



WIRE ROPE HOIST

LIFT & CONNECT SAFELY

INTRODUCTION

Carl Stahl Craftsman Enterprises Private Limited is a joint venture company of Carl Stahl of Germany and Craftsman Automation Limited of India, commenced its operations in July 2007.

With the objective of using rich experience of Carl Stahl in material handling industry and strong manufacturing expertise of Craftsman Automation, the joint venture was formed to provide the end user a "Reliable, Effective, Efficient & Economic Lifting" solution.

We design, develop and manufacture, the complete product from start to its completion. Through constant research and development, we now offer one of the world's largest range of cranes for industrial application. We also offer quality service for the cranes we supply.

We provide complete lifting solutions to our customers at the best competitive pricing.



CRANE KITS

Crane kits are pre-engineered, complete crane component packages utilizing cutting edge technology including the innovative electric wire rope hoist and chain hoist. Variable frequency drives also supports on all motions for smooth starts and stops. Electrical cabling and bolted structural connections simplify assembly.

Our crane kits creates a new opportunity for crane manufacturers and users around the globe to complete orders efficiently and cost-effectively. Carl Stahl Craftsman crane kits saves you even more money when you want to do more of the work. You get the end carriages in parts form - wheels block, wheels, travel drives, and so forth.

We provide all machined parts, hoists, end carriages, electrification systems (all control panels fully wired) and all purchased components, except the structural steel shapes. We fully assemble wire and test the crane kits and deliver with high quality.

FACTS

- OPTIMAL SPACE UTILIZATION
- HIGH SAFETY IN OPERATION
- GENTLE WORK
- LOW INSTALLATION AND MAINTENANCE COST
- EFFICIENT & ECONOMICAL OPERATION

Customer advisory services, planning, building the crane system, service and spare parts supply stay in your hands, in the vicinity of your customers. Our goal is a satisfied customer - not necessarily the sale of a new crane. Carl Stahl Craftsman will provide detailed engineering specifications to build the girder and crane assembly in total.



MODELS

Carl Stahl Craftsman hoists are designed in various models to suit every customer's needs. We design and manufacture electric wire rope hoist which can run in monorail and in double rail.

You can choose from the following models or we shall guide you to choose the right model for your application.

WIRE ROPE HOIST

MONORAIL HOIST



CRAB HOIST



WIRE ROPE HOIST VARIANTS

TYPE	LIFTING CAPACITY UP TO (KG)	ROPEREEVING	MONORAIL	CRAB
CLH 03	3000	4/1	✓	
CLX 03	2500	4/1	✓	
CLH / CLHD 05	5000	2/1 , 4/1	✓	✓
CLX / CLXD 05	3000	2/1, 4/1	✓	✓
CLH / CLHD 7.5	7500	4/1	✓	✓
CLX / CLXD 7.5	6000	4/1	✓	✓
CLH / CLHD 10	10000	2/1 , 4/1	✓	✓
CLX / CLXD 10	8000	2/1, 4/1	✓	✓
CLHD 16	16000	2/1 , 4/1		✓
CLXD 16	8000	2/1		✓
CACR 16	20000	6/1		✓
CACR 25	50000	2/1 , 4/1 , 6/1 , 8/1		✓

Craftsman

AUTOMATION

ENGINEERING ADVANTAGE

Craftsman Automation Limited is a Coimbatore based company which was established in the year 1986, registered a sales turnover in 2017-2018 is 1453 Crores.

Craftsman's world class Product Design and Development center caters to the needs of design, development, manufacturing and testing of cutting edge products. Craftsman remains committed to provide the highest quality products and services to its customers at a reasonable cost, with just in time delivery at the customer's location.



FACTS

Years of operation: Since 1986
 Employees: 4590
 Location: 11 Units
 Turnover 2017-2018: over ₹1453 Crores
 Certification by: DIN EN ISO TS 16949, DIN EN ISO 14001



Carl Stahl®

Carl Stahl was established 1880 as a small rope-making facility with agricultural products in Suesen, Baden- Wuerttemberg Germany. Today the Carl Stahl Group has > 1,500 employees at 70 locations on four continents and offers innovative and future-oriented solutions in the fields of Lifting Technology, Architecture and Technocables

Professional know-how and the motivation of our employees are our major strengths: Customer satisfaction as our main objective is not just a statement, it is our commitment. All activities are focused on providing customers with real benefits through the products and services we supply.



FACTS

Years of operation: Since 1880
 Employees: 1650
 Location: 70 Units
 Turnover: Euro 314.5 Million / over 3000 Crores
 Certification by: DIN EN ISO 9001, DIN EN ISO 14001

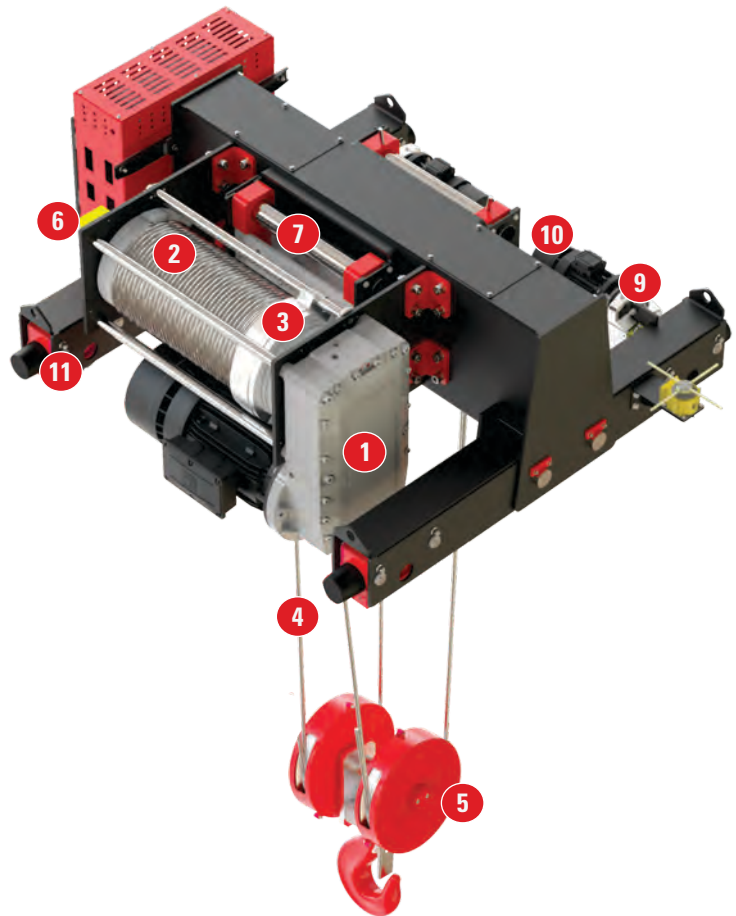


THE HOIST

TECHNOLOGY

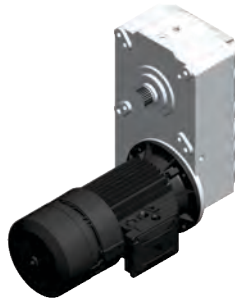
The electric wire rope hoists are constructed considering all safety requirements, efficient operation and maintenance free construction of parts with increased service life.

It is rugged in operation, modular in construction and aimed for more balanced wheel loads.



