



# WIRE ROPE HOIST

LIFT & CONNECT SAFELY

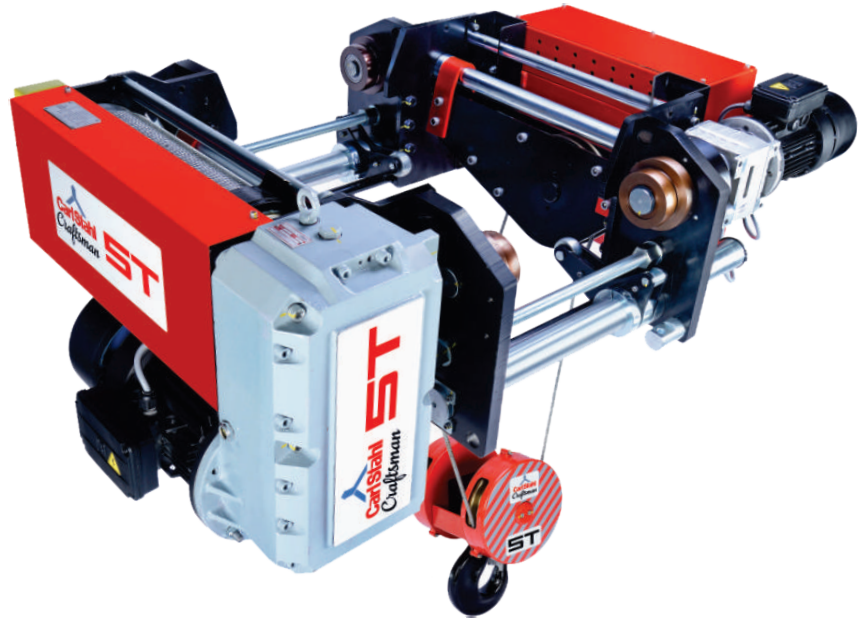
# INTRODUCTION

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

- CE CERTIFIED
- 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

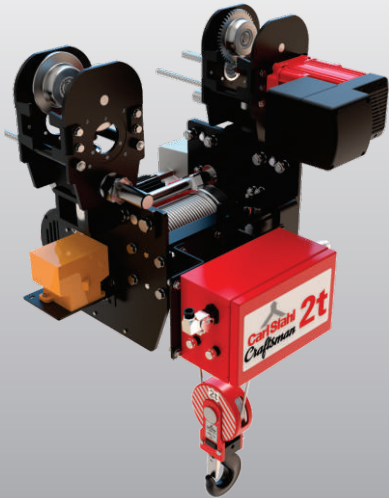


Carl Stahl Craftsman hoists are designed in various models to suit every customer's needs. We design and manufacture electric wire rope hoist which can run in monorail, underslung, double rail and in dual crab double rail.

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

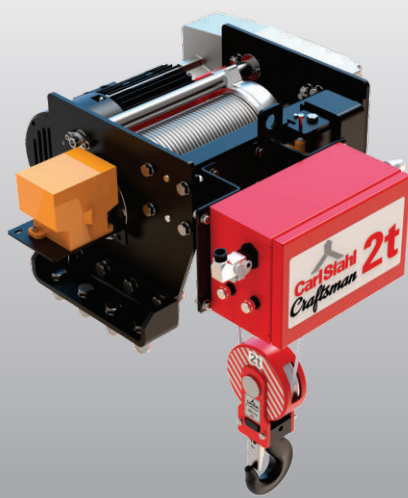
**PRODUCT:** UNDERSLUNG HOIST  
**TYPE:** ARTICULATED & STRAIGHT TROLLEY  
**MODEL:** CRU-A & CRU-S

**CAPACITY:** 0.5T TO 2T



**PRODUCT:** FIXED HOIST  
**TYPE:** STATIONARY  
**MODEL:** CRU-F

**CAPACITY:** 0.5T TO 2T



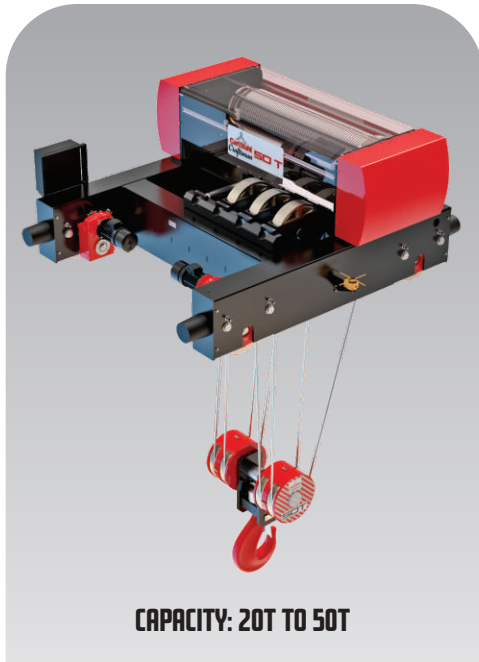
**PRODUCT:** SINGLE GIRDER MONORAIL  
**TYPE:** LOW HEADROOM HOIST  
**MODEL:** CLH-R (SERIES)

**CAPACITY:** 0.5T TO 10T



**CAPACITY:** 5T TO 16T

**PRODUCT:** DOUBLE GIRDER CRAB  
**TYPE:** LOW HEADROOM HOIST  
**MODEL:** CLHD-R (SERIES)



**CAPACITY:** 20T TO 50T

**PRODUCT:** DOUBLE GIRDER CRAB  
**TYPE:** HEAVY DUTY HOIST  
**MODEL:** CACR



**CAPACITY:** 10/5T, 16/7.5T & 16/10T

**PRODUCT:** DOUBLE GIRDER DOUBLE CRAB  
**TYPE:** LOW HEADROOM HOIST  
**MODEL:** CLHD

# BASIC TECHNICAL SPECIFICATIONS

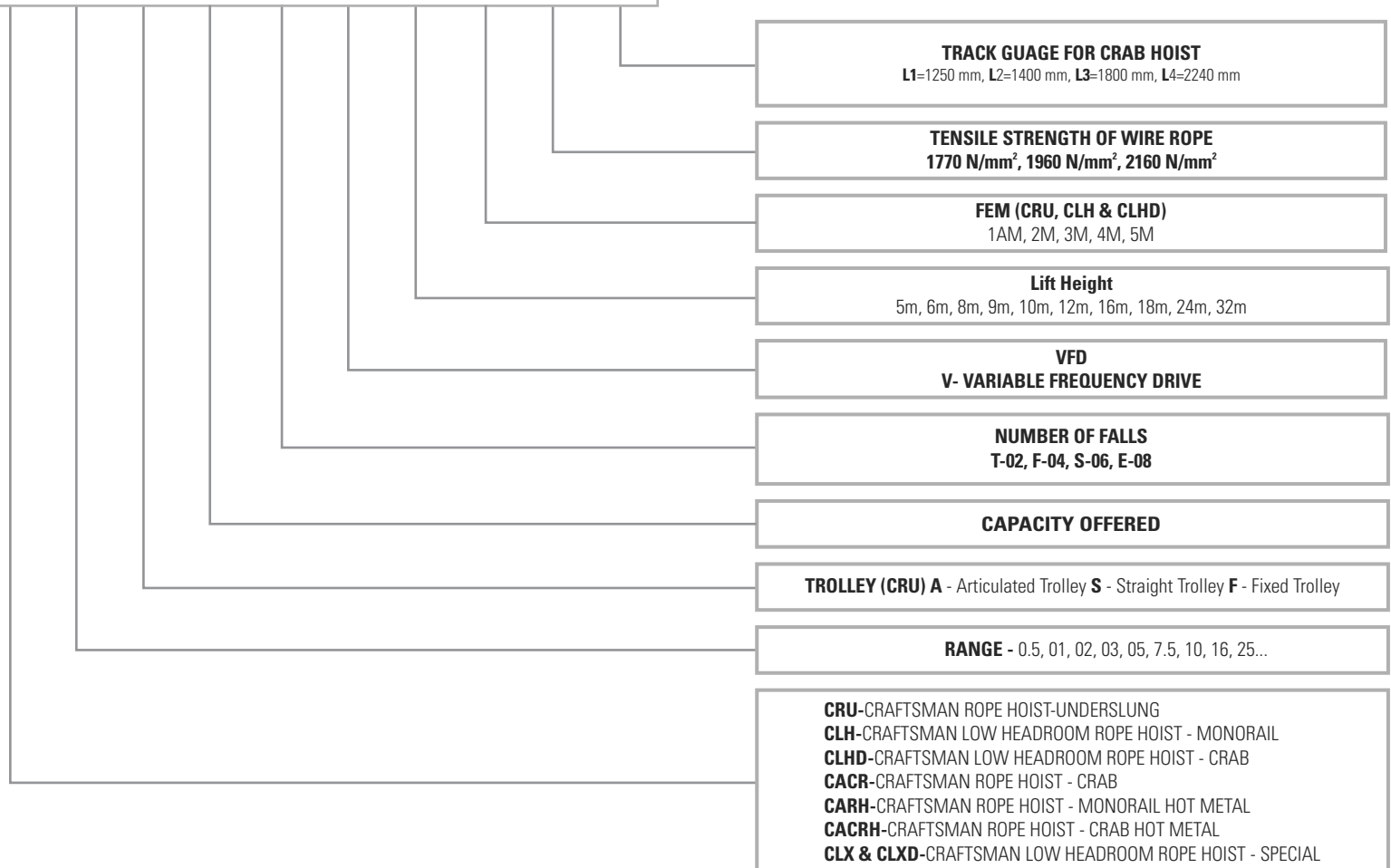
TECHNICAL SPECIFICATION FOR WIRE ROPE HOIST		
DESCRIPTION	MONORAIL HOIST	CRAB HOIST
GIRDER	Single	Double Girder
REEVING	2/1, 4/1	2/1, 4/1, 6/1, 8/1
CT WHEEL DIAMETER (MM)	82, 100, 140	112, 125, 160, 200, 320, 400
TRACK GAUGE (MM)	-	1250, 1400, 1800, 2240
HEIGHT OF LIFT (M)	5-32	
LIFTING SPEED (M/MIN)	1-4, 1.2-4.7, 1.25-5... ; Frequency Controlled, 5/1.25, 10/2.5; Contactor Controlled	
CROSS TRAVEL SPEED (M/MIN)	5-20; Frequency Controlled 25/6; Contactor Controlled	
CLASS OF DUTY (FEM)	1Am, 2m, 3m, 4m & 5m	
ROPE DIAMETER	6, 6.5, 8, 10, 11, 14, 18, 22	
ROPE CONSTRUCTION	6x19S-IWRC, 6x36WS-IWRC, SKZ 8 P	
AMBIENT TEMP. (°C)	50°C Max	

