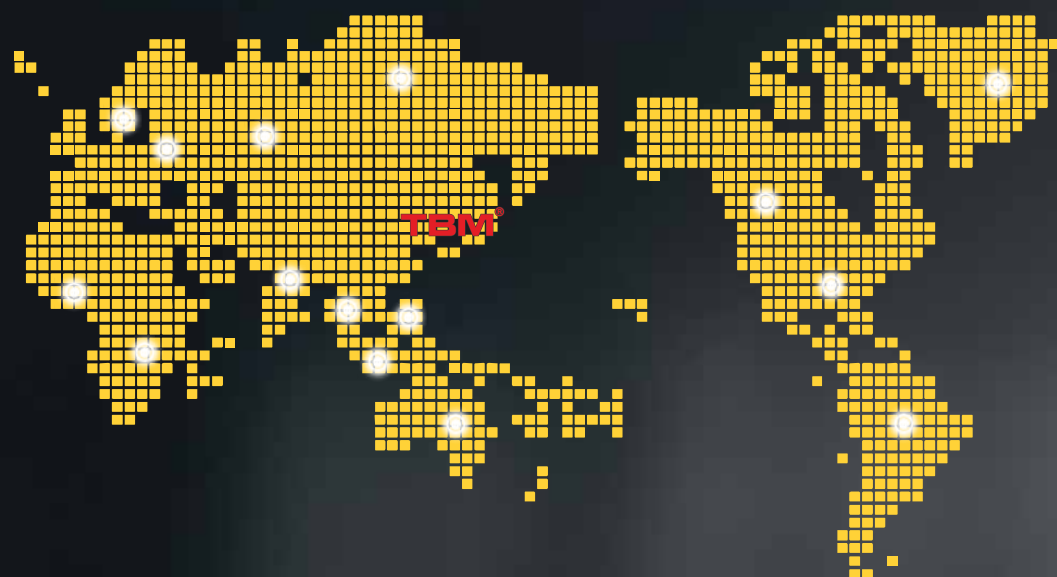


# TBM<sup>®</sup>

crane  
since 1984



INNOVATION LEADS THE FUTURE  
CONCENTRATION ACHIEVES BRILLIANCE



**ZHEJIANG SHUANGNIAO LIFTING EQUIPMENT CO.,LTD**

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**ZHEJIANG SHUANGNIAO LIFTING EQUIPMENT CO.,LTD**





TBM Group is located in Shengzhou county in the east of Zhejiang Province. Since 1984,

TBM has been focusing on research, development, design, production and service of various hoists. Nowadays, it is one of the largest and leading hoist manufacturers in China. The factory has an area of 200,000m<sup>2</sup> containing 160,000m<sup>2</sup> of covered area.

TBM has the most comprehensive product portfolios available. It is specialized in design and manufacturing electric wire rope hoists, electric chain hoists, manual chain blocks, manual lever blocks, high-strength slings, movable jib cranes, CNC machining centers, anchor chains etc.

All the products meet the exact standards of EC, FEM and DIN. We have a team of top-class engineers and have ever-increasing ability of new product development.

With the principle of "To Offer Clients with the Most Satisfied Products and Service with Continuous Innovation, we sincerely look forward to cooperating with you and welcome to visit our company anytime!





SHA8 Low Headroom  
(1t-12.5t)



SHA8 Winch  
(0.5t, 1t, 2t)



SHA8-BZ Double Rail Hoist  
(32t-100t)



SHA8-BS Double Rail Hoist  
(5t-40t)

# SHA 8

## Low-headroom Electric Wire Rope Hoist

### Electronic unit

- Stable and durable contactor control, reliably work in bad condition
- Standard three phase voltage:380-415v,50hz(440-480v,60hz)
- Standard control voltage:48v
- Sturdy and durable control panel, IP54 protecting level



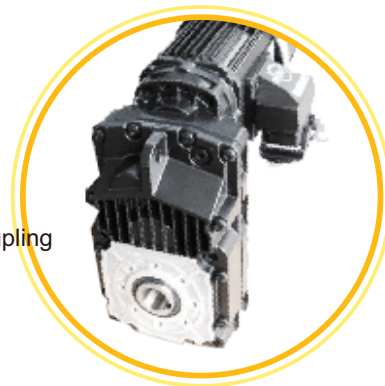
### Control System

- Automatic orientation
- Automatic centering
- Automatic rectify deviation
- Inch moving ,joggle
- Anti-shock
- Regional Protection
- Electronic anti-sway
- Remote communication, digital maintenance



### Travelling driving unit

- Motor , gearbox and brake three-in-one
- Compact structure , small size and light weight
- Direct drive flexible design, stable torque transfer
- 30% rotational efficiency higher than traditional coupling
- Suitable for frequency reverse switching
- Squirrel cage variable frequency motor 60% ED
- IP55 protecting level, H level insulation
- Safe and reliable DC brake
- Aluminum alloy shell, hard tooth surface reducer, well sealing without oil leakage



### Hook Assembly

- Match to the standard of DIN15400/15401, forged by high strength alloy steel
- With safety latch to protect safely
- 360° horizontal and 180° vertical rotations operation easily
- High strength extrusion pulley, high finish rope groove to avoid friction with wire rope



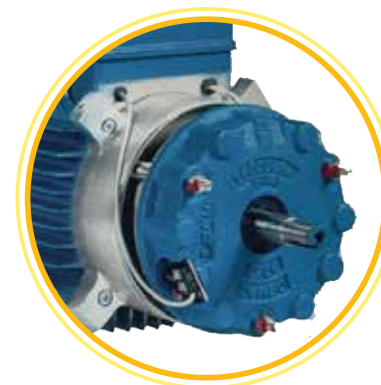
### Rope guider

- High performance engineering material,light self-weight,sturdy and reliable
- Circular design
- Precise rope guide system



### Lifting drive unit

- Ip55 protecting level, F level insulation
- High efficiency double speed lifting motor, ratio 6:1
- 60% ED, strong power and sufficient stock
- With thermal protecting function to prevent from over temperature
- Sturdy and durable aluminum alloy motor, light weight, good heat dissipation
- High-tech totally enclosed aluminum alloy gearbox
- Quenched and fine ground gear makes motor stable and low noise
- Free maintenance design:no need to change lubrication oil in lifetime
- DC brake, quick response
- The safety factor of brake is higher than 180%, manual release for optional
- With self-adjust function
- More than one million times brake operation



### Imported Wire Rope

- High strength pressed solid galvanized wire rope
- 2160N/mm<sup>2</sup> tensile strength
- 40% smaller than traditional wire rope
- Good flexibility and long service life
- Press rope block for special use, intensively layout to prevent form loose, fastening is more reliable
- Fusible cutout rope technology,fusible surface is firm
- Effectively prevent from loose to extend service life

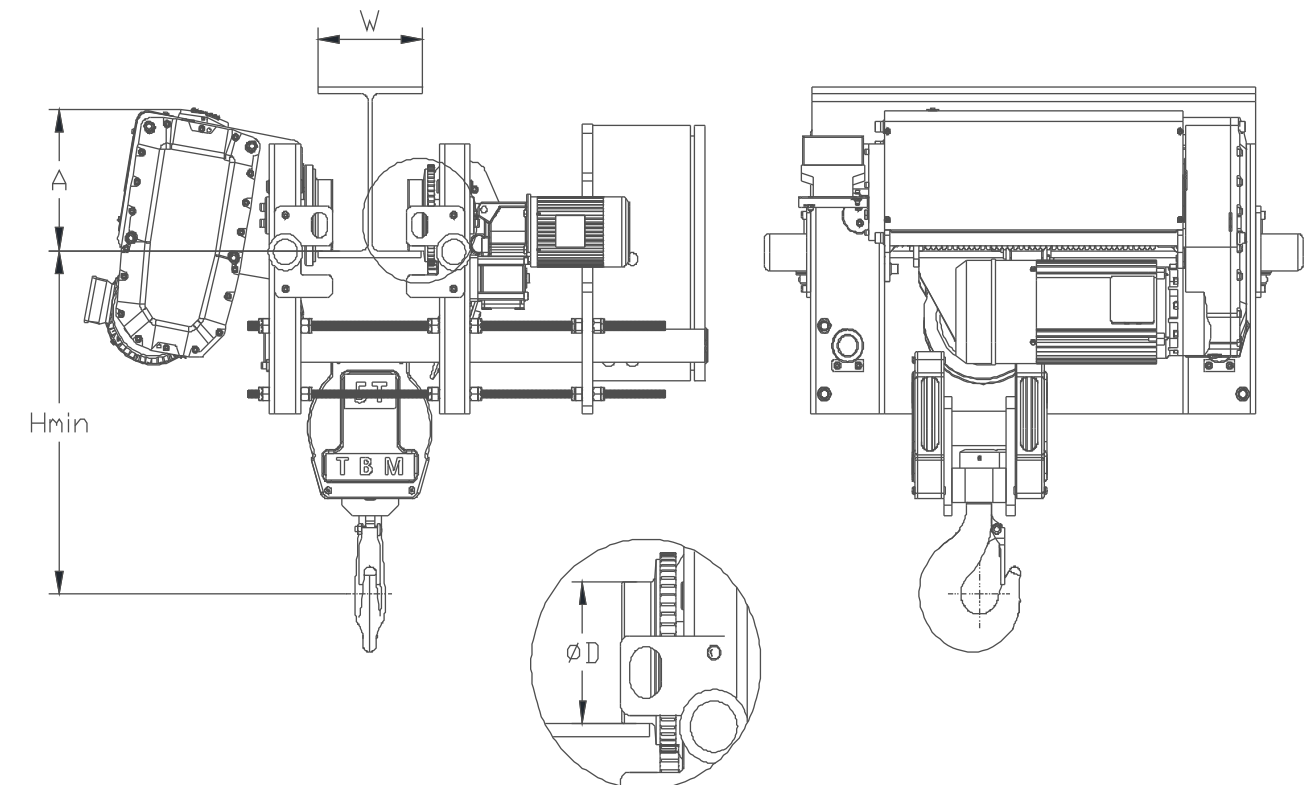
# SHA 8

## Low-headroom Electric Wire Rope Hoist

The hoist body is welded by professional proximate matter, with exquisite structure, excellent appearance and unique innovations.



Designed as per the latest international DIN and FEM standards, have reached the technical level of similar products abroad, and are suitable for various material transfer sites such as machining shops, assembly shops, warehouse and other material handling sites especially for sites where the height of workshop is major limited.