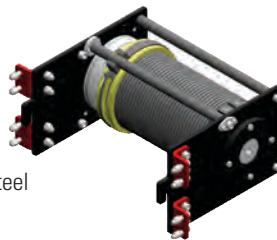
1 GEAR BOX

- In-house precision machined Aluminium cast body for reduced weight.
- In-house hardened and Precision ground gears for smooth running and long life.
- Gears permanently immersed in synthetic oil for quiet, smooth and cool operation.



2 ROPE DRUM

- Designed for durability and long life.
- Constructed from a high quality seamless steel tube.
- Manufactured according to DIN-15061.



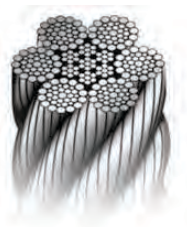
3 ROPE GUIDE

- Heavy duty rope guide ensures positive rope scrolling.
- GGG 40 spheroidal cast iron material used to provide low wear and keeps the rope securely in the groove on the drum.
- Special guide spring is fitted between the wire rope and the guide to maintain the correct tightness of the rope on the drum.



4 ROPE

- High strength wire rope provides high resistance to fatigue and wear
- Compact strand structure and highly flexible steel core rope for long life.
- High wire rope / pulley diameter ratio increases the rope life span
- Selected according to ISO 4308-1.



5 HOOK BLOCK

- Robust design for improved safety and handling.
- Rotating hook and pulley block with safety latch.
- High strength forged steel hook capable of 360 degree rotation.
- Machined sheave grooves for long rope life.
- Designed according to DIN-15400.



6 ROTARY LIMIT SWITCH EQUIPMENT

- Automatic cut-off of the lifting and lowering motions in upper and lower limit positions.
- Cut-off position can be adjusted to suit the application.
- Provides Upper/Lower motion limit switch as standard option.



7 END TIE ASSEMBLY

- Mechanical Overload protector is used as standard option to prevent lifting excessive overloads.
- Pre-set springs are mounted for rated load.
- Electronic load measure used as optional.



8 VARIABLE FREQUENCY DRIVE

- Variable frequency drives being optimized with the hoist application to have a smoother and safer operation of the cranes with flexibility of variable speeds match the application.



9 CROSS TRAVEL MACHINERY



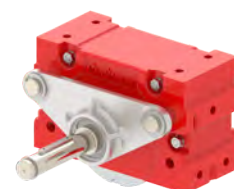
- Travel machinery is specially designed for hoist application.
- Easy to remove without removing wheels.
- Case hardened and Precision ground gears for smooth running and long life.
- Gears permanently immersed in oil/grease for quiet, smooth and cool operation
- Standard travelling speeds of 20 m/min (single speed) and 20/5 m/min (double speed) at 50 Hz. Other travelling speeds can be also fitted upon request.

10 HOISTING & TRAVEL MOTOR



- Heavy duty motor with an incorporated brake and fan cooled.
- The brake disc lining material is asbestos free with high friction coefficient and very long lasting
- Provided with IP 54 enclosure rating and F insulation class.
- On request we can provided with IP55 or IP 56 enclosure rating with H Class insulation.
- Thermistors fitted on windings of the motor for protection of windings in high temperature.

11 WHEEL BLOCK



- Single flanged wheels for monorail hoist and double flange for crab hoist.
- The wheels are totally machined, and made of spheroidal cast material SG-700/2.
- Ball / Spherical roller / Taper roller bearings are used for very high life.
- Modular design to suit different mounting positions.
- Easy removal and maintenance.

12 PENDANT STATIONS



- Easy to use, one hand operation.
- Available in 2, 4 or 6 button version with IP65 protection.
- Provided with emergency stop

OPTIONAL

RADIO REMOTE CONTROL UNIT



- The radio remote pendant provided as an option in accordance with the convenience of operation to the user.

ROPE DRUM BRAKE (ONLY FOR SELECTED MODELS)



- Additional safety with Mechanical drum brake for protection against drive failures.
- Easy access and protected with covers for dust free.
- Brake mechanism is factory test and set.

