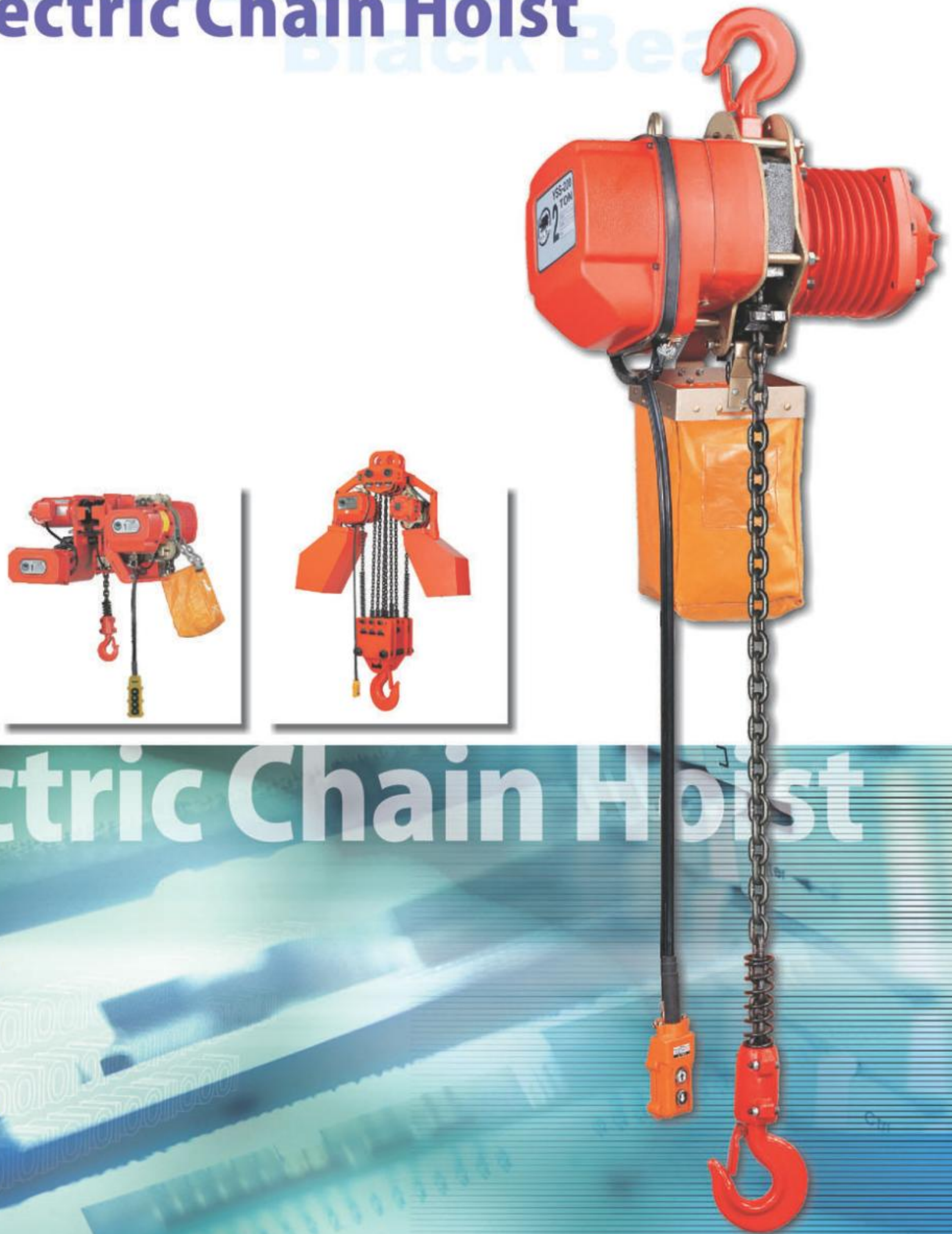


# Electric Chain Hoist



TAIWAN : HOITECH MACHINERY INDUSTRIAL CO., LTD  
VIETNAM : QUANG LIEN CRANE ELEVATOR CO., LTD.



# Electric Chain Hoist (Hook Suspension Type)

## Motor Housing

- Aluminum alloy casting, features rigid structure and light weight.
- Motor framed with radiant cooling fins, permits 40% (dual speed 40/20%, YSF-series 15%) duty cycle.