### Technical Parameters

| Model   | Capacity (t) | Duty | Rope Reeling | Lifting Speed (m/min) | Lifting Motor (Kw)                         | Travelling Speed (m/min) | Travelling Motor (Kw)             | Rail width range W(mm) |         | Wire Rope Diameter (mm) | Wheel Diameter D(mm) | A (mm) | Hmin (mm) | Lifting height (m) |
|---------|--------------|------|--------------|-----------------------|--------------------------------------------|--------------------------|-----------------------------------|------------------------|---------|-------------------------|----------------------|--------|-----------|--------------------|
|         |              |      |              |                       |                                            |                          |                                   | I Beam                 | H Beam  |                         |                      |        |           |                    |
| SHA8-2D | 1            | M7   | 2/1          | 10/1.6                | 3.2/0.45                                   | 20/5                     | 2*<br>0.37/0.1                    | 100~180                | 100~400 | 7                       | 100                  | 220    | 600       | 12/18/24/30        |
|         | 1.25         | M6   | 2/1          | 10/1.6                |                                            |                          |                                   |                        |         |                         |                      |        |           |                    |
|         | 1.6          | M5   | 2/1          | 10/1.6                |                                            |                          |                                   |                        |         |                         |                      |        |           |                    |
|         | 2            | M7   | 4/1          | 5/0.8                 |                                            |                          |                                   |                        |         |                         |                      |        | 510       | 6/9/12/15          |
|         | 2.5          | M6   | 4/1          | 5/0.8                 |                                            |                          |                                   |                        |         |                         |                      |        |           |                    |
| SHA8-3D | 3.2          | M5   | 4/1          | 5/0.8                 | 6.0/0.9                                    | 20/5                     | 2*<br>0.37/0.1                    | 110~180                | 110~460 | 9                       | 125                  | 249    | 700       | 12/18/24/30        |
|         | 2            | M6   | 2/1          | 10/1.6                |                                            |                          |                                   |                        |         |                         |                      |        |           |                    |
|         | 2.5          | M5   | 2/1          | 10/1.6                |                                            |                          |                                   |                        |         |                         |                      |        |           |                    |
|         | 3.2          | M4   | 2/1          | 10/1.6                |                                            |                          |                                   |                        |         |                         |                      |        | 600       | 6/9/12/15          |
|         | 4            | M6   | 4/1          | 5/0.8                 |                                            |                          |                                   |                        |         |                         |                      |        |           |                    |
| SHA8-4D | 5            | M5   | 4/1          | 5/0.8                 | 9.5/1.5<br>12.5/1.9<br>9.5/1.5<br>12.5/1.9 | 20/5                     | 2*<br>0.37/0.1<br>2*<br>0.75/0.18 | 120~180                | 120~460 | 13                      | 150                  | 336    | 900       | 12/18/24/30        |
|         | 4            | M6   | 2/1          | 10/1.6                |                                            |                          |                                   |                        |         |                         |                      |        |           |                    |
|         | 5            | M5   | 2/1          | 10/1.6                |                                            |                          |                                   |                        |         |                         |                      |        |           |                    |
|         | 6.3          | M4   | 2/1          | 10/1.6                |                                            |                          |                                   |                        |         |                         |                      |        | 800       | 6/9/12/15          |
|         | 8            | M6   | 4/1          | 5/0.8                 |                                            |                          |                                   |                        |         |                         |                      |        |           |                    |
|         | 10           | M5   | 4/1          | 5/0.8                 |                                            |                          |                                   |                        |         |                         |                      |        |           |                    |
|         | 12.5         | M4   | 4/1          | 5/0.8                 |                                            |                          |                                   |                        |         |                         |                      |        |           |                    |

Note: Inverter motor is for optional for lifting motor and travelling motor



# SHA 8

Double Girder Hoist



SHA8 Double girder hoist-BS type

| Model  | Rope<br>Reeving | Capacity/ ISO Duty |     |     |    |     |    |    |      |    |    |    |    |    |    |    |    |     |     | Drum<br>Diameter | Wire Rope<br>Diameter |
|--------|-----------------|--------------------|-----|-----|----|-----|----|----|------|----|----|----|----|----|----|----|----|-----|-----|------------------|-----------------------|
|        |                 | 1.6                | 2.5 | 3.2 | 5  | 6.3 | 8  | 10 | 12.5 | 16 | 20 | 25 | 32 | 40 | 50 | 63 | 80 | 100 | mm  | mm               |                       |
| SHA8-3 | 2/1             | M6                 | M5  | M4  |    |     |    |    |      |    |    |    |    |    |    |    |    |     | 193 | 9                |                       |
|        | 4/1             |                    |     | M6  | M5 | M4  |    |    |      |    |    |    |    |    |    |    |    |     |     |                  |                       |
| SHA8-4 | 2/1             |                    |     | M6  | M5 | M4  |    |    |      |    |    |    |    |    |    |    |    |     | 271 | 13               |                       |
|        | 4/1             |                    |     |     |    |     | M6 | M5 | M4   |    |    |    |    |    |    |    |    |     |     |                  |                       |
| SHA8-5 | 2/1             |                    |     |     |    |     | M6 | M5 | M4   |    |    |    |    |    |    |    |    |     | 327 | 18               |                       |
|        | 4/1             |                    |     |     |    |     |    |    |      | M6 | M5 | M4 |    |    |    |    |    |     |     | 11               |                       |
|        | 8/2             |                    |     |     |    |     |    |    |      | M6 | M5 | M4 |    |    |    |    |    |     |     | 18               |                       |
|        | 12/2            |                    |     |     |    |     |    |    |      |    |    | M6 | M5 |    |    |    |    |     |     |                  |                       |
|        | 8/2D            |                    |     |     |    |     |    |    |      |    |    |    | M6 | M5 | M4 |    |    |     |     |                  |                       |
|        | 10/2D           |                    |     |     |    |     |    |    |      |    |    |    |    |    | M6 | M5 | M4 |     |     |                  |                       |
| SHA8-6 | 2/1             |                    |     |     |    |     |    |    | M6   | M5 | M4 |    |    |    |    |    |    |     | 405 | 20               |                       |
|        | 4/1             |                    |     |     |    |     |    |    |      |    |    | M6 | M5 | M4 |    |    |    |     |     | 15               |                       |
|        | 8/2             |                    |     |     |    |     |    |    |      |    |    | M6 | M5 | M4 |    |    |    |     |     |                  |                       |
|        | 12/2            |                    |     |     |    |     |    |    |      |    |    |    |    | M6 | M5 | M4 |    |     |     |                  |                       |
|        | 16/2            |                    |     |     |    |     |    |    |      |    |    |    |    |    | M6 | M5 | M4 |     |     |                  |                       |
|        | 8/2D            |                    |     |     |    |     |    |    |      |    |    |    |    |    |    |    | M5 | M4  |     |                  |                       |
|        | 10/2D           |                    |     |     |    |     |    |    |      |    |    |    |    |    |    |    |    | M5  |     | M4               | 20                    |

Note : D is double drum structure

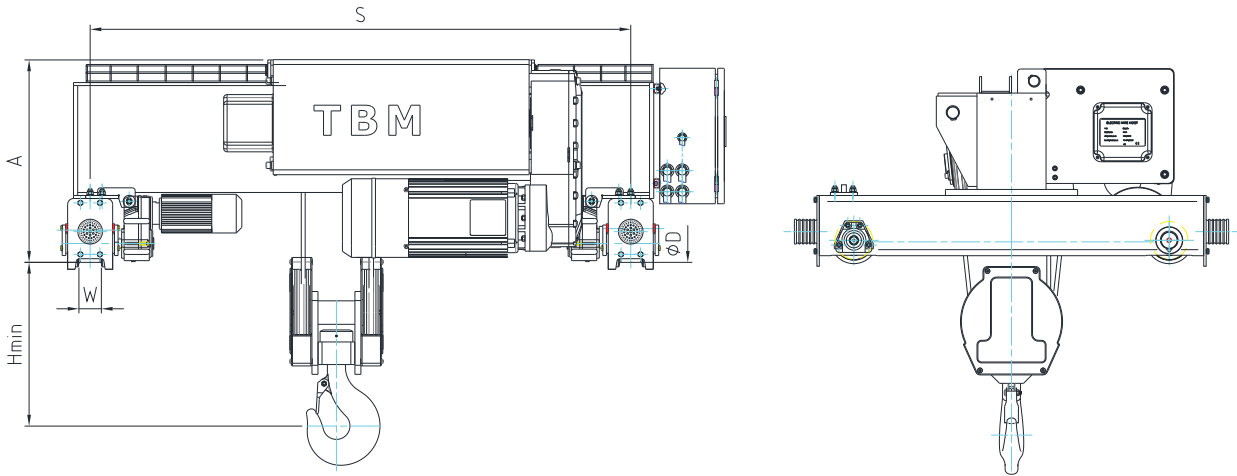
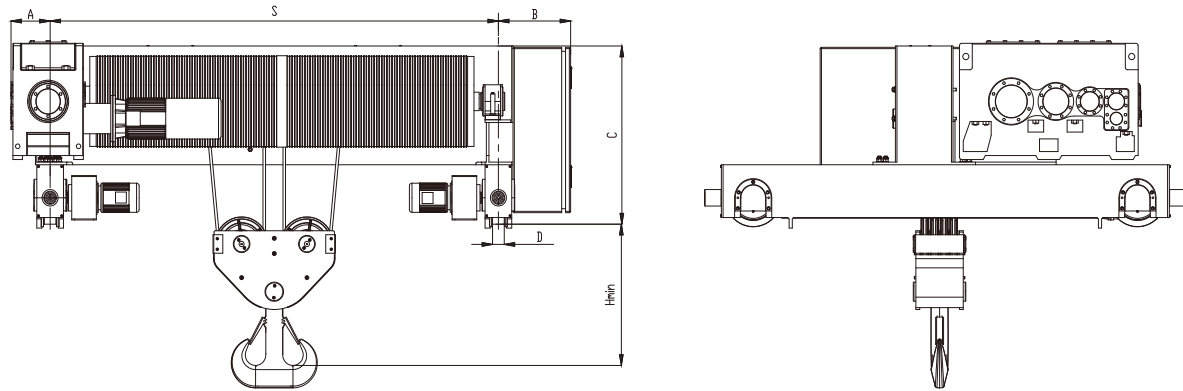
SHA 8 Double Girder Hoist

SHA 8 Winch

Technical Parameters

| Model  | Rope Reeving | Lifting Motor         | Lifting Speed | Travelling Motor | Travelling Speed | Wheel Diameter D | Hmin | A    | W    | Rail Gauge S | Lifting height |
|--------|--------------|-----------------------|---------------|------------------|------------------|------------------|------|------|------|--------------|----------------|
|        |              | (kw)                  | (m/min)       | (kw)             | (m/min)          | (mm)             | (mm) | (mm) | (mm) | (mm)         | (m)            |
| SHA8-3 | 2/1          | 6.0/0.9               | 10/1.6        | 2*0.37           | 0-20             | 125              | 450  | 550  | 65   | 1200-2000    | 12-30          |
|        | 4/1          |                       | 5/0.8         | 2*0.37           | 0-20             | 125              | 350  | 550  | 65   | 1200-2000    | 6-15           |
| SHA8-4 | 2/1          | 9.5/1.5<br>(12.5/1.9) | 10/1.6        | 2*0.37           | 0-20             | 125              | 600  | 650  | 65   | 1400-2300    | 12-30          |
|        | 4/1          |                       | 5/0.8         | 2*0.55           | 0-20             | 125              | 500  | 650  | 65   | 1400-2300    | 6-15           |
| SHA8-5 | 2/1          | 16/2.6                | 8/2           | 2*0.55           | 0-20             | 125              | 750  | 780  | 65   | 1400-2700    | 12-40          |
|        | 4/1          |                       | 4/1           | 2*1.1            | 0-20             | 160              | 750  | 800  | 75   | 1400-2700    | 6-20           |
|        | 8/2          |                       | 4/1           | 2*1.1            | 0-20             | 160              | 900  | 800  | 75   | 1700-3000    | 10-20          |
|        | 12/2         | 2*<br>16/2.6          | 2.7/0.67      | 2*1.5            | 0-20             | 200              | 1200 | 900  | 85   | 1700-3000    | 6.5-13         |
|        | 8/2D         |                       | 4/1           | 2*2.2            | 0-20             | 250              | 1000 | 1100 | 90   | 1700-3400    | 6-20           |
|        | 10/2D        |                       | 3.2/0.8       | 2*3              | 0-20             | 315              | 1300 | 1150 | 95   | 1700-3400    | 7-16           |
| SHA8-6 | 2/1          | 38                    | 0-9.8         | 2*1.1            | 0-20             | 160              | 1000 | 1000 | 75   | 1700-3000    | 12-45          |
|        | 4/1          |                       | 0-4.9         | 2*1.5            | 0-20             | 200              | 1000 | 1100 | 85   | 1700-3000    | 6-22.5         |
|        | 8/2          |                       | 0-4.9         | 2*1.5            | 0-20             | 200              | 900  | 1100 | 85   | 2000-3400    | 9-22.5         |
|        | 12/2         |                       | 0-3.3         | 2*3              | 0-20             | 315              | 1500 | 1200 | 95   | 2000-3400    | 6-15           |
|        | 16/2         | 2*38                  | 0-2.45        | 2*4              | 0-20             | 400              | 2500 | 1200 | 105  | 2000-3400    | 4.5-11         |
|        | 8/2D         |                       | 0-4.9         | 2*4              | 0-20             | 400              | 1200 | 1400 | 105  | 2000-3400    | 6-22.5         |
|        | 10/2D        |                       | 0-3.9         | 2*4              | 0-20             | 400              | 2000 | 1400 | 105  | 2000-3400    | 7-18           |
|        |              |                       |               |                  |                  |                  |      |      |      |              |                |