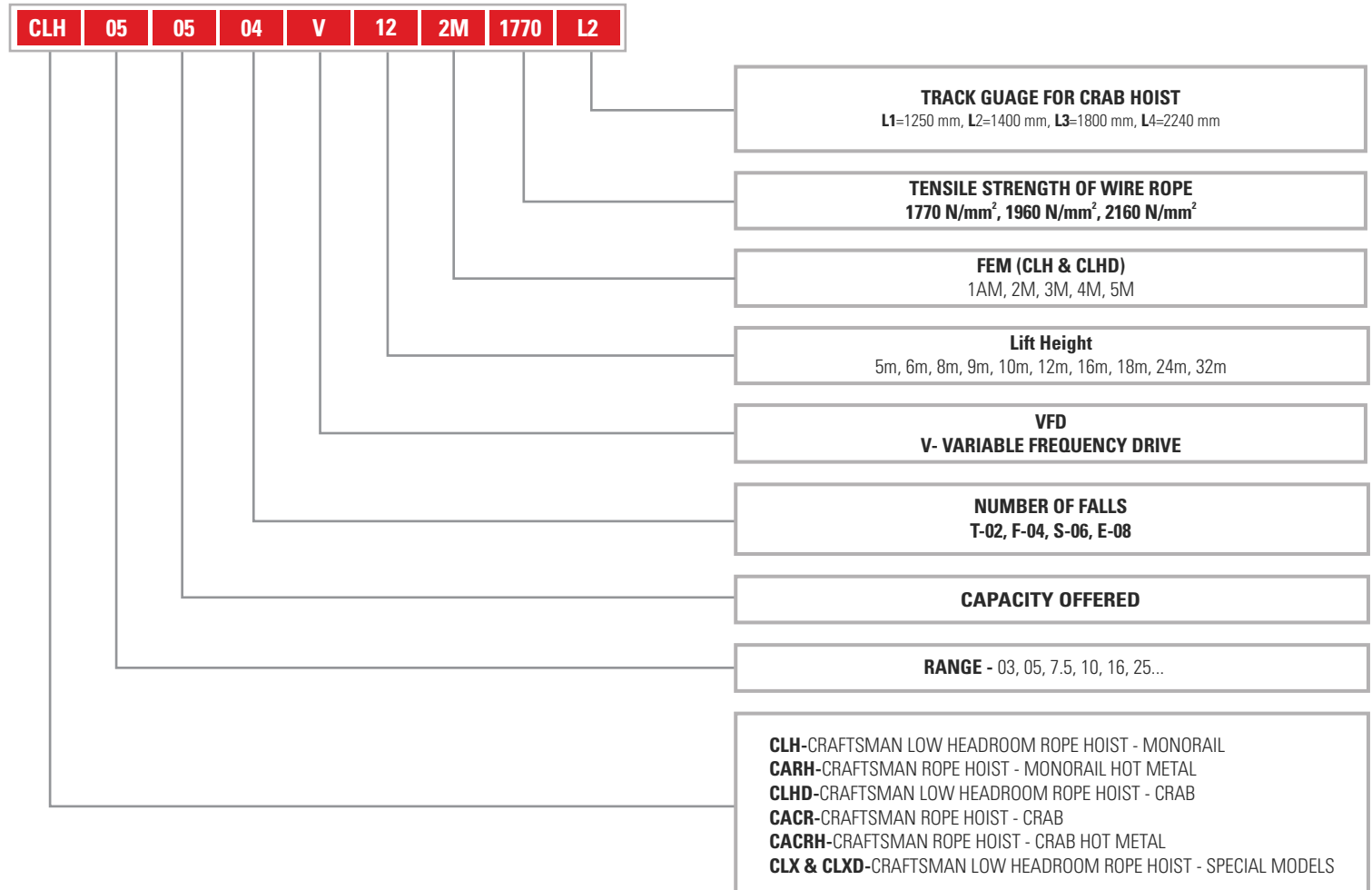
BASIC TECHNICAL SPECIFICATIONS

TECHNICAL SPECIFICATION FOR WIRE ROPE HOIST		
DESCRIPTION	MONORAIL HOIST	CRAB HOIST
GIRDER	Single	Double Girder
REEVING	2/1, 4/1	2/1, 4/1, 6/1, 8/1
CT WHEEL DIAMETER (mm)	100, 140	112, 125, 160, 200, 320, 400
TRACK GAUGE (mm)	-	1250, 1400, 1800, 2240
HEIGHT OF LIFT (m)	5-32	
LIFTING SPEED (m/min)	1-4, 1.2-4.7, 1.25-5... ; Frequency Controlled	
CROSS TRAVEL SPEED (m/min)	5-20; Frequency Controlled	
CLASS OF DUTY (FEM)	1Am, 2m, 3m, 4m & 5m	
ROPE CONSTRUCTION	6x36, SKZ 8 P	
AMBIENT TEMP. (°C)	50°C Max	

TECHNICAL SPECIFICATION FOR WIRE ROPE HOIST		
DESCRIPTION	MONORAIL HOIST	CRAB HOIST
APPLICATION	Indoor	
LIFTING MOTOR	4-Pole; Frequency Controlled	
CT MOTOR	4-Pole; Frequency Controlled	2-Pole; Frequency Controlled
POWER SUPPLY	415Volts, 3 Phase, 50 Hz, AC Supply	
CONTROL SUPPLY	24 Volts , 50 Hz, DC Supply Frequency Controlled	
THERMAL INSULATION CLASS	F-Class	
MOTOR ENCLOSURE	IP 55	
BRAKE TYPE	Electromagnetic Disc Brake - AC/DC	
RUNWAY BEAM	ISMB 100-600 (or) Plate (Length may vary)	
WHEELS	SG700/2 wheels of suitable diameter hardened to 200-250BHN	
ROPE DRUM	Seamless pipe rope drum grooved as per DIN 15061.	

TECHNICAL SPECIFICATION FOR WIRE ROPE HOIST		
DESCRIPTION	MONORAIL HOIST	CRAB HOIST
GEAR BOX	Helical gear, Oil splash lubricated, fully enclosed type with EN 353 Pinions and Gears Hardened. Make: Carlstahl Craftsman.	
HOOK	Single shank Swiveling type hook mounted on Anti-frictional thrust bearing as per DIN15400.	
BEARINGS	Anti-friction ball / roller bearings - Make: SKF/FAG/KOYO	
PAINTINGS	Powder coated with RAL 3020 Traffic Red, RAL 7040 Window Grey & RAL 9005 Black. All colours from RAL chart.	
SPECIAL FEATURES		
1. Rotary limit Switch for over travel with dual protection.		
2. Plug In Connectors for Motors and Input Supply.		
3. High Factor of Safety Gear Box.		
4. Over Load Protection - Mechanical with Disc Springs & Limit Switch.(Optional with Load Transducers). Via. VFD(For R-Series Only)		
5. Thrust Rocker for Self Weight Balance.(For R-Series Only)		
6. Additional safety with mechanical drum brake for protection against drive failures.(Optional for Selected Models)		

PRODUCT CODE



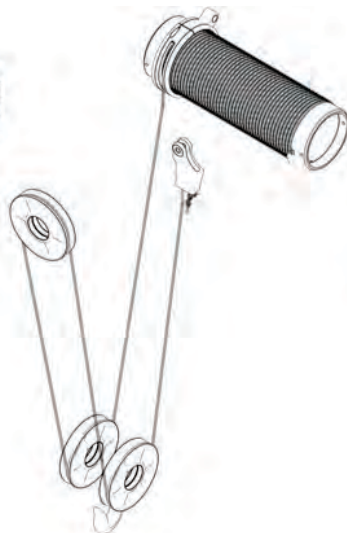
STANDARD RANGE								
2/1	4/1	6/1	8/1	1Am / M4	2m / M5	3m / M6	4m / M7	5m / M8
	20T				CACR 16-1960 CACR 25-1770	CACR 25-1960		
		20T			CACR 16-1770			
	25T				CACR 25-1770	CACR 25-1960		
		25T			CACR 16-1770	CACR 16-1960		
	32T				CACR 25-1960			
		32T			CACR 25-1770	CACR 25-1960		
		40T		CACR 25-1770	CACR 25-1960			
			50T		CACR 25-1770	CACR 25-1960		
MOLTEN METAL HANDLING RANGE*								
2/1	4/1	6/1	8/1	1Am / M4	2m / M5	3m / M6	4m / M7	5m / M8
	2T							CARH 05-1960 CACRH 05- 1960
	2.5T							CARH 10-1770 CACRH 10- 1770
	3T						CARH 05-1960 CACRH 05- 1960 CARH 10-1770 CACRH 10- 1770	CARH 10-1960 CACRH 10- 1960
	4T						CARH 10-1770 CACRH 10- 1770	CARH 10-1960 CACRH 10- 1960
	5T						CARH 10-1960 CACRH 10- 1960	CACRH 16- 1960
	6.3T						CARH 10-1960 CACRH 10- 1960	CACRH 16- 1960
		8T						CACRH 16- 1960
	8T						CACRH 16- 1960	
	10T						CACRH 16-1960	CACRH 25- 1960
		12.5T					CACRH 16-1960	CACRH 16- 1960
	12.5T						CACRH 25 -1960	
		15T					CACRH 16-1960	CACRH 25-1960
		20T					CACRH-25-1960	
		24T					CACRH 25-1960	
			32T				CACRH 25-1960	

* ON REQUEST MODELS

REEVING



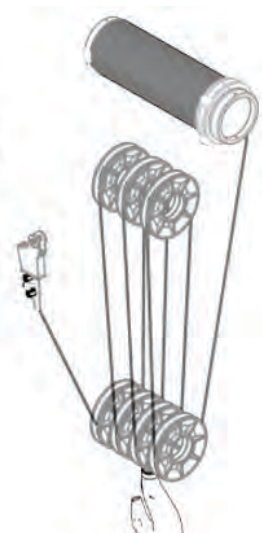
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FALL - 4/1