## Motor Brake

- "Electro-Magnetic Brake Controller" - a unique design in its field, R.O.C. Patent No. 27417 features simultaneous braking upon release of P.B. even under full load.

## Limit Switch

- Fitted at both top and bottom ends, shuts off power automatically to prevent load chain from running out.

## Load Chain

- Grade 80 case hardened alloy steel chain.

## Hook

- Hot forged high tensile steel, rigid and durable, 360° swivel, fitting with safety latch to assure safe lifting.

## Hoist Bracket

- Double high-tensile alloy steel plate bracket, features rugged and durable construction.

## Mechanical Brake

- Advanced design, assures secure braking even under overload. In conjunction with motor brake, features "DOUBLE BRAKE SYSTEM" for safety and durability in hoist operation.

## Transformer

- Power to pendant control reduced to 24V or 48V for safer operation.

## Magnetic Contactor

- High performance non-fuse circuit breakers allow frequent trouble cycling with free operation.

## Phase Error Relay

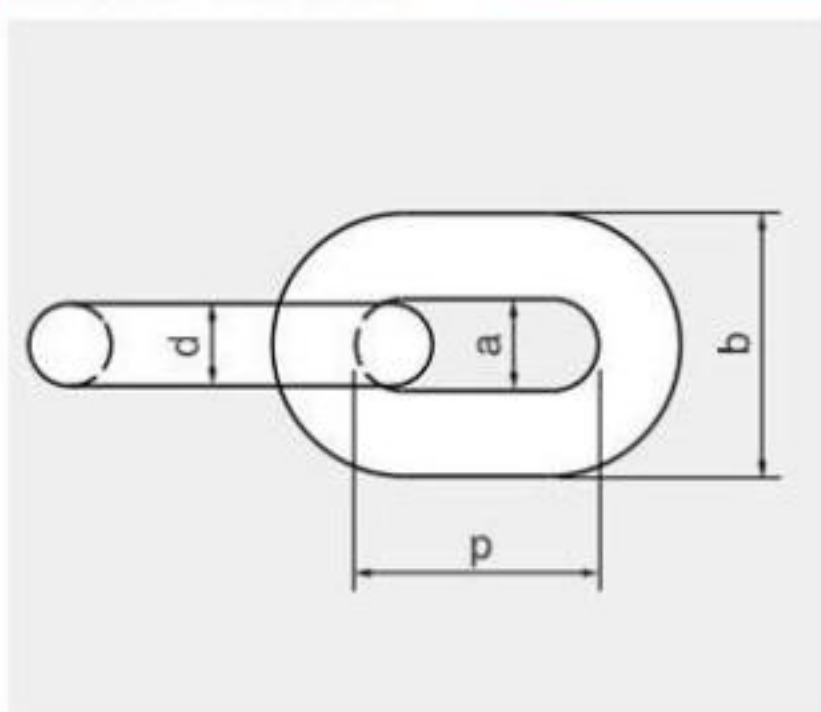
- A specially designed electric board prevents motor from running at it reverse phased.

## Push Button Pendant

- Offers light and durable switching controls.

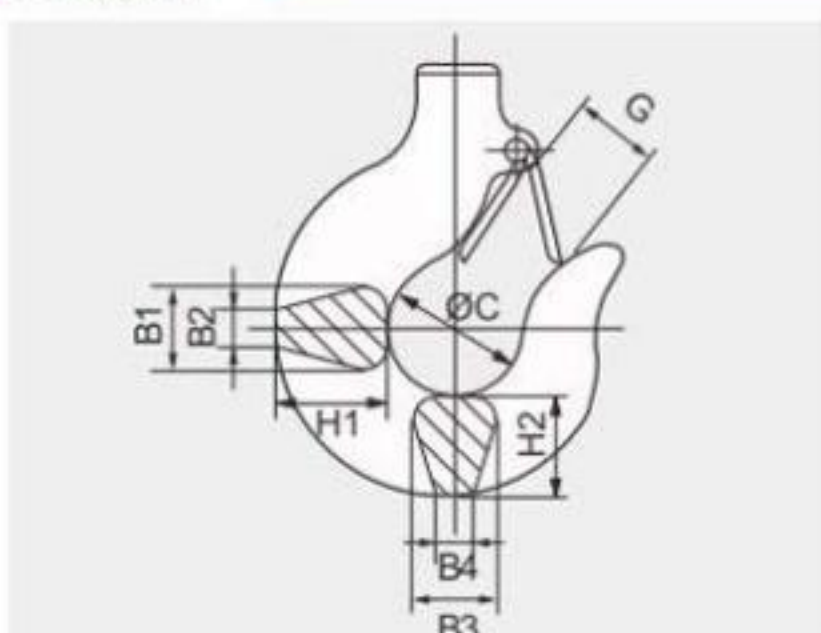
※ For special applications, please contact our company representative or authorized distributor.