TECHNICAL SPECIFICATION FOR WIRE ROPE HOIST		
DESCRIPTION	MONORAIL HOIST	CRAB HOIST
APPLICATION	Indoor	
LIFTING MOTOR	2-Pole & 4-Pole; Frequency Controlled 2/8-Pole; Contactor Controlled	
CT MOTOR	2-Pole & 4-Pole; Frequency Controlled 2/8-Pole; Contactor Controlled	2-Pole; Frequency Controlled
POWER SUPPLY	415Volts, 3 Phase, 50 Hz, AC Supply	
CONTROL SUPPLY	24 Volts , 50 Hz, DC Supply Frequency Controlled 48 Volts, 50 Hz, AC Supply Contactor Controlled	
THERMAL INSULATION CLASS	F-Class	
MOTOR ENCLOSURE	IP 54	
BRAKE TYPE	Electromagnetic Disc Brake - AC/DC	
RUNWAY BEAM	ISMB 100-600 (or) Plate (Width 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)		

## PRODUCT CODE

CLH	05	A	05	04	V	12	2M	1770	L2
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# 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 2018-19: over ₹1800+ 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

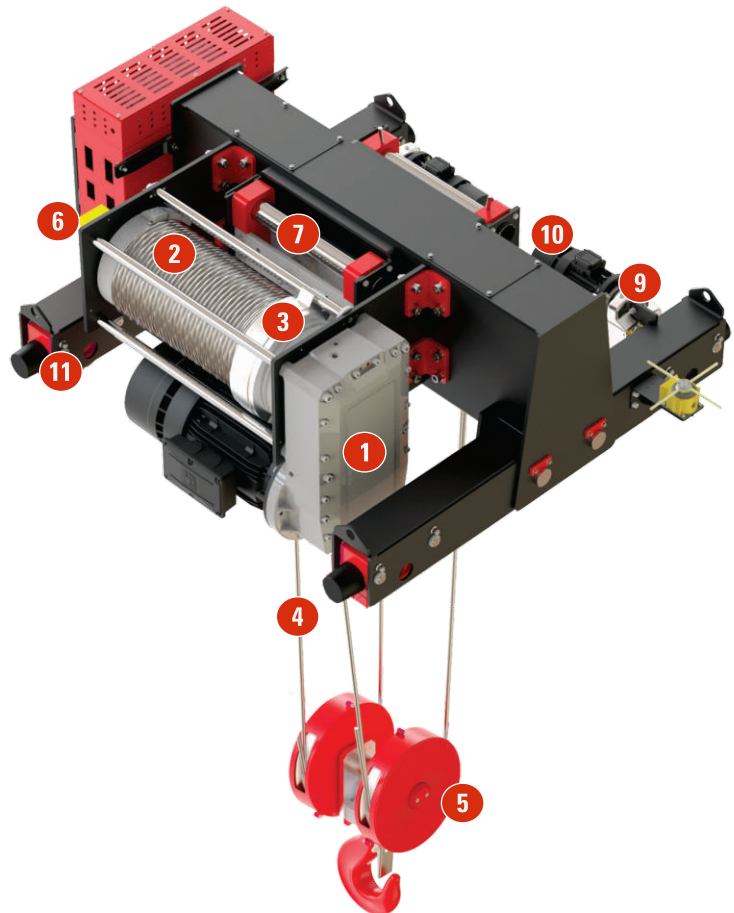
Certification by: DIN EN ISO 9001, DIN EN ISO 14001

# 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.



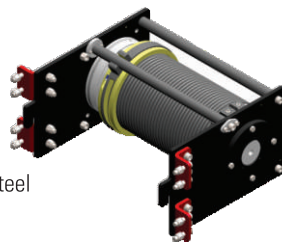
### 4 ROPE

- 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.



### 2 ROPE DRUM

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



### 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.



### 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.



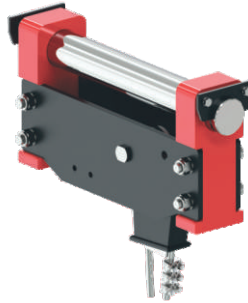
### 6 ROTARY LIMIT SWITCH EQUIPMENT

- 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.

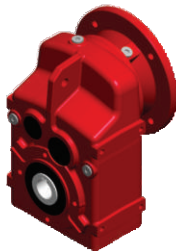


## 8 VARIABLE FREQUENCY DRIVE

- 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



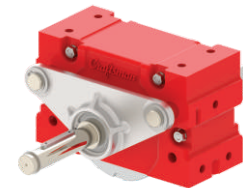
- Travel machinery is specially designed for hoist application.
- Easy to remove without removing wheels.
- Case hardened and Precision ground gears for smooth running and long life.
- Gears permanently immersed in oil/grease for quiet, smooth and cool operation
- Standard travelling speeds of 20 m/min (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)



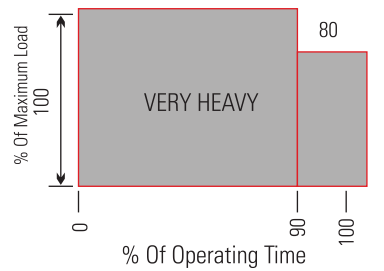
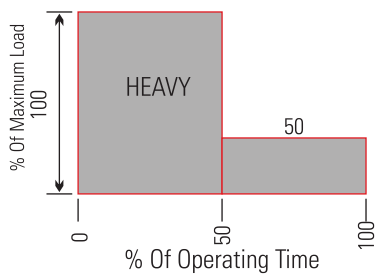
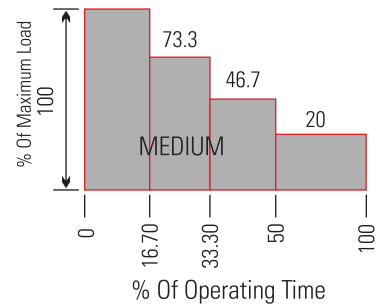
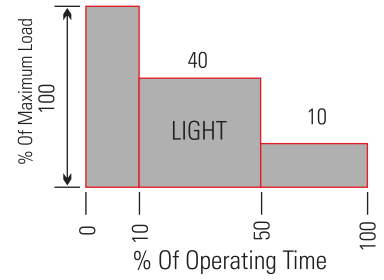
- Additional safety with Mechanical drum brake for protection against drive failures.
- Easy access and protected with covers for dust free.
- Brake mechanism is factory test and set.