FALL - 6/1



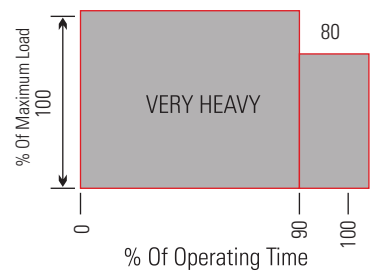
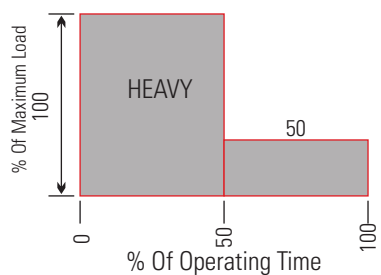
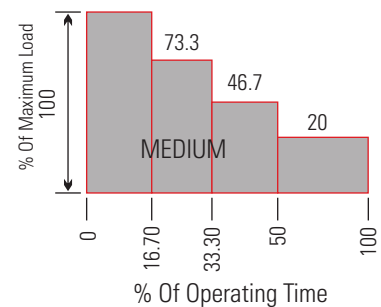
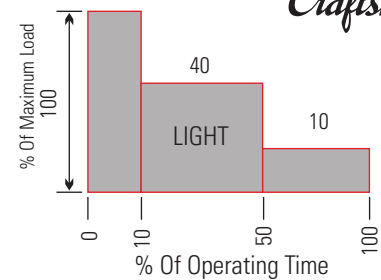
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HOIST CLASSIFICATION & SELECTION

LOAD SPECTRUM		DEFINITIONS
1 (Light)	L1	Mechanisms or parts of thereof, usually subject to very small loads and exceptional cases only to maximum loads
2 (Medium)	L2	Mechanisms or parts of thereof, usually subject to small loads but rather often to maximum loads
3 (Heavy)	L3	Mechanisms or parts of thereof, usually subject to medium loads but frequently to maximum loads
4 (Very Heavy)	L4	Mechanisms or parts of thereof, usually subject to maximum or almost maximum loads

Average Operating time per day = $\frac{2 \times \text{average hook path} \times \text{no. of cycles per hr} \times \text{working time per day}}{60 \times \text{hoist speed}}$

Load spectrum		Average operating time per working day in hours				
L1	Light	2-4	4-8	8-16	over 16	
L2	Medium	1-2	2-4	4-8	8-16	over 16
L3	Heavy	0.5-1	1-2	2-4	4-8	8-16
L4	Very Heavy	0.25-0.5	0.5-1	1-2	2-4	4-8
Group of mechanisms to FEM 9.511		1Am	2m	3m	4m	5m
Working Load Limit		Product Range				
STANDARD RANGE						
2/1	4/1	6/1	8/1	1Am / M4	2m / M5	3m / M6
	1.6T					CLX 03
	2T					CLX 03 CLH 03 CLX 03
2.5T					CLX 05 CLXD 05	CLX 10 CLXD 10
	2.5T					CLH 03 CLX 03 CLX 05 CLXD 05
3T						CLX 10 CLXD 10
	3T				CLH 03	CLH 05 CLX 05 CLHD 05 CLXD 05
5T					CLX 10 CLXD 10	
	5T				CLH 05 CLHD 05	CLH 7.5 CLX 7.5 CLHD 7.5 CLXD 7.5
	6T					CLH 7.5 CLX 7.5 CLHD 7.5 CLXD 7.5
	6.3T					CLX 10 CLXD 10
	7.5T				CLH 7.5 CLHD 7.5	
8T					CLXD 16	
	8T					CLH 10 CLX 10 CLHD 10 CLXD 10
	10T				CLH 10 CLHD 10	CLHD 16
12.5T					CACR 25-1770	CACR 25-1960
	12.5T					CLHD 16
16T					CACR25-1960	
	16T				CLHD 16	



EXAMPLE

Load capacity	5000 kg
Load spectrum from table	Medium
Height of lift	6 m
Hoist speed	5 m/min
Average hook path	5 m
No. Cycles / hour	10
Working time / day	8 Hours.

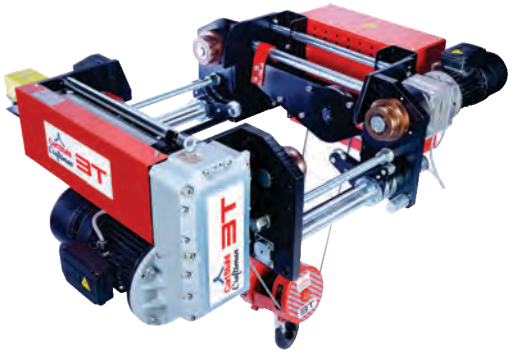
The average operating time per working day is estimated or calculated as follows:

$$= \frac{2 \times 5 \times 10 \times 8}{60 \times 5} = 2.66 \text{ h / day}$$

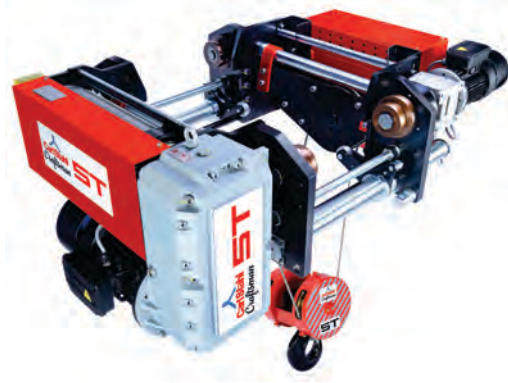
For the heavy load spectrum and an average daily operating time of 2.66 hours, the table shows group 2m / M5

WIRE ROPE HOIST R - SERIES

SINGLE GIRDER MONORAIL



CAPACITY (T) : UP TO 3T
LIFT HEIGHT (M) : 6, 9, 12
SPEED (M/MIN) : 1.25 ~ 5
FEM : 2M



CAPACITY (T) : UP TO 5T
LIFT HEIGHT (M) : 6, 9, 12
SPEED (M/MIN) : 1 ~ 4
FEM : 2M



CAPACITY (T) : UP TO 10T
LIFT HEIGHT (M) : 6, 9, 12
SPEED (M/MIN) : 1.2~4.7
FEM : 2M

DOUBLE GIRDER CRAB



CAPACITY (T) : UP TO 5T
LIFT HEIGHT (M) : 6, 9, 12
TRACK GAUGE (MM) : 1250, 1400
SPEED (M/MIN) : 1~4
FEM : 2M



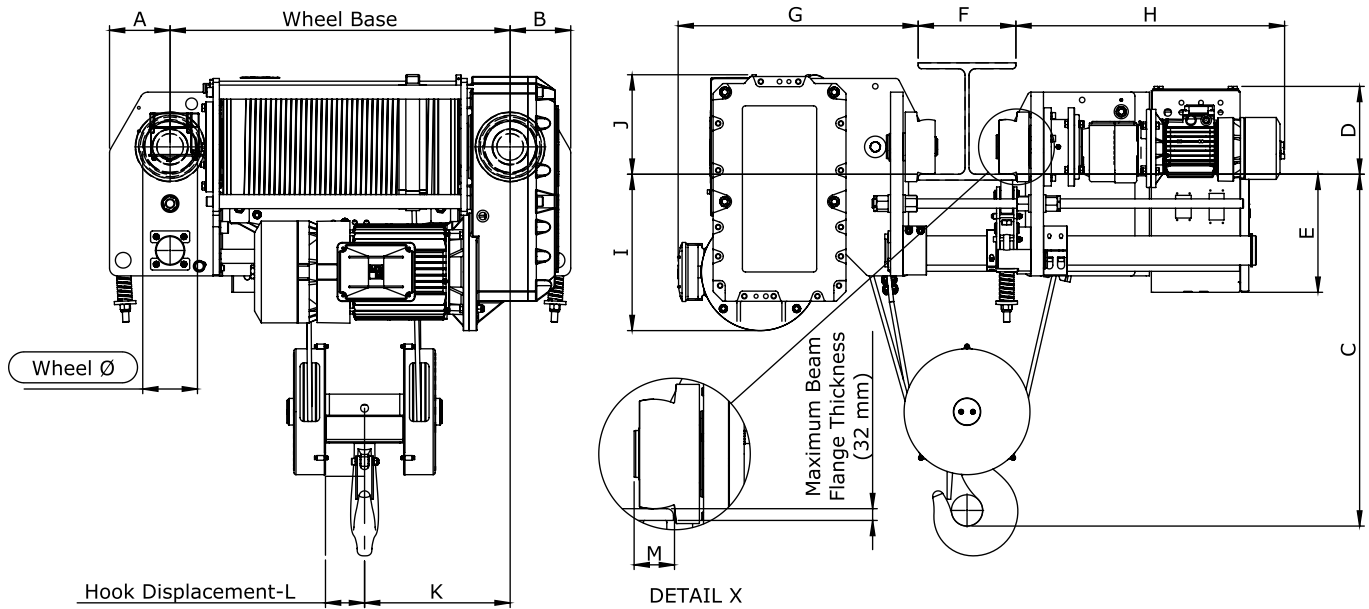
CAPACITY (T) : UP TO 10T
LIFT HEIGHT (M) : 6, 9, 12
TRACK GAUGE (MM) : 1250, 1400, 1800
SPEED (M/MIN) : 1.2~4.7
FEM : 2M