## Load Chain



| Diameter<br>d(mm) | Model Reference<br>Being Used                                                       | Inner<br>Length<br>p(mm) | Inner<br>Width<br>a(mm) | Outer<br>Width<br>b(mm) | Breaking<br>Load<br>(kn) |
|-------------------|-------------------------------------------------------------------------------------|--------------------------|-------------------------|-------------------------|--------------------------|
| Φ7.1              | 050-300<br>YSE YSL<br>YSF YSH<br>YL(H)T                                             | 20.2                     | 8.2                     | 23.2                    | 63                       |
| Φ10.0             | YSS(T)-200<br>YSS(T)-300                                                            | 30.2                     | 12.5                    | 33.2                    | 128                      |
| Φ11.2             | YSS(T)-250<br>YSS(T)-500<br>YSS-750<br>YSS-1000<br>YSS-1500<br>YSS-2000<br>YSS-3000 | 34.0                     | 14.0                    | 37.5                    | 160                      |

## Hook



| Model     | Capacity<br>(ton) | T<br>B | Dimensions (mm) |     |    |     |    |    |     |     | Allow Stress<br>(kg/mm <sup>2</sup> ) | Hook Block<br>Weight<br>(kg) |
|-----------|-------------------|--------|-----------------|-----|----|-----|----|----|-----|-----|---------------------------------------|------------------------------|
|           |                   |        | H1              | B1  | B2 | H2  | B3 | B4 | C   | G   |                                       |                              |
| YSL,H,E,F | 0.5,1             | T B    | 33              | 23  | 9  | 29  | 23 | 9  | 40  | 28  | 70                                    | *10                          |
| YSL,H,E,F | 2                 | T B    | 45              | 31  | 10 | 41  | 31 | 10 | 46  | 36  | 70                                    | *10                          |
| YSL,H     | 3                 | T B    | 55              | 34  | 19 | 48  | 34 | 19 | 52  | 40  | 70                                    | *10                          |
| YSS       | 2,2.5,3           | T B    | 55              | 34  | 19 | 48  | 34 | 19 | 52  | 40  | 70                                    | *10                          |
|           | 5                 | T B    | 67              | 45  | 23 | 60  | 45 | 23 | 62  | 45  | 70                                    | 20                           |
|           | 7.5               | B      | 75              | 48  | 16 | 68  | 48 | 16 | 75  | 55  | 100                                   | 40                           |
|           | 10                | B      | 100             | 70  | 28 | 95  | 65 | 28 | 100 | 70  | 70                                    | 70                           |
|           | 15                | B      | 120             | 85  | 32 | 110 | 83 | 32 | 120 | 82  | 70                                    | 140                          |
|           | 20                | B      | 140             | 100 | 38 | 130 | 95 | 38 | 140 | 105 | 70                                    | 270                          |
|           | 30                | B      | 140             | 98  | 38 | 130 | 94 | 38 | 140 | 105 | 100                                   | 350                          |

● T=Top hook / B=Bottom hook ● If the weight is less than 10 kg, it will be considered as 10 kg.

## ■ Features of YSE Series:



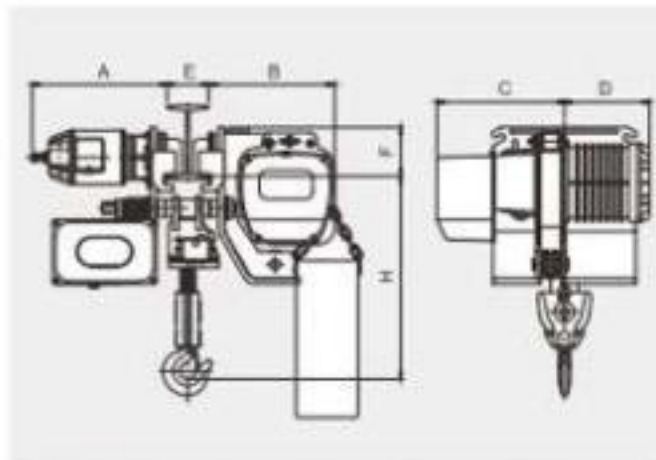
- Direct connection to power supply.
- Slipping clutch provides overload protection.
- No limit switch nor limit spring, reduces headroom.
- Optional low voltage, 24 volt, control available.

