
	<b>d1</b>	mm 570			570			570			570			570			
	<b>a</b>	mm 840			840			990			990			990			
	<b>b</b>	mm 380			380			480			480			480			
	<b>L1</b>	mm 420			430			460			520			450			
	<b>L2</b>	mm	670	1100	1500	680	1110	1510	800	1210	1710	850	1260	1760	950	1360	1860
<b>LR</b>	mm 250			257			277			288			189				
<b>Cylindrical motor</b>	<b>LM</b>	mm	1175	1605	1995	1165	1595	1985	1305	1720	2220	1370	1790	2290	/	/	/
<b>Weight</b>	≈	kg	1750	1900	2030	2030	2230	2410	2470	2720	3000	3170	3420	3700	3690	3940	4220

Trolley speed: 16 - 16/5.3 m/min

**8/1 special hoists**

**SPECIAL HOIST WITH SINGLE OUTPUT FROM THE DRUM 8/1**

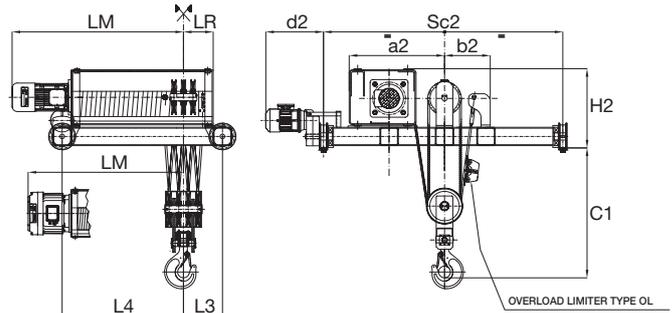
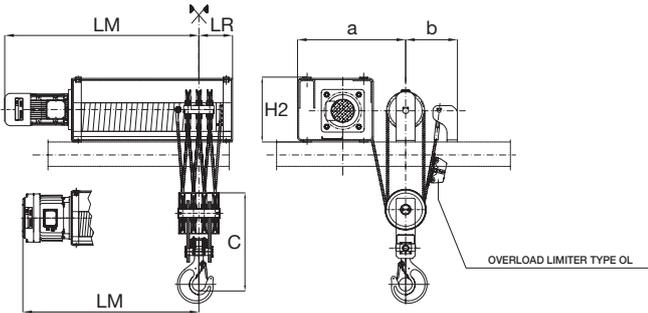
**SR8** 8 ROPE FALLS (8/1)  
**Type 5** SUPPORTED HOIST  
**Type 53** HOIST TROLLEY BI-RAIL