Note: D is double drum structure:SHA8-6 type lifting motor is frequency control, other models also can choose frequency control motor



Technical Parameters

| Model  | Capacity (t) | Duty | Rope Reeving | Lifting Speed (m/min) | Lifting Motor (kw) | Travelling Speed (m/min) | Travelling Motor (kw) | A mm | B mm | C mm | D mm | Hmin mm | Wire Rope Diameter φ mm | Rail Gauge (S) |      |      |      |      | Size |
|--------|--------------|------|--------------|-----------------------|--------------------|--------------------------|-----------------------|------|------|------|------|---------|-------------------------|----------------|------|------|------|------|------|
|        |              |      |              |                       |                    |                          |                       |      |      |      |      |         |                         | 9m             | 12m  | 18m  | 24m  | 30m  |      |
| SHA-W1 | 20           | M5   | 4/2          | 0~4.4                 | 18.5               | 0~20                     | 2×1.1                 | 280  | 500  | 1100 | 75   | 800     | 15                      | /              | /    | 1800 | 2000 | 2500 | S    |
|        | 32           | M5   | 8/2          | 0~2.7                 | 18.5               | 0~20                     | 2×1.5                 | 280  | 500  | 1100 | 75   | 900     | 15                      | 1500           | 1800 | 2200 | 2700 | 3200 | S    |
|        | 40           | M5   | 8/2          | 0~2.2                 | 18.5               | 0~20                     | 2×2.2                 | 280  | 530  | 1100 | 85   | 1000    | 15                      | 1800           | 2000 | 2500 | 3000 | 3600 | S    |
|        | 50           | M5   | 12/2         | 0~3                   | 18.5               | 0~20                     | 2×2.2                 | 280  | 530  | 1100 | 85   | 1000    | 15                      | 1800           | 2000 | 2500 | 3000 | 3600 | S    |
| SHA-W2 | 32           | M5   | 4/2          | 0~6                   | 22                 | 0~20                     | 2×1.5                 | 400  | 530  | 1400 | 75   | 800     | 18                      | /              | /    | 1500 | 1800 | 2000 | S    |
|        | 63           | M5   | 8/2          | 0~3                   | 22                 | 0~20                     | 2×3                   | 400  | 530  | 1400 | 85   | 1000    | 18                      | 1500           | 1800 | 2200 | 2500 | 3000 | S    |
|        | 80           | M5   | 12/2         | 0~2                   | 38                 | 0~20                     | 2×4                   | 400  | 600  | 1400 | 95   | 1050    | 18                      | 1800           | 2200 | 2800 | 3500 | 4200 | S    |
|        | 100          | M5   | 16/2         | 0~1.5                 | 38                 | 0~20                     | 2×4                   | 400  | 600  | 1400 | 95   | 1100    | 18                      | 2200           | 2500 | 3500 | 4300 | /    | S    |



SHA7 Standard Headroom  
(1.6t-20t)



SHA7 Double Rail Hoist  
(1.6t-20t)



SHA7 Foot-mounted Hoist  
(1.6t-20t)



SHA7 Low Headroom  
(1.6t-20t)



SHA7 Standard Headroom  
(1.6t-20t)



# SHA 7

## Low-headroom Electric Wire Rope Hoist

### Electronic unit

- Stable and durable contactor control, reliably work in bad condition
- Standard three phase voltage:380-415v,50hz(440-480v,60hz)
- Standard control voltage:48v
- Sturdy and durable control panel, IP54 protecting level

### Control System

- Automatic orientation
- Automatic centering
- Automatic rectify deviation
- Inch moving ,joggle
- Anti-shock
- Regional Protection
- Electronic anti-sway
- Remote communication, digital maintenance



### Travelling driving unit

- Motor,gearbox and brake three-in-one
- Compact structure ,small size and light weight
- Direct drive flexible design, stable torque transfer
- 30% rotational efficiency higher than traditional coupling
- Suitable for frequency reverse switching
- Squirrel cage variable frequency motor, 60% ED
- IP55 protecting level, H level insulation
- Safe and reliable DC brake
- Aluminum alloy shell, hard tooth surface reducer, well sealing without oil leakage

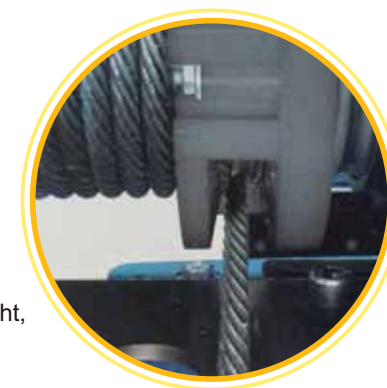


### Hook Assembly

- Match to the standard of DIN15400/15401, forged by high strength alloy steel
- With safety latch to protect safely
- 360° horizontal and 180° vertical rotations operation easily
- High strength extrusion pulley, high finish rope groove to avoid friction with wire rope

### Rope guider

- Circular design
- Precise rope guide system
- High performance engineering material,light weight, sturdy and reliable

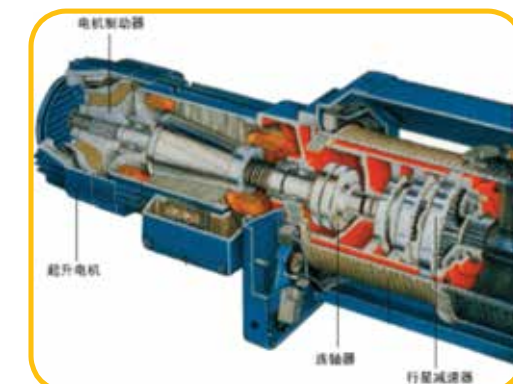
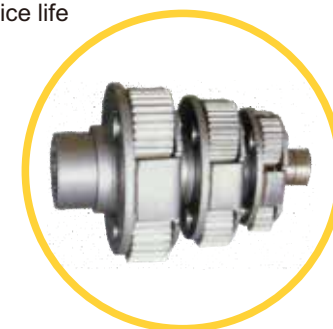


### Wire Rope

- High strength pressed solid galvanized wire rope
- 1770N/mm<sup>2</sup> tensile strength
- More 5 times safety factor
- Good flexibility and long service life
- 40% smaller than traditional wire rope
- Press rope block for special use, intensively layout to prevent form loose, fastening is more reliable
- Fusible cutout rope technology,fusible surface is firm
- Effectively prevent from loose to extend service life

### Lifting drive unit

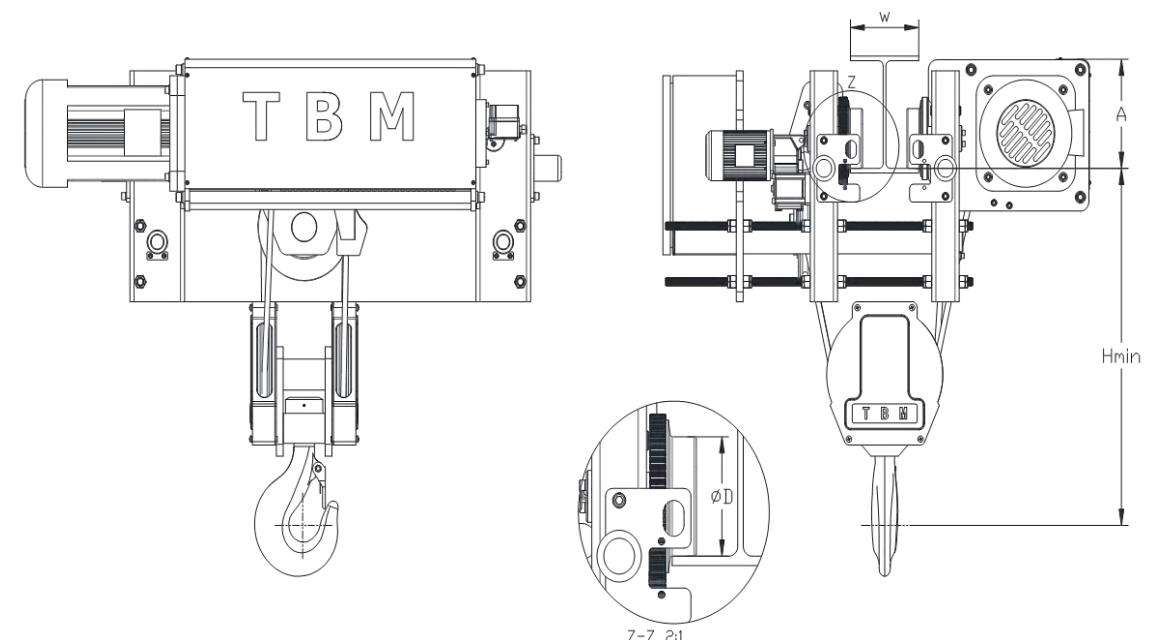
- High reliability single speed lifting motor,optional double speed.
- IP54 protecting level, B level insulation
- High-tech totally enclosed planetary gearbox
- Quenched and fine ground gear makes motor stable and low notice
- Free maintenance design:no need to change lubrication oil in lifetime
- Reliable and safety brake,without asbestos
- The safety factor of brake is higher than 180%, manual release for optional