| Capacity ( ton )       |      | 0.5                            | 1   | 2       |
|------------------------|------|--------------------------------|-----|---------|
| Lift Length ( m )      |      | 3 (6) etc.                     |     |         |
| Single Speed ( m/min ) | 50Hz | 6.7                            | 4.7 | 2.3     |
|                        | 60Hz | 8.0                            | 5.6 | 2.8     |
| Motor Power ( kw )     |      | 1.5                            | 1.8 |         |
| Power Supply           |      | 3 Phase, 220V-600V, 50Hz, 60Hz |     |         |
| E.D Rating ( % )       |      | 40                             |     |         |
| Load Chain Fall Number |      | 1                              |     | 2       |
| N.W./G.W. ( kg )       |      | 50.5/53                        |     | 60.5/63 |
| Packing LXWXH ( cm )   |      | 60X57X33                       |     |         |
| Msrmt ( cu, ft )       |      | 4                              |     |         |

## ■ Features of YLT/YHT/YST Series:



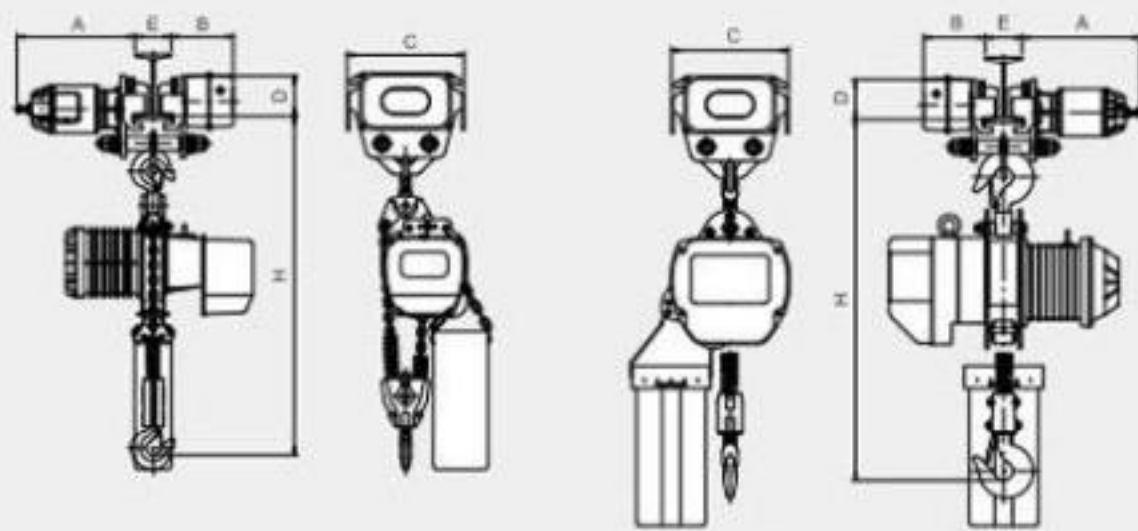
- Specially engineered frame combines hoist and trolley, for specific low headroom applications.
- Reduced headroom provides higher lifting.



※YET(D) series of products are only applicable for Europe.  
 ※Maximum lifting height : 6M