CAPACITY (T) : UP TO 16T
LIFT HEIGHT (M) : 8, 12, 16
TRACK GAUGE (MM) : 1400, 1800, 2240
SPEED (M/MIN) : 1.2~4.7
FEM : 2M

WIRE ROPE HOIST R - SERIES

MONORAIL HOIST

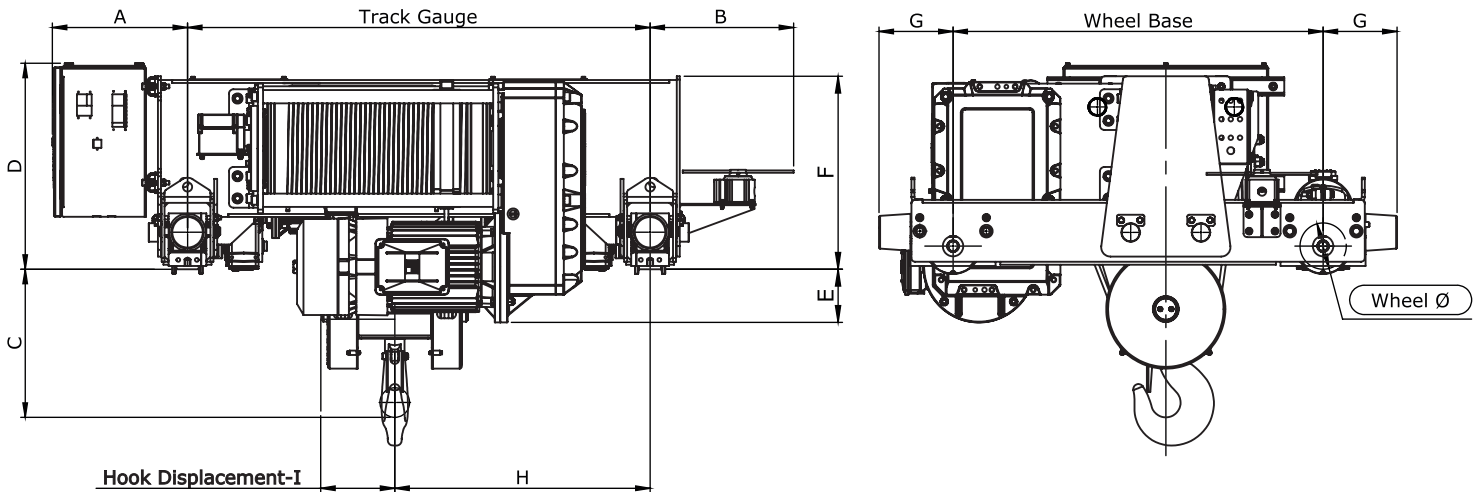


MODEL	LIFT (m)	WHEEL BASE	WHEEL Ø (mm)	A (mm)	B (mm)	D (mm)	E (mm)	G (mm)	H (mm)	I (mm)	J (mm)	K (mm)	L (mm)	M (mm)						
CLH 03	6	760	100	100	100	153	270	434	570	305	165	280	100	39						
	9	940											150							
	12	1140											210							
CLH 05	6	760						140	155	155	225	302	615		688	400	255	373	100	52
	9	940																	150	
	12	1140																	210	
CLH 7.5	6	870	140	155	155	225	302	615	688	400	255	373	100	52						
	9	1050											150							
	12	1230											200							
CLH 10	6	870	140	155	155	225	302	615	688	400	255	373	100		52					
	9	1050											150							
	12	1230											200							

MODEL	C DIMENSION (mm)				
CLH 03	450	550	650	750	-
CLH 05	500	600	700	800	
CLH 7.5	700	800	900	1000	1100
CLH 10					
FLANGE WIDTH (F) (mm)	F ≤ 200	200 > F ≤ 300	300 > F ≤ 400	400 > F ≤ 500	500 > F ≤ 600

WIRE ROPE HOIST R - SERIES

CRAB HOIST



MODEL	LIFT (m)	TRACK GAUGE (mm)	WHEEL BASE (mm)	WHEEL Ø (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	I (mm)	
CLHD 05	6	1250	1000	112	332	380	450	463	88	459	190	537	100	
	9												150	
	12	210												
CLHD 10	6	1250		125	366	388	400	557	144	522	200	690	697	100
	9	150												
	12	200												
CLHD 16	8	1400	1250	160	380	398	650	692	103	684	225	722	150	
	12	200												
	16	250												