# SHA 7

Low Headroom Wire Rope Hoist



## Technical Parameters

| Model   | Capacity (t) | Working Grade | Rope Reeving | Lifting Speed (m/min) | Lifting Motor (kw) | Travelling Speed (m/min) | Travelling Motor (kw) | Rail Width Range W (mm) |         | Wire Rope Diameter (mm) | Wheel Diameter D (mm) | A (mm) | Hmin (mm) | Lifting Height (m) |
|---------|--------------|---------------|--------------|-----------------------|--------------------|--------------------------|-----------------------|-------------------------|---------|-------------------------|-----------------------|--------|-----------|--------------------|
|         |              |               |              |                       |                    |                          |                       | I-Beam                  | H-Beam  |                         |                       |        |           |                    |
| SHA7-4D | 1.6          | M4            | 2/1          | 9/2.2                 | 3/0.8              | 20/5                     | 0.37/0.1 x2           | 100-180                 | 100-400 | 8                       | 100                   | 220    | 600       | 12/18/24/30        |
|         | 3.2          | M4            | 4/1          | 4.5/1.1               | 3/0.8              | 20/5                     | 0.37/0.1 x2           | 100-180                 | 100-400 | 8                       | 100                   | 220    | 550       | 6/9/12/15          |
| SHA7-5D | 3.2          | M4            | 2/1          | 8/2                   | 4.5/1.1            | 20/5                     | 0.37/0.1 x2           | 110-180                 | 110-460 | 11                      | 125                   | 220    | 750       | 9/12/18/24         |
|         | 5/6.3        | M4            | 4/1          | 4/1                   | 4.5/1.1            | 20/5                     | 0.37/0.1 x2           | 110-180                 | 110-460 | 11                      | 125                   | 220    | 650       | 6/9/12             |
| SHA7-6D | 5            | M4            | 2/1          | 8/2                   | 7.5/2              | 20/5                     | 0.37/0.1 x2           | 120-180                 | 120-460 | 15                      | 150                   | 270    | 950       | 12/18/24           |
|         | 10           | M4            | 4/1          | 4/1                   | 7.5/2              | 20/5                     | 0.75/0.18 x2          | 120-180                 | 120-460 | 15                      | 150                   | 270    | 850       | 6/9/12             |

NOTE: Both Lifting and Travelling motor can be equipped with single speed or inverter motor. The power value is the fast power value.





# SHA 7

## Monorail Electric Wire Rope Hoist

- European safety and protection standard, High stability and efficiency.
- Better quality and cost-effective
- Quality products,excellent cost performance



### SHA7 Monorail Electric Wire Rope Hoist

- 1.Light weight ,small size,compact structure,smooth operation; especially suitable for the high lifts and short turning radius.
- 2.As per European security standard;adopts U-shaped connecting plate assembly;horizontal guide wheel device to ensure smooth running,reducing the resistance and improving the efficiency.
- 3.Trolley connecting channels ensure running of both the trolleys simultaneously
- 4.High strength suspension bolts allow the hoist to adopt flexible beam flange width;
- 5.Modular design of control box adopts first-class brand of electrical components ,protection for Phase fault , phase deficiency and short circuit.Frequency control system(VVFD) is available(optional) to make the operations more safe and smooth.
- 6.Integrated travel motion gear motor drive unit ensures smooth operation,long life and low noise;
- 7.The planetary gearbox has advantages of light weight ,compact size,high efficiency,stable ooperation and low noise.
- 8.Based on traditional CD/MD type hoist,TBM has improved to SHA7 that makes it superior over similar products.

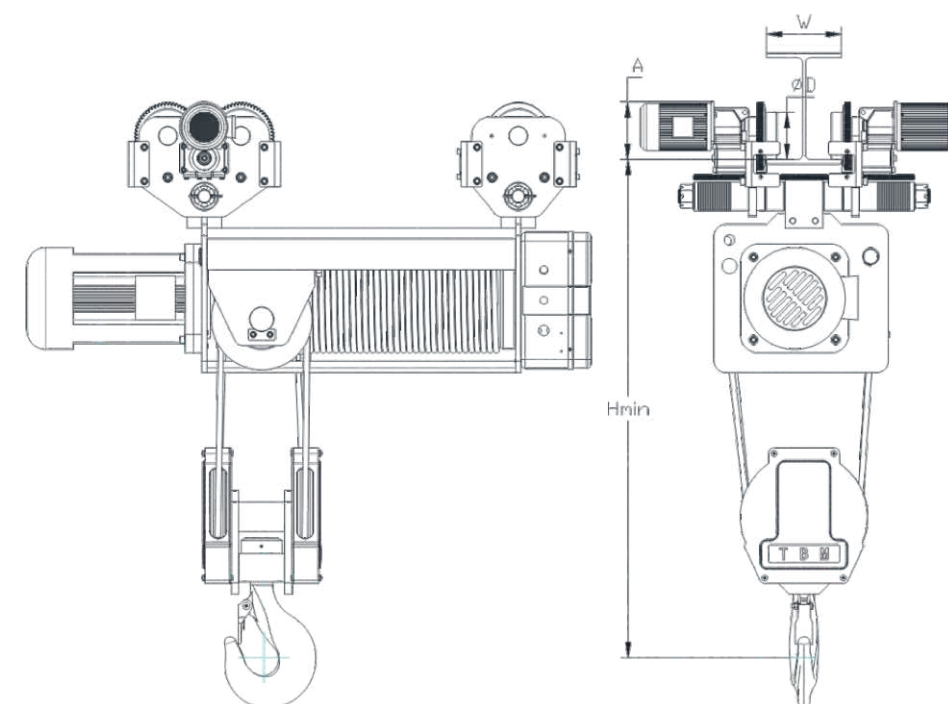


# SHA 7

## Monorail Electric Wire Rope Hoist



**TBM** Electric hoist with its excellent cost performance, has been leading the development of electric hoist industry, always provide customers with the optimal material handling scheme



### Technical Parameters

| Model   | Capacity (t) | Working Grade | Rope Reeving | Lifting Speed (m/min) | Lifting Motor (kw) | Travelling Speed (m/min) | Travelling Motor (kw) | Rail Width Range W (mm) |         | Wire Rope Diameter (mm) | Wheel Diameter D (mm) | A (mm) | Hmin (mm) | Lifting Height (m) |
|---------|--------------|---------------|--------------|-----------------------|--------------------|--------------------------|-----------------------|-------------------------|---------|-------------------------|-----------------------|--------|-----------|--------------------|
|         |              |               |              |                       |                    |                          |                       | I-Beam                  | H-Beam  |                         |                       |        |           |                    |
| SHA7-4B | 1.6          | M4            | 2/1          | 9/2.2                 | 3/0.8              | 20/5                     | 0.37/0.1              | 100-180                 | 100-420 | 8                       | 100                   | 157    | 1050      | 9/12/18/24/30      |
|         | 3            | M4            | 4/1          | 4.5/1.1               | 3/0.8              | 20/5                     | 0.37/0.1              | 100-180                 | 100-420 | 8                       | 100                   | 157    | 1000      | 6/9/12/15          |
| SHA7-5B | 3            | M4            | 2/1          | 8/2                   | 4.5/1.1            | 20/5                     | 0.37/0.1              | 100-180                 | 100-420 | 11                      | 100                   | 157    | 1200      | 9/12/18/24/30      |
|         | 6.3          | M4            | 4/1          | 4/1                   | 4.5/1.1            | 20/5                     | 0.75/0.18             | 110-180                 | 110-420 | 11                      | 100                   | 157    | 1100      | 6/9/12/15          |
| SHA7-6B | 5            | M4            | 2/1          | 8/2                   | 7.5/2              | 20/5                     | 0.75/0.18             | 110-180                 | 110-420 | 15                      | 100                   | 157    | 1300      | 9/12/18/24/30      |
|         | 10           | M4            | 4/1          | 4/1                   | 7.5/2              | 20/5                     | 0.75/0.18×2           | 120-180                 | 120-460 | 15                      | 125                   | 160    | 1300      | 6/9/12/15          |
| SHA7-7B | 10           | M4            | 2/1          | 7/1.8                 | 13/3.4             | 20/5                     | 0.75/0.18×2           | 120-180                 | 120-460 | 18                      | 125                   | 160    | 1450      | 9/12/18/24/30      |
|         | 20           | M4            | 4/1          | 3.5/0.9               | 13/3.4             | 20/5                     | 0.75/0.18×2           | 130-180                 | 130-300 | 18                      | 150                   | 180    | 1400      | 6/9/12/15          |

NOTE: Both Lifting and Travelling motor can be equipped with single speed or inverter motor, The power value is the fast power value.

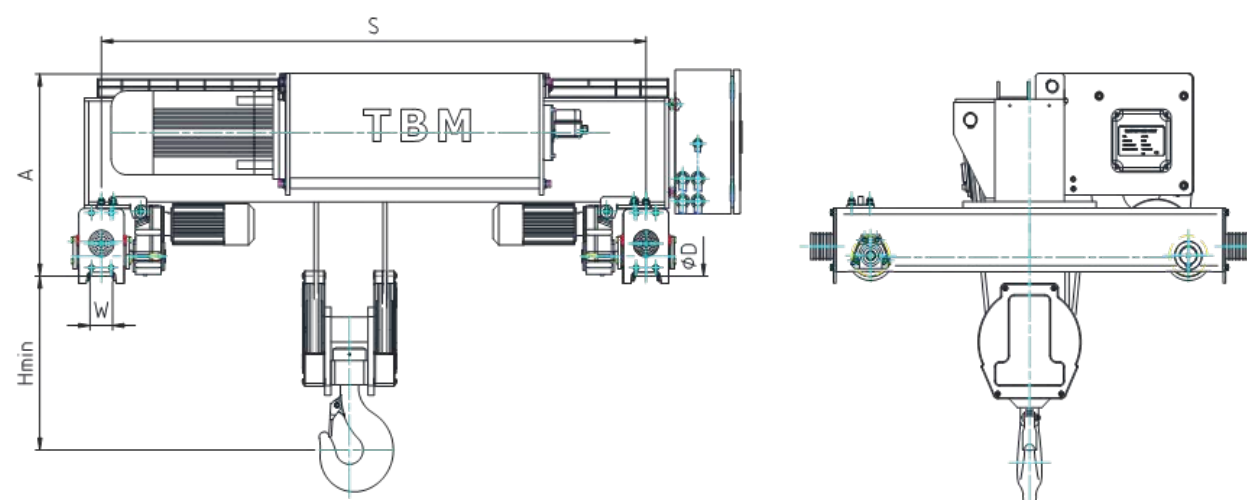


Detailed design ensures smart appearance of the hoist, integrated with high strength trolley assembly, drive motor, modular control box etc. It also ensures safety, reliability and cost-effectiveness.