# 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 9.511		<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> <b>4m / M7</b> <b>5m / M8</b>
0.5T					CRU 0.5 CLH 0.5	
1T					CRU 01 CLH01	
	1.6T					CLX 03
2T	2T				CRU 02 CLH 02	CLX 03   CLH 03 CLX 03
2.5T					CLX 05 CLXD 05	CLX 10 CLXD 10
	2.5T					CLH 03   CLX 05 CLX 03   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



# REEVING



Normal Hoist								
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		

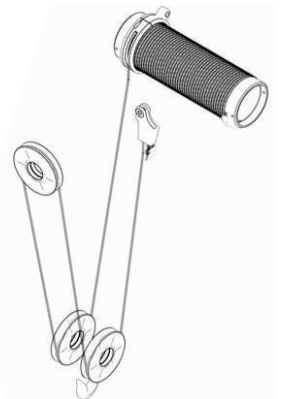
MOLTEN METAL HOIST *								
2/1	4/1	6/1	8/1	1Am / M4	2m / M5	3m / M6	4m / M7	5m / M8
	2T							CARH 05-1960 CACRH 05-1960
	2.5T							CARH 10-1770 CACRH 10-1770
	3T						CARH 05-1960 CACRH 05-1960 CARH 10-1770 CACRH 10-1770	CARH 10-1960 CACRH 10-1960
	4T						CARH 10-1770 CACRH 10-1770	CARH 10-1960 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

WIRE ROPE HOIST VARIANTS						
TYPE	LIFTING CAPACITY UP TO (KG)	ROPE REEVING	STATIONARY	UNDERSLUNG	MONORAIL	CARB
CRU 0.5 / CLH 0.5	500	2/1	✓	✓	✓	
CRU 01 / CLH 01	1000	2/1	✓	✓	✓	
CRU 02 / CLH 02	2000	2/1	✓	✓	✓	
CLH 03	3000	4/1			✓	
CLX 03	2500	4/1			✓	
CLH / CLHD 05	5000	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	4/1			✓	✓
CLX / CLXD 10	8000	2/1, 4/1			✓	✓
CLHD 16	16000	4/1				✓
CLXD 16	8000	2/1				✓
CACR 16	25000	4/1, 6/1				✓
CACR 25	50000	2/1, 4/1, 6/1, 8/1				✓



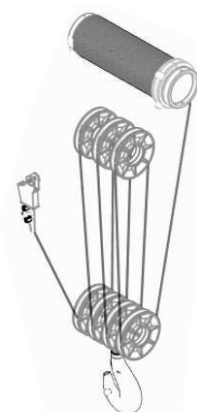
FALL - 2/1



FALL - 4/1



FALL - 6/1



FALL - 8/1

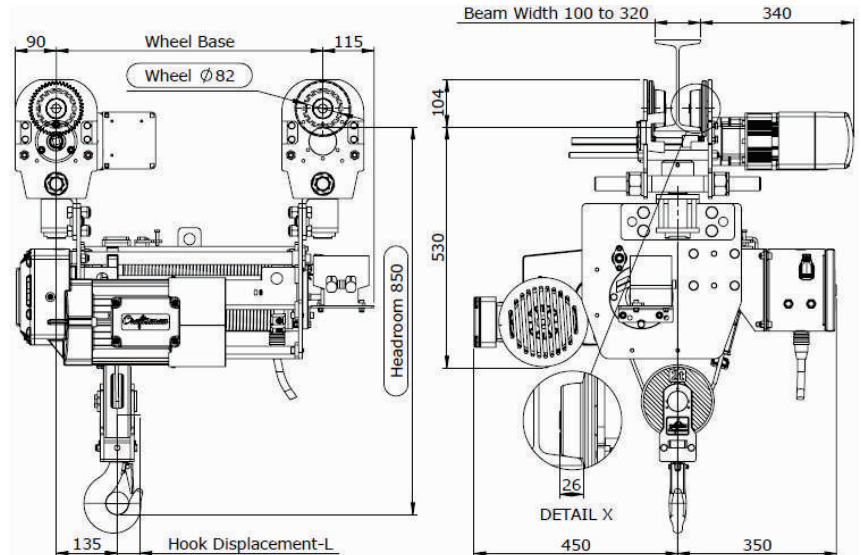
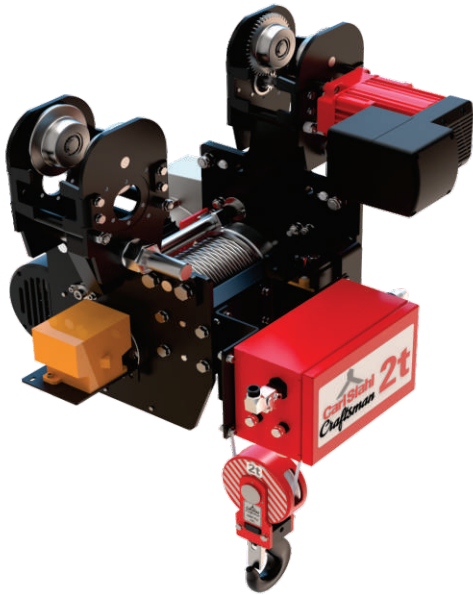
# PRODUCTS

**PRODUCT : UNDERSLUNG HOIST**

**TYPE: ARTICULATED**

**MODEL: CRU-A**

**REEVING: 2/1**



**CAPACITY : 0.5, 1, 2**

**LIFT HEIGHT (M) : 6, 9, 12, 18, 24**

**SPEED (M/MM) : 1.25 / 5**

**FEM : 2M**

**APPLICATION TYPE: SUITABLE FOR STRAIGHT AND CURVED RUNWAYS**

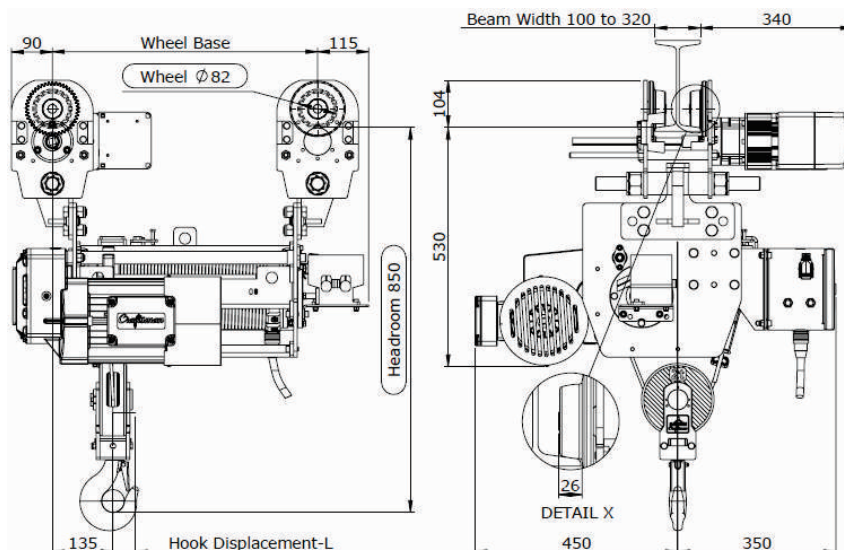
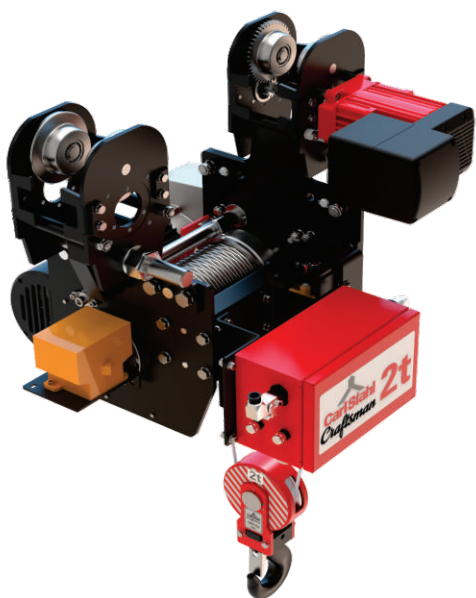
HOIST								TROLLEY		CRU-A		
MODEL	LIFT HEIGHT (m)	WHEEL BASE (mm)	L (mm)	CURVE RADIUS (mm)	FALL	FEM	HOIST MOTOR POWER (KW)	HOIST LIFTING SPEED (m/min)	CT MOTOR POWER (KW)	CT SPEED (m/min)	ARTICLE CODE	MASS (KG)
CRU 0.5	6	490	100	1500	2/1	2M	1.5/0.37	10/2.5	0.37/0.09	25/6.25	CRU 0.5 A0.5 02 06 2M	225
	9	585	150								CRU 0.5 A0.5 02 09 2M	230
	12	680	200								CRU 0.5 A0.5 02 12 2M	235
	18	870	300								CRU 0.5 A0.5 02 18 2M	245
	24	1060	400								CRU 0.5 A0.5 02 24 2M	255
CRU 01	6	490	100								CRU 01 A01 02 06 2M	225
	9	585	150				CRU 01 A01 02 09 2M	230				
	12	680	200				CRU 01 A01 02 12 2M	235				
	18	870	300				CRU 01 A01 02 18 2M	245				
	24	1060	400				CRU 01 A01 02 24 2M	255				
CRU 02	6	490	100				2.4/0.6	5/1.25			CRU 02 A02 02 06 2M	230
	9	585	150								CRU 02 A02 02 09 2M	235
	12	680	200	CRU 02 A02 02 12 2M	240							
	18	870	300	CRU 02 A02 02 18 2M	250							
	24	1060	400	CRU 02 A02 02 24 2M	260							