**SR8**

**Type 5**

**SR8**

**Type 53**



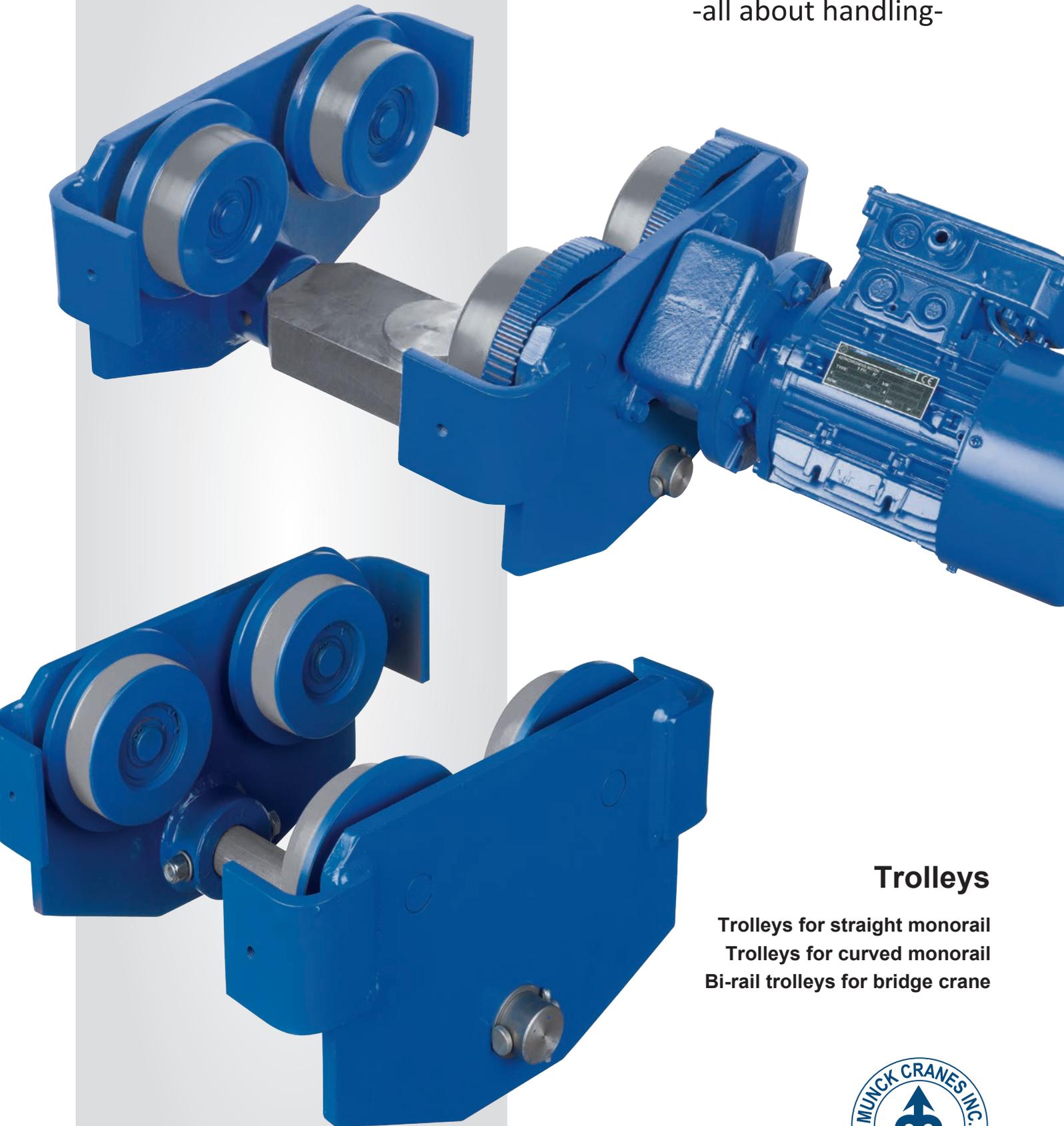
**SR8 - 8 ROPE FALLS (8/1)**

<b>Hoist</b>	XM	740			750				963			963			980		
<b>Capacity</b>	kg	32,000			40,000				40,000			50,000			64,000		
<b>Group</b>	FEM	1Am			1Am				2m			1Am			1Am		
<b>Corsa gancio/Hook travel</b>	m	4.5	8	11	4.5	8	11	5	8	12	5	8	12	5	8	12	
<b>Cylindrical motor</b>	<b>Lifting speed</b>	m/min	2.4			2.4			3.6			3			2.4		
	<b>Motor power</b>	kW	12			15			24			24			24		
	<b>Lifting speed</b>	m/min	2.4/0.8			2.4/0.8			2.4/0.8			2.4/0.8			-		
	<b>Motor power</b>	kW	12/4			15/5			16/5.3			22/7.3			-		
<b>Fig 5</b>	<b>H</b>	mm	530			530			625			625			625		
	<b>C</b>	mm	950			1080			1160			1160			1200		
	<b>a</b>	mm	840			840			990			990			990		
	<b>b</b>	mm	380			380			480			480			480		
	<b>LR</b>	mm	250			257			277			288			295		
<b>Cylindrical motor</b>	<b>LM</b>	mm	1175	1605	1995	1165	1595	1985	1305	1720	2220	1370	1790	2290	/	/	/
<b>Weight</b>	≈	kg	990	1090	1170	1110	1210	1190	1600	1750	1930	1600	1750	1930	1740	1890	2070
<b>Fig 53</b>	<b>Sc2</b>	mm	2000			2000			2500			2500			2500		
	<b>H2</b>	mm	790			790			900			940			960		
	<b>C1</b>	mm	1150			1250			1350			1350			1500		
	<b>d2</b>	mm	570			570			570			570			570		
	<b>a2</b>	mm	840			840			990			990			990		
	<b>b2</b>	mm	380			380			480			480			480		
	<b>L3</b>	mm	430			490			520			520			600		
	<b>L4</b>	mm	680	1110	1510	730	1160	1560	860	1270	1770	850	1260	1760	900	1310	1810
<b>LR</b>	mm	250			257			277			288			295			
<b>Cylindrical motor</b>	<b>LM</b>	mm	1175	1605	1995	1165	1595	1985	1305	1720	2220	1370	1790	2290	/	/	/
<b>Weight</b>	≈	kg	2030	2230	2410	2840	3040	3220	3290	3540	3820	3290	3540	3820	3760	4010	4290

Trolley speed: 19 - 19/6.4 m/min

# **munck**

-all about handling-



## **Trolleys**

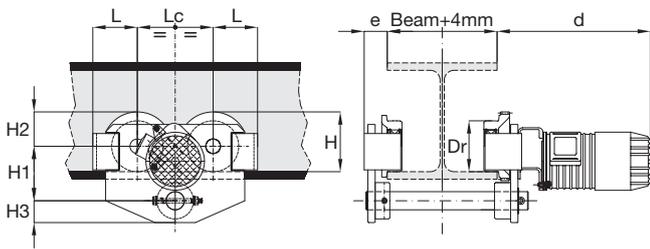
**Trolleys for straight monorail**  
**Trolleys for curved monorail**  
**Bi-rail trolleys for bridge crane**



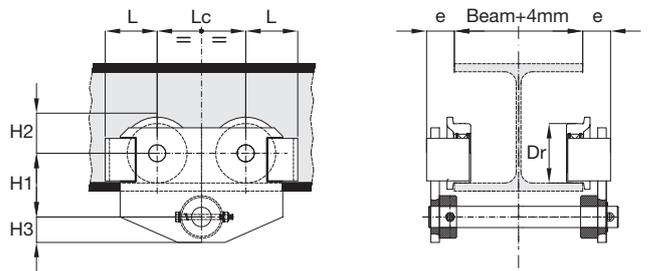
# Monorail trolleys

## TROLLEYS FOR STRAIGHT MONORAIL Type 3

### -A- DRIVING TROLLEY

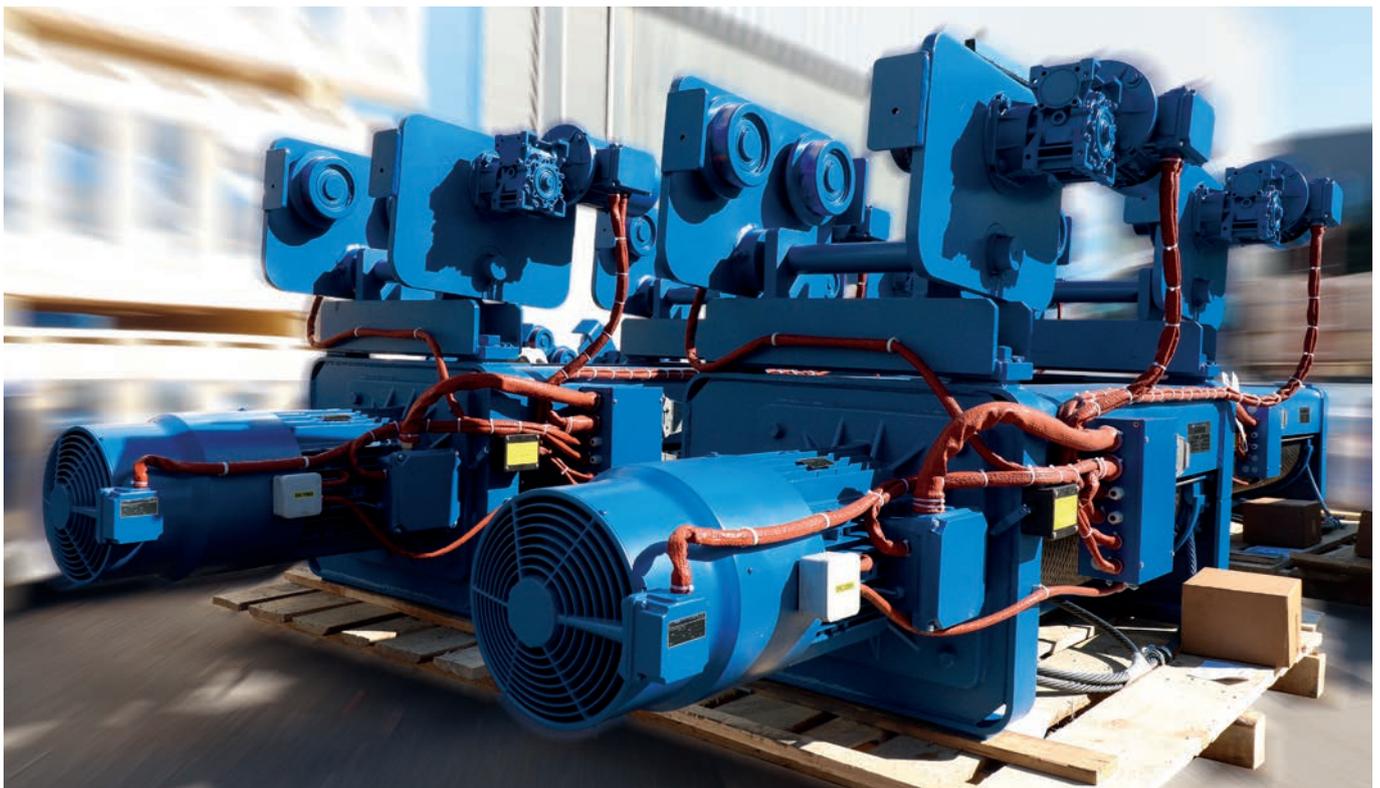


### -B- IDLE TROLLEY



Max capacity	Dimensions									Speed	Power	Weight	
	kg	DR mm	d mm	e mm	Lc mm	L mm	H mm	H1 mm	H2 mm			H3 mm	A kg
4,500	120	450	60	183	110	142	130	60	50	21.6/7.2	0.37/0.12	65	45
10,000	140	450	70	207	125	165	150	60	60	21.6/7.2	0.55/0.18	95	70
13,250	140	310*	100	207	125	165	150	60	60	21.6/7.2	0.75/0.25	98	73
16,000	160	300*	70	310	150	275	200	210	75	21.6/7.2	1.1/0.37	250	200
25,000	210	310*	140	310	150	275	245	235	100	19/6.4	1.5/0.55	300	240

