

# 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 Private 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

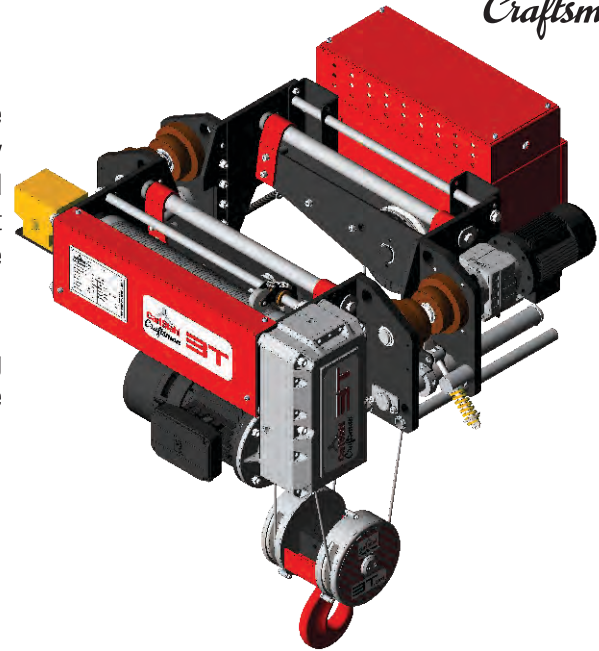
- OPTIMAL SPACE UTILIZATION
- HIGH SAFETY IN OPERATION
- GENTLE WORK
- LOW INSTALLATION AND MAINTENANCE COST
- EFFICIENT & ECONOMICAL OPERATION

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.

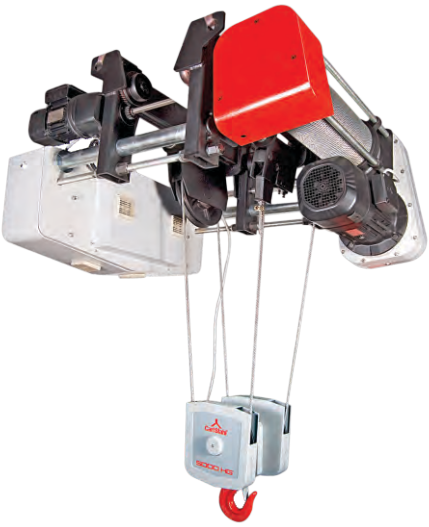

# MODELS

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)	ROPE REEVING	MONORAIL	CRAB
CUR	2000	2/1	✓	
CLH	10000	2/1, 4/1	✓	
CAR / CACR 03	4000	2/1, 4/1	✓	✓
CAR / CACR 05	6300	2/1, 4/1	✓	✓
CAR / CACR 10	12500	2/1, 4/1, 6/1	✓	✓
CACR 16	25000	2/1, 4/1, 6/1		✓
CACR 25	50000	2/1, 4/1, 6/1, 8/1		✓



# DESIGN & MANUFACTURING





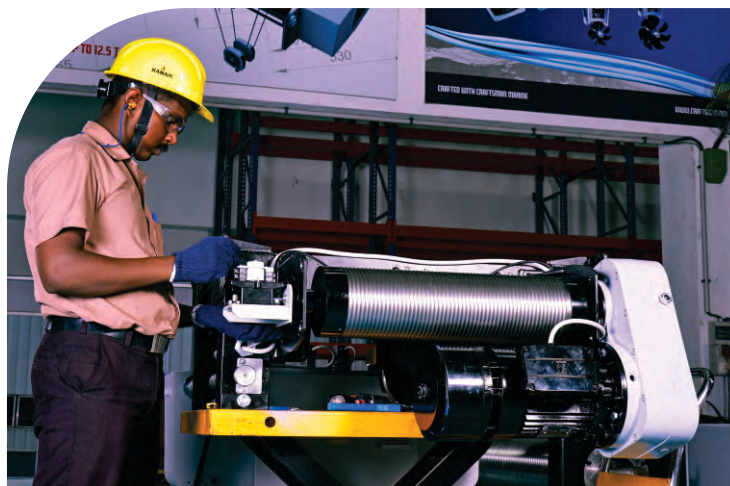
# Craftsman

AUTOMATION

## ENGINEERING ADVANTAGE

Craftsman Automation Private Limited is a Coimbatore based company which was established in the year 1986, registered a sales turnover in 2014-2015 of over ₹750 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

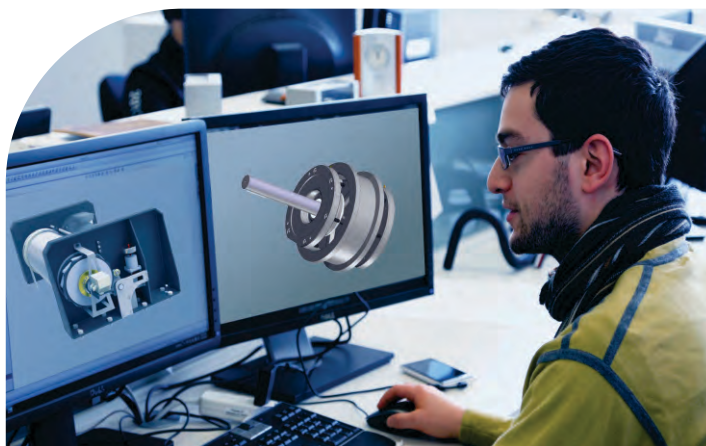
Years of operation: Since 1986  
 Employees: 2000  
 Location: 11 Units  
 Turnover 2014-2015: over ₹750 Crores  
 Certification by: DIN EN ISO TS 16949, DIN EN ISO 14001



Carl Stahl started out in 1880 as a small rope maker specializing in agricultural products serving only local customers.

Today it has become a global enterprise with 1490 employees operating from 60 subsidiaries in Europe, North and South America, Asia and Middle East.

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

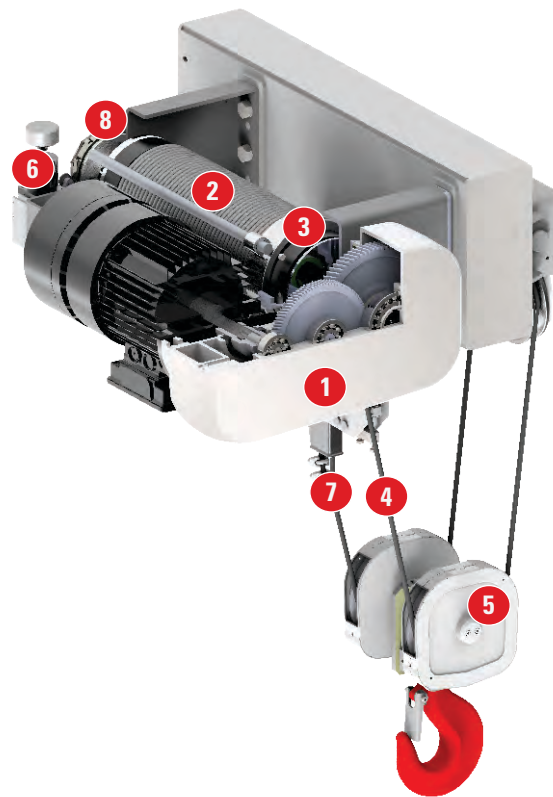
Years of operation: Since 1880  
 Employees: 1490  
 Location: 60 Units  
 Turnover 2013: 297 Million € / over ₹2000 Crores  
 Certification by: DIN EN ISO 9001, DIN EN ISO 14001

# 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

- Hollow shaft gearbox directly drives the drum shaft.
- Case hardened and Precision ground gears for smooth running and long life.
- Gears permanently immersed in 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.



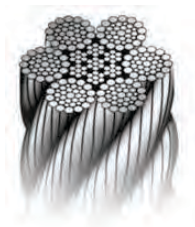
### 3 ROPE GUIDE

- 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

- Premium 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 OVERLOAD PROTECTOR

- 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 ROPE DRUM BRAKE (OPTIONAL)

- 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.



# OPTIONS

## 1 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.

## 2 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.

## 3 WHEELS



- 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 bearings are used for very high life.