**PRODUCT : UNDERSLUNG HOIST**

**TYPE: STRAIGHT**

**MODEL: CRU-S**

**REEVING: 2/1**



**CAPACITY : 0.5, 1, 2**

**LIFT HEIGHT (M) : 6, 9, 12, 18, 24**

**SPEED (M/MM) : 1.25 / 5**

**FEM : 2M**

**APPLICATION TYPE: SUITABLE FOR STRAIGHT RUNWAYS**

HOIST						TROLLEY		CRU-S			
MODEL	LIFT HEIGHT (M)	WHEEL BASE (MM)	L (MM)	FALL	FEM	HOIST MOTOR POWER (KW)	HOIST LIFTING SPEED (M/MM)	CT MOTOR POWER (KW)	CT SPEED (M/MM)	ARTICLE CODE	MASS (KG)
CRU 0.5	6	490	100	2/1	2M	1.5/0.37	10/2.5	0.37/0.09	25/6.25	CRU 0.5 S0.5 02 06 2M	225
	9	585	150							CRU 0.5 S0.5 02 09 2M	230
	12	680	200							CRU 0.5 S0.5 02 12 2M	235
	18	870	300							CRU 0.5 S0.5 02 18 2M	245
	24	1060	400							CRU 0.5 S0.5 02 24 2M	255
CRU 01	6	490	100			CRU 01 S01 02 06 2M	225				
	9	585	150			CRU 01 S01 02 09 2M	230				
	12	680	200			CRU 01 S01 02 12 2M	235				
	18	870	300			CRU 01 S01 02 18 2M	245				
	24	1060	400			CRU 01 S01 02 24 2M	255				
CRU 02	6	490	100	2.4/0.6	5/1.25	CRU 02 S02 02 06 2M	230				
	9	585	150			CRU 02 S02 02 09 2M	235				
	12	680	200			CRU 02 S02 02 12 2M	240				
	18	870	300			CRU 02 S02 02 18 2M	250				
	24	1060	400			CRU 02 S02 02 24 2M	260				

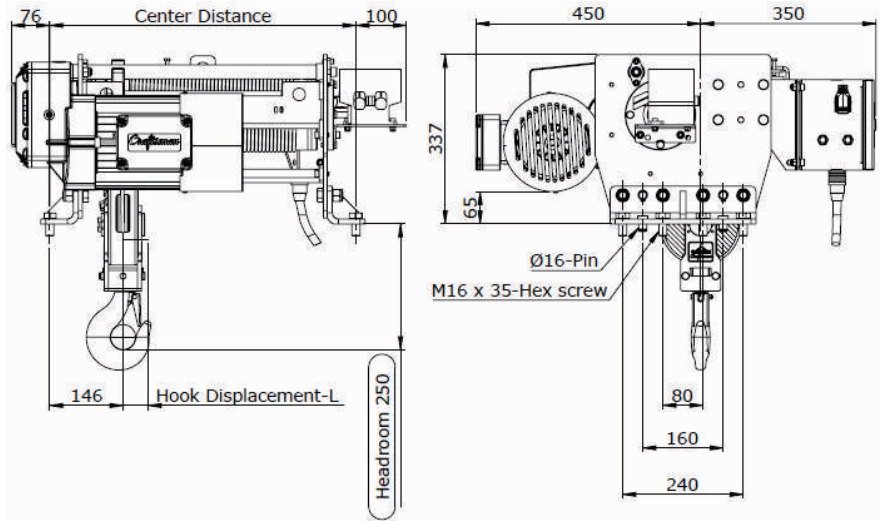
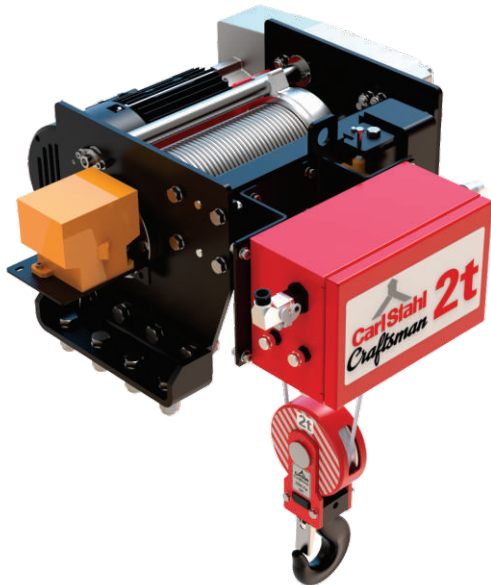
# PRODUCTS

**PRODUCT : FIXED HOIST**

**TYPE: STATIONARY**

**MODEL: CRU-F**

**REEVING: 2/1**



**CAPACITY : 0.5, 1, 2**

**LIFT HEIGHT (M) : 6, 9, 12, 18, 24**

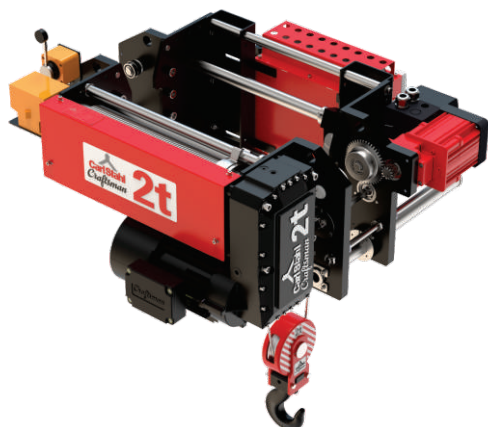
**SPEED (M/MM) : 1.25 / 5**

**FEM : 2M**

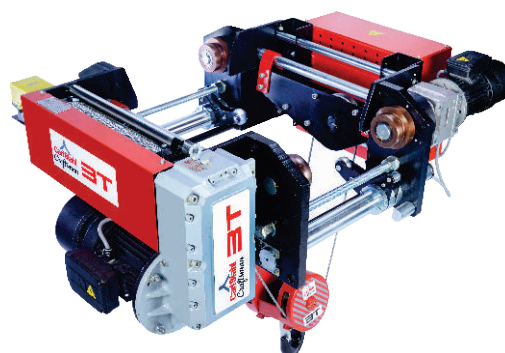
**APPLICATION TYPE: SUITABLE FOR FIXED HOIST**

HOIST								CRU-F	
MODEL	LIFT HEIGHT (M)	CENTER DISTANCE (MM)	L (MM)	FALL	FEM	HOIST MOTOR POWER (KW)	HOIST LIFTING SPEED (M/MIN)	ARTICLE CODE	MASS (KG)
CRU 0.5	6	510	100	2/1	2M	1.5/0.37	10/2.5	CRU 0.5 F0.5 02 06 2M	165
	9	605	150					CRU 0.5 F0.5 02 09 2M	170
	12	700	200					CRU 0.5 F0.5 02 12 2M	175
	18	890	300					CRU 0.5 F0.5 02 18 2M	185
	24	1080	400					CRU 0.5 F0.5 02 24 2M	195
CRU 01	6	510	100			5/1.25	2.4/0.6	CRU 01 F01 02 06 2M	165
	9	605	150					CRU 01 F01 02 09 2M	170
	12	700	200					CRU 01 F01 02 12 2M	175
	18	890	300					CRU 01 F01 02 18 2M	185
	24	1080	400					CRU 01 F01 02 24 2M	195
CRU 02	6	510	100	2.4/0.6	2.4/0.6	CRU 02 F02 02 06 2M	170		
	9	605	150			CRU 02 F02 02 09 2M	175		
	12	700	200			CRU 02 F02 02 12 2M	180		
	18	890	300			CRU 02 F02 02 18 2M	190		
	24	1080	400			CRU 02 F02 02 24 2M	200		

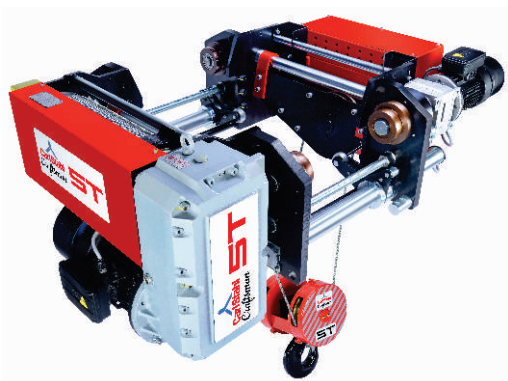
**PRODUCT : SINGLE GIRDER MONORAIL**  
**TYPE: LOW HEAD ROOM HOIST**  
**MODEL: CLH-R**