# SHA 7

Double-rail Hoist



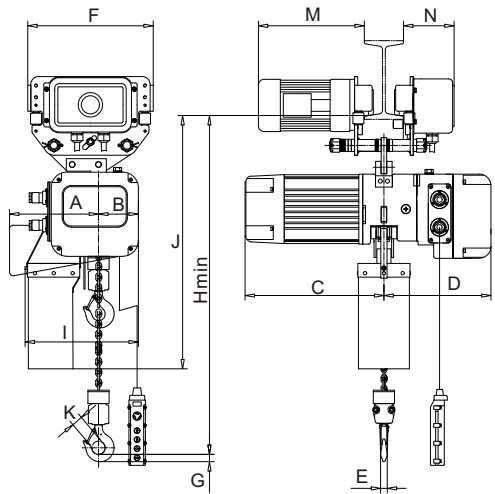
## Technical Parameters

| Model     | Rope Reaving | Lifting Motor<br>(kw) | Lifting Speed<br>(m/min) | Travelling Motor<br>(kw) | Travelling Speed<br>(m/min) | Wheel Diameter<br>(mm) | Hmin<br>(mm) | A<br>(mm) | W<br>(mm) | Rail Gauge<br>S<br>(mm) | Lifting Height<br>(m) | Capacity<br>(t) | ISO/GB Working Grade | Drum Diameter<br>mm | Wire Rope Diameter<br>mm |
|-----------|--------------|-----------------------|--------------------------|--------------------------|-----------------------------|------------------------|--------------|-----------|-----------|-------------------------|-----------------------|-----------------|----------------------|---------------------|--------------------------|
| SHA7-5BS  | 2/1          | 4.5/1.1               | 8/2                      | 2*0.37                   | 0~20                        | 125                    | 450          | 550       | 65        | 1200~2000               | 12~30                 | 3               | M4                   | 247                 | 11                       |
|           | 4/1          |                       | 4/1                      | 2*0.37                   | 0~20                        | 125                    | 350          | 550       | 65        | 1200~2000               | 6~15                  | 6.3             | M4                   |                     |                          |
| SHA7-6BS  | 2/1          | 7.5/2                 | 8/2                      | 2*0.37                   | 0~20                        | 125                    | 600          | 650       | 65        | 1400~2300               | 12~30                 | 5               | M4                   | 275                 | 15                       |
|           | 4/1          |                       | 4/1                      | 2*0.55                   | 0~20                        | 125                    | 500          | 650       | 65        | 1400~2300               | 6~15                  | 10              | M4                   |                     |                          |
| SHA7-7BS  | 2/1          | 13/3.4                | 7/1.8                    | 2*0.55                   | 0~20                        | 125                    | 750          | 780       | 65        | 1400~2600               | 9~36                  | 10              | M4                   | 327                 | 18                       |
|           | 4/1          |                       | 3.5/0.9                  | 2*1.1                    | 0~20                        | 160                    | 750          | 800       | 75        | 1400~2600               | 6~18                  | 20              | M4                   |                     |                          |
|           | 8/2          |                       | 3.5/0.9                  | 2*1.1                    | 0~20                        | 160                    | 900          | 800       | 75        | 1700~3000               | 9~18                  | 20              | M4                   |                     | 11                       |
|           | 12/2         |                       | 2.3/0.6                  | 2*1.5                    | 0~20                        | 200                    | 1200         | 900       | 85        | 1700~3000               | 6~12                  | 30              | M4                   |                     |                          |
| SHA7-9BS  | 2/1          | 18.5/4.6              | 6/1.5                    | 2*0.75                   | 0~20                        | 160                    | 1000         | 1000      | 75        | 1700~3000               | 12~45                 | 16              | M4                   | 405                 | 20                       |
|           | 4/1          |                       | 3/0.75                   | 2*1.5                    | 0~20                        | 200                    | 1000         | 1100      | 85        | 1700~3000               | 6~22.5                | 32              | M4                   |                     |                          |
|           | 8/2          |                       | 3/0.75                   | 2*1.5                    | 0~20                        | 200                    | 900          | 1100      | 85        | 2000~3400               | 9~22.5                | 32              | M4                   |                     | 15                       |
|           | 12/2         |                       | 2/0.5                    | 2*2.2                    | 0~20                        | 250                    | 1500         | 1200      | 90        | 2000~3400               | 6~15                  | 48              | M4                   |                     |                          |
| SHA7-10BS | 2/1          | 22/5.5                | 6/1.5                    | 2*1.1                    | 0~20                        | 160                    | 1000         | 1000      | 75        | 1700~3000               | 12~45                 | 20              | M4                   | 405                 | 20                       |
|           | 4/1          |                       | 3/0.75                   | 2*1.5                    | 0~20                        | 200                    | 1000         | 1100      | 85        | 1700~3000               | 6~22.5                | 40              | M4                   |                     |                          |
|           | 8/2          |                       | 3/0.75                   | 2*1.5                    | 0~20                        | 200                    | 900          | 1100      | 85        | 2000~3400               | 9~22.5                | 40              | M4                   |                     | 15                       |
|           | 12/2         |                       | 2/0.5                    | 2*3                      | 0~20                        | 315                    | 1500         | 1200      | 95        | 2000~3400               | 6~15                  | 60              | M4                   |                     |                          |
|           | 16/2         | 2*                    | 1.5/0.38                 | 2*4                      | 0~20                        | 400                    | 2500         | 1200      | 105       | 2000~3400               | 4.5~11                | 80              | M4                   |                     | 20                       |
|           | 8/2D         |                       | 3/0.75                   | 2*4                      | 0~20                        | 400                    | 1200         | 1400      | 105       | 2000~3400               | 6~22.5                | 80              | M4                   |                     |                          |
|           | 10/2D        |                       | 2.4/0.6                  | 2*4                      | 0~20                        | 400                    | 2000         | 1400      | 105       | 2000~3400               | 7~18                  | 100             | M4                   |                     |                          |

NOTE: D is for Double Drum structure, Lifting and Travelling motor can be equipped with single speed or inverter motor. The power value is the fast power value

# SHH-EC

ELECTRIC CHAIN HOIST WITH  
ELECTRIC TROLLEY



## Technical Parameter

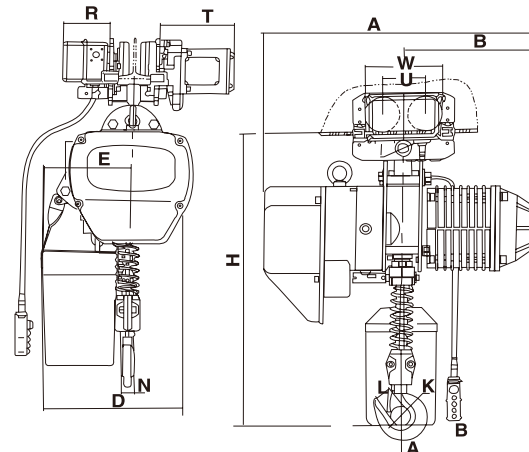
| Model       | Capacity | Classification<br>FEM/ISO | Duty Rating<br>%ED | Lifting Speed<br>m/min | Lifting Motor<br>Power<br>Kw | Load Chain<br>mm | Load Chain<br>Falls | Traveling Speed<br>m/min | Traveling Motor<br>Power<br>Kw | Beam Flange<br>mm | Net Weight<br>kg |
|-------------|----------|---------------------------|--------------------|------------------------|------------------------------|------------------|---------------------|--------------------------|--------------------------------|-------------------|------------------|
| SHH-EC003S1 | 250kg    | 2m/M5                     | 50                 | 7                      | 0.9                          | Φ5x15            | 1                   | 13.5                     | 0.2                            | 74-140            | 71               |
| SHH-EC003D1 |          | 33/17                     | 33/17              | 7/2.3                  | 0.9/0.3                      |                  |                     | 20/6.7                   | 0.2/0.067                      |                   | 95               |
| SHH-EC003H1 |          | 1Am/M4                    | 26/14              | 14/3.5                 | 1.6/0.4                      |                  |                     | 20/6.7                   | 0.2/0.067                      |                   | 96               |
| SHH-EC005S1 | 500kg    | 2m/M5                     | 50                 | 7.6                    | 0.9                          | Φ6.3x19          | 1                   | 13.5                     | 0.2                            | 74-140            | 72               |
| SHH-EC005D1 |          | 33/17                     | 33/17              | 7.6/2.5                | 0.9/0.3                      |                  |                     | 20/6.7                   | 0.2/0.067                      |                   | 96               |
| SHH-EC005H1 |          | 1Am/M4                    | 26/14              | 15/3.8                 | 1.6/0.4                      |                  |                     | 20/6.7                   | 0.2/0.067                      |                   | 97               |
| SHH-EC010S1 | 1t       | 2m/M5                     | 50                 | 5                      | 1.1                          | Φ8x24            | 1                   | 13.5                     | 0.2                            | 74-140            | 76               |
| SHH-EC010D1 |          | 33/17                     | 33/17              | 5/1.7                  | 1.1/0.37                     |                  |                     | 20/6.7                   | 0.2/0.067                      |                   | 100              |
| SHH-EC010H1 |          | 1Am/M4                    | 26/14              | 10/2.5                 | 2.2/0.55                     |                  |                     | 20/6.7                   | 0.2/0.067                      |                   | 99               |
| SHH-EC020S2 | 2t       | 2m/M5                     | 50                 | 2.5                    | 1.1                          | Φ8x24            | 2                   | 13.5                     | 0.4                            | 74-140            | 97               |
| SHH-EC020D2 |          | 33/17                     | 33/17              | 2.5/0.9                | 1.1/0.37                     |                  |                     | 20/6.7                   | 0.4/0.13                       |                   | 111              |
| SHH-EC020H2 |          | 1Am/M4                    | 26/14              | 5/1.3                  | 2.2/0.55                     |                  |                     | 20/6.7                   | 0.4/0.13                       |                   | 110              |
| SHH-EC020S1 | 2t       | 2m/M5                     | 50                 | 6.6                    | 3.6                          | Φ10x30           | 1                   | 13.5                     | 0.4                            | 100-170           | 152              |
| SHH-EC020D1 |          | 33/17                     | 33/17              | 6.6/2.2                | 3.6/1.2                      |                  |                     | 18/6                     | 0.4/0.13                       |                   | 178              |
| SHH-EC030S1 |          | 2m/M5                     | 50                 | 6                      | 3.6                          | Φ11.2x34         | 1                   | 13.5                     | 0.4                            | 100-170           | 154              |
| SHH-EC030D1 | 3t       | 33/17                     | 33/17              | 6/2                    | 3.6/1.2                      |                  |                     | 18/6                     | 0.4/0.13                       |                   | 180              |
| SHH-EC050S2 |          | 50                        | 50                 | 3                      | 3.6                          |                  |                     | 13.5                     | 0.75                           |                   | 192              |
| SHH-EC050D2 | 5t       | 2m/M5                     | 33/17              | 3/1                    | 3.6/1.2                      | Φ11.2x34         | 2                   | 18/6                     | 0.75/0.25                      | 100-170           | 222              |