## 4 PENDANT STATIONS



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

## 5 RADIO REMOTE CONTROL UNIT



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

## 6 VARIABLE FREQUENCY DRIVE

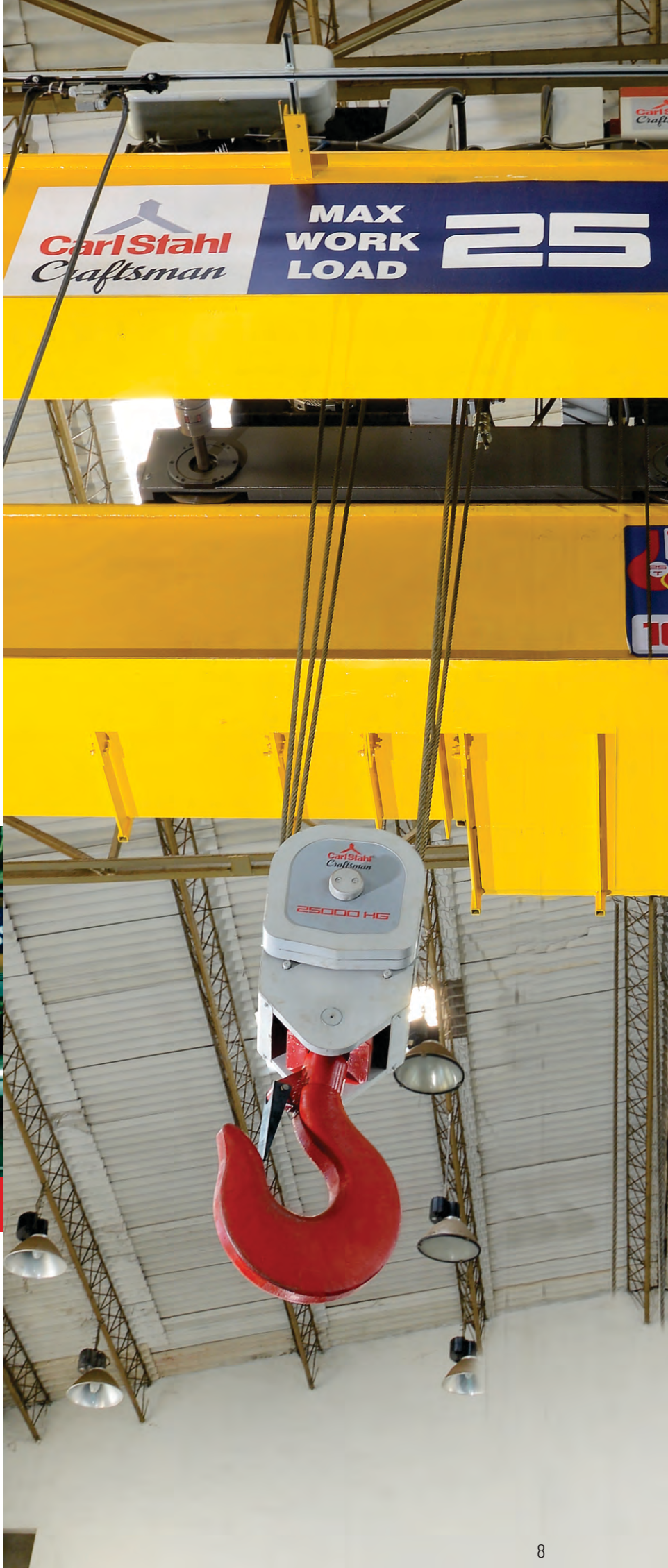


- Variable frequency drives being optimized with the hoist application to have a smoother and safer operation of the cranes with flexibility of variable speeds match the application.





**LIFT & CONNECT SAFELY**





# BASIC TECHNICAL SPECIFICATIONS

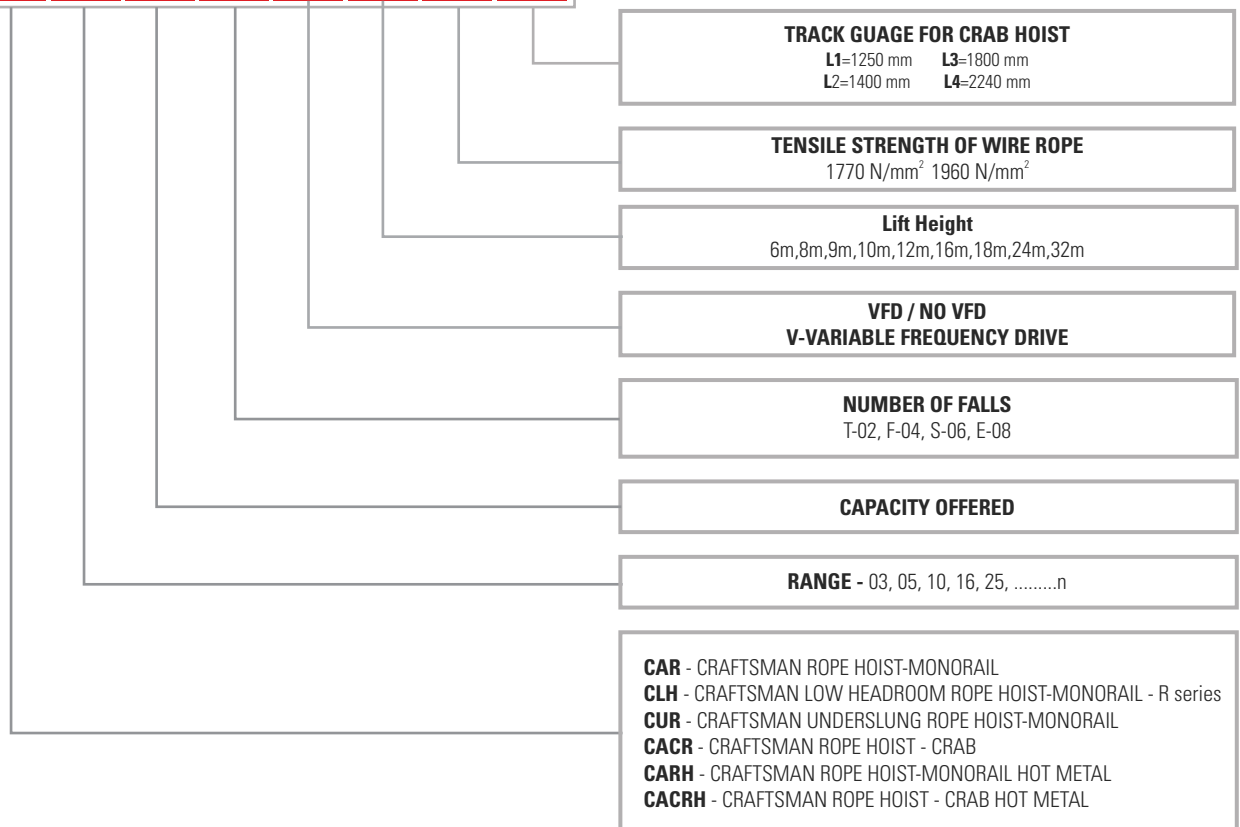
TECHNICAL SPECIFICATION FOR WIRE ROPE HOIST		
	MONORAIL HOIST	CRAB HOIST
<b>GIRDER</b>	Single	Double Girder
<b>REEVING</b>	2/1, 4/1, 6/1	2/1, 4/1, 6/1, 8/1
<b>CT WHEEL DIA</b>	100, 140 mm	125, 160, 200, 315, 400 mm
<b>HEIGHT OF CLEAR LIFT</b>	6-32 Meter	
<b>LIFTING SPEED FAST/SLOW</b>	10/2, 5/1.25, 3.75/0.87, 6/2 m/min contactor controlled	
	1-4, 1-5, 2-6, 2-8, 2-10 m/min Frequency controlled	
<b>CROSS TRAVEL SPEED</b>	20/5 m/min contactor controlled	
	5-20 m/min Frequency controlled	
<b>CLASS OF DUTY</b>	Fem Class - 1AM, 2M, 3M, 4M & 5M	
<b>AMBIENT TEMP</b>	50°C Max	
<b>APPLICATION</b>	Indoor	
<b>POWER SUPPLY</b>	415Volts, 3 Phase, 50 Hz, AC Supply	
<b>CONTROL SUPPLY</b>	48 Volts, 50 Hz, AC Supply Contactor controlled	
	24 Volts, 50 Hz, DC Supply Frequency controlled	