**CAPACITY (T) : UP TO 2T**  
**LIFT HEIGHT (M) : 6, 9, 12**  
**REEVING : 2/1**  
**SPEED (M/MIN) : 1.25 ~ 5**  
**FEM : 2M**



**CAPACITY (T) : UP TO 3T**  
**LIFT HEIGHT (M) : 6, 9, 12**  
**REEVING : 4/1**  
**SPEED (M/MIN) : 1.25 ~ 5**  
**FEM : 2M**



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

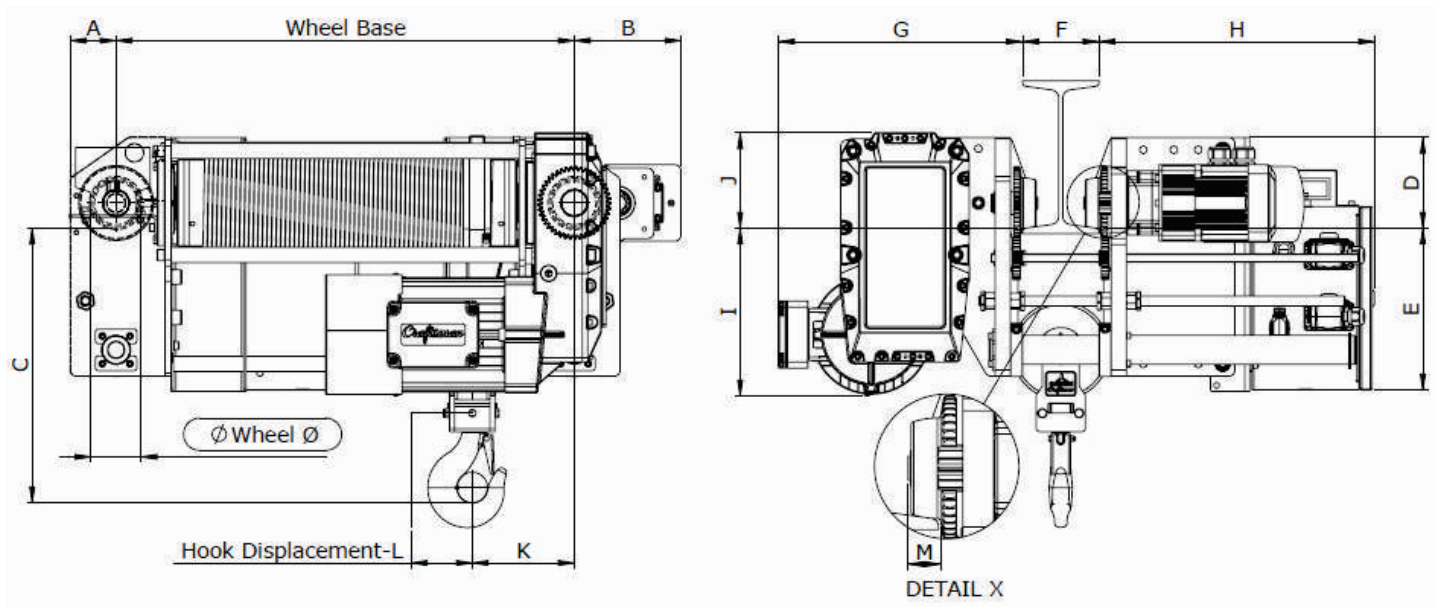


**CAPACITY (T) : UP TO 10T**  
**LIFT HEIGHT (M) : 6, 9, 12**  
**REEVING : 4/1**  
**SPEED (M/MIN) : 1.2~4.7**  
**FEM : 2M**

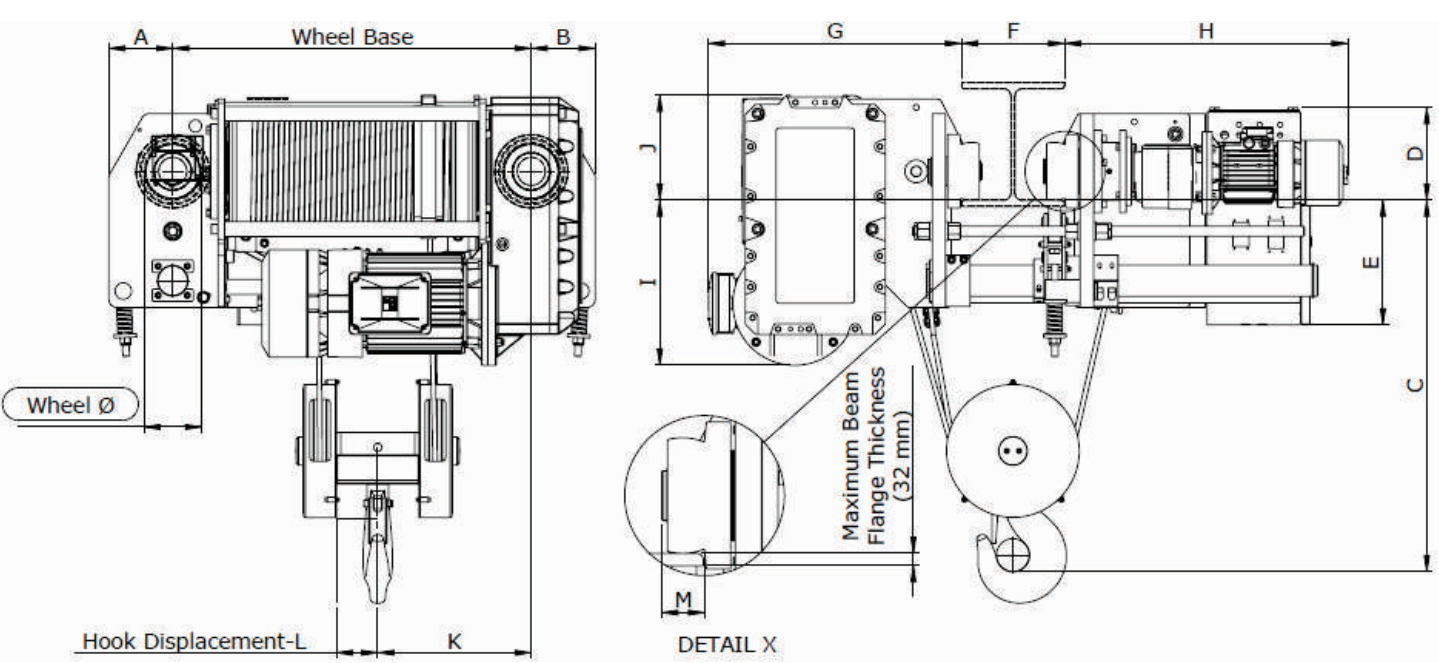
# PRODUCTS

**PRODUCT : SINGLE GIRDER MONORAIL**  
**TYPE: LOW HEAD ROOM HOIST**  
**MODEL: CLH-R**

**MODEL : UP TO CLH - 02**  
**REEVING : 2/1**



**MODEL : UP TO CLH - 10**  
**REEVING : 4/1**



**PRODUCT : SINGLE GIRDER MONORAIL**
**TYPE: LOW HEAD ROOM HOIST**
**MODEL: CLH-R**

MODEL	LIFT (m)	WHEEL BASE (mm)	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 0.5	6	560	82	75	175	148	265	400	451	270	156	167	100	27										
	9	655											150											
	12	750											200											
	18	940											300											
	24	1130											400											
CLH 01	6	560											100											
	9	655											150											
	12	750											200											
	18	940											300											
	24	1130											400											
CLH 02	6	560								100			100		100	153	270	434	570	305	165	280	100	39
	9	655																					150	
	12	750																					210	
	18	940																					100	
	24	1130																					150	
CLH 03	6	760	210																					
	9	950	100																					
	12	1140	150																					
CLH 05	6	760	210																					
	9	950	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											100											
	9	1050											150											
	12	1230											200											

MODEL	C DIMENSION (mm)				
CLH 0.5	450	550	650	750	-
CLH 01					
CLH 02					
CLH 03					
CLH 05					
CLH 7.5	500	600	700	800	1100
CLH 10	700	800	900	1000	
FLANGE WIDTH (F) (mm)	F≤200	200>F≤300	300>F≤400	400>F≤500	