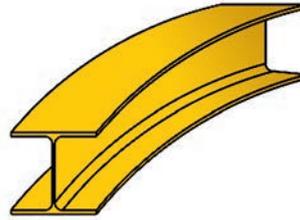
\* With orthogonal motor reducer



# Monorail trolleys

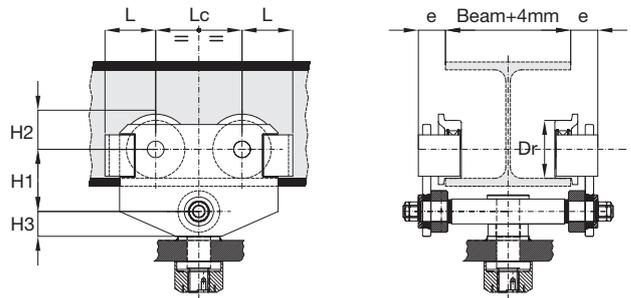
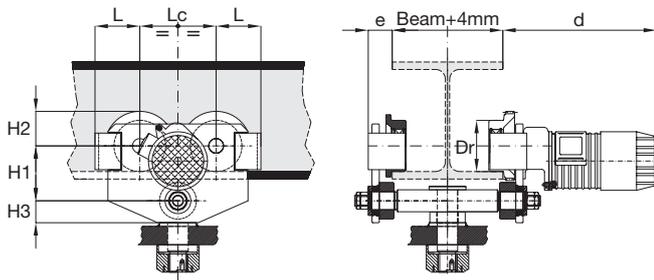
## TROLLEYS FOR CURVED MONORAIL Type 43

Articulated standard headroom monorail hoist units:  
Lifting capacity up to 4 t (minimum radius 1500 mm).  
Lifting capacity up to 10 t (minimum radius 2500 mm).



**-A- DRIVING TROLLEY**

**-B- IDLE TROLLEY**



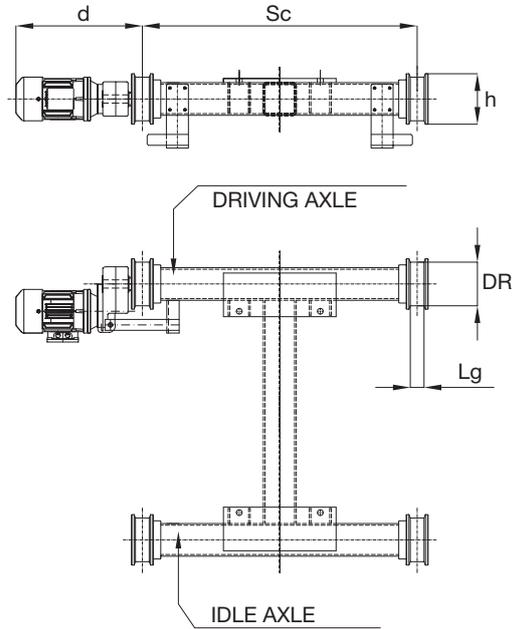
Max capacity	Min radius	Dimensions									Speed	Power	Weight	
		DR mm	d mm	e mm	Lc mm	L mm	H mm	H1 mm	H2 mm	H3 mm			m/min	kW
4,500	1.5	120	450	110	183	110	142	130	60	50	21.6/7.2	0.37/0.12	80	60
10,000	2.0	140	450	120	207	125	142	150	60	60	21.6/7.2	0.55/0.18	120	95
13,250	2.0	140	250*	140	207	125	165	150	60	60	21.6/7.2	0.75/0.25	130	105
16,000	3.5	160	300*	70	310	150	275	200	210	75	21.6/7.2	1.1/0.37	250	200
25,000	3.5	210	310*	140	310	150	275	245	210	100	19/6.4	1.5/0.55	360	300