TECHNICAL SPECIFICATION FOR WIRE ROPE HOIST		
	MONORAIL HOIST	CRAB HOIST
<b>RUNWAY BEAM</b>	ISMB 100-500	
<b>TRACK GAUGE</b>	1250, 1400, 1800, 2240 mm	
<b>WHEELS</b>	SG700/2 wheels of suitable dia hardened to 200-250BHN	
<b>ROPE DIA</b>	6, 8, 10, 14, 18, 22 mm	
<b>ROPE CONSTRUCTION</b>	6x36 – 1770 / 1960 N/mm <sup>2</sup>	
<b>GEAR BOX</b>	Fem Class - 1AM, 2M, 3M, 4M	
<b>ROPE DRUM</b>	Seamless pipe rope drum grooved as per DIN 15061	
<b>HOOK</b>	Single shank Swiveling type hook mounted on Anti-frictional thrust bearing as per DIN15400	
<b>BEARINGS</b>	Anti-friction ball / roller bearings - Make: SKF/FAG/KOYO	
<b>PAINTINGS</b>	Powder coated with RAL 3020 Traffic Red & RAL 7040 Window Grey. All colors from RAL chart	
<b>LIFTING MOTOR</b>	4/16, Pole Contactor controlled	
	4 Pole Frequency controlled	

TECHNICAL SPECIFICATION FOR WIRE ROPE HOIST		
	MONORAIL HOIST	CRAB HOIST
<b>CT MOTOR</b>	2 Pole / 4-Pole –Monorail hoist	
	2-Pole –Crab hoist	
<b>THERMAL INSULATION CLASS</b>	F – Class	
<b>MOTOR ENCLOSURE</b>	IP 55	
<b>BRAKE TYPE</b>	Electromagnetic Disc Brake - AC /DC	
SPECIAL FEATURES		
1	Rotary limit Switch for over travel with dual protection	
2	Over Load Protection - Mechanical with Disc Springs & Limit Switch. ( Optional with Load Transducers)	
3	Plug In Connectors for Motors and Input Supply	
4	High factor of Safety Gear Box.	
5	Additional safety with Mechanical drum brake for protection against drive failures. (Optional)	

## PRODUCT CODE

**CAR 05 05 04 V 12 1770 L2**

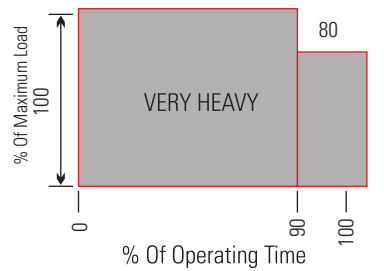
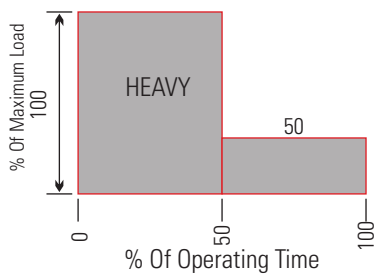
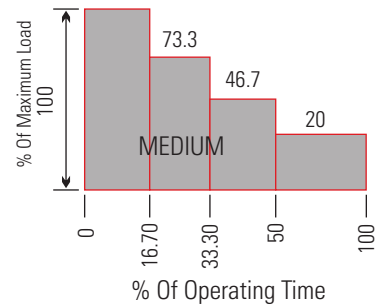
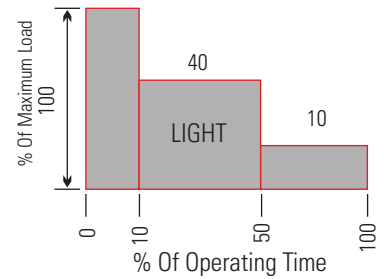


# HOIST CLASSIFICATION & SELECTION

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				
<b>L1</b>	Light	2-4	4-8	8-16	over 16	
<b>L2</b>	Medium	1-2	2-4	4-8	8-16	over 16
<b>L3</b>	Heavy	0.5-1	1-2	2-4	4-8	8-16
<b>L4</b>	Very Heavy	0.25-0.5	0.5-1	1-2	2-4	4-8
Group of mechanisms to FEM 9511		<b>1Am</b>	<b>2m</b>	<b>3m</b>	<b>4m</b>	<b>5m</b>
<b>Working Load Limit</b>		<b>Product Range</b>				
<b>Normal Hoist</b>						
<b>2/1</b>	<b>4/1</b>	<b>6/1</b>	<b>8/1</b>	<b>1Am / M4</b>	<b>2m / M5</b>	<b>3m / M6</b>
1T						CAR 03-1770 CAR 03-1960
1.6T					CAR 03-1770	CAR 03-1960
	1.6T					CLH 03-1960
2T					CAR 03-1960 CACR 03-1960	CAR 05-1960 CACR 05-1960
	2T					CLH 03-1960 CLH 05-1960
2.5T					CAR 05-1770 CACR 05-1770 CLH 05-1960	CAR 05-1960 CACR 05-1960
	2.5T					CLH 10-1960
3T						CAR 03-1770 CACR 03-1770 CLH 03-1960
	3T					CAR 03-1960 CACR 03-1960 CLH 05-1960
3.2T					CAR 05-1960 CACR 05-1960	
	3.2T				CAR 03-1770 CACR 03-1770	CAR 03-1960 CACR 03-1960
4T					CAR 03-1960 CACR 03-1960	CAR 05-1770 CACR 05-1770
	4T					CAR 05-1960 CACR 05-1960
5T					CAR 10-1770 CACR 10-1770 CLH 10-1960	CAR 10-1960 CACR 10-1960
	5T				CAR 05-1770 CACR 05-1770 CLH 05-1960	CAR 05-1960 CACR 05-1960
6.3T					CAR 10-1960 CACR 10-1960	
	6.3T				CAR 05-1960 CACR 05-1960	CLH 10-1960
						CAR 10-1960 CACR 10-1960



## 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.

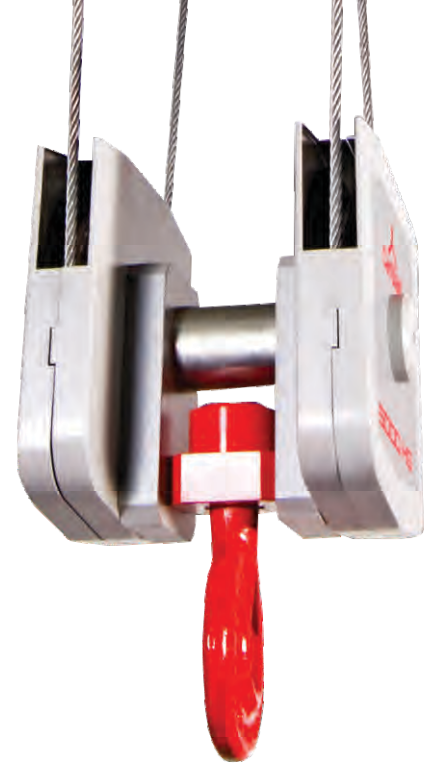
The average operating time per working day is estimated or calculated as follows:

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

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



Working Load Limit				Product Range				
Normal Hoist								
2/1	4/1	6/1	8/1	1Am	2m	3m	4m	5m
8T					CACR 16-1770	CACR 16-1960		
	8T				CAR 10-1770 CACR 10-1770	CAR 10-1960 CACR 10-1960 CLH 10-1960		
10T					CACR 16-1960			
	10T				CAR 10-1770 CACR 10-1770 CLH 10-1960	CAR 10-1960 CACR 10-1960		
12.5T					CACR 25-1770	CACR 25-1960		
	12.5T				CAR 10-1960 CACR 10-1960 CACR 16-1770	CACR 16-1960		
		12.5T			CAR 10-1770 CACR 10-1770			
16T					CACR 25-1960			
	16T				CACR 16-1770	CACR 16-1960		
	20T				CACR 16-1960 CACR 25-1960	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		
SINGLE GIRDER MONORAIL-UNDERSLUNG								
2/1	4/1	6/1	8/1	1Am	2m	3m	4m	5m
0.5T						CUR 01-1770	CUR 01-1960	
0.8T					CUR 01-1770	CUR 01-1960		
1T					CUR 01-1960 CUR 02-1770	CUR 02-1960		
1.6					CUR 02-1960			
2T					CUR 02-1960			
MOLTEN METAL HOIST								
2/1	4/1	6/1	8/1	1Am	2m	3m	4m	5m
	1T							CARH 03-1770 CACRH 03-1770
	1.6T						CARH 03-1770 CACRH 03-1770	CARH 03-1960 CACRH 03-1960
	2T						CARH 03-1960 CACRH 03-1960	CARH 05-1960 CACRH 05-1960
	2.5T						CARH 03-1960 CACRH 03-1960	CARH 10-1770 CACRH 10-1770
	3.2T						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
		5T						CARH 10-1960 CACRH 10-1960
	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 25-1960
	12.5T						CACRH 25-1960	
		15T					CACRH 16-1960	CACRH 25-1960
	16T						CACRH-25-1960	
		20T					CACRH 25-1960	
		24T					CACRH 25-1960	
			32T				CACRH 25-1960	