# 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																						
0.5T	0.5 T	2/1	2M	6	1.5	2.5~10	0.37/0.09	25/6.25	CLH 0.5 0.5 02 V 06 2M	265																														
				9					CLH 0.5 0.5 02 V 09 2M	275																														
				12					CLH 0.5 0.5 02 V 12 2M	280																														
				18					CLH 0.5 0.5 02 V 18 2M	305																														
				24					CLH 0.5 0.5 02 V 24 2M	320																														
1T	1 T	2/1	2M	6	1.5	1.25~5	0.37/0.09	25/6.25	CLH 01 01 02 V 06 2M	265																														
				9					CLH 01 01 02 V 09 2M	275																														
				12					CLH 01 01 02 V 12 2M	280																														
				18					CLH 01 01 02 V 18 2M	305																														
				24					CLH 01 01 02 V 24 2M	320																														
2T	2 T	2/1	2M	6	2.4	1.25~5	0.37/0.09	25/6.25	CLH 02 02 02 V 06 2M	270																														
				9					CLH 02 02 02 V 09 2M	280																														
				12					CLH 02 02 02 V 12 2M	285																														
				18					CLH 02 02 02 V 18 2M	310																														
				24					CLH 02 02 02 V 24 2M	325																														
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																														
				18					CLH 03 02 04 V 18 4M	465																														
	2.5 T	4/1	3M	3M					6	3								1.25~5	0.37	5~20	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																		
									18												CLH 03 2.5 04 V 18 3M	465																		
	3 T	4/1	2M	2M					6												3	1.25~5								0.37	5~20	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							
									18																							CLH 03 03 04 V 18 2M	465							
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																											
				9					CLH 05 03 04 V 09 3M		520																													
				12					CLH 05 03 04 V 12 3M		560																													
				18					CLH 05 03 04 V 18 3M		600																													
	5 T	4/1	2M	2M					6	4	1~4							0.37	5~20	CLH 05 05 04 V 06 2M			480	2 x 0.37	5~20															
									9											CLH 05 05 04 V 09 2M			520																	
									12											CLH 05 05 04 V 12 2M			560																	
									18											CLH 05 05 04 V 18 2M			600																	
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																										
				9					CLH 7.5 05 04 V 09 4M			975																												
				12					CLH 7.5 05 04 V 12 4M			1025																												
				18					CLH 7.5 05 04 V 18 4M			1075																												
	6 T	4/1	3M	3M					6	7.5	1.2~4.7	0.55						5~20	CLH 7.5 06 04 V 06 3M			925	2 x 0.55	5~20																
									9										CLH 7.5 06 04 V 09 3M			975																		
									12										CLH 7.5 06 04 V 12 3M			1025																		
									18										CLH 7.5 06 04 V 18 3M			1075																		
	7.5 T	4/1	2M	2M					6										7.5			1.2~4.7								0.55	5~20	CLH 7.5 7.5 04 V 06 2M	925	2 x 0.55	5~20					
									9																							CLH 7.5 7.5 04 V 09 2M	975							
									12																							CLH 7.5 7.5 04 V 12 2M	1025							
									18																							CLH 7.5 7.5 04 V 18 2M	1075							
10T	8T	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																									
				9					CLH 10 08 04 V 09 3M				1000																											
				12					CLH 10 08 04 V 12 3M				1050																											
				18					CLH 10 08 04 V 18 3M				1100																											
	10T	4/1	2M	2M					6	9.2	1.2~4.7	0.75	5~20					CLH 10 10 04 V 06 2M					950	2 x 0.55	5~20															
									9									CLH 10 10 04 V 09 2M					1000																	
									12									CLH 10 10 04 V 12 2M					1050																	
									18									CLH 10 10 04 V 18 2M					1100																	
16T	10T	4/1	4M	8	11	1.2~4.7			-					-	2 x 0.75	5~20																								
				12					-					-																										
				16					-					-																										
				18					-					-																										
	12.5T	4/1	3M	3M					8	15	1.2~4.7			-								-	2 x 0.75	5~20																
									12					-								-																		
									16					-								-																		
									18					-								-																		
	16T	4/1	2M	2M					8					15								1.2~4.7										-	-	2 x 0.75	5~20					
									12																							-	-							
									16																							-	-							
									18																							-	-							

\*Note : All the specification in this catalogue are subject to change without notice.

CE Certified only for selected models

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# PRODUCTS



**PRODUCT : DOUBLE GIRDER CRAB**

**TYPE: LOW HEADROOM HOIST**

**MODEL: CLHD-R**

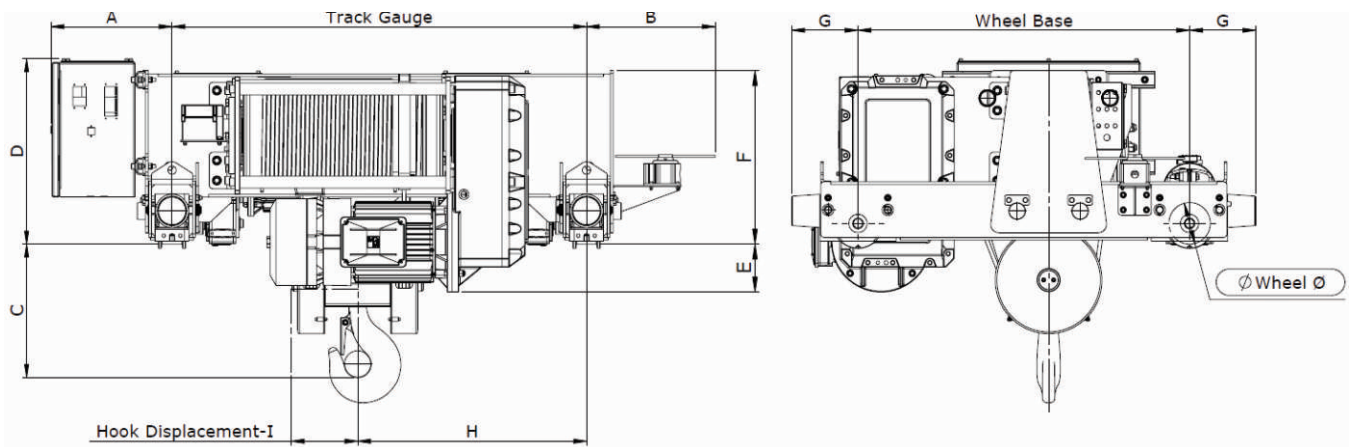
**REEVING: 4/1**



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

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



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	100
	9	150											
	12	200											
CLHD 16	8	1400	1250	160	380	398	650	692	103	684	225	694	150
	12	722										200	
	16	822										250	