\* With orthogonal motoreducer

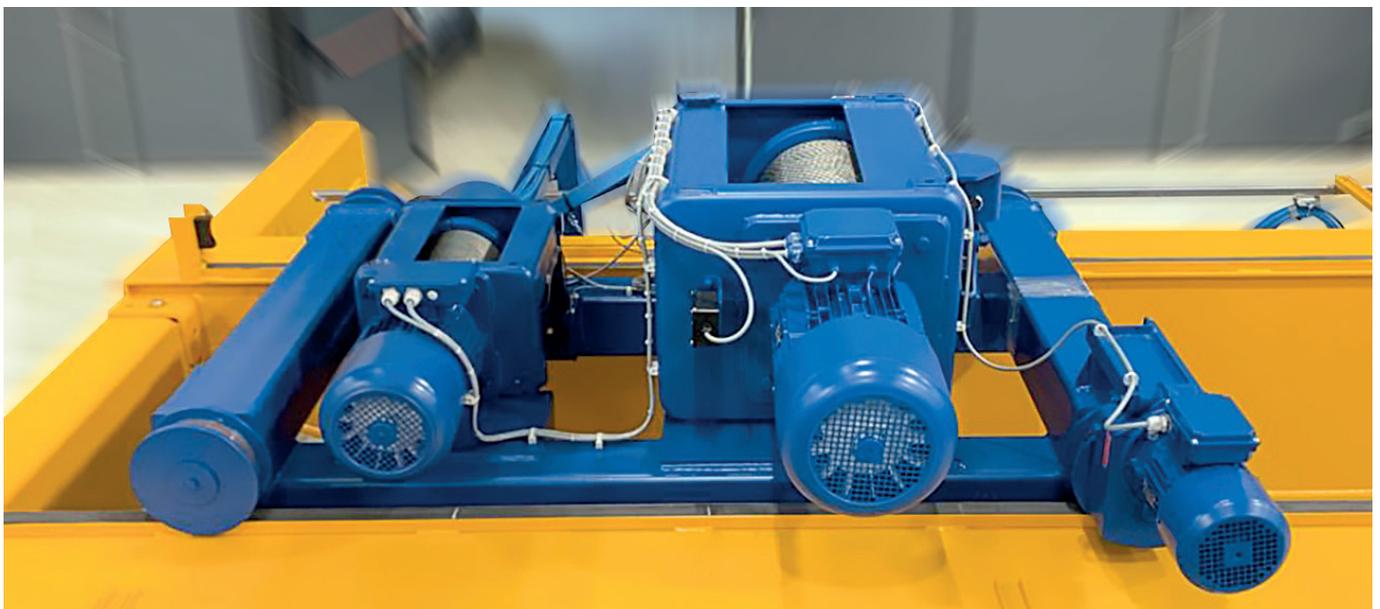


# Bi-rail trolleys

## BI-RAIL TROLLEYS FOR BRIDGE CRANE

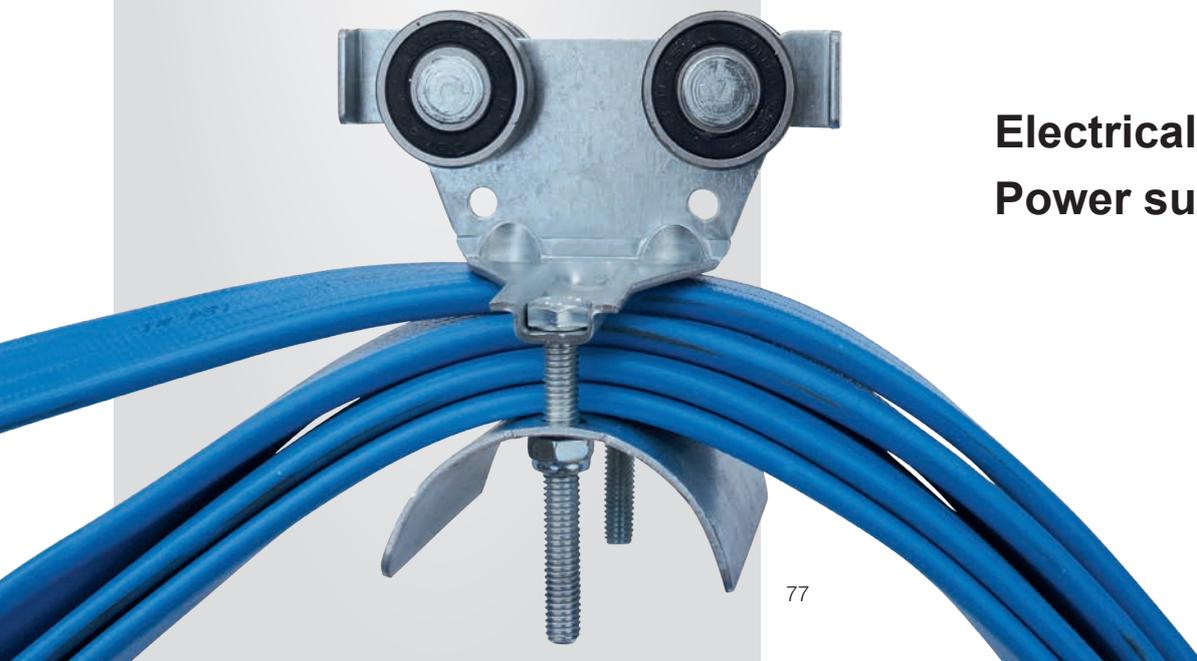
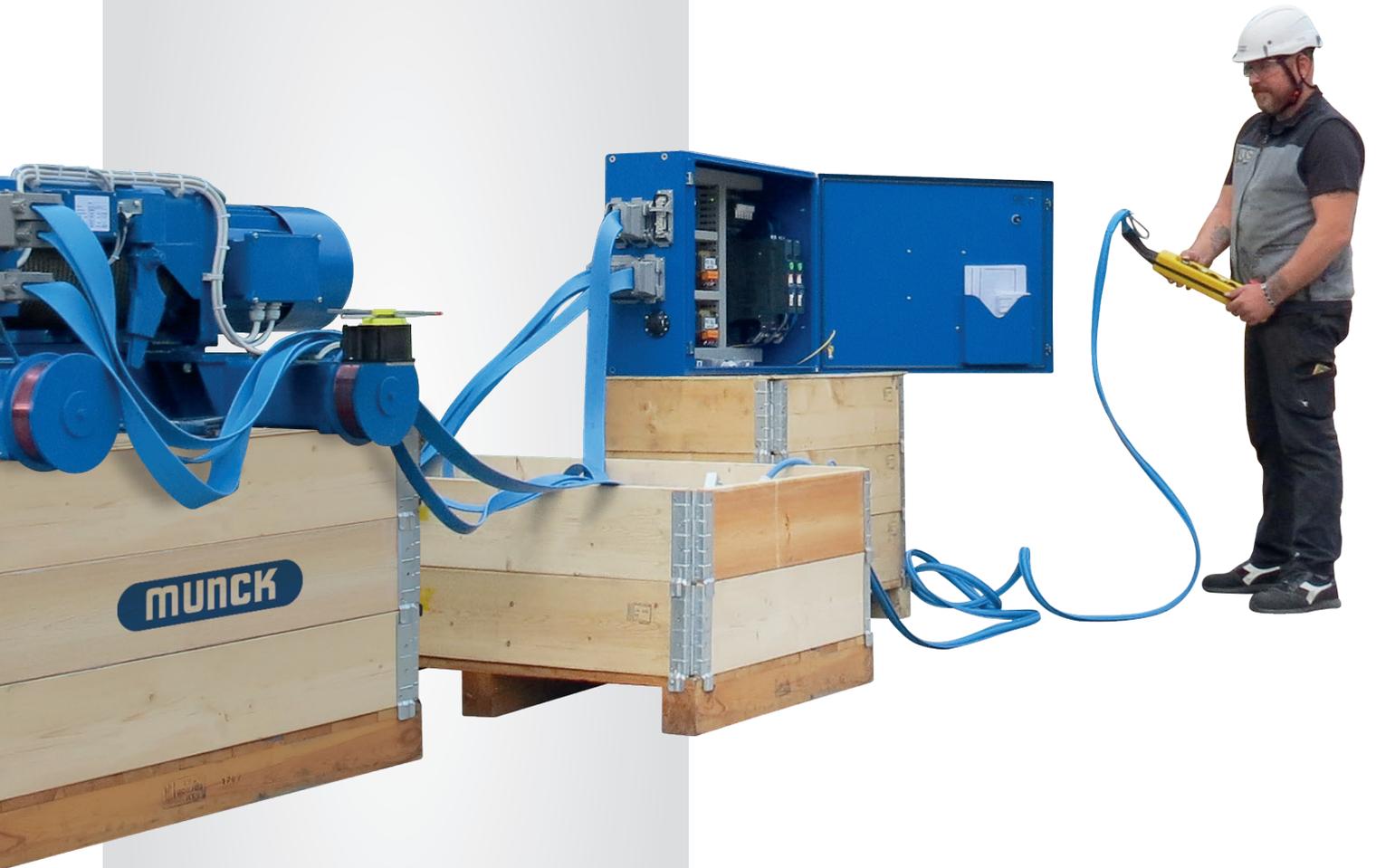