# PRODUCT RANGE

HOIST						MONORAIL				CRAB															
WORKING LOAD LIMIT	FALL	FEM	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)	TRACK GAUGE (MM)													
												MODEL	1250	1400	1800	2240									
1T	2	3m	12	NO	2.8/0.7	10/2.5	0.25/0.05	20/6.6	CAR 03 01 02 12 1770	-	-	-	-	-	-										
			24						CAR 03 01 02 24 1770	-		-	-	-											
		4m	12						CAR 03 01 02 12 1960	-		-	-	-											
			24						CAR 03 01 02 24 1960	-		-	-	-											
1.6T	2	2m	12	NO	4/1.1	10/2.5	0.25/0.05	20/6.6	CAR 03 1.6 02 12 1770	-	-	-	-	-	-										
			24						CAR 03 1.6 02 24 1770	-		-	-	-											
			12						CAR 03 1.6 02 V 12 1770	-		-	-	-											
			24						CAR 03 1.6 02 V 24 1770	-		-	-	-											
		3m	NO	4/1.1	10/2.5	0.25/0.05	20/6.6	CAR 03 1.6 02 12 1960	-	-	-	-	-	-	-										
								24	CAR 03 1.6 02 24 1960		-	-	-	-											
			YES	4 Max	2-10	0.25	5-20	CAR 03 1.6 02 V 12 1960	-		-	-	-	-											
								24	CAR 03 1.6 02 V 24 1960		-	-	-	-											
		2T	2	2m	12	YES	4 Max	2-8	0.25	5-20	CAR 03 02 02 V 12 1960	0.37	5-20	CACR 03 02 02 V 12 1960	L1	L2	-	-							
					24						CAR 03 02 02 V 24 1960			-	L2	L3	-								
					4m						NO			5.5/1.3	10/2.5	0.37/0.07	20/6.6	CAR 05 02 02 12 1960	0.37/0.09	20/5	CACR 05 02 02 12 1960	L1	L2	-	-
																		24			CAR 05 02 02 24 1960	-	L2	L3	-
YES	5.5			2-10	0.37	5-20	CAR 05 02 02 V 12 1960	-	-	-	-														
							24	CAR 05 02 02 V 24 1960	-	L2	L3	-													
2.5T	2			2m	12	NO	5.5/1.3	10/2.5	0.37/0.07	20/6.6	CAR 05 2.5 02 12 1770	0.37/0.09	20/5	CACR 05 2.5 02 12 1770	L1	L2	-	-							
					24						CAR 05 2.5 02 24 1770			-	L2	L3	-								
					12						CAR 05 2.5 02 V 12 1770			0.37	5-20	CACR 05 2.5 02 V 12 1770	L1	L2	-	-					
					24						CAR 05 2.5 02 V 24 1770					-	L2	L3	-						
				3m	NO	5.5/1.3	10/2.5	0.37/0.07	20/6.6	CAR 05 2.5 02 12 1960	0.37/0.09	20/5	CACR 05 2.5 02 12 1960			L1	L2	-	-						
										24			CAR 05 2.5 02 24 1960			-	L2	L3	-						
		YES	5.5		2-10	0.37	5-20	CAR 05 2.5 02 V 12 1960	-	-			-	-											
								24	CAR 05 2.5 02 V 24 1960	-			L2	L3	-										
		4	3m	NO	2.8/0.7	5/1.25	0.25/0.05	20/6.6	CAR 03 2.5 04 06 1770	0.37/0.09	20/5	CACR 03 2.5 04 06 1770	L1	L2	-	-									
									12			CAR 03 2.5 04 12 1770	-	L2	L3	-									
				YES	4 Max	2-6	0.25	5-20	CAR 03 2.5 04 V 06 1770			-	-	-	-										
									12			CAR 03 2.5 04 V 12 1770	-	L2	L3	-									
4m	NO		2.8/0.7	5/1.25	0.25/0.05	20/6.6	CAR 03 2.5 04 06 1960	0.37/0.09	20/5	CACR 03 2.5 04 06 1960	L1	L2	-	-											
							12			CAR 03 2.5 04 12 1960	-	L2	L3	-											
	YES		4 Max	2-6	0.25	5-20	CAR 03 2.5 04 V 06 1960			-	-	-	-												
							12			CAR 03 2.5 04 V 12 1960	-	L2	L3	-											
3.2T	2	2m	12	YES	5.5	2-8	0.37	5-20	CAR 05 3.2 02 V 12 1960	0.37	5-20	CACR 05 3.2 02 V 12 1960	L1	L2	-	-									
			24						CAR 05 3.2 02 V 24 1960			-	L2	L3	-										
			6						CACR 03 3.2 04 V 06 1770			L1	L2	-	-										
		12	CAR 03 3.2 04 V 12 1770						-			L2	L3	-											
		4	NO						4/1.1			5/1.25	0.37/0.07	20/6.6	CAR 03 3.2 04 06 1770	0.37/0.09	20/5	CACR 03 3.2 04 06 1770	L1	L2	-	-			
															12			CAR 03 3.2 04 12 1770	-	L2	L3	-			
	6			CAR 03 3.2 04 V 06 1960	L1	L2	-	-																	
	12	CAR 03 3.2 04 V 12 1960	-	L2	L3	-																			
	3m	YES	4 Max	1-5	0.37	5-20	CAR 03 3.2 04 06 1960	0.37	5-20	CACR 03 3.2 04 06 1960	L1	L2	-	-											
							12			CAR 03 3.2 04 V 12 1960	-	L2	L3	-											
							6			CAR 03 3.2 04 V 06 1960	L1	L2	-	-											
		12	CAR 03 3.2 04 V 12 1960	-	L2	L3	-																		
NO		4/1.1	5/1.25	0.37/0.07	20/6.6	CAR 03 3.2 04 06 1960	0.37/0.09			20/5	CACR 03 3.2 04 06 1960	L1	L2	-	-										
						12					CAR 03 3.2 04 12 1960	-	L2	L3	-										
	6					CAR 03 3.2 04 V 06 1960		L1	L2		-	-													
4T	4	2m	6	YES	4 Max	1-4		0.37	5-20		CAR 03 04 04 V 06 1960	0.37	5-20	CACR 03 04 04 V 06 1960	L1	L2	-	-							
			12								CAR 03 04 04 V 12 1960			-	L2	L3	-								
			3m								NO			4/1.1	5/1.25	0.37/0.07	20/6.6	CAR 05 04 04 06 1770	0.37/0.09	20/5	CACR 05 04 04 06 1770	L1	L2	-	-
							12			CAR 05 04 04 12 1770								-			L2	L3	-		
		YES	5.5	1-5	0.37	5-20	CAR 05 04 04 V 06 1770	-	-	-	-														
							12	CAR 05 04 04 V 12 1770	-	L2	L3	-													
		4m	NO	4/1.1	5/1.25	0.37/0.07	20/6.6	CAR 05 04 04 06 1960	0.37/0.09	20/5	CACR 05 04 04 06 1960	L1	L2	-	-										
								12			CAR 05 04 04 12 1960	-	L2	L3	-										
			YES	5.5	1-5	0.37	5-20	CAR 05 04 04 V 06 1960			-	-	-	-											
								12			CAR 05 04 04 V 12 1960	-	L2	L3	-										