| Model       | Capacity | Hmin | A   | B   | C   | D   | E  | F   | G  | I   | J   | K  | M   | N   |
|-------------|----------|------|-----|-----|-----|-----|----|-----|----|-----|-----|----|-----|-----|
| SHH-EC003S1 | 250kg    | 476  | 200 | 102 | 302 | 273 | 18 | 320 | 22 | 295 | 690 | 27 | 290 | 130 |
| SHH-EC003D1 | 250kg    | 476  | 200 | 102 | 334 | 273 | 18 | 320 | 22 | 295 | 690 | 27 | 336 | 130 |
| SHH-EC003H1 | 250kg    | 476  | 200 | 102 | 354 | 273 | 18 | 320 | 22 | 295 | 690 | 27 | 336 | 130 |
| SHH-EC005S1 | 500kg    | 476  | 200 | 102 | 302 | 273 | 18 | 320 | 22 | 295 | 690 | 27 | 290 | 130 |
| SHH-EC005D1 | 500kg    | 476  | 200 | 102 | 334 | 273 | 18 | 320 | 22 | 295 | 690 | 27 | 336 | 130 |
| SHH-EC005H1 | 500kg    | 476  | 200 | 102 | 354 | 273 | 18 | 320 | 22 | 295 | 690 | 27 | 336 | 130 |
| SHH-EC010S1 | 1t       | 506  | 200 | 102 | 302 | 273 | 20 | 320 | 25 | 295 | 690 | 31 | 290 | 130 |
| SHH-EC010D1 | 1t       | 506  | 200 | 102 | 354 | 273 | 20 | 320 | 25 | 295 | 690 | 31 | 336 | 130 |
| SHH-EC010H1 | 1t       | 506  | 200 | 102 | 484 | 273 | 20 | 320 | 25 | 295 | 690 | 31 | 336 | 130 |
| SHH-EC020S2 | 2t       | 678  | 243 | 59  | 302 | 273 | 27 | 320 | 43 | 295 | 690 | 38 | 315 | 132 |
| SHH-EC020D2 | 2t       | 678  | 243 | 59  | 354 | 273 | 27 | 320 | 43 | 295 | 690 | 38 | 338 | 132 |
| SHH-EC020H2 | 2t       | 678  | 243 | 59  | 484 | 273 | 27 | 320 | 43 | 295 | 690 | 38 | 338 | 132 |
| SHH-EC020S1 | 2t       | 670  | 243 | 165 | 358 | 336 | 27 | 370 | 43 | 460 | 810 | 38 | 319 | 135 |
| SHH-EC020D1 | 2t       | 670  | 243 | 165 | 451 | 336 | 27 | 370 | 43 | 460 | 810 | 38 | 338 | 135 |
| SHH-EC030S1 | 3t       | 670  | 243 | 165 | 358 | 336 | 27 | 370 | 43 | 460 | 810 | 38 | 319 | 135 |
| SHH-EC030D1 | 3t       | 670  | 243 | 165 | 451 | 336 | 27 | 370 | 43 | 460 | 810 | 38 | 338 | 135 |
| SHH-EC050S2 | 5t       | 890  | 298 | 110 | 358 | 336 | 35 | 410 | 51 | 460 | 830 | 52 | 359 | 135 |
| SHH-EC050D2 | 5t       | 890  | 298 | 110 | 451 | 336 | 35 | 410 | 51 | 460 | 830 | 52 | 389 | 135 |

- beam flange request is for optional.
- single phase is for optional.
- above parameter is for 380V~415V/50HZ/3PH standard.

# SHK-AM

ELECTRIC CHAIN HOIST WITH  
ELECTRIC TROLLEY



## Technical Parameter

| Model       | Capacity | Classification<br>FEM/ISO | Duty Rating<br>%ED | Lifting Speed<br>m/min | Lifting Motor<br>Power<br>Kw | Traveling Speed<br>m/min | Traveling Motor<br>Power<br>Kw | Beam Flange<br>mm | Load Chain<br>mm | Load Chain<br>Falls | Net Weight<br>kg |
|-------------|----------|---------------------------|--------------------|------------------------|------------------------------|--------------------------|--------------------------------|-------------------|------------------|---------------------|------------------|
| SHK-AM005S1 | 500kg    | 1Am/M4                    | 30                 | 7.2                    | 1.1                          | 11                       | 0.4                            | 75 -178           | 6.3              | 1                   | 83               |
| SHK-AM005D1 |          |                           | 20/10              | 7.2/2.4                | 1.1/0.37                     |                          |                                |                   |                  |                     | 90               |
| SHK-AM010S1 | 1t       | 1Am/M4                    | 30                 | 6.8                    | 1.5                          | 11                       | 0.4                            | 75 -178           | 7.1              | 1                   | 101              |
| SHK-AM010D1 |          |                           | 20/10              | 6.8/2.3                | 1.5/0.5                      |                          |                                |                   |                  |                     | 111              |
| SHK-AM020S2 | 2t       | 1Am/M4                    | 30                 | 3.4                    | 1.5                          | 11                       | 0.4                            | 82 -178           | 7.1              | 2                   | 116              |
| SHK-AM020D2 |          |                           | 20/10              | 3.4/1.1                | 1.5/0.5                      |                          |                                |                   |                  |                     | 126              |
| SHK-AM020S1 | 2t       | 1Am/M4                    | 30                 | 6.6                    | 3.0                          | 11                       | 0.4                            | 82 -178           | 10               | 1                   | 153              |
| SHK-AM020D1 |          |                           | 20/10              | 6.6/2.2                | 3.0/1.0                      |                          |                                |                   |                  |                     | 171              |
| SHK-AM030S2 | 3t       | 1Am/M4                    | 30                 | 3.3                    | 3.0                          | 11                       | 0.75                           | 100 -178          | 10               | 2                   | 205              |
| SHK-AM030D2 |          |                           | 20/10              | 3.3/1.1                | 3.0/1.0                      |                          |                                |                   |                  |                     | 225              |
| SHK-AM030S1 | 3t       | 1Am/M4                    | 30                 | 5.6                    | 3.0                          | 11                       | 0.75                           | 100 -178          | 11.2             | 1                   | 189              |
| SHK-AM030D1 |          |                           | 20/10              | 5.6/1.8                | 3.0/1.0                      |                          |                                |                   |                  |                     | 209              |
| SHK-AM050S2 | 5t       | 1Am/M4                    | 30                 | 2.8                    | 3.0                          | 11                       | 0.75                           | 112 -178          | 11.2             | 2                   | 221              |
| SHK-AM050D2 |          |                           | 20/10              | 2.8/0.9                | 3.0/1.0                      |                          |                                |                   |                  |                     | 241              |

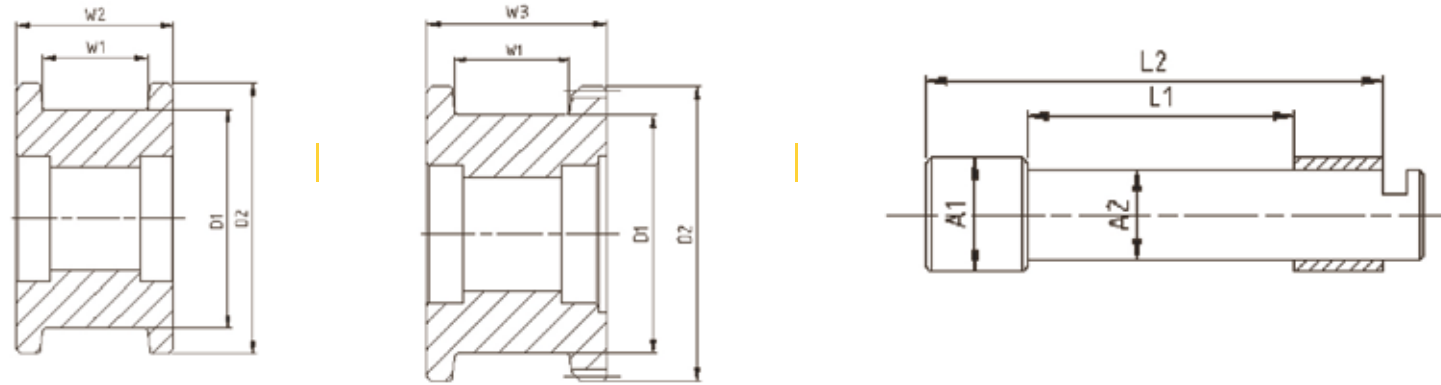
| Model       | Capacity | Hmin | A   | B   | D   | E   | I  | K  | L  | N  | W   | U   | R   | T   |
|-------------|----------|------|-----|-----|-----|-----|----|----|----|----|-----|-----|-----|-----|
| SHK-AM005S1 | 500kg    | 635  | 460 | 230 | 288 | 165 | 31 | 31 | 29 | 20 | 180 | 100 | 140 | 159 |
| SHK-AM005D1 |          |      | 545 | 260 |     |     |    |    |    |    |     |     |     |     |
| SHK-AM010S1 |          |      | 520 | 260 |     |     |    |    |    |    |     |     |     |     |
| SHK-AM010D1 | 1t       | 650  | 582 | 260 | 300 | 176 | 31 | 42 | 32 | 24 | 207 | 113 | 142 | 231 |
| SHK-AM020S2 |          |      | 520 | 260 |     |     |    |    |    |    |     |     |     |     |
| SHK-AM020D2 |          |      | 582 | 280 |     |     |    |    |    |    |     |     |     |     |
| SHK-AM020S1 | 2t       | 815  | 615 | 295 | 300 | 236 | 36 | 49 | 40 | 30 | 237 | 127 | 142 | 231 |
| SHK-AM020D1 |          |      | 670 | 313 |     |     |    |    |    |    |     |     |     |     |
| SHK-AM030S2 |          |      | 615 | 295 |     |     |    |    |    |    |     |     |     |     |
| SHK-AM030D2 | 3t       | 930  | 670 | 313 | 430 | 320 | 43 | 59 | 48 | 35 | 265 | 140 | 142 | 231 |
| SHK-AM030S1 |          |      | 615 | 295 |     |     |    |    |    |    |     |     |     |     |
| SHK-AM030D1 |          |      | 670 | 313 |     |     |    |    |    |    |     |     |     |     |
| SHK-AM050S2 | 5t       | 1015 | 615 | 295 | 430 | 325 | 54 | 60 | 48 | 43 | 296 | 156 | 142 | 231 |
| SHK-AM050D2 |          |      | 670 | 313 |     |     |    |    |    |    |     |     |     |     |

- beam flange request is for optional.
- single phase is for optional.
- above parameter is for 380V~415V/50HZ/3PH standard.



### W Wheel Parameter Table (European Size)

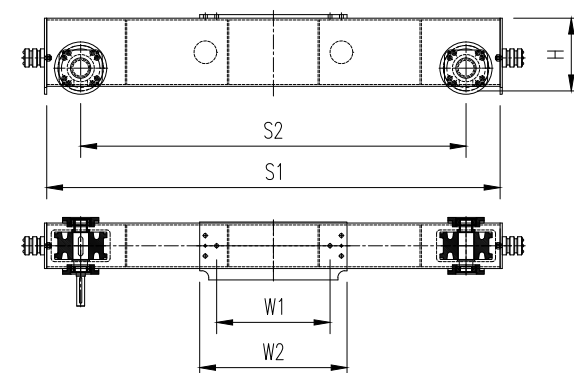
## Application of Wheel Motor Products



| Model | Load (KN) | D1 (mm) | D2 (mm) | W1 (mm) | W2 (mm) | W3 (mm) | L1 (mm) | L2 (mm) | A1 (mm) | A2 (mm) | Gear modulus |
|-------|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| W125  | 12.5      | 125     | 155     | 60      | 90      | 95      | 90      | 154     | 48      | 40      | M3/M3.5      |
| W160  | 25        | 160     | 190     | 70      | 100     | 105     | 100     | 154     | 58      | 50      | M3/M3.5/M4   |
| W200  | 45        | 200     | 230     | 70      | 100     | 105     | 100     | 154     | 58      | 50      | M3/M3.5/M4   |
| W250  | 62        | 250     | 280     | 80      | 110     | 115     | 110     | 204     | 68      | 60      | M4/M5        |
| W315  | 87        | 315     | 355     | 90      | 120     | 125     | 150     | 204     | 78      | 70      | M4/M5        |
| W400  | 100       | 400     | 440     | 100     | 130     | 140     | 130     | 204     | 88      | 80      | M5/M6        |
| W500  | 160       | 500     | 546     | 100     | 130     | 140     | 130     | 204     | 108     | 100     | M6/M7        |