PRODUCT RANGE

WIRE ROPE HOIST - R-SERIES MODELS																														
HOIST						MONORAIL					CRAB																			
MODEL	WORKING LOAD	FALL	FEM	LIFT HEIGHT (M)	HOIST MOTOR POWER (KW)	HOIST LIFTING SPEED (M/MIN)	CT MOTOR POWER (KW)	CT SPEED (M/MIN)	MODEL	MASS (KG)	CT MOTOR POWER (KW)	CT SPEED (M/MIN)	MODEL	TRACK GAUGE (MM)	MASS (KG)															
															L1	L2	L3	L4												
3T	2 T	4/1	4M	6	3	1.25-5	0.37	5-20	CLH 03 02 04 V 06 4M	375	-	-	-	-	-	-	-													
				9					CLH 03 02 04 V 09 4M	405																				
				12					CLH 03 02 04 V 12 4M	435																				
	2.5 T		3M	6					CLH 03 2.5 04 V 06 3M	375								-	-	-	-	-	-	-	-	-	-	-	-	
				9					CLH 03 2.5 04 V 09 3M	405																				
				12					CLH 03 2.5 04 V 12 3M	435																				
	3 T		2M	6					CLH 03 03 04 V 06 2M	375								-	-	-	-	-	-	-	-	-	-	-	-	-
				9					CLH 03 03 04 V 09 2M	405																				
				12					CLH 03 03 04 V 12 2M	435																				
5T	3 T	4/1	3M	6	4	1-4	0.37	5-20	CLH 05 03 04 V 06 3M	480	2 x 0.37	5-20	CLHD 05 03 04 V 06 3M	L1	640	-	-	-												
				9					CLH 05 03 04 V 09 3M	520			L1, L2	660	670	-	-													
				12					CLH 05 03 04 V 12 3M	560			L2	-	690	-	-													
	5 T		2M	6					CLH 05 05 04 V 06 2M	480			-	-	-	-	-	-	-	-	-	-	-	-	-					
				9					CLH 05 05 04 V 09 2M	520																L1, L2	660	670	-	-
				12					CLH 05 05 04 V 12 2M	560																L2	-	690	-	-
	7.5T		5 T	4/1					4M	6			7.5	1.2-4.7	0.55	5-20	CLH 7.5 05 04 V 06 4M	925	2 x 0.55	5-20	CLHD 7.5 05 04 V 06 4M	L1, L2	915	930	-	-				
										9							CLH 7.5 05 04 V 09 4M	975			L2, L3	-	955	980	-					
										12							CLH 7.5 05 04 V 12 4M	1025			L3	-	-	1005	-					
6 T		3M	6		CLH 7.5 06 04 V 06 3M	925	-	-	-	-	-	-					-	-			-	-	-	-	-					
			9		CLH 7.5 06 04 V 09 3M	975																				L1, L2	915	930	-	-
			12		CLH 7.5 06 04 V 12 3M	1025																				L2, L3	-	955	980	-
7.5 T		2M	6		CLH 7.5 7.5 04 V 06 2M	925	-	-	-	-	-	-					-	-			-	-	-	-	-					
			9		CLH 7.5 7.5 04 V 09 2M	975																				L1, L2	915	930	-	-
			12		CLH 7.5 7.5 04 V 12 2M	1025																				L2, L3	-	955	980	-
10T		8 T	4/1		3M	6	9.2	1.2-4.7	0.75	5-20	CLH 10 08 04 V 06 3M	950					2 x 0.55	5-20			CLHD 10 08 04 V 06 3M	L1, L2	940	955	-	-				
						9					CLH 10 08 04 V 09 3M	1000									L2, L3	-	980	1005	-					
						12					CLH 10 08 04 V 12 3M	1050									L3	-	-	1030	-					
	10 T	2M		6	CLH 10 10 04 V 06 2M	950					-	-	-	-	-	-			-	-	-	-	-	-	-					
				9	CLH 10 10 04 V 09 2M	1000																				L1, L2	940	955	-	-
				12	CLH 10 10 04 V 12 2M	1050																				L2, L3	-	980	1005	-
	16T	10 T		4/1	4M	8					11	1.2-4.7	-	-	-	-			2 x 0.75	5-20	CLHD 16 10 04 V 08 4M	L2	-	1620	-	-				
						12									CLHD 16 10 04 V 12 4M	L3					-	-	1720	-						
						16									CLHD 16 10 04 V 16 4M	L4					-	-	-	1825	-					
12.5 T		3M	8		15	CLHD 16 12.5 04 V 08 3M	L2	-	1620	-	-				-	-	-	-			-	-	-							
			12			CLHD 16 12.5 04 V 12 3M	L3	-	-	1720	-																			
			16			CLHD 16 12.5 04 V 16 3M	L4	-	-	-	1825													-						
16 T		2M	8		CLHD 16 16 04 V 08 2M	L2	-	1620	-	-	-				-	-	-	-			-	-	-	-						
			12		CLHD 16 16 04 V 12 2M	L3	-	-	1720	-																				
			16		CLHD 16 16 04 V 16 2M	L4	-	-	-	1825															-					

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PRODUCT RANGE

WIRE ROPE HOIST - RX-SERIES MODELS*

WIRE ROPE HOIST - RX-SERIES MODELS*																											
HOIST						MONORAIL				CRAB																	
WORKING LOAD	FALL	FEM	LIFT HEIGHT (M)	HOIST MOTOR POWER (KW)	HOIST LIFTING SPEED (M/MIN)	CT MOTOR POWER (KW)	CT SPEED (M/MIN)	MODEL	MASS (KG)	CT MOTOR POWER (KW)	CT SPEED (M/MIN)	MODEL	TRACK GAUGE (MM)	MASS (KG)													
														L1	L2	L3	L4										
														1250	1400	1800	2240										
1.6 T	4/1	4M	6	3	2-7.5	0.37	5-20	CLX 03 1.6 04 V 06 4M	375																		
			9					CLX 03 1.6 04 V 09 4M	405																		
			12					CLX 03 1.6 04 V 12 4M	435																		
2 T	4/1	4M	6	3	1.5-6	0.37	5-20	CLX 03 02 04 V 06 4M	375																		
			9					CLX 03 02 04 V 09 4M	405																		
			12					CLX 03 02 04 V 12 4M	435																		
		3M	6	3	2-7.5	0.37	5-20	CLX 03 02 04 V 06 3M	375																		
			9					CLX 03 02 04 V 09 3M	405																		
			12					CLX 03 02 04 V 12 3M	435																		
2.5 T	2/1	4M	12	9.2	3.8-15	0.55	5-20	CLX 10 2.5 02 V 12 4M	930	2 x 0.55	5-20	CLXD 10 2.5 02 V 12 4M	L1, L2	920	935	-	-										
			18					CLX 10 2.5 02 V 18 4M	980			L2, L3	-	960	985	-											
			24					CLX 10 2.5 02 V 24 4M	1030			L3	-	-	1010	-											
		2M	12	4	2-8	0.37	5-20	CLX 05 2.5 02 V 12 2M	445			2 x 0.37	5-20	CLXD 05 2.5 02 V 12 2M	L1	605	-	-	-								
			18					CLX 05 2.5 02 V 18 2M	485					L1, L2	625	635	-	-									
			24					CLX 05 2.5 02 V 24 2M	525					L2	-	655	-	-									
	4/1	4M	6	4	2-8	0.37	5-20	CLX 05 2.5 04 V 06 4M	480	2 x 0.37	5-20			CLXD 05 2.5 04 V 06 4M	L1	640	-	-	-								
			9					CLX 05 2.5 04 V 09 4M	520					L1, L2	660	670	-	-									
			12					CLX 05 2.5 04 V 12 4M	560					L2	-	690	-	-									
		3M	6	3	1.5-6	0.37	5-20	CLX 03 2.5 04 V 06 3M	375			-	-	-	-	-	-	-	-	-							
			9					CLX 03 2.5 04 V 09 3M	405																		
			12					CLX 03 2.5 04 V 12 3M	435																		
	3 T	2/1	3M	12	9.2	3.8-15	0.55	5-20	CLX 10 03 02 V 12 3M	930	2 x 0.55										5-20	CLXD 10 03 02 V 12 3M	L1, L2	920	935	-	-
				18					CLX 10 03 02 V 18 3M	980												L2, L3	-	960	985	-	
				24					CLX 10 03 02 V 24 3M	1030												L3	-	-	1010	-	
		4/1	3M	6	4	1.5-6	0.37	5-20	CLX 05 03 04 V 06 3M	480		2 x 0.37	5-20	CLXD 05 03 04 V 06 3M	L1	640	-	-	-								
				9					CLX 05 03 04 V 09 3M	520				L1, L2	660	670	-	-									
				12					CLX 05 03 04 V 12 3M	560				L2	-	690	-	-									
5 T	2/1	2M	12	9.2	2.4-9.4	0.55	5-20	CLX 10 05 02 V 12 2M	930	2 x 0.55	5-20			CLXD 10 05 02 V 12 2M	L1, L2	920	935	-	-								
			18					CLX 10 05 02 V 18 2M	980					L2, L3	-	960	985	-									
			24					CLX 10 05 02 V 24 2M	1030					L3	-	-	1010	-									
	4/1	4M	6	7.5	2-7.5	0.55	5-20	CLX 7.5 05 04 V 06 4M	925			2 x 0.55	5-20	CLXD 7.5 05 04 V 06 4M	L1, L2	915	930	-	-								
			9					CLX 7.5 05 04 V 09 4M	975					L2, L3	-	955	980	-									
			12					CLX 7.5 05 04 V 12 4M	1025					L3	-	-	1005	-									
6 T	4/1	3M	6	7.5	1.5-5.8	0.55	5-20	CLX 7.5 06 04 V 06 3M	925	2 x 0.55	5-20			CLXD 7.5 06 04 V 06 3M	L1, L2	915	930	-	-								
			9					CLX 7.5 06 04 V 09 3M	975					L2, L3	-	955	980	-									
			12					CLX 7.5 06 04 V 12 3M	1025					L3	-	-	1005	-									
6.3 T	4/1	3M	6	9.2	2-7.5	0.55	5-20	CLX 10 6.3 04 V 06 3M	950	2 x 0.55	5-20	CLXD 10 6.3 04 V 06 3M	L1, L2	940	955	-	-										
			9					CLX 10 6.3 04 V 09 3M	1000			L2, L3	-	980	1005	-											
			12					CLX 10 6.3 04 V 12 3M	1050			L3	-	-	1030	-											
8 T	2/1	2M	16	15	2.4-9.4					2 x 0.75	5-20	CLXD 16 08 02 V 16 2M	L2	-	1620	-	-										
			24									CLXD 16 08 02 V 24 2M	L3	-	-	1720	-										
			32									CLXD 16 08 02 V 32 2M	L4	-	-	-	1825										
	4/1	3M	6	9.2	1.5-5.8	0.55	5-20	CLX 10 08 04 V 06 3M	950	2 x 0.55	5-20	CLXD 10 08 04 V 06 3M	L1, L2	940	955	-	-										
			9					CLX 10 08 04 V 09 3M	1000			L2, L3	-	980	1005	-											
			12					CLX 10 08 04 V 12 3M	1050			L3	-	-	1030	-											