# PRODUCT RANGE

HOIST						MONORAIL				CRAB									
WORKING LOAD LIMIT	FALL	FEM	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)	TRACK GAUGE (MM)							
												MODEL	1250	1400	1800	2240			
5T	2	2m	12	NO	10/2.5	10/2.5	0.55/0.18	20/6.6	CAR 10 05 02 12 1770	0.55/0.12	20/5	CACR 10 05 02 12 1770	L1	L2	-	-			
			24						CAR 10 05 02 24 1770			CACR 10 05 02 24 1770	-	L2	L3	-			
			12						CAR 10 05 02 V 12 1770			CACR 10 05 02 V 12 1770	L1	L2	-	-			
		3m	24	YES	11	2-10	0.55	5-20	-	CAR 10 05 02 V 24 1770	0.55	5-20	CACR 10 05 02 V 24 1770	-	L2	L3	-		
										12			CAR 10 05 02 12 1960	CACR 10 05 02 12 1960	L1	L2	-	-	
										24			CAR 10 05 02 24 1960	CACR 10 05 02 24 1960	-	L2	L3	-	
	4		2m	NO	5.5/1.3	5/1.25	0.37/0.07	20/6.6	-	CAR 05 05 04 06 1770	0.55/0.12	20/5	CACR 05 05 04 06 1770	L1	L2	-	-		
										12			CAR 05 05 04 12 1770	CACR 05 05 04 12 1770	-	L2	L3	-	
										6			CAR 05 05 04 V 06 1770	CACR 05 05 04 V 06 1770	L1	L2	-	-	
		3m	24	YES	5.5	1-5	0.37	5-20	-	CAR 05 05 04 V 12 1770	0.55	5-20	CACR 05 05 04 V 12 1770	-	L2	L3	-		
										6			CAR 05 05 04 06 1960	CACR 05 05 04 06 1960	L1	L2	-	-	
										12			CAR 05 05 04 12 1960	CACR 05 05 04 12 1960	-	L2	L3	-	
	4		2m	NO	5.5/1.3	5/1.25	0.37/0.07	20/6.6	-	CAR 05 05 04 V 06 1960	0.55/0.12	20/5	CACR 05 05 04 V 06 1960	L1	L2	-	-		
										12			CAR 05 05 04 12 1960	CACR 05 05 04 12 1960	-	L2	L3	-	
										6			CAR 05 05 04 V 06 1960	CACR 05 05 04 V 06 1960	L1	L2	-	-	
		3m	24	YES	5.5	1-5	0.37	5-20	-	CAR 05 05 04 V 12 1960	0.55	5-20	CACR 05 05 04 V 12 1960	-	L2	L3	-		
										6			CAR 05 05 04 06 1960	CACR 05 05 04 06 1960	L1	L2	-	-	
										12			CAR 05 05 04 12 1960	CACR 05 05 04 12 1960	-	L2	L3	-	
	6.3T		2	2m	12	YES	11	2-8	0.55	5-20	CAR 10 6.3 02 V 12 1960	0.55	5-20	CACR 10 6.3 02 V 12 1960	L1	L2	-	-	
					24						CAR 10 6.3 02 V 24 1960			CACR 10 6.3 02 V 24 1960	-	L2	L3	-	
					6						CAR 05 6.3 04 V 06 1960			CACR 05 6.3 04 V 06 1960	L1	L2	-	-	
		4		2m	YES	5.5	1-4	0.55	5-20	-	CAR 05 6.3 04 V 12 1960	0.55	5-20	CACR 05 6.3 04 V 12 1960	-	L2	L3	-	
											6			CAR 10 6.3 04 06 1960	CACR 10 6.3 04 06 1960	L1	L2	-	-
											12			CAR 10 6.3 04 12 1960	CACR 10 6.3 04 12 1960	-	L2	L3	-
3m			24	NO	10/2.5	5/1.25	0.55/0.18	20/6.6	-	CAR 10 6.3 04 V 06 1960	0.55/0.12	20/5	CACR 10 6.3 04 V 06 1960	L1	L2	-	-		
										6			CAR 10 6.3 04 12 1960	CACR 10 6.3 04 12 1960	-	L2	L3	-	
										12			CAR 10 6.3 04 V 06 1960	CACR 10 6.3 04 V 06 1960	L1	L2	-	-	
		4	2m	YES	11	1-6	0.55	5-20	-	CAR 10 6.3 04 V 12 1960	0.55	5-20	CACR 10 6.3 04 V 12 1960	-	L2	L3	-		
										6			CAR 10 6.3 04 06 1960	CACR 10 6.3 04 06 1960	L1	L2	-	-	
										12			CAR 10 6.3 04 12 1960	CACR 10 6.3 04 12 1960	-	L2	L3	-	
8T			2	2m	16	NO	16/4	10/2.5	-	-	-	0.55/0.12	20/5	CACR 16 08 02 16 1770	L1	L2	-	-	
					24						CACR 16 08 02 24 1770			-	L2	L3	-		
					32						CACR 16 08 02 32 1770			-	-	L3	L4		
		16			CACR 16 08 02 V 16 1770						L1			L2	-	-			
		24			CACR 16 08 02 V 24 1770						-			L2	L3	-			
		32			CACR 16 08 02 V 32 1770						-			-	L3	L4			
		3m		24	NO	16/4	10/2.5	-	-	-	-	0.55/0.12	20/5	CACR 16 08 02 16 1960	L1	L2	-	-	
											6			CACR 16 08 02 24 1960	-	L2	L3	-	
											32			CACR 16 08 02 32 1960	-	-	L3	L4	
				16	CACR 16 08 02 V 16 1960	L1	L2	-	-										
				24	CACR 16 08 02 V 24 1960	-	L2	L3	-										
				32	CACR 16 08 02 V 32 1960	-	-	L3	L4										
	4	2m	NO	10/2.5	5/1.25	0.55/0.18	20/6.6	-	CAR 10 08 04 06 1770	0.55/0.12	20/5	CACR 10 08 04 06 1770	L1	L2	-	-			
									12			CAR 10 08 04 12 1770	CACR 10 08 04 12 1770	-	L2	L3	-		
									6			CAR 10 08 04 V 06 1770	CACR 10 08 04 V 06 1770	L1	L2	-	-		
			12	CAR 10 08 04 V 12 1770	CACR 10 08 04 V 12 1770	-	L2	L3	-										
			6	CAR 10 08 04 06 1960	CACR 10 08 04 06 1960	L1	L2	-	-										
			12	CAR 10 08 04 12 1960	CACR 10 08 04 12 1960	-	L2	L3	-										
		3m	24	NO	10/2.5	5/1.25	0.55/0.18	20/6.6	-	CAR 10 08 04 V 06 1960	0.55/0.12	20/5	CACR 10 08 04 V 06 1960	L1	L2	-	-		
										6			CAR 10 08 04 12 1960	CACR 10 08 04 12 1960	-	L2	L3	-	
										12			CAR 10 08 04 V 06 1960	CACR 10 08 04 V 06 1960	L1	L2	-	-	
			6	CAR 10 08 04 V 12 1960	CACR 10 08 04 V 12 1960	-	L2	L3	-										
			12	CAR 10 08 04 06 1960	CACR 10 08 04 06 1960	L1	L2	-	-										
			32	CAR 10 08 04 12 1960	CACR 10 08 04 12 1960	-	L2	L3	-										
10T	2	2m	16	YES	18.5	2-8	-	-	-	0.75	5-20	CACR 16 10 02 V 16 1960	L1	L2	-	-			
			24						CACR 16 10 02 V 24 1960			-	L2	L3	-				
			32						CACR 16 10 02 V 32 1960			-	-	L3	L4				
		6	CAR 10 10 04 06 1770						CACR 10 10 04 06 1770			L1	L2	-	-				
		12	CAR 10 10 04 12 1770						CACR 10 10 04 12 1770			-	L2	L3	-				
		6	CAR 10 10 04 V 06 1770						CACR 10 10 04 V 06 1770			L1	L2	-	-				
	4	2m	YES	11	1-5	0.75	5-20	-	CAR 10 10 04 V 12 1770	0.75	5-20	CACR 10 10 04 V 12 1770	-	L2	L3	-			
									6			CAR 10 10 04 06 1960	CACR 10 10 04 06 1960	L1	L2	-	-		
									12			CAR 10 10 04 12 1960	CACR 10 10 04 12 1960	-	L2	L3	-		
		3m	NO	10/2.5	5/1.25	0.75/0.22	20/6.6	-	CAR 10 10 04 06 1960			0.75/0.18	20/5	CACR 10 10 04 06 1960	L1	L2	-	-	
									6					CAR 10 10 04 12 1960	CACR 10 10 04 12 1960	-	L2	L3	-
									12					CAR 10 10 04 V 06 1960	CACR 10 10 04 V 06 1960	L1	L2	-	-
4	YES	11	1-5	0.75	5-20	-	CAR 10 10 04 V 12 1960	0.75	5-20	CACR 10 10 04 V 12 1960	-			L2	L3	-			
							6			CAR 10 10 04 06 1960	CACR 10 10 04 06 1960			L1	L2	-	-		
							12			CAR 10 10 04 12 1960	CACR 10 10 04 12 1960			-	L2	L3	-		