## End Carriages for Single Girder Cranes

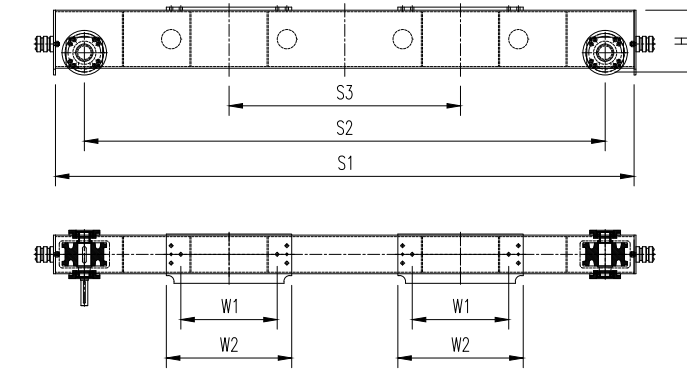


### Technical Parameters

| Model    | Application of crane model | Rectangular Steel tube | Wheel Size | Motor power (30m/min) | S1 (mm) | S2 (mm) | W1 (mm) | W2 (mm) | H (mm) |
|----------|----------------------------|------------------------|------------|-----------------------|---------|---------|---------|---------|--------|
| UL125-15 | 3.2t-7.5m                  | 150x200x8              | U125x60    | FA27-0.55kW-73        | 1500    | 1280    | 400     | 550     | 212.5  |
| UL125-20 | 3.2t-11.5m                 |                        |            |                       | 2000    | 1780    | 400     | 550     | 212.5  |
| UL125-25 | 3.2t-16.5m                 |                        |            |                       | 2500    | 2280    | 400     | 550     | 212.5  |
| UL125-30 | 3.2t-22.5m                 |                        |            |                       | 3000    | 2780    | 500     | 650     | 212.5  |
| UL125-35 | 3.2t-28.5m                 |                        |            |                       | 3500    | 3280    | 600     | 750     | 212.5  |
| UL160-15 | 6.3t-7.5m                  | 150x250x8              | U160x70    | FA37-0.75kW-60        | 1500    | 1200    | 400     | 550     | 270    |
| UL160-20 | 6.3t-11.5m                 |                        |            |                       | 2000    | 1700    | 400     | 550     | 270    |
| UL160-25 | 6.3t-16.5m                 |                        |            |                       | 2500    | 2200    | 400     | 550     | 270    |
| UL160-30 | 6.3t-22.5m                 |                        |            |                       | 3000    | 2700    | 500     | 650     | 270    |
| UL160-35 | 6.3t-28.5m                 |                        |            |                       | 3500    | 3200    | 600     | 750     | 270    |
| UL200-20 | 12.5t-11.5m                | 200x300x10             | U200x70    | FA47-1.1kW-48         | 2000    | 1700    | 500     | 650     | 320    |
| UL200-25 | 12.5t-16.5m                |                        |            |                       | 2500    | 2200    | 500     | 650     | 320    |
| UL200-30 | 12.5t-22.5m                |                        |            |                       | 3000    | 2700    | 600     | 750     | 320    |
| UL200-35 | 12.5t-28.5m                |                        |            |                       | 3500    | 3200    | 600     | 750     | 320    |
| UL250-20 | 16t-11.5m                  | 200x400x10             | U250x90    | FA57-1.5kW-39         | 2000    | 1600    | 500     | 650     | 425    |
| UL250-25 | 16t-16.5m                  |                        |            |                       | 2500    | 2100    | 600     | 750     | 425    |
| UL250-30 | 16t-22.5m                  |                        |            |                       | 3000    | 2600    | 600     | 750     | 425    |
| UL250-35 | 16t-28.5m                  |                        |            |                       | 3500    | 3100    | 700     | 850     | 425    |
| UL315-30 | 20t-16.5m                  | 200x400x10             | U315x90    | FA67-2.2kW-32         | 3000    | 2500    | 600     | 750     | 430    |
| UL315-35 | 20t-22.5m                  |                        |            |                       | 3500    | 3000    | 600     | 750     | 430    |
| UL315-40 | 20t-28.5m                  |                        |            |                       | 4000    | 3500    | 700     | 850     | 430    |

End carriage includes wheels, motors, rubber buffers, main beam connecting plates and bolts.

## End Carriages For Double Girder cranes



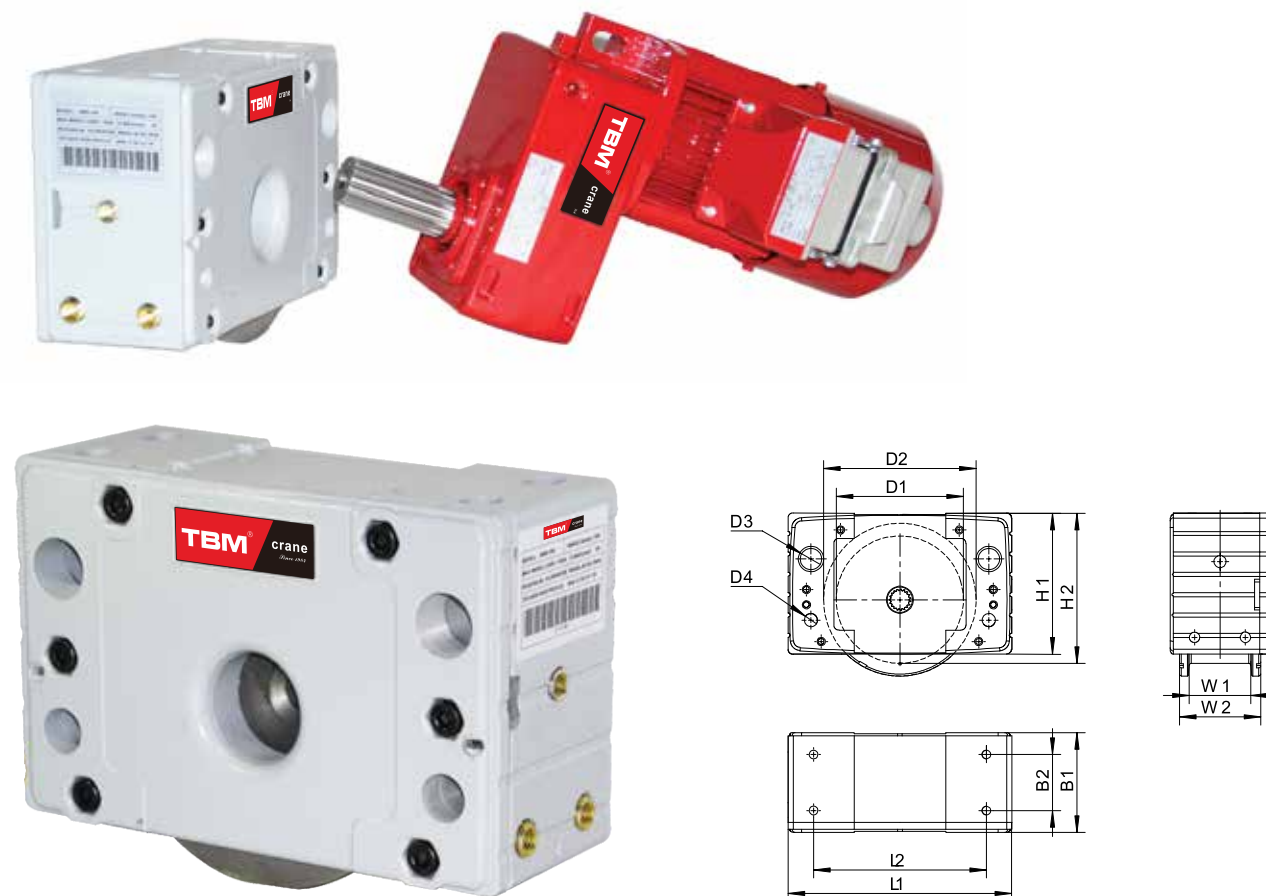
### Technical Parameters

| Model    | Application of crane model | Rectangular Steel tube | Wheel Size | Motor power    | S1 (mm) | S2 (mm) | S3 (mm)   | W1 (mm) | W2 (mm) | H (mm) |
|----------|----------------------------|------------------------|------------|----------------|---------|---------|-----------|---------|---------|--------|
| UD125-25 | 3.2t-11.5m                 | 150x200x8              | U125x60    | FA27-0.75kW-75 | 2500    | 2280    | 1200-1400 | 400     | 550     | 212.5  |
| UD125-30 | 3.2t-16.5m                 |                        |            |                | 3000    | 2780    | 1200-1400 | 400     | 550     | 212.5  |
| UD125-35 | 3.2t-22.5m                 |                        |            |                | 3500    | 3280    | 1200-1400 | 500     | 650     | 212.5  |
| UD125-40 | 3.2t-28.5m                 |                        |            |                | 4000    | 3780    | 1200-1400 | 600     | 750     | 212.5  |
| UD160-25 | 6.3t-11.5m                 | 150x250x8              | U160x70    | FA37-1.1kW-59  | 2500    | 2200    | 1200-1400 | 400     | 550     | 270    |
| UD160-30 | 6.3t-16.5m                 |                        |            |                | 3000    | 2700    | 1200-1400 | 400     | 550     | 270    |
| UD160-35 | 6.3t-22.5m                 |                        |            |                | 3500    | 3200    | 1200-1400 | 500     | 650     | 270    |
| UD160-40 | 6.3t-28.5m                 |                        |            |                | 4000    | 3700    | 1200-1400 | 600     | 750     | 270    |
| UD200-25 | 12.5t-11.5m                | 200x300x10             | U200x70    | FA47-1.5kW-48  | 2500    | 2200    | 1400-1600 | 500     | 650     | 320    |
| UD200-30 | 12.5t-16.5m                |                        |            |                | 3000    | 2700    | 1400-1600 | 500     | 650     | 320    |
| UD200-35 | 12.5t-22.5m                |                        |            |                | 3500    | 3200    | 1400-1600 | 600     | 750     | 320    |
| UD200-40 | 12.5t-28.5m                |                        |            |                | 4000    | 3700    | 1400-1600 | 600     | 750     | 320    |
| UD250-35 | 16t-16.5m                  | 200x400x10             | U250x90    | FA57-2.2kW-39  | 3500    | 3100    | 1600-1800 | 600     | 750     | 425    |
| UD250-40 | 16t-22.5m                  |                        |            |                | 4000    | 3600    | 1600-1800 | 600     | 750     | 425    |
| UD250-45 | 16t-28.5m                  |                        |            |                | 4500    | 4100    | 1600-1800 | 700     | 850     | 425    |
| UD315-35 | 20t-16.5m                  | 200x400x10             | U315x90    | FA77-3kW-32    | 3500    | 3000    | 1800-2000 | 600     | 750     | 430    |
| UD315-40 | 20t-22.5m                  |                        |            |                | 4000    | 3500    | 1800-2000 | 600     | 750     | 430    |
| UD315-45 | 20t-28.5m                  |                        |            |                | 4500    | 4000    | 1800-2000 | 700     | 850     | 430    |

End carriage includes wheels, motors, rubber buffers, main beam connecting plates and bolts.