* MODELS AVAILABLE ON REQUEST

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PRODUCT RANGE

WIRE ROPE HOIST - CACR MODELS*																				
HOIST							MONORAIL			CRAB			TRACK GAUGE							
WORKING LOAD	FEM	FALL	LIFT HEIGHT (m)	VFD	HOIST MOTOR POWER (KW)	HOIST LIFTING SPEED (M/MIN)	CT MOTOR POWER (KW)	CT SPEED (M/MIN)	MODEL	CT MOTOR POWER (KW)	CT SPEED (M/MIN)	MODEL	1250	1400	1800	2240				
12.5 T	2	2m	16	Yes	30	2.4-10	-	-	-	1.1	5-20	CACR 25 12.5 02 V 16 1770	-	L2	L3	-				
			24						CACR 25 12.5 02 V 24 1770			-	-	L3	L4					
			32						CACR 25 12.5 02 V 32 1770			-	-	-	L4					
		16	CACR 25 12.5 02 V 16 1960						-			L2	L3	-						
		24	CACR 25 12.5 02 V 24 1960						-			-	L3	L4						
		32	CACR 25 12.5 02 V 32 1960						-			-	-	L4						
16 T	2	2m	16	Yes	30	2.4-9	-	-	-	1.5	5-20	CACR 25 16 02 V 16 1960	-	L2	L3	-				
			24						CACR 25 16 02 V 24 1960			-	-	L3	L4					
			32						CACR 25 16 02 V 32 1960			-	-	-	L4					
20 T	4	2m	8	Yes	22	1.2-5	-	-	-	1.5	5-20	CACR 16 20 04 V 08 1960	L1	L2	-	-				
			12						CACR 16 20 04 V 12 1960			-	L2	L3	-					
			16						CACR 16 20 04 V 16 1960			-	-	L3	L4					
			8						CACR 25 20 04 V 08 1770			-	L2	L3	-					
			12						CACR 25 20 04 V 12 1770			-	-	L3	L4					
			16						CACR 25 20 04 V 16 1770			-	-	-	L4					
	3m	8	CACR 25 20 04 V 08 1960		-	L2	L3	-												
		12	CACR 25 20 04 V 12 1960		-	-	L3	L4												
		16	CACR 25 20 04 V 16 1960		-	-	-	L4												
	6	2m	5		18.5	0.85-3.5	-	-	-			-	-	-	-	CACR 16 20 06 V 05 1770	L1	L2	-	-
			8						CACR 16 20 06 V 08 1770							-	L2	L3	-	
			10						CACR 16 20 06 V 10 1770							-	-	L3	L4	
			8						CACR 16 20 06 V 08 1960							-	L2	L3	-	
			10						CACR 16 20 06 V 10 1960							-	-	L3	L4	
			10						CACR 16 20 06 V 10 1770							-	-	L3	L4	
25 T	4	2m	8	Yes	30	1.2-4.8	-	-	-	2.2	5-20	CACR 25 25 04 V 08 1770	-	L2	L3	-				
			12						CACR 25 25 04 V 12 1770			-	-	L3	L4					
			16						CACR 25 25 04 V 16 1770			-	-	-	L4					
			8						CACR 25 25 04 V 08 1960			-	L2	L3	-					
			12						CACR 25 25 04 V 12 1960			-	-	L3	L4					
			16						CACR 25 25 04 V 16 1960			-	-	-	L4					
	3m	5	CACR 16 25 06 V 05 1770		L1	L2	-	-												
		8	CACR 16 25 06 V 08 1770		-	L2	L3	-												
		10	CACR 16 25 06 V 10 1770		-	-	L3	L4												
	6	2m	5		18.5	0.85-3.5	-	-	-			-	-	-	-	CACR 16 25 06 V 05 1960	L1	L2	-	-
			8						CACR 16 25 06 V 08 1960							-	L2	L3	-	
			10						CACR 16 25 06 V 10 1960							-	-	L3	L4	
			5						CACR 16 25 06 V 05 1770							L1	L2	-	-	
			8						CACR 16 25 06 V 08 1770							-	L2	L3	-	
			10						CACR 16 25 06 V 10 1770							-	-	L3	L4	
32 T	4	2m	8	Yes	30	1.2-4.8	-	-	-	2.2	5-20	CACR 25 32 04 V 08 1960	-	L2	L3	-				
			12						CACR 25 32 04 V 12 1960			-	-	L3	L4					
			16						CACR 25 32 04 V 16 1960			-	-	-	L4					
			5						CACR 25 32 06 V 05 1770			-	L2	L3	-					
			8						CACR 25 32 06 V 08 1770			-	-	L3	L4					
	6	3m	10		22	0.8-3.5	-	-	-			-	-	-	-	CACR 25 32 06 V 10 1770	-	-	-	L4
			5						CACR 25 32 06 V 05 1960							-	L2	L3	-	
			8						CACR 25 32 06 V 08 1960							-	-	L3	L4	
			10						CACR 25 32 06 V 10 1960							-	-	-	L4	
			10						CACR 25 32 06 V 10 1770							-	-	-	L4	
40 T	6	1Am	5	Yes	30	0.8-3.5	-	-	-	3	5-20	CACR 25 40 06 V 05 1770	-	L2	L3	-				
			8						CACR 25 40 06 V 08 1770			-	-	L3	L4					
			10						CACR 25 40 06 V 10 1770			-	-	-	L4					
	5	CACR 25 40 06 V 05 1960	-						L2			L3	-							
	8	CACR 25 40 06 V 08 1960	-						-			L3	L4							
	10	CACR 25 40 06 V 10 1960	-						-			-	L4							
50 T	8	2m	6	Yes	30	0.6-2.5	-	-	-	3	5-20	CACR 25 50 08 V 06 1770	-	-	L3	L4				
			8						CACR 25 50 08 V 08 1770			-	-	-	L4					
	6	CACR 25 50 08 V 06 1960	-						-			L3	L4							
	8	CACR 25 50 08 V 08 1960	-						-			-	L4							