# PRODUCT RANGE

HOIST						MONORAIL				CRAB														
WORKING LOAD LIMIT	FALL	FEM	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)	TRACK GAUGE (MM)												
												MODEL	1250	1400	1800	2240								
12.5T	2	2m	16	YES	22	2-8	-	-	-	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	NO					24/6			8/2	-	-	-	1.1/0.25	20/5	CACR 25 12.5 02 16 1770	-	L2	L3	-		
			24												CACR 25 12.5 02 24 1770			-	-	L3	L4			
			32												CACR 25 12.5 02 32 1770			-	-	-	L4			
		16	YES	22	2-8	-	-	-		1.1	5-20				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	NO					24/6	8/2			-	-	-	1.1/0.25	20/5	CACR 25 12.5 02 16 1960	-	L2	L3	-			
		24												CACR 25 12.5 02 24 1960			-	-	L3	L4				
		32												CACR 25 12.5 02 32 1960			-	-	-	L4				
	4	2m	6	YES	11	1-4	0.75			5-20	CAR 10 12.5 04 V 06 1960			1.1			5-20	CACR 10 12.5 04 V 06 1960	L1	L2	-	-		
			12								CAR 10 12.5 04 V 12 1960							-	L2	L3	-			
			8								-							-	-	-				
			12	YES				15	1-5		-	-	-		1.1	5-20		CACR 16 12.5 04 V 08 1770	L1	L2	-	-		
			16										CACR 16 12.5 04 V 12 1770					-	L2	L3	-			
			8										-					-	-	-				
		12	NO	13.2/3	5/1.25	-	-			-			1.1/0.25	20/5			CACR 16 12.5 04 08 1770	L1	L2	-	-			
		16								CACR 16 12.5 04 12 1770							-	L2	L3	-				
		8								CACR 16 12.5 04 16 1770							-	-	L3	L4				
		3m	8					YES	15	1-5	-	-			-	1.1	5-20	CACR 16 12.5 04 V 08 1960	L1	L2	-	-		
			12												CACR 16 12.5 04 V 12 1960			-	L2	L3	-			
			16												CACR 16 12.5 04 V 16 1960			-	-	L3	L4			
8	NO		13.2/3	5/1.25	-	-	-	1.1/0.25					20/5	CACR 16 12.5 04 08 1960	L1			L2	-	-				
12							CACR 16 12.5 04 12 1960							-	L2			L3	-					
16							CACR 16 12.5 04 16 1960							-	-			L3	L4					
6	2m	8					NO		10/2.5	3.75/0.87	0.75/0.22	20/6.6		CAR 10 12.5 06 08 1770	1.1/0.25	20/5	CACR 10 12.5 06 08 1770	-	L2	L3	-			
16T	2	2m					16		YES	22	2-6	-		-	-	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																
		4	2m	8	YES	18.5	1-5	-	-				-		1.5			5-20	CACR 16 16 04 V 08 1770	L1	L2	-	-	
				12									CACR 16 16 04 V 12 1770						-	L2	L3	-		
				16									CACR 16 16 04 V 16 1770						-	-	L3	L4		
	4	2m		8	NO					16/4	5/1.25	-	-	-		1.1/0.25	20/5		CACR 16 16 04 08 1770	L1	L2	-	-	
				12										CACR 16 16 04 12 1770					-	L2	L3	-		
				16										CACR 16 16 04 16 1770					-	-	L3	L4		
	3m		2m	8	YES	18.5	1-5	-	-					-	1.5			5-20	CACR 16 16 04 V 08 1960	L1	L2	-	-	
				12										CACR 16 16 04 V 12 1960					-	L2	L3	-		
				16										CACR 16 16 04 V 16 1960					-	-	L3	L4		
	4	2m		8	NO					16/4	5/1.25	-	-	-		1.1/0.25	20/5		CACR 16 16 04 08 1960	L1	L2	-	-	
				12										CACR 16 16 04 12 1960					-	L2	L3	-		
				16										CACR 16 16 04 16 1960					-	-	L3	L4		
	20T		4	2m	8	YES	18.5	1-4	-					-	-			1.5	5-20	CACR 25 20 04 V 08 1960	L1	L2	-	-
					12										CACR 25 20 04 V 12 1960					-	L2	L3	-	
					16										CACR 25 20 04 V 16 1960					-	-	L3	L4	
4		2m			8	NO				19/4.8	4/1	-	-		-	1.6/0.4	20/5			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				2m	8	YES	18.5	1-4	-					-	-			1.5	5-20	CACR 25 20 04 08 1960	-	L2	L3	-
					12										CACR 25 20 04 12 1960					-	-	L3	L4	
					16										CACR 25 20 04 16 1960					-	-	-	L4	
4		2m			8	NO				19/4.8	4/1	-	-		-	1.6/0.4	20/5			CACR 25 20 04 08 1960	-	L2	L3	-
					12										CACR 25 20 04 12 1960					-	-	L3	L4	
					16										CACR 25 20 04 16 1960					-	-	-	L4	
6			2m	5	NO	16/4	3.75/0.87	-	-					-	1.5			20/5	CACR 16 20 06 05 1770	L1	L2	-	-	
				8										CACR 16 20 06 08 1770					-	L2	L3	-		
				10										CACR 16 20 06 10 1770					-	-	L3	L4		



# PRODUCT RANGE

HOIST						MONORAIL				CRAB													
WORKING LOAD LIMIT	FALL	FEM	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)	TRACK GAUGE (MM)											
												MODEL	1250	1400	1800	2240							
25T	4	2m	8	NO	24/6	4/1	-	-	-	2.2/0.5	20/5	CACR 25 25 04 08 1770	-	L2	L3	-							
			12						CACR 25 25 04 12 1770			-	-	L3	L4								
			16						CACR 25 25 04 16 1770			-	-	-	L4								
			8						YES			22	1-4	-	-	-	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	
		3m	8	NO	24/6	4/1	-	-	-	2.2/0.5	20/5	CACR 25 25 04 08 1960	-	L2	L3	-							
			12						CACR 25 25 04 12 1960			-	-	L3	L4								
			16						CACR 25 25 04 16 1960			-	-	-	L4								
			8						YES			22	1-4	-	-	-	2.2	5-20	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	
	6	2m	5	YES	18.5	1-3.5	-	-	-	1.5	5-20	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								
		5	3m						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								
32T	4	2m	8	YES	22	1-3	-	-	-	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						NO			24/6	3/0.75	-	-	-	2.2/0.5	20/5	CACR 25 32 06 05 1770	-	L2	L3	-
			8													CACR 25 32 06 08 1770			-	-	L3	L4	
			10													CACR 25 32 06 10 1770			-	-	-	L4	
	6	2m	5	YES	22	0.75-3	-	-	-	2.2	5-20	CACR 25 32 06 V 05 1770	-	L2	L3	-							
			8						CACR 25 32 06 V 08 1770			-	-	L3	L4								
			10						CACR 25 32 06 V 10 1770			-	-	-	L4								
		3m	5	NO	24/6	3/0.75	-	-	-	2.2/0.5	20/5	CACR 25 32 06 05 1960	-	L2	L3	-							
			8						CACR 25 32 06 08 1960			-	-	L3	L4								
			10						CACR 25 32 06 10 1960			-	-	-	L4								
	5		YES						22			0.75-3	-	-	-	2.2	5-20	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		
	40T	6	1Am	5	NO	24/6	3/0.75	-	-	-	3/0.8	20/5	CACR 25 40 06 05 1770	-	L2	L3	-						
				8						CACR 25 40 06 08 1770			-	-	L3	L4							
				10						CACR 25 40 06 10 1770			-	-	-	L4							
5				YES						22			0.5-2.5	-	-	-	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	
2m			5	NO	24/6	3/0.75	-	-	-	3/0.8	20/5	CACR 25 40 06 05 1960	-	L2	L3	-							
			8						CACR 25 40 06 08 1960			-	-	L3	L4								
			10						CACR 25 40 06 10 1960			-	-	-	L4								
			5						YES			22	0.5-2.5	-	-	-	3	5-20	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	
8		2m	6	NO	24/6	2.5/0.5	-	-	-	3/0.8	20/5	CACR 25 50 08 06 1770	-	-	L3	L4							
			8						CACR 25 50 08 08 1770			-	-	-	L4								
			6						YES			22	0.5-2	-	-	-	3	5-20	CACR 25 50 08 V 06 1770	-	-	L3	L4
		8	CACR 25 50 08 V 08 1770	-	-	-	L4																
		6	NO	24/6	2.5/0.5	-	-	-		3/0.8	20/5					CACR 25 50 08 06 1960			-	-	L3	L4	
		8						CACR 25 50 08 08 1960	-			-	-	L4									
6	YES	22						0.5-2	-			-	-	3	5-20	CACR 25 50 08 V 06 1960	-	-	L3	L4			
8			CACR 25 50 08 V 08 1960	-	-	-	L4																