| Model    | Capacity<br>(ton) | Dimension (mm) |     |     |     |         |         |     | Hoisting     |                |                  | Traversing   |                  |                  | N.W.<br>(kg) |
|----------|-------------------|----------------|-----|-----|-----|---------|---------|-----|--------------|----------------|------------------|--------------|------------------|------------------|--------------|
|          |                   | H              | A   | B   | C   | D       | E       | F   | Speed(m/min) |                | Motor<br>kw pole | Speed(m/min) |                  | Motor<br>kw pole |              |
|          |                   |                |     |     |     |         |         |     | 50Hz         | 60Hz           |                  | 50Hz         | 60Hz             |                  |              |
| YET-050  | 0.5               | 440            | 327 | 307 | 278 | 241     | 75-125  | 112 | 6.7          | 8.0            | 1.5, 4P          | 20           | 24               | 0.25, 4P         | 188          |
| YETD-050 |                   |                |     |     |     | 6.7/2.2 |         |     | 8.0/2.7      | 1.8/0.6, 4/12P | 20/7             | 24/8         | 0.25/0.08, 4/12P |                  |              |
| YET-100  | 1                 | 440            | 327 | 307 | 278 | 241     | 75-125  | 112 | 4.7          | 5.6            | 1.5, 4P          | 20           | 24               | 0.25, 4P         | 188          |
| YETD-100 |                   |                |     |     |     | 4.7/1.6 |         |     | 5.6/1.8      | 1.8/0.6, 4/12P | 20/7             | 24/8         | 0.25/0.08, 4/12P |                  |              |
| YET-200  | 2                 | 520            | 330 | 310 | 311 | 208     | 100-150 | 118 | 2.3          | 2.8            | 1.8, 4P          | 20           | 24               | 0.25, 4P         | 216          |
| YETD-200 |                   |                |     |     |     | 2.3/0.8 |         |     | 2.8/1.0      | 1.8/0.6, 4/12P | 20/7             | 24/8         | 0.25/0.08, 4/12P |                  |              |
| YET-300  | 3                 | 593            | 366 | 315 | 343 | 208     | 125-175 | 143 | 1.5          | 1.8            | 1.8, 4P          | 20           | 24               | 0.6, 4P          | 277          |
| YETD-300 |                   |                |     |     |     | 2.21    |         |     | 1.5/0.5      | 1.8/0.6        | 1.8/0.6, 4/12P   | 20/7         | 24/8             | 0.6/0.2, 4/12P   |              |
| YLT-050  | 0.5               | 440            | 327 | 307 | 278 | 241     | 75-125  | 112 | 6.7          | 8.0            | 1.5, 4P          | 20           | 24               | 0.25, 4P         | 188          |
| YLTD-050 |                   |                |     |     |     | 2.86    |         |     | 6.7/2.2      | 8.0/2.7        | 1.8/0.6, 4/12P   | 20/7         | 24/8             | 0.25/0.08, 4/12P |              |
| YLT-100  | 1                 | 440            | 327 | 307 | 278 | 241     | 75-125  | 112 | 4.7          | 5.6            | 1.5, 4P          | 20           | 24               | 0.25, 4P         | 188          |
| YLTD-100 |                   |                |     |     |     | 2.86    |         |     | 4.7/1.6      | 5.6/1.8        | 1.8/0.6, 4/12P   | 20/7         | 24/8             | 0.25/0.08, 4/12P |              |
| YLT-200  | 2                 | 520            | 330 | 310 | 311 | 208     | 100-150 | 118 | 2.3          | 2.8            | 1.8, 4P          | 20           | 24               | 0.25, 4P         | 216          |
| YLTD-200 |                   |                |     |     |     | 2.53    |         |     | 2.3/0.8      | 2.8/1.0        | 1.8/0.6, 4/12P   | 20/7         | 24/8             | 0.25/0.08, 4/12P |              |