Max capacity	Dimensions					Speed		Power	Weight
kg	Sc mm	d mm	DR mm	Lg mm	h mm	m/min	m/min	kW	Kg
6,300	1000	480	160	50	175	19.2/6.4	24/7.8	0.37/0.12	230
10,000	1000	510	160	50	175	19.2/6.4	24/7.8	0.55/0.18	270
16,000	1200	540	200	60	220	19.2/6.4	24/7.8	0.75/0.25	500
25,000	1450	570	250	60	270	19.2/6.4	24/7.8	1.5/0.55	820
32,000	1450	570	320	70	345	19.2/6.4	24/7.8	2x1.1/0.37	1050
40,000	2000	590	320	90	345	19.2/6.4	24/7.8	2x1.5/0.55	1850
50,000	2000	590	320	90	345	19.2/6.4	24/7.8	2x1.5/0.55	1850



# **munck**

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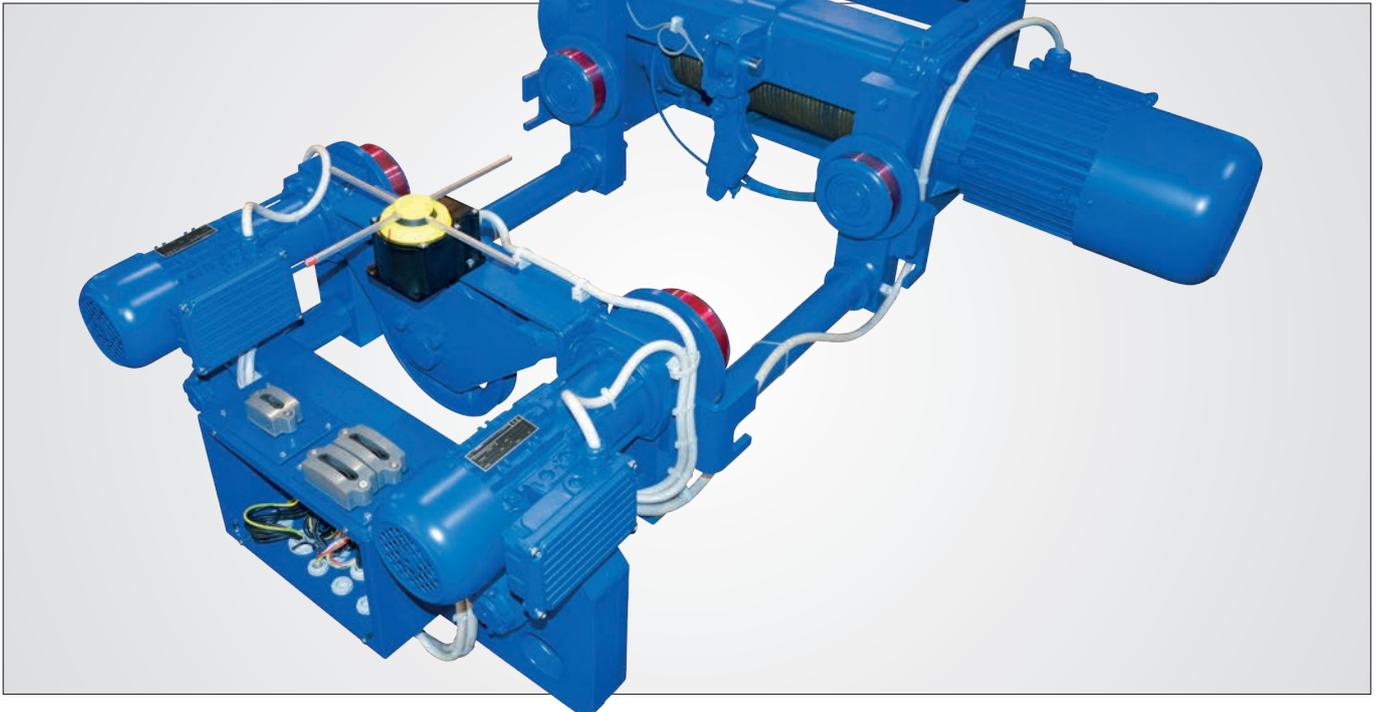


**Electrical components**  
**Power supply systems**



## Electrical components

Hoist with pre-wiring box



Wiring box



Electrical control panel with connectors; hoist trolley and crane “plug and play” type