# PRODUCT RANGE

MOLTEN METAL APPLICATION																
HOIST					MONORAIL				CRAB							
WORKING LOAD LIMIT	FEM	FALL	LIFT HEIGHT (m)	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)	TRACK GAUGE (MM)					
											MODEL	1250	1400	1800	2240	
1T	5m	4	6	2.8/0.7	5/1.25	0.25/0.05	20/6.6	CARH 03 01 04 06 1770	0.37/0.09	20/5	CACRH 03 01 04 06 1960	L1	L2	-	-	
			12					CARH 03 01 04 12 1770			CACRH 03 01 04 12 1770	-	L2	L3	-	
1.6T	5m	4	6	2.8/0.7	5/1.25	0.25/0.05	20/6.6	CARH 03 1.6 04 06 1960	0.37/0.09	20/5	CACRH 03 1.6 04 06 1960	L1	L2	-	-	
			12					CARH 03 1.6 04 12 1960			CACRH 03 1.6 04 12 1960	-	L2	L3	-	
	6		CARH 03 1.6 04 06 1960					CACRH 03 1.6 04 06 1770			L1	L2	-	-		
	12		CARH 03 1.6 04 12 1770					CACRH 03 1.6 04 12 1770			-	L2	L3	-		
2T	5m	4	6	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			CACRH 05 02 04 12 1960	-	L2	L3	-	
	6		CARH 03 02 04 06 1960					CACRH 03 02 04 06 1960			L1	L2	-	-		
	12		CARH 03 02 04 12 1960					CACRH 03 02 04 12 1960			-	L2	L3	-		
2.5T	5m	4	6	5.5/1.3	5/1.25	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			CACRH 10 2.5 04 12 1770	-	L2	L3	-	
	4m		6	4/1.1				0.37/0.07	CARH 03 2.5 04 06 1960		0.37/0.09	CACRH 03 2.5 04 06 1960	L1	L2	-	-
			12						CARH 03 2.5 04 12 1960			CACRH 03 2.5 04 12 1960	-	L2	L3	-
3.2T	5m	4	6	5.5/1.3	5/1.25	0.55/0.18	20/6.6	CARH 10 3.2 04 06 1960	0.55/0.12	20/5	CACRH 10 3.2 04 06 1960	L1	L2	-	-	
			12					CARH 10 3.2 04 12 1960			CACRH 10 3.2 04 12 1960	-	L2	L3	-	
	6		CARH 10 3.2 04 06 1770					CACRH 10 3.2 04 06 1770			L1	L2	-	-		
	12		CARH 10 3.2 04 12 1770					CACRH 10 3.2 04 12 1770			-	L2	L3	-		
	4m		6					0.37/0.07	CARH 05 3.2 04 06 1960		0.37/0.09	CACRH 05 3.2 04 06 1960	L1	L2	-	-
			12						CARH 05 3.2 04 12 1960			CACRH 05 3.2 04 12 1960	-	L2	L3	-
4T	5m	4	6	7.3/1.8	5/1.25	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			CACRH 10 04 04 12 1960	-	L2	L3	-	
	4m		6	5.5/1.3				CARH 10 04 04 06 1770			0.55/0.12	CACRH 10 04 04 06 1770	L1	L2	-	-
			12					CARH 10 04 04 12 1770				CACRH 10 04 04 12 1770	-	L2	L3	-
5T	5m	4	8	7.3/1.8	5/1.25	-	-	-	1.1/0.25	20/5	CACRH 16 05 04 08 1960	L1	L2	-	-	
			12					-			CACRH 16 05 04 12 1960	-	L2	L3	-	
	16		-					CACRH 16 05 04 16 1960			-	-	L3	L4		
	6		CARH 10 05 04 06 1960					CACRH 10 05 04 06 1960			L1	L2	-	-		
	4m		12					CARH 10 05 04 12 1960	CACRH 10 05 04 12 1960		-	L2	L3	-		
			5m					6	5.5/1.3		3.3/0.83	CARH 10 05 06 08 1960	CACRH 10 05 06 08 1960	-	L2	L3
6.3T	5m	4	8	10/2.5	5/1.25	-	-	-	1.1/0.25	20/5	CACRH 16 6.3 04 08 1960	L1	L2	-	-	
			12					-			CACRH 16 6.3 04 12 1960	-	L2	L3	-	
	16		-					CACRH 16 6.3 04 16 1960			-	-	L3	L4		
	6		CARH 10 6.3 04 06 1960					CACRH 10 6.3 04 06 1960			L1	L2	-	-		
4m	12	0.75/0.22	20/6.6	CARH 10 6.3 04 12 1960	CACRH 10 6.3 04 12 1960	-	L2	L3	-							
	5m	6	10/2.5	3.75/0.87	-	-	-	1.6/0.4	20/5	CACRH 16 08 06 05 1960	L1	L2	-	-		
5m	8	10/2.5	3.75/0.87	-	-	-	CACRH 16 08 06 08 1960			-	L2	L3	-			
	10			-	-	-	CACRH 16 08 06 10 1960			-	-	L3	L4			
4m	4	8	13.2/3	5/1.25	-	-	-			1.1/0.25	CACRH 16 08 04 08 1960	L1	L2	-	-	
		12			-	-	-	CACRH 16 08 04 12 1960			-	L2	L3	-		
		16			-	-	-	CACRH 16 08 04 16 1960			-	-	L3	L4		
		5m			6	16/4	5/1.25	-	-		-	1.6/0.4	CACRH 25 10 04 08 1960	-	L2	L3
5m	4	12	16/4	5/1.25	-	-	-	CACRH 25 10 04 12 1960	-	-	L3		L4			
		16			-	-	-	CACRH 25 10 04 16 1960	-	-	-		L4			
4m		8			-	-	-	CACRH 16 10 04 08 1960	L1	L2	-		-			
		12			-	-	-	CACRH 16 10 04 12 1960	-	L2	L3	-				
16	-	-	-	CACRH 16 10 04 16 1960	-	-	L3	L4								