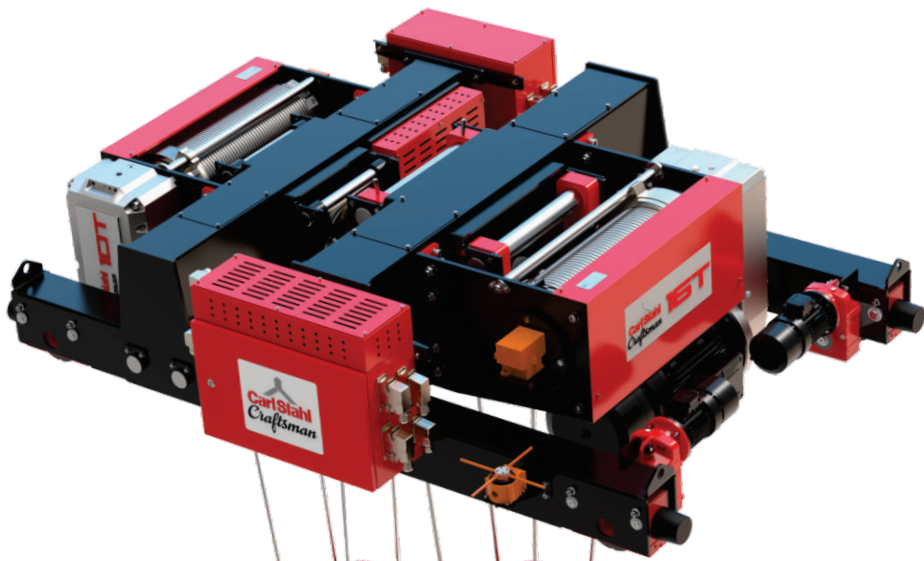
# PRODUCT RANGE

## 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												
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			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			CLXD 10 2.5 02 V 18 4M	L2, L3	-	960	985	-												
			24					CLX 10 2.5 02 V 24 4M	1030			CLXD 10 2.5 02 V 24 4M	L3	-	-	1010	-												
		2M	12	4	2-8			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					CLXD 05 2.5 02 V 18 2M	L1, L2	625	635	-	-										
			24					CLX 05 2.5 02 V 24 2M	525					CLXD 05 2.5 02 V 24 2M	L2	-	655	-	-										
	4/1	4M	6	3	1.5-6			CLX 05 2.5 04 V 06 4M	480	CLXD 05 2.5 04 V 06 4M	L1			640	-	-	-												
			9					CLX 05 2.5 04 V 09 4M	520	CLXD 05 2.5 04 V 09 4M	L1, L2			660	670	-	-												
			12					CLX 05 2.5 04 V 12 4M	560	CLXD 05 2.5 04 V 12 4M	L2			-	690	-	-												
		3M	6					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			CLXD 10 03 02 V 18 3M	L2, L3	-	960	985	-
				24																CLX 10 03 02 V 24 3M	1030			CLXD 10 03 02 V 24 3M	L3	-	-	1010	-
		4/1	3M	6	4			1.5-6		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			CLXD 05 03 04 V 09 3M	L1, L2	660	670	-		-									
				12						CLX 05 03 04 V 12 3M	560			CLXD 05 03 04 V 12 3M	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					CLXD 10 05 02 V 18 2M	L2, L3	-	960	985	-										
			24					CLX 10 05 02 V 24 2M	1030					CLXD 10 05 02 V 24 2M	L3	-	-	1010	-										
	4/1	4M	6	7.5	2-7.5			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					CLXD 7.5 05 04 V 09 4M	L2, L3	-	955	980	-										
			12					CLX 7.5 05 04 V 12 4M	1025					CLXD 7.5 05 04 V 12 4M	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					CLXD 7.5 06 04 V 09 3M	L2, L3	-	955	980	-										
			12					CLX 7.5 06 04 V 12 3M	1025					CLXD 7.5 06 04 V 12 3M	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			CLXD 10 6.3 04 V 09 3M	L2, L3	-	980	1005	-												
			12					CLX 10 6.3 04 V 12 3M	1050			CLXD 10 6.3 04 V 12 3M	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							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			CLXD 10 08 04 V 09 3M	L2, L3	-	980	1005	-								
			12									CLX 10 08 04 V 12 3M	1050			CLXD 10 08 04 V 12 3M	L3	-	-	1030	-								

\* MODELS AVAILABLE ON REQUEST

\*Note: All the specification in this catalogue are subject to change without notice.



**CAPACITY (T)** : UP TO 16T  
**REEVING** : 4/1  
**LIFT HEIGHT (m)** : 6, 8, 9, 12  
**SPEED (m/mm)** : 1~4  
**FEM** : 2M

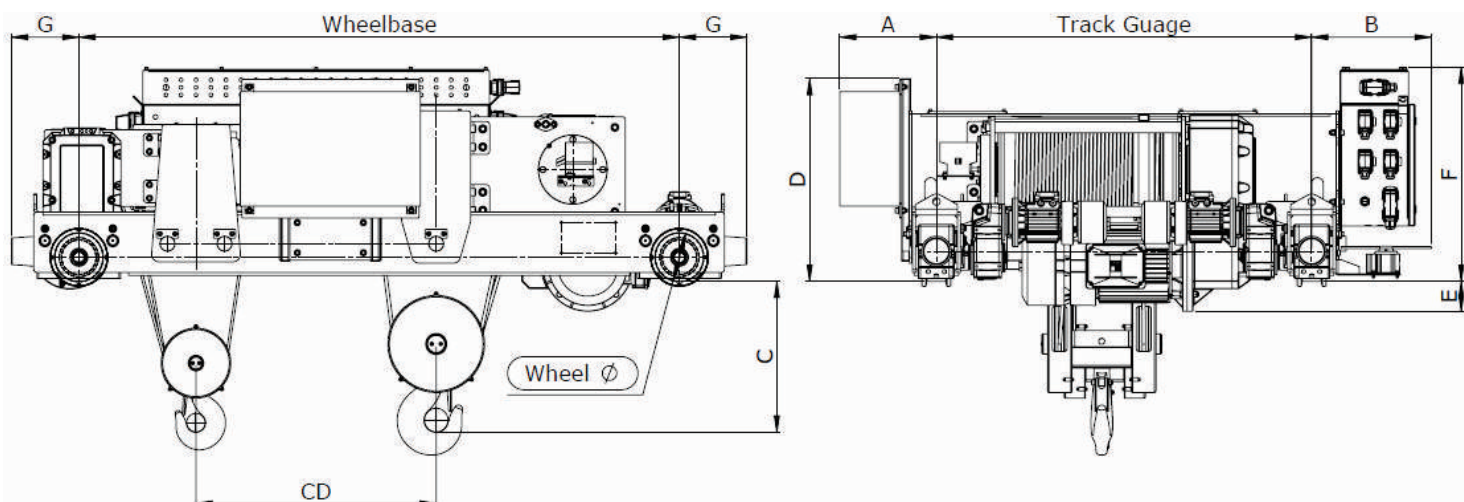


# PRODUCTS

**PRODUCT : DOUBLE GIRDER DUAL CRAB**

**TYPE: LOW HEADROOM HOIST**

**MODEL: CLHD**



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)	CD (mm)
CLHD 10/5	6	1250	2000	160	322	398	500	675	99	710	225	800
	9	1400										
	12	1800										
CLHD 16/7.5	6	1400	2300	200	332	408	750	746	49	768	255	
	8											
	12											
CLHD 16/10	6	1400	2300	200	332	408	750	746	49	768	255	
	8											
	12											

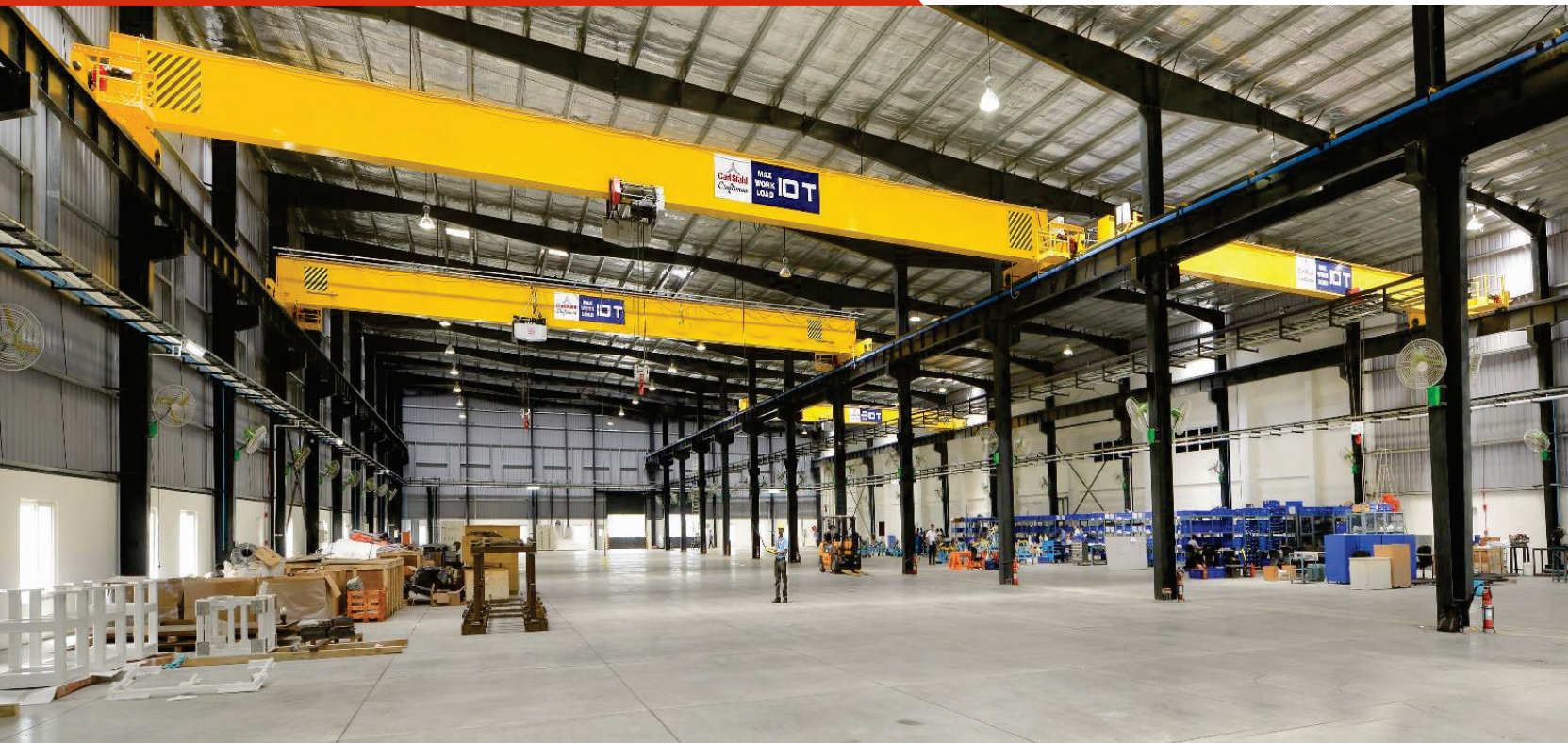
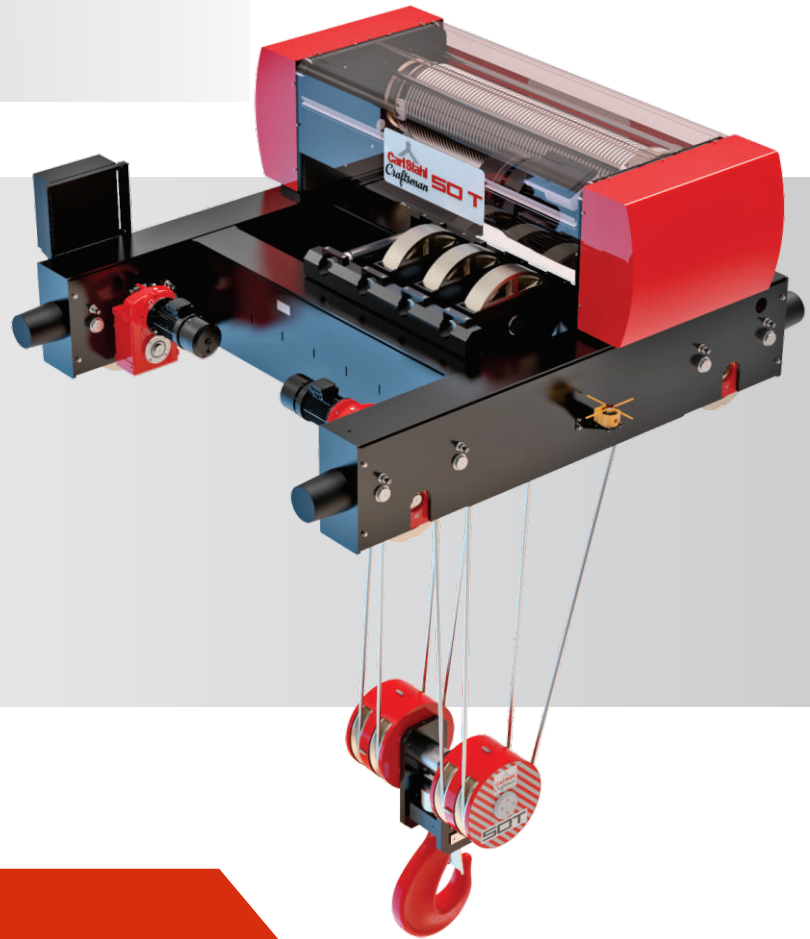
## WIRE ROPE HOIST - DOUBLE GIRDER-DUAL CRAB R-SERIES MODELS