| YLT-300  | 3                 | 593            | 366 | 315 | 343 | 208     | 125-175 | 143 | 1.5          | 1.8            | 1.8, 4P          | 20           | 24               | 0.6, 4P          | 277          |
| YLTD-300 |                   |                |     |     |     | 2.21    |         |     | 1.5/0.5      | 1.8/0.6        | 1.8/0.6, 4/12P   | 20/7         | 24/8             | 0.6/0.2, 4/12P   |              |
| YHT-050  | 0.5               | 440            | 327 | 307 | 278 | 241     | 75-125  | 112 | 9.2          | 11             | 1.8, 4P          | 20           | 24               | 0.25, 4P         | 188          |
| YHTD-050 |                   |                |     |     |     | 2.86    |         |     | 9.2/3.1      | 11/3.7         | 1.8/0.6, 4/12P   | 20/7         | 24/8             | 0.25/0.08, 4/12P |              |
| YHT-100  | 1                 | 440            | 327 | 307 | 278 | 241     | 75-125  | 112 | 6.7          | 8.0            | 1.8, 4P          | 20           | 24               | 0.25, 4P         | 188          |
| YHTD-100 |                   |                |     |     |     | 2.86    |         |     | 6.7/2.2      | 8.0/2.7        | 1.8/0.6, 4/12P   | 20/7         | 24/8             | 0.25/0.08, 4/12P |              |
| YHT-200  | 2                 | 520            | 330 | 310 | 311 | 208     | 100-150 | 118 | 3.3          | 4.0            | 1.8, 4P          | 20           | 24               | 0.25, 4P         | 216          |
| YHTD-200 |                   |                |     |     |     | 2.53    |         |     | 3.3/1.1      | 4.0/1.3        | 1.8/0.6, 4/12P   | 20/7         | 24/8             | 0.25/0.08, 4/12P |              |
| YHT-300  | 3                 | 593            | 366 | 315 | 343 | 208     | 125-175 | 143 | 2.2          | 2.6            | 1.8, 4P          | 20           | 24               | 0.6, 4P          | 277          |
| YHTD-300 |                   |                |     |     |     | 2.21    |         |     | 2.2/0.7      | 2.6/0.9        | 1.8/0.6, 4/12P   | 20/7         | 24/8             | 0.6/0.2, 4/12P   |              |
| YST-200  | 2                 | 702            | 371 | 443 | 318 | 319     | 125-175 | 143 | 6.7          | 7.9            | 3.7, 4P          | 20           | 24               | 0.6, 4P          | 438          |
| YSTD-200 |                   |                |     |     |     | 3.76    |         |     | 6.7/2.2      | 7.9/2.6        | 3.7/1.2, 4/12P   | 20/7         | 24/8             | 0.6/0.2, 4/12P   |              |
| YST-250  | 2.5               | 724            | 371 | 443 | 318 | 319     | 125-175 | 143 | 5.2          | 6.4            | 3.7, 4P          | 20           | 24               | 0.6, 4P          | 448          |
| YSTD-250 |                   |                |     |     |     | 3.76    |         |     | 5.2/1.7      | 6.4/2.1        | 3.7/1.2, 4/12P   | 20/7         | 24/8             | 0.6/0.2, 4/12P   |              |
| YST-300  | 3                 | 765            | 371 | 443 | 274 | 363     | 125-175 | 143 | 4.3          | 5.2            | 3.7, 4P          | 20           | 24               | 0.6, 4P          | 465          |
| YSTD-300 |                   |                |     |     |     | 4.20    |         |     | 4.3/1.4      | 5.2/1.7        | 3.7/1.2, 4/12P   | 20/7         | 24/8             | 0.6/0.2, 4/12P   |              |
| YST-500  | 5                 | 805            | 371 | 443 | 265 | 372     | 125-175 | 148 | 2.6          | 3.2            | 3.7, 4P          | 20           | 24               | 0.6, 4P          | 505          |
| YSTD-500 |                   |                |     |     |     | 4.29    |         |     | 2.6/0.9      | 3.2/1.0        | 3.7/1.2, 4/12P   | 20/7         | 24/8             | 0.6/0.2, 4/12P   |              |