*MODELS AVAILABLE ON REQUEST

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PRODUCT RANGE

WIRE ROPE HOIST - MOLTEN METAL HANDLING MODEL*																			
HOIST							MONORAIL			CRAB			TRACK GAUGE						
WORKING LOAD	FEM	FALL	LIFT HEIGHT (M)	VFD	HOIST MOTOR POWER (KW)	HOIST LIFTING SPEED (M/MIN)	CT MOTOR POWER (KW)	CT SPEED (M/MIN)	MODEL	CT MOTOR POWER (KW)	CT SPEED (M/MIN)	MODEL	1250	1400	1800	2240			
2 T	5m	4	6	NO	2.8/0.7	5/1.25	0.37/0.07	20/6.6	CARH 05 02 04 06 1960	0.37/0.09	20/5	CACRH 05 02 04 06 1960	L1	L2	-	-			
			12						CARH 05 02 04 12 1960			-	L2	L3	-				
2.5 T	5m	4	6	NO	5.5/1.3	5/1.26	0.55/0.18	20/6.6	CARH 10 2.5 04 06 1770	0.55/0.12	20/5	CACRH 10 2.5 04 06 1770	L1	L2	-	-			
			12						CARH 10 2.5 04 12 1770			-	L2	L3	-				
3 T	5m	4	6	NO	5.5/1.3	5/1.25	0.55/0.18	20/6.6	CARH 10 03 04 06 1960	0.55/0.12	20/5	CACRH 10 03 04 06 1960	L1	L2	-	-			
			12						CARH 10 03 04 12 1960			-	L2	L3	-				
			6						CARH 10 03 04 06 1770			L1	L2	-	-				
	4m	12	CARH 10 03 04 12 1770				-		L2	L3		-							
		6	CARH 05 03 04 06 1960				L1		L2	-		-							
		12	CARH 05 03 04 12 1960				-		L2	L3		-							
4 T	5m	4	6	NO	5.5/1.3	5/1.26	0.55/0.18	20/6.6	CARH 10 04 04 06 1960	0.55/0.12	20/5	CACRH 10 04 04 06 1960	L1	L2	-	-			
			12						CARH 10 04 04 12 1960			-	L2	L3	-				
	4m		6						CARH 10 04 04 06 1770			L1	L2	-	-				
			12						CARH 10 04 04 12 1770			-	L2	L3	-				
5 T	5m	4	8	NO	7.3/1.8	5.1/1.27	-	-	-	1.1/0.25	20/5	CACRH 16 05 04 08 1960	L1	L2	-	-			
			12						-			-	L2	L3	-				
			16						-			-	-	L3	L4				
	4m		6			CARH 10 05 04 06 1960			L1	L2		-	-						
			12			CARH 10 05 04 12 1960			-	L2		L3	-						
			8			CARH 10 05 04 06 1770			L1	L2		-	-						
6.3 T	5m	4	8	NO	10/2.5	5.1/1.27	-	-	-	1.1/0.25	20/5	CACRH 16 6.3 04 08 1960	L1	L2	-	-			
			12						-			-	L2	L3	-				
			16						-			-	-	L3	L4				
	4m		6			CARH 10 6.3 04 06 1960			L1	L2		-	-						
			12			CARH 10 6.3 04 12 1960			-	L2		L3	-						
			8			CARH 10 6.3 04 06 1770			L1	L2		-	-						
8 T	5m	6	5	NO	10/2.5	3.4/0.85	-	-	-	1.6/0.4	20/5	CACRH 16 08 06 05 1960	L1	L2	-	-			
			8						-			-	L2	L3	-				
			10						-			-	-	L3	L4				
	4m		8			CARH 16 08 04 08 1960			L1	L2		-	-						
			12			CARH 16 08 04 12 1960			-	L2		L3	-						
			16			CARH 16 08 04 16 1960			-	-		L3	L4						
10 T	5m	4	8	NO	16/4	4.82/1.2	-	-	-	1.6/0.4	20/5	CACRH 25 10 04 08 1960	-	L2	L3	-			
			12						-			-	-	L3	L4				
			16						-			-	-	-	L4				
	4m		8		CARH 16 10 04 08 1960	L1			L2	-		-							
			12		CARH 16 10 04 12 1960	-			L2	L3		-							
			16		CARH 16 10 04 16 1960	-			-	L3		L4							
12.5 T	4m	4	8	NO	19/4.8	4.82/1.2	-	-	-	1.6/0.4	20/5	CACRH 25 12.5 04 08 1960	-	L2	L3	-			
			12						-			-	-	L3	L4				
			16						-			-	-	-	L4				
	5m		6		5	13.2/3			3.21/0.8	-		-	-	2.2/0.5	CACRH 25 12.5 06 05 1960	-	L2	L3	-
					8								-		-	-	L3	L4	
					10								-		-	-	-	L4	
	4m	6	5	3.4/0.85	-	-	-	1.6/0.4	CACRH 16 12.5 06 05 1960	L1		L2	-	-					
			8				-		-	L2		L3	-						
			10				-		-	-		L3	L4						
			12				-		-	-		-	L4						
15 T	5m	6	5	NO	16/4	3.21/0.8	-	-	-	2.2/0.5	20/5	CACRH 25 15 06 05 1960	-	L2	L3	-			
			8						-			-	-	L3	L4				
			10						-			-	-	-	L4				
	4m		5			3.4/0.85			-	-		-	1.6/0.4	CACRH 16 15 06 05 1960	L1	L2	-	-	
			8									-		-	L2	L3	-		
10	-	-	-	-	L3	L4													
20 T	4m	6	5	NO	19/4.8	3.21/0.8	-	-	-	2.2/0.5	20/5	CACRH 25 20 06 05 1960	-	L2	L3	-			
			8						-			-	-	L3	L4				
			10						-			-	-	-	L4				
24 T	4m	6	5	NO	24/6	3.21/0.8	-	-	-	3/0.8	20/5	CACRH 25 24 06 05 1960	-	L2	L3	-			
			8						-			-	-	L3	L4				
			10						-			-	-	-	L4				
32T	4m	8	6	NO	24/6	2.41/0.6	-	-	-	3/0.8	20/5	CACRH 25 32 08 06 1960	-	-	L3	L4			
			8						-			-	-	-	L4				

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