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# PRODUCT RANGE

MOLTEN METAL APPLICATION																
HOIST						MONORAIL				CRAB						
WORKING LOAD LIMIT	FEM	FALL	LIFT HEIGHT (m)	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)	TRACK GAUGE (MM)					
											MODEL	1250	1400	1800	2240	
12.5T	5m	6	5	13.2/3	3.3/0.83	-	-	-	2.2/0.5	20/5	CACRH 25 12.5 06 05 1960	-	L2	L3	-	
			8					-			-	L3	L4			
			10					-			-	-	L4			
			5					1.6/0.4			CACRH 16 12.5 06 05 1960	L1	L2	-	-	
			8								-	L2	L3	-		
			10								-	-	L3	L4		
	8	CACRH 25 12.5 04 08 1960	-	L2	L3	-										
	12	CACRH 25 12.5 04 12 1960	-	-	L3	L4										
	16	CACRH 25 12.5 04 16 1960	-	-	-	L4										
	15T	5m	6	5	16/4	3.3/0.83	-	-	-	2.2/0.5	20/5	CACRH 25 15 06 05 1960	-	L2	L3	-
				8					-			-	L3	L4		
				10					-			-	-	L4		
5		16/0.4		CACRH 16 15 06 05 1960					L1			L2	-	-		
8				-					L2			L3	-			
10				-					-			L3	L4			
16T	4m	4	8	24/6	5/1.25	-	-	-	1.6/0.4	20/5	CACRH 25 16 04 08 1960	-	L2	L3	-	
			12					-			-	L3	L4			
			16					-			-	-	L4			
20T	4m	6	5	24/6	3.3/0.83	-	-	-	2.2/0.5	20/5	CACRH 25 20 06 05 1960	-	L2	L3	-	
			8					-			-	L3	L4			
			10					-			-	-	L4			
24T	4m	6	5	24/6	3.3/0.83	-	-	-	3/0.8	20/5	CACRH 25 24 06 05 1960	-	L2	L3	-	
			8					-			-	L3	L4			
			10					-			-	-	L4			
32T	4m	8	6	24/6	2.5/0.63	-	-	-	3/0.8	20/5	CACRH 25 32 08 06 1960	-	-	L3	L4	
			8					-			-	-	L4			

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# PRODUCT RANGE

WIRE ROPE HOIST-SINGLE GIRDER-MONORAIL-A-SERIES															
HOIST						MONORAIL									
WORKING LOAD	FEM	FALL	LIFT HEIGHT (m)	HOIST MOTOR POWER (KW)	HOIST LIFTING SPEED (m/min)	CT MOTOR POWER (KW)	CT SPEED (m/min)	MODEL							
1.6T	4m	4/1	6	3	1.5-7.5	0.37	5-20	CLH 03 1.6 04 V 06 4M							
			9					CLH 03 1.6 04 V 09 4M							
			12					CLH 03 1.6 04 V 12 4M							
2T	4m	4/1	6	3	1.25-6	0.37	5-20	CLH 03 02 04 V 06 4M							
			9					CLH 03 02 04 V 09 4M							
			12					CLH 03 02 04 V 12 4M							
			6	4	1.6-8			CLH 05 02 04 V 06 4M							
			9					CLH 05 02 04 V 09 4M							
			12					CLH 05 02 04 V 12 4M							
	3m	4/1	6	3	1.5-7.5	CLH 03 02 04 V 06 3M									
			9			CLH 03 02 04 V 09 3M									
			12			CLH 03 02 04 V 12 3M									
2.5T	2m	2/1	12	4	1.6-8	0.37	5-20	CLH 05 2.5 02 V 12 2M							
			18					CLH 05 2.5 02 V 18 2M							
			24					CLH 05 2.5 02 V 24 2M							
			12	9.3	3-15			CLH 10 2.5 02 V 12 4M							
			18					CLH 10 2.5 02 V 18 4M							
			24					CLH 10 2.5 02 V 24 4M							
	4m	4/1	6	4	1.6-8	0.37	5-20	CLH 05 2.5 04 V 06 4M							
			9					CLH 05 2.5 04 V 09 4M							
			12					CLH 05 2.5 04 V 12 4M							
			3m	4/1	6			3	1.25-6	CLH 03 2.5 04 V 06 3M					
					9					CLH 03 2.5 04 V 09 3M					
					12					CLH 03 2.5 04 V 12 3M					
					3T			3m	2/1	12	9.3	3-15	0.55	5-20	CLH 10 03 02 V 12 3M
										18					CLH 10 03 02 V 18 3M
										24					CLH 10 03 02 V 24 3M
4/1	6	4	1.25-6	CLH 05 03 04 V 06 3M											
	9			CLH 05 03 04 V 09 3M											
	12			CLH 05 03 04 V 12 3M											
2m	4/1	6	3	1-5		CLH 03 03 04 V 06 2M									
		9				CLH 03 03 04 V 09 2M									
		12				CLH 03 03 04 V 12 2M									

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# PRODUCT RANGE

WIRE ROPE HOIST-SINGLE GIRDER-MONORAIL-A-SERIES								
HOIST						MONORAIL		
WORKING LOAD	FEM	FALL	LIFT HEIGHT (m)	HOIST MOTOR POWER (KW)	HOIST LIFTING SPEED (m/min)	CT MOTOR POWER (KW)	CT SPEED (m/min)	MODEL
5T	2m	2/1	12	9.3	1.8-9	0.55	5-20	CLH 10 05 02 V 12 2M
			18					CLH 10 05 02 V 18 2M
			24					CLH 10 05 02 V 24 2M
	4m	4/1	6		1.5-7.5	0.55		CLH 10 05 04 V 06 4M
			9					CLH 10 05 04 V 09 4M
			12					CLH 10 05 04 V 12 4M
	2m	4/1	6	4	1-4	0.37	CLH 05 05 04 V 06 2M	
			9				CLH 05 05 04 V 09 2M	
			12				CLH 05 05 04 V 12 2M	
6.3T	3m	4/1	6	9.3	1.5-7.5	0.55	5-20	CLH 10 6.3 04 V 06 3M
			9					CLH 10 6.3 04 V 09 3M
			12					CLH 10 6.3 04 V 12 3M
8T	3m	4/1	6	9.3	1.2-5.85	0.55	5-20	CLH 10 08 04 V 06 3M
			9					CLH 10 08 04 V 09 3M
			12					CLH 10 08 04 V 12 3M
10T	2m	4/1	6	9.3	1-4.7	0.75	5-20	CLH 10 10 04 V 06 2M
			9					CLH 10 10 04 V 09 2M
			12					CLH 10 10 04 V 12 2M

WIRE ROPE HOIST-SINGLE GIRDER-MONORAIL-UNDERSLUNG									
HOIST						MONORAIL			
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
0.5T	3m	2/1	6	NO	1.5/0.37	6/1.5	0.32/0.07	20/5	CUR 01 005 02 06 1770
				YES	1.5	1.2-6	0.32	5-20	CUR 01 005 02 V 06 1770
	4m			NO	1.5/0.37	6/1.5	0.32/0.07	20/5	CUR 01 005 02 06 1960
				YES	1.5	1.2-6	0.32	5-20	CUR 01 005 02 V 06 1960
0.8T	2m	2/1	6	NO	1.5/0.37	6/1.5	0.32/0.07	20/5	CUR 01 008 02 06 1770
				YES	1.5	1.2-6	0.32	5-20	CUR 01 008 02 V 06 1770
	3m			NO	1.5/0.37	6/1.5	0.32/0.07	20/5	CUR 01 008 02 06 1960
				YES	1.5	1.2-6	0.32	5-20	CUR 01 008 02 V 06 1960

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# PRODUCT RANGE

WIRE ROPE HOIST-SINGLE GIRDER-MONORAIL-UNDERSLUNG									
HOIST							MONORAIL		
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
1T	2m	2/1	6	NO	1.5/0.37	6/1.5	0.32/0.07	20/5	CUR 01 01 02 06 1960
				YES	1.5	1.2-6	0.32	5-20	CUR 01 01 02 V 06 1960
				NO	2.4/0.6	5/1.25	0.32/0.07	20/5	CUR 02 01 02 06 1770
				YES	2.4	1-5	0.32	5-20	CUR 02 01 02 V 06 1770
	3m			NO	2.4/0.6	5/1.25	0.32/0.07	20/5	CUR 02 01 02 06 1960
				YES	2.4	1-5	0.32	5-20	CUR 02 01 02 V 06 1960
1.6T	2m	2/1	6	NO	2.4/0.6	5/1.25	0.32/0.07	20/5	CUR 02 1.6 02 06 1960
				YES	2.4	1-5	0.32	5-20	CUR 02 1.6 02 V 06 1960
2T	2m	2/1	6	NO	2.4/0.6	5/1.25	0.32/0.07	20/5	CUR 02 02 02 06 1960
				YES	2.4	1-5	0.32	5-20	CUR 02 02 02 V 06 1960

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