HOIST				MAIN HOIST			AUXILIARY HOIST			TRAVELLING		DUAL CRAB					
MODEL MAIN / AUX	LIFT HEIGHT (m)	FALL	FEM	WORKING LOAD	HOIST MOTOR POWER	HOIST LIFTING SPEED	WORKING LOAD	HOIST MOTOR POWER	HOIST LIFTING SPEED	CT MOTOR POWER	CT LIFTING SPEED	MODEL	TRACK GAUGE (mm)	MASS (KG)			
														L1	L2	L3	L4
10T/5T	6	4/1	2M	10T	9.2	1.2-4.7	5T	4	1-4	2 x 0.55	5-20	CLHD 10/5 04 V 06 2M	L1	1600	-	-	-
	9											CLHD 10/5 04 V 09 2M	L2	-	1700	-	-
	12											CLHD 10/5 04 V 12 2M	L3	-	-	1800	-
16T/7.5T	6	4/1	2M	16T	15	1.2-4.7	7.5T	7.5	1.2-4.7	2 x 0.75	5-20	CLHD 16/7.5 04 V 06 2M	L2	-	2625	-	-
	8											CLHD 16/7.5 04 V 08 2M	L2	-	2675	-	-
	12											CLHD 16/7.5 04 V 12 2M	L3	-	-	2775	-
16T/10T	6	4/1	2M	16T	15	1.2-4.7	10T	9.2	1.2-4.7	2 x 0.75	5-20	CLHD 16/10 04 V 06 2M	L2	-	2650	-	-
	8											CLHD 16/10 04 V 08 2M	L2	-	2700	-	-
	12											CLHD 16/10 04 V 12 2M	L3	-	-	2800	-

**PRODUCT : DOUBLE GIRDER CRAB**

**TYPE: HEAVY DUTY**

**MODEL: CACR**



# PRODUCT RANGE

WIRE ROPE HOIST - CACR MODELS*																				
HOIST							MONORAIL			CAAB			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	2m	2	16	Yes	30	2.4-10	-	-	-	1.1	5-20	CACR 25 12.5 02 V 16 1770	-	L2	L3	-				
			24						-			-	L3	L4						
			32						-			-	-	L4						
	16		-						-			L2	L3	-						
	24		-						-			L3	L4							
	32		-						-			-	L4							
16 T	2m	2	16	Yes	30	2.4-9	-	-	-	1.5	5-20	CACR 25 16 02 V 16 1960	-	L2	L3	-				
			24						-			-	L3	L4						
			32						-			-	-	L4						
20 T	2m	4	8	Yes	22	1.2-5	-	-	-	1.5	5-20	CACR 16 20 04 V 08 1960	L1	L2	-	-				
			12						-			L2	L3	-						
			16						-			-	L3	L4						
			8						-			-	L3	-						
			12						-			-	L3	L4						
			16						-			-	-	L4						
	8		-		-	-	-													
	12		-		-	L2	L3	-												
	16		-		-	-	L3	L4												
	8		-		-	-	-													
	12		-		-	-	-													
	16		-		-	-	-													
	2m	6	5	18.5	0.85-3.5	-	-	-	-	-	-	-	CACR 16 20 06 V 05 1770	L1	L2	-	-			
			8					-	-	L2	L3	-								
			10					-	-	L3	L4									
25 T	2m	4	8	Yes	30	1.2-4.8	-	-	-	2.2	5-20	CACR 25 25 04 V 08 1770	-	L2	L3	-				
			12						-			-	L3	L4						
			16						-			-	-	L4						
			8						-			-	L2	L3	-					
			12						-			-	L3	L4						
			16						-			-	-	L4						
	3m	6	5		18.5	0.85-3.5	-	-	-			-	-	-	-	CACR 16 25 06 V 05 1770	L1	L2	-	-
			8						-			-	L2	L3	-					
			10						-			-	L3	L4						
			5						-			-	-	-						
			8						-			-	L2	L3	-					
			10						-			-	L3	L4						
32 T	2m	4	8	Yes	30	1.2-4.8	-	-	-	2.2	5-20	CACR 25 32 04 V 08 1960	-	L2	L3	-				
			12						-			-	L3	L4						
			16						-			-	-	L4						
			5						-			-	L2	L3	-					
			8						-			-	L3	L4						
			10						-			-	-	L4						
	3m	6	5		22	0.8-3.5	-	-	-			-	-	-	-	CACR 25 32 06 V 10 1770	-	-	-	L4
			8						-			-	L2	L3	-					
			10						-			-	L3	L4						
			5						-			-	-	-						
			8						-			-	L2	L3	-					
			10						-			-	L3	L4						
40 T	1Am	6	5	Yes	30	0.8-3.5	-	-	-	3	5-20	CACR 25 40 06 V 05 1770	-	L2	L3	-				
			8						-			-	L3	L4						
			10						-			-	-	L4						
	5		-						-			L2	L3	-						
	8		-						-			-	L3	L4						
	10		-						-			-	-							
2m	6	5	30	0.8-3.5	-	-	-	-	-	-	-	CACR 25 40 06 V 08 1960	-	-	L3	L4				
		8					-	-	-	L4										
		10					-	-	-	-										
		5					-	-	L2	L3	-									
3m	6	5	30	0.8-3.5	-	-	-	-	-	-	-	CACR 25 40 06 V 10 1960	-	-	-	L4				
		8					-	-	-	-										
		10					-	-	-	-										
		5					-	-	L2	L3	-									
50 T	2m	8	6	Yes	30	0.6-2.5	-	-	-	3	5-20	CACR 25 50 08 V 06 1770	-	-	L3	L4				
			8						-			-	-	L4						
	6		-						-			L3	L4							
	8		-						-			-	-							

\*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	-						
			6			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	-						
			6			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		5		CARH 25 12.5 06 05 1960	-	L2	L3	-							
			8		CARH 25 12.5 06 08 1960	-	-	L3	L4							
			10		CARH 25 12.5 06 10 1960	-	-	-	L4							
4m	5	CARH 16 12.5 06 05 1960	L1	L2	-	-										
	8	CARH 16 12.5 06 08 1960	-	L2	L3	-										
	10	CARH 16 12.5 06 10 1960	-	-	L3	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		CARH 16 15 06 05 1960	L1	L2	-	-							
			8		CARH 16 15 06 08 1960	-	L2	L3	-							
			10		CARH 16 15 06 10 1960	-	-	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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