Munck electric control panel is made with Schneider brand components

## Electrical components

Electrical panel “clamps” type



Vfd control



Pendant push button complete of cable and plug socket

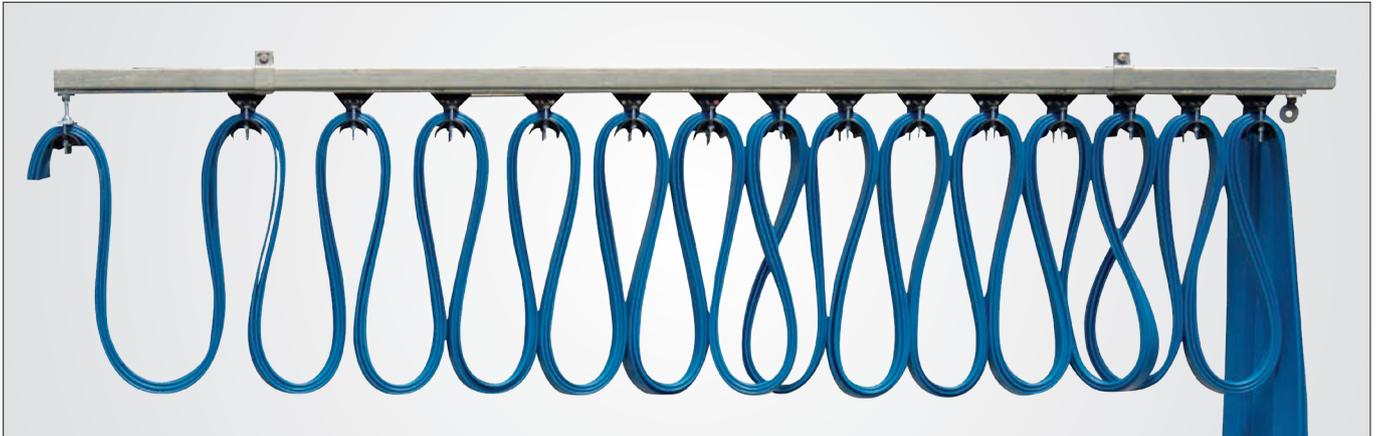


Wireless remote control



## Power supply systems

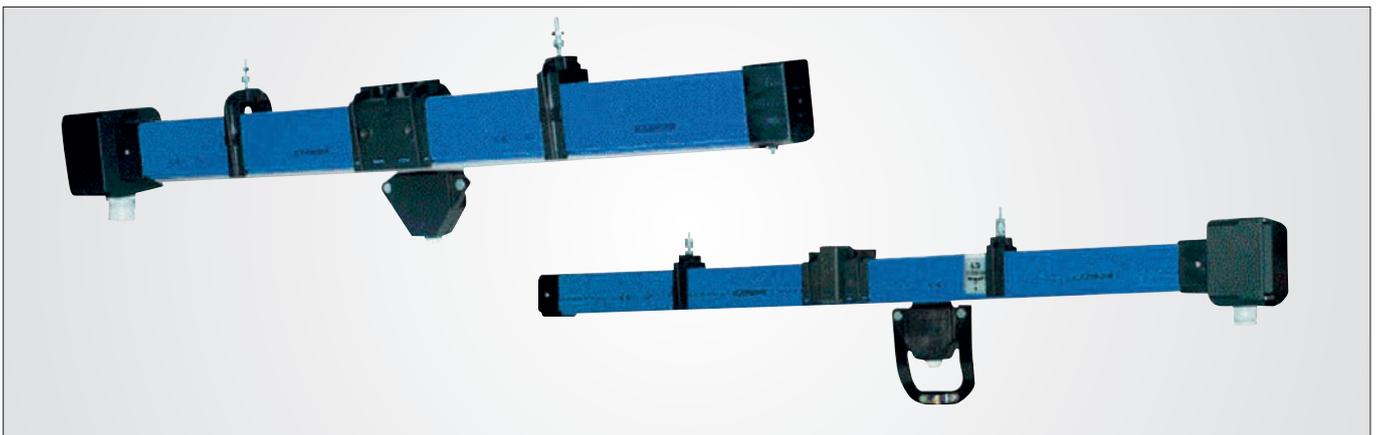
**Festoon feeding line channel for straight way**



**Festoon feeding line in square channel for curved way**



**PVC multi-pole copper conductor (Bus bar)**



# **munck**

-all about handling-



## **Accessories**

**Hook blocks**  
**Hollow shaft gear unit**

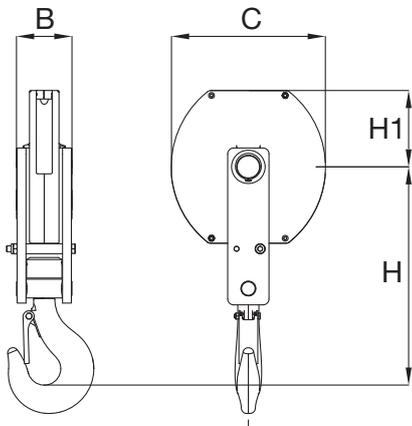


# Hook blocks

“S2” 2 ROPE FALLS  
“S4” 4 ROPE FALLS HOOK BLOCKS



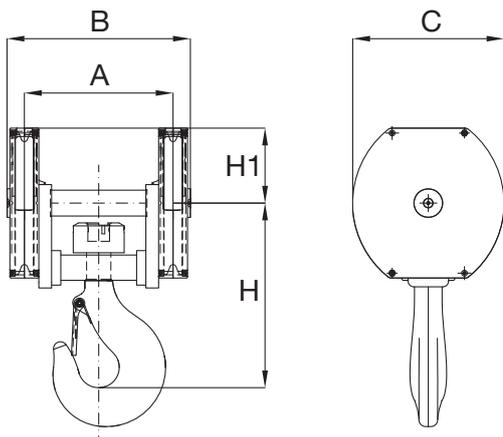
## HOOKS STANDARD DIN 15401



Max capacity	Group	Rope Ø	Roller Ø*	Dimensions				Hook number	Weight
				H mm	H1 mm	B mm	C mm		
t	FEM	mm	mm						Kg
1.6	2m	7	157	315	95	97	190	1	9
3.2	2m	10	224	375	130	115	262	1.6	17
5	2m	12	269	410	170	130	310	2.5	28
8	2m	15	336	475	210	140	420	6	78
10	2m	15	336	475	210	140	420	6	78
12.5	2m	20	448	780	280	255	560	6	113
16	1Am	20	448	780	280	255	560	10	224

\* Pulley diameter: primal diameter

## HOOKS STANDARD DIN 15401



Max capacity	Group	Rope Ø	Roller Ø*	Dimensions					Hook number	Weight
				H mm	H1 mm	A mm	B mm	C mm		
t	FEM	mm	mm							Kg
3.2	2m	7	157	244	95	157	212	190	1.6	15
5	2m	10	224	325	130	257	320	262	4	35
6.3	2m	10	224	325	130	257	320	262	4	35
10	2m	12	269	405	155	295	358	310	6	68
16	2m	15	336	450	210	339	461	420	6	123
20	2m	15	336	505	210	339	461	420	10	142
20	3m	20	448	520	280	437	600	560	10	194
25	2m	20	448	520	280	437	600	560	10	194
32	1Am	20	448	680	280	393	600	560	16	332

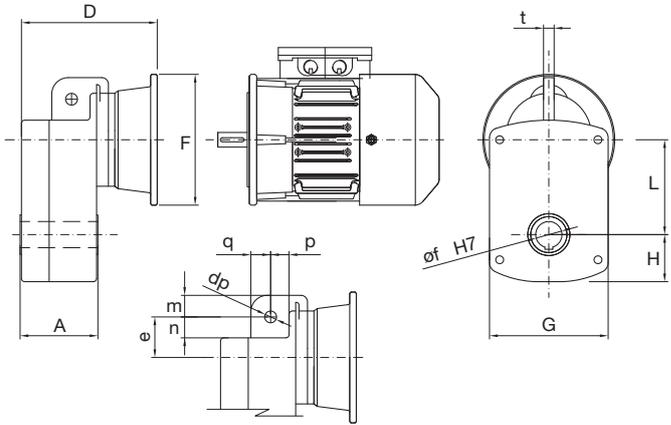
\* Pulley diameter: primal diameter

# Hollow shaft gear unit

# HOLLOW SHAFT GEAR UNIT FOR TROLLEYS AND BRIDGE CRANES

## TECHNICAL DATA

Reducer type "TP"	∅ f	L	H	G	A	m	n	q	p	e	t	Motor size	F	D	Weight
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm		mm	mm	
160	30	100	63	130	99	25	25	24	20	50	15	71	160	149	13
												80-90	200	169	
200	35	125	72	150	110	33	25	24	20	53	16	71	160	162	20
												80-90	200	182	
250	40	145	88	180	122	33	32	30	28	63	16	80-90	200	196	30
												100-112	250	206	
315	50	174	102	210	150	34	36	35	32	70	18	100-112	250	219	43
												132	300	229	
400	60	230	127	265	193	50	60	51	53	105	20	100-112	250	312	75
												132	300	312	



For motor reducer quotations of long travel motions, you can also refer to our overhead crane end carriages price lists or write to: [sales@munckcranes.com](mailto:sales@munckcranes.com)