## ■ Dimensions of Hoist with Motorized Trolley

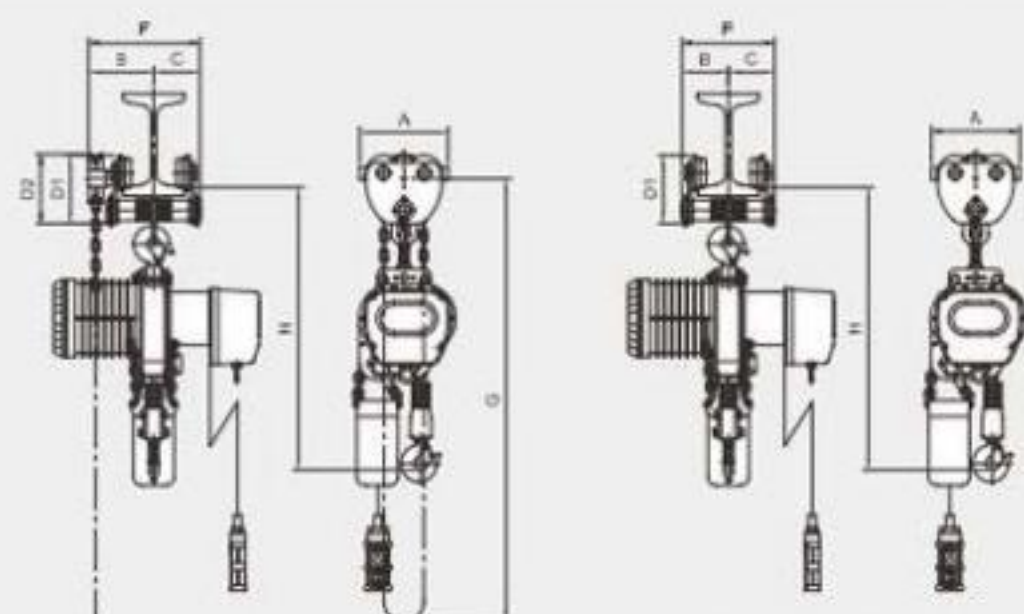


YSL, H, E, F 0.5ton~3ton

YSS 2ton~20ton

| Capacity<br>(ton) |        | Model       | Dimensions(mm) |     |     |     |     |         |
|-------------------|--------|-------------|----------------|-----|-----|-----|-----|---------|
|                   |        |             | H              | A   | B   | C   | D   | E       |
| YSL, H, E,<br>YSF | 0.5, 1 | MT-050, 100 | 705            | 328 | 173 | 294 | 98  | 75-125  |
|                   | 2      | MT-200      | 935            | 328 | 173 | 322 | 111 | 100-150 |
| YSL, H            | 3      | MT-300      | 1030           | 368 | 180 | 356 | 117 | 125-175 |
| YSS               | 2      | MT-200      | 995            | 328 | 173 | 322 | 111 | 100-150 |
|                   | 2.5    | MT-300      | 1040           | 368 | 180 | 356 | 117 | 125-175 |
|                   | 3      | MT-300      | 1120           | 368 | 180 | 356 | 117 | 125-175 |
|                   | 5      | MT-500      | 1200           | 372 | 184 | 386 | 127 | 125-175 |
|                   | 7.5    | MT-750      | 1300           | 381 | 193 | 454 | 167 | 150-200 |
|                   | 10     | MT-1000     | 1415           | 471 | 193 | 560 | 205 | 150-200 |
|                   | 15     | MT-1500     | 1490           | 576 | 212 | 702 | 220 | 190     |
|                   | 20     | MT-2000     | 1820           | 705 | 211 | 882 | 295 | 200     |

## ■ Dimensions of Hoist with GT/PT



Hoist With GT

Hoist With PT

| Capacity<br>(ton) |     | Model  | Dimensions(mm) |     |       |       |     |     |     |      | Flange Width<br>(mm) |
|-------------------|-----|--------|----------------|-----|-------|-------|-----|-----|-----|------|----------------------|
|                   |     |        | H              | A   | B     | C     | D1  | D2  | E   | G    |                      |
| YSL,H,<br>YSE,F   | 0.5 | GT-050 | 710            | 194 | 156   | 110   | 151 | 150 | 266 | 2709 | 50-150               |
|                   | 0.5 | PT-050 | 710            | 194 | 110   | 110   | 151 | -   | 220 | -    | 50-150               |
|                   | 1   | GT-100 | 720            | 217 | 160   | 113.5 | 170 | 167 | 273 | 2719 | 75-150               |
|                   | 1   | PT-100 | 720            | 217 | 113.5 | 113.5 | 167 | -   | 227 | -    | 75-150               |
|                   | 2   | GT-200 | 920            | 247 | 179   | 130   | 224 | 207 | 309 | 3279 | 100-175              |
|                   | 2   | PT-200 | 920            | 247 | 130   | 130   | 207 | -   | 260 | -    | 100-175              |
| YSL,H             | 3   | GT-300 | 1110           | 270 | 196   | 150   | 241 | 239 | 346 | 3353 | 100-200              |
|                   | 3   | PT-300 | 1110           | 270 | 150   | 150   | 239 | -   | 300 | -    | 100-200              |
| YSS               | 2   | GT-200 | 1010           | 247 | 179   | 130   | 224 | 207 | 309 | 3279 | 100-175              |
|                   | 2   | PT-200 | 1010           | 247 | 130   | 130   | 207 |     | 260 |      | 100-175              |
|                   | 2.5 | GT-300 | 1100           | 270 | 196   | 150   | 241 | 239 | 346 | 3353 | 100-200              |
|                   | 2.5 | PT-300 | 1100           | 270 | 150   | 150   | 239 | -   | 300 | -    | 100-200              |
|                   | 3   | GT-300 | 1175           | 270 | 196   | 150   | 241 | 239 | 346 | 3353 | 100-200              |
|                   | 3   | PT-300 | 1175           | 270 | 150   | 150   | 239 | -   | 300 | -    | 100-200              |
|                   | 5   | GT-500 | 1250           | 310 | 198   | 152   | 235 | 251 | 350 | 3356 | 125-200              |
|                   | 5   | PT-500 | 1250           | 310 | 151   | 152   | 251 | -   | 304 | -    | 125-200              |