## DRS Wheel Block



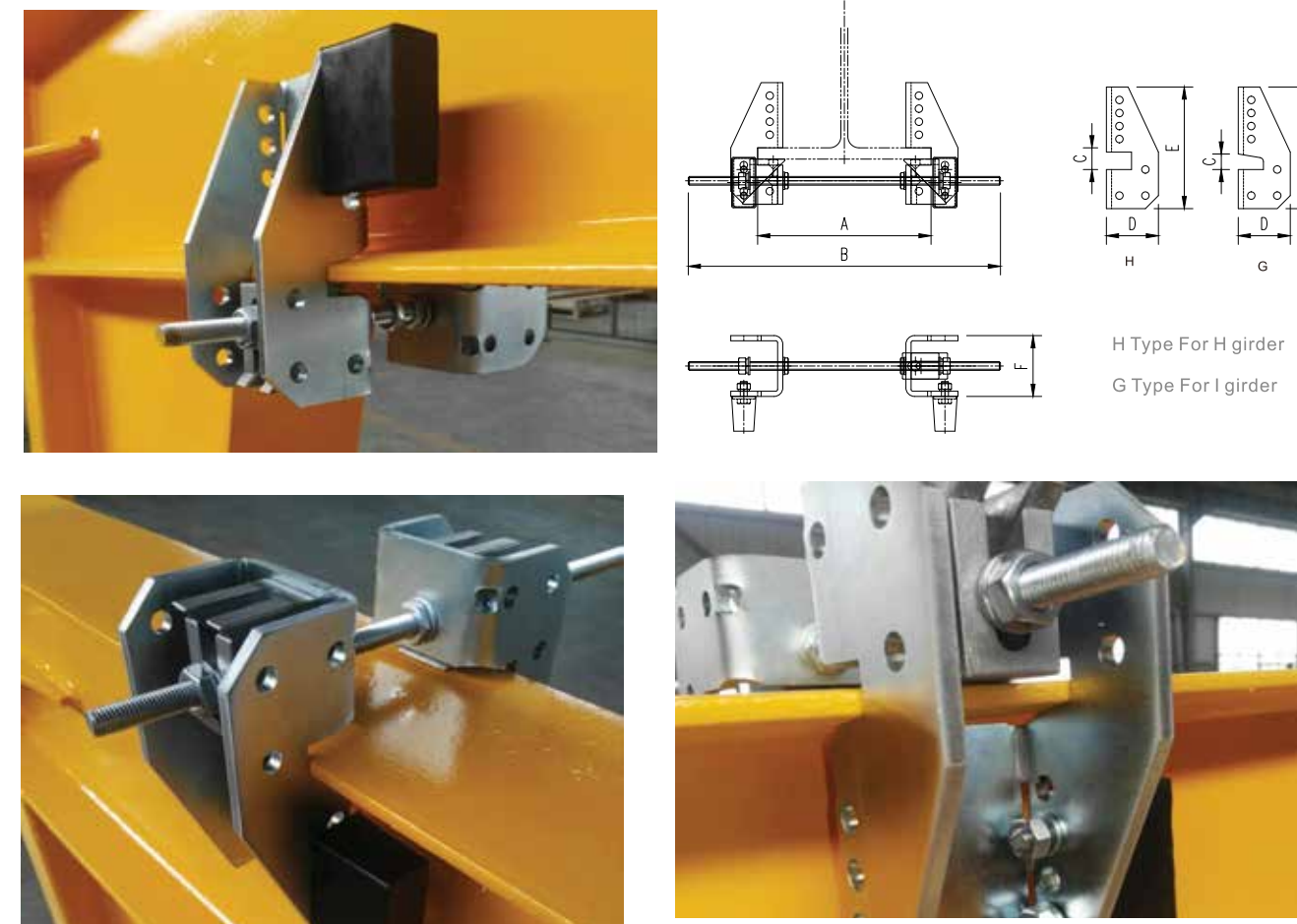
### Main Features

Compact European type design, widely used in single beam and double beam cranes, also used in other non-standard products like floor operating trolleys etc.

### Technical Parameters

| Model     | Wheel Load (kN) | Motor (kW) | D1 (mm) | D2 (mm) | D3 (mm) | D4 (mm) | H1 (mm) | H2 (mm) | W1 (mm) | W2 (mm) | L1 (mm) | B1 (mm) | L2 (mm) | B2 (mm) | N.W(kg) |
|-----------|-----------------|------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| DRS125-27 | 50              | FA27-0.55  | 125     | 150     | 21      | 13      | 138     | 148     | 60      | 80      | 220     | 100     | 170     | 55      | 15.8    |
| DRS160-37 | 70              | FA37-0.75  | 160     | 190     | 30      | 17      | 177     | 187     | 70      | 90      | 275     | 110     | 220     | 55      | 27.8    |
| DRS200-47 | 100             | FA47-1.1   | 200     | 230     | 35      | 20      | 228     | 238     | 70      | 100     | 340     | 130     | 275     | 65      | 52.8    |
| DRS250-57 | 160             | FA57-1.5   | 250     | 280     | 40      | 34      | 270     | 296     | 80      | 110     | 385     | 150     | 290     | 80      | 80.7    |
| DRS315-67 | 220             | FA67-2.2   | 315     | 355     | 50      | 40      | 306     | 350     | 90      | 130     | 470     | 180     | 360     | 80      | 151.9   |
| DRS400-77 | 300             | FA77-3.0   | 400     | 440     | 65      | 31      | 384     | 440     | 110     | 155     | 580     | 215     | 440     | 120     | 224.3   |

## Stopper Block/End Stop Clamp



### Main Features

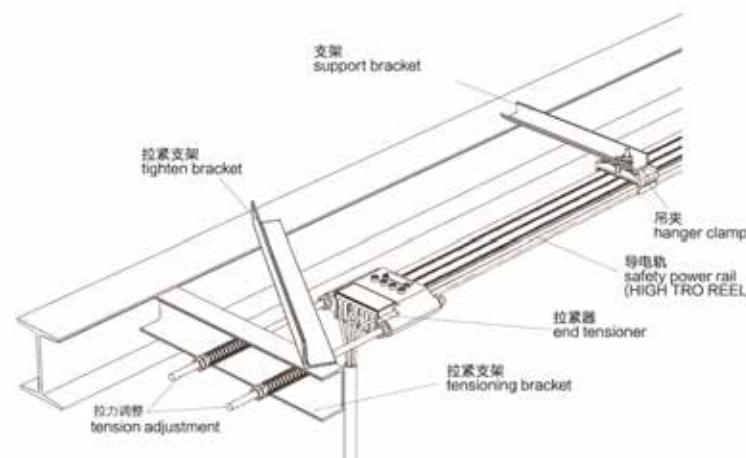
Movable buffer block, easy to install, lock at four directions, widely used in I/H beam and box beam.

### Technical Parameters

| Model  | A       | B   | C  | D  | E   | F  | Beam |
|--------|---------|-----|----|----|-----|----|------|
| H20-36 | 150-300 | 360 | 20 | 60 | 140 | 70 | H    |
| H30-63 | 300-550 | 630 | 30 | 60 | 150 | 70 | H    |
| G18-25 | 100-160 | 250 | 18 | 60 | 140 | 70 | I    |



## Seamless Conductor System



| Model  | Poles | Conductor cross section (mm <sup>2</sup> ) | Max. current (A) |
|--------|-------|--------------------------------------------|------------------|
| 761003 | 3     | 3X10mm <sup>2</sup>                        | 50A              |
| 761503 | 3     | 3X15mm <sup>2</sup>                        | 80A              |
| 762003 | 3     | 3X20mm <sup>2</sup>                        | 100A             |
| 762503 | 3     | 3X25mm <sup>2</sup>                        | 120A             |
| 763503 | 3     | 3X35mm <sup>2</sup>                        | 140A             |

| Model  | Poles | Conductor cross section (mm <sup>2</sup> ) | Max. current (A) |
|--------|-------|--------------------------------------------|------------------|
| 761004 | 4     | 4X10mm <sup>2</sup>                        | 50A              |
| 761504 | 4     | 4X15mm <sup>2</sup> +1X10mm <sup>2</sup>   | 80A              |
| 762004 | 4     | 4X20mm <sup>2</sup> +1X10mm <sup>2</sup>   | 100A             |
| 762504 | 4     | 4X25mm <sup>2</sup> +1X12.5mm <sup>2</sup> | 120A             |
| 763504 | 4     | 4X35mm <sup>2</sup> +1X12.5mm <sup>2</sup> | 140A             |

| Model  | Poles | Conductor cross section (mm <sup>2</sup> ) | Max. current (A) |
|--------|-------|--------------------------------------------|------------------|
| 761006 | 6     | 6X10mm <sup>2</sup>                        | 50A              |
| 761506 | 6     | 6X15mm <sup>2</sup>                        | 80A              |

### Main Features

Conductor material: Copper

Available up to 1000m without any joint

Insulation material: Rigid PVC (Heat resistance up to 75°C)

Available in load currents (3P, 4P) 35A, 50A, 65A, 80A, 100A, 120A, 140A and (6P) 50A, 80A

Available in three types in order to meet required load current in cost effective way

## EOT Crane Components

### Main Features

The control panels are available in standard capacity, span combinations as well as are manufactured on the basis of custom requirements. The C track cables have short bending radius, wear resistance, oil-proof and cold-proof, provided with soft steel wire to prevent from damages due to tension. C-track is easy to install. Trolleys can travel smoothly that avoid heavy load on the operator arms. Single track and double tracks are available as optional. Single track system is used for trolley power cable trailing. Double track system is used for trolley power cable trailing and pendant control cable trailing on a common support.





## Manufacturing and Testing Facilities



### Laser Cutting Machine

High-precision equipment used for fast and precise cutting of steel plates

### CNC Machining Centers

Various machines mainly used for processing motor shaft, rotor, drum and wheels.



### Motor Insulation Equipment

Uses high efficient vacuum insulation through lots of steps, makes motor usable in extreme conditions delivering better performance and more competitiveness.

### Heat Treatment Machine

Used for heat treatments like quenching, tempering, annealing, and normalizing for hoist parts.



### Special Purpose Machine

Special purpose machine for raw material machining of aluminum alloy body



## Testing Equipments



### Integrated Testing Platform

It is a custom designed testing rig used for the testing of voltage, temperature, current, noise, breaking system, load limiter and position limiter in the hoist.

TBM puts large amount efforts and finances to import various kinds of automatic testing equipments for the complete test of parts and whole hoists. The special purpose equipments and test rigs allow hoist to move from production to dispatch in one step. QC collects data and creates database for the development and perfection of hoists. The main equipments are motor type test machine, integrated testing platform, dynamic balancing machine, three-axis machine, thermo-metallurgical analysis machine.

### Motor Type Test Machine

Mainly used for testing of voltage, current, input power, torque, rotation speed, output power, efficiency and power factor of motors.



### Three-Axis Machine

Mainly used for measurement of dimensional precision, positioning precision, geometric precision and profile degree.



### Thermo Optical Emission Spectrometer

Analyses elements in metals and identify purity.



### Gear Detection Center

Measure various shapes of gear to ensure the precision requirements that reduces noise and keeps gearbox reliable.



### Dynamic Balancing Machine

Mainly used for the balancing of rotating parts like motor rotor, hoist drum and shafts.

TBM brand has been leading the growth rate in the electric hoist industry with the most cost-effective solutions, and has been engaged in providing the best material handling solutions.