## AVAILABLE RATIOS / MAXIMUM MOTORS POWER

TP 160 Max torque Mt 250 Nm				TP 200 Max torque Mt 500 Nm				TP 250 Max torque Mt 800 Nm				TP 315 Max torque Mt 1200 Nm				TP 400 Max torque Mt 2100 Nm			
2 Poles	2800 rpm	4 Poles	1400 rpm	2 Poles	2800 rpm	4 Poles	1400 rpm	2 Poles	2800 rpm	4 Poles	1400 rpm	2 Poles	2800 rpm	4 Poles	1400 rpm	2 Poles	2800 rpm	4 Poles	1400 rpm
P1 kW	i 1:x	P1 kW	i 1:x	P1 kW	i 1:x	P1 kW	i 1:x	P1 kW	i 1:x	P1 kW	i 1:x	P1 kW	i 1:x	P1 kW	i 1:x	P1 kW	i 1:x	P1 kW	i 1:x
0.55	79	0.25	79	0.75	84	0.37	84	1,5	88	0.75	88	1.5	108	0.75	108	3	114	1.5	114
0.55	70	0.25	70	1.1	70	0.55	70	1,5	79	0.75	79	2.2	93	1.1	93	3	105	1.5	105
0.55	64	0.25	64	1.1	69	0.55	69	1,5	72	0.75	72	2.2	86	1.1	86	3	95	1.5	95
0.75	58	0.37	58	1.5	57	0.75	57	1,5	66	0.75	66	2.2	78	1.1	78	4	87	1.5	87
0.75	56	0.37	56	1.5	54	0.75	54	1,5	65	0.75	65	3	70	1.5	70	4	80	2.2	80
0.75	49	0.37	49	1.5	50	0.75	50	2,2	61	1.1	61	3	65	1.5	65	4	73	2.2	73
0.75	48	0.37	48	1.5	44	0.75	44	2,2	60	1.1	60	3	60	1.5	60	4	68	2.2	68
0.75	47	0.37	47	1.5	43	0.75	43	2,2	54	1.1	54	3	59	1.5	59	5,5	63	2.2	63
0.75	45	0.37	45	1.5	41	0.75	41	2,2	52	1.1	52	3	58	1.5	58	5,5	59	3	59
0.75	43	0.37	43	2,2	40	1.1	40	2,2	50	1.1	50	3	54	1.5	54	5,5	54	3	54
1.1	39	0.55	39	2,2	35	1.1	35	2,2	48	1.1	48	4	51	1.5	51	7,5	48	3	48
1.1	36	0.55	36	2,2	33	1.1	33	3	46	1.5	46	4	46	2,2	46	7,5	44	4	44
1.1	35	0.55	35	2,2	32	1.1	32	3	39	1.5	39	4	45	2,2	45	9,2	36	4	36
1.1	33	0.55	33	3	27	1.5	27	3	36	1.5	36	4	41	2,2	41	11	32	5,5	32
1.1	30	0.55	30	3	25	1.5	25	4	27	2,2	27	5,5	35	3	35				
1.5	29	0.75	29	4	22	1.5	22	5,5	20	3	20	5,5	29	3	29				
1.5	28	0.75	28	4	20	2,2	20					7,5	27	3	27				
1.5	27	0.75	27	4	18	2,2	18					9,2	20	4	20				
1.5	22	0.75	22																
1.5	21	0.75	21																
2,2	20	1.1	20																
2,2	16	1.1	16																
3	13	1.5	13																

Motors characteristics: (N° avv/h = 180 - S.I. 40% - Vel. aux 15%)

# Crane kits for single girder cranes

**MUNCK provides solutions for new and existing cranes.**

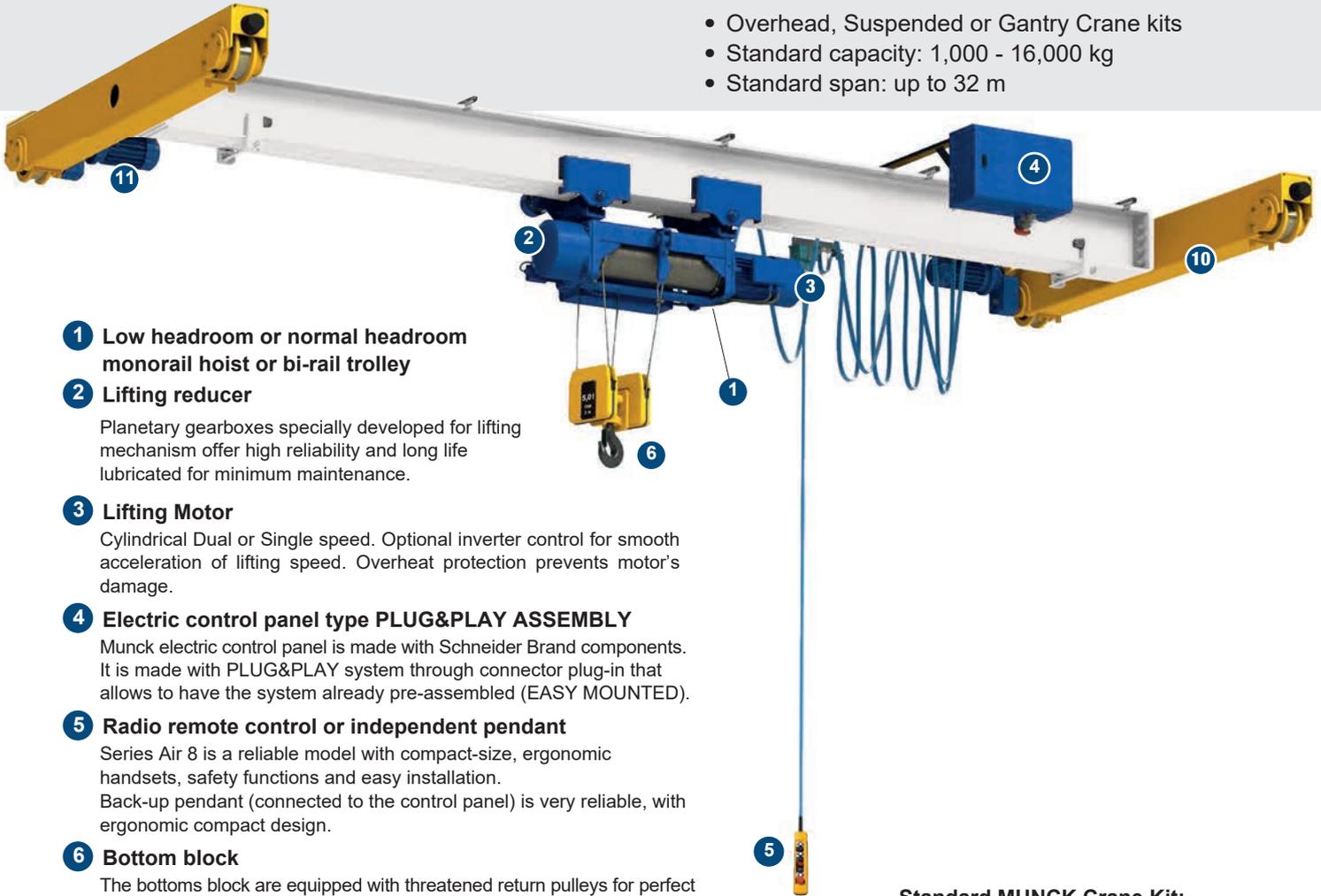


Components can be individually engineered to suit different requirements. All our products and components are designed, engineered and manufactured to CMAA standard. MUNCK components follow latest innovations in the field of crane building using 35-years experience and know-how of worldwide partners.