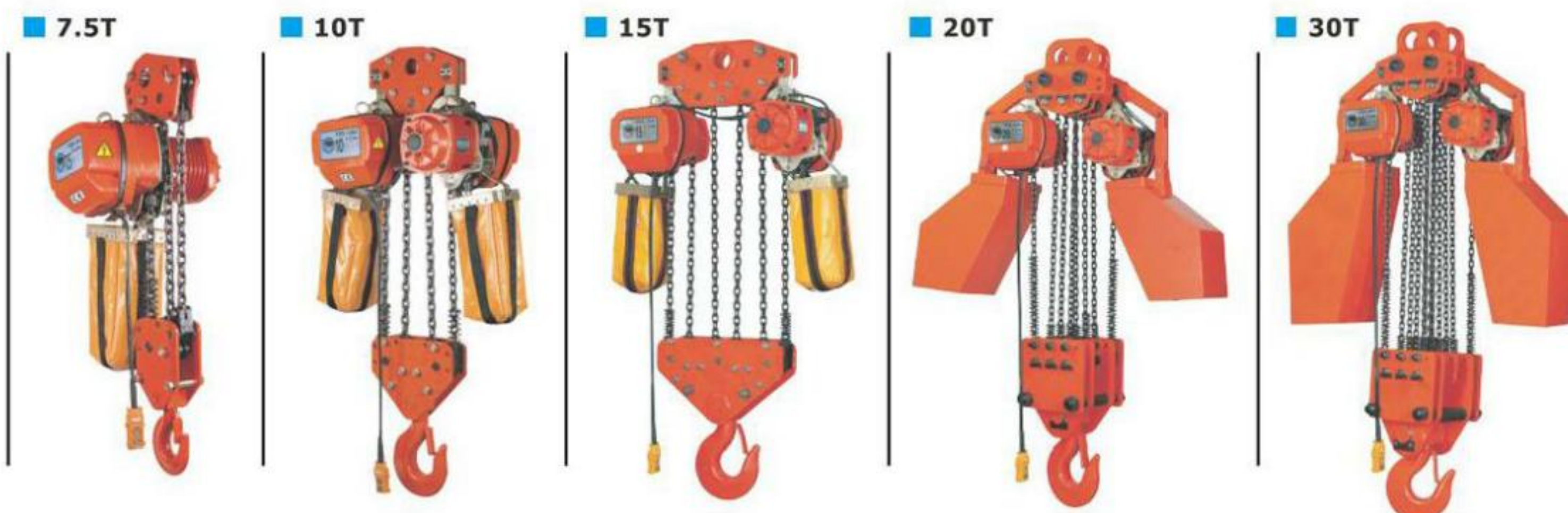
## ■ Features of Hoist:

- Pendant control voltage transformed into 24V/48V to eliminate possible accident caused by circuit short and assure safe operation in wet environments.
- Automatic motor brake system features simultaneous braking upon power failure or switching off.
- Dual brake system assures safe operation.

## ■ Specifications:

| Capacity (ton)               |      |      | 0.5                        | 1   | 2       | 0.5                        | 1   | 2        | 0.5                 | 1       | 2       | 3        | 2                   | 2.5     | 3       | 5       | 7.5       | 10       | 15        | 20          | 30          |  |
|------------------------------|------|------|----------------------------|-----|---------|----------------------------|-----|----------|---------------------|---------|---------|----------|---------------------|---------|---------|---------|-----------|----------|-----------|-------------|-------------|--|
| Lift Height (m)              |      |      | 3 (6) etc.                 |     |         |                            |     |          |                     |         |         |          |                     |         |         |         |           |          |           |             |             |  |
| Load Chain (mm)              |      |      | Φ7.1                       |     |         | Φ7.1                       |     |          | Φ7.1                |         |         |          | Φ10                 | Φ11.2   | Φ10     | Φ11.2   |           |          |           |             |             |  |
| Single Speed<