## Single Girder Cranes

Compact construction allowing maximum utilization of room height:

- Overhead, Suspended or Gantry Crane kits
- Standard capacity: 1,000 - 16,000 kg
- Standard span: up to 32 m



**1 Low headroom or normal headroom monorail hoist or bi-rail trolley**

**2 Lifting reducer**

Planetary gearboxes specially developed for lifting mechanism offer high reliability and long life lubricated for minimum maintenance.

**3 Lifting Motor**

Cylindrical Dual or Single speed. Optional inverter control for smooth acceleration of lifting speed. Overheat protection prevents motor's damage.

**4 Electric control panel type PLUG&PLAY ASSEMBLY**

Munck electric control panel is made with Schneider Brand components. It is made with PLUG&PLAY system through connector plug-in that allows to have the system already pre-assembled (EASY MOUNTED).

**5 Radio remote control or independent pendant**

Series Air 8 is a reliable model with compact-size, ergonomic handsets, safety functions and easy installation. Back-up pendant (connected to the control panel) is very reliable, with ergonomic compact design.

**6 Bottom block**

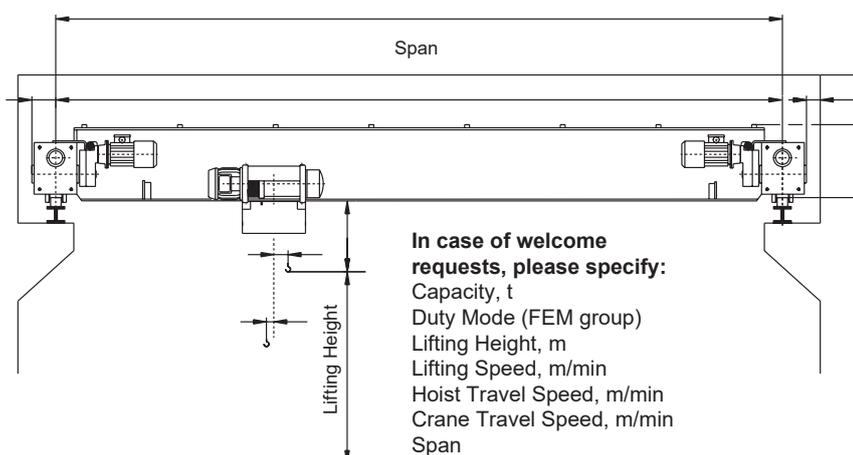
The bottoms block are equipped with threatened return pulleys for perfect rope sliding. The rolling system is based on long life lubricated ball bearings. The hook type DIN 15401 (single hook) or 15402 (double hook) is made of high resistance pressed steel, it has always a safety catch.

### Standard MUNCK Crane Kit:

- Hoist unit including trolley mechanism and electrical control panel
- End-carriages with plates, buffers and travel drives
- Crane Control Panel
- Control (RRC or pendant)
- Festoon system - preassembled type plug-in
- Accessories (lights, towing arms, panel holders, brackets, etc)
- All electric system will be delivered just pre-assembled with plug-in connectors

### Optional Devices for MUNCK Crane Kit:

- Inverter control for lifting
- Anti-collision devices
- Load LED display
- Horn
- Drawings for main girder fabrication



# Crane kits for double girder cranes

MUNCK products are well known by the market for their high quality-price ratio and for the effectiveness of our pre-post sale service.



## Advantages for the customer:

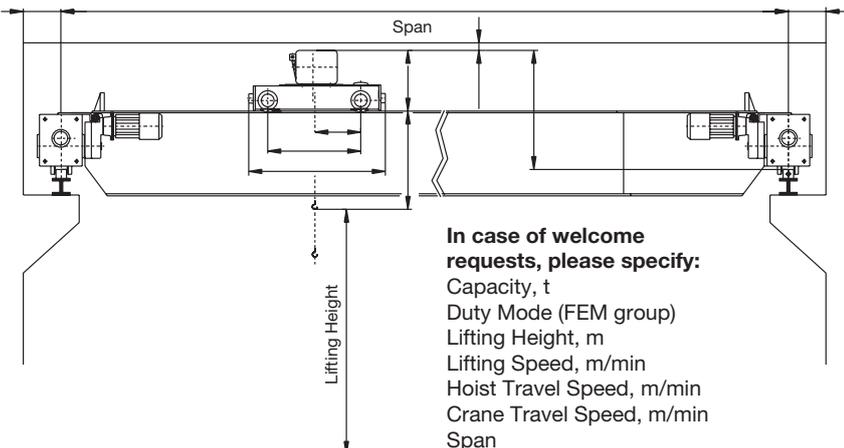
- Reduced transport costs
- Reduced manufacturing costs of the crane by using the preset components
- Reduced on-side installation time by Plug&Play MUNCK crane kits.

## Double Girder Cranes

Applied when greater capacity and higher operation required. In equal conditions double girder cranes offer greater lifting heights:

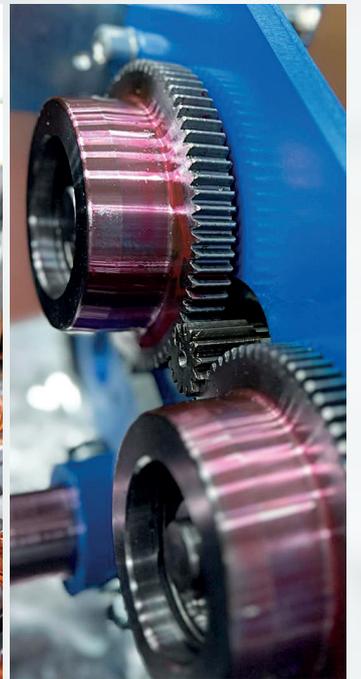
- Overhead or Gantry Crane kits
- Standard capacity: 2000 - 50000 kg
- Standard span: up to 32 m

- 7 Crane limit switch**  
Travel limit switches for cross and long travel - pre- and limit switching in both directions of travel.
- 8 Festoon system (plug-in type)**  
European made cable carrying line in galvanized steel is a handy, efficient and safe system for electrical distribution.
- 9 Sliding independent push button feeding line**  
European made cable carrying line galvanized steel is a handy, efficient and safe system.
- 10 End carriages (for monorail or bi-rail crane)**  
Standard and customized.  
End carriages for EOT cranes with TOP or SIDE connection plates.  
Buffer stops are always included in the supply.
- 11 Crane travel drives**  
Low maintenance gear motor suitable for both inverter or contactor control.





**Munck Cranes,  
changing the world,  
one lift at a time!**





# **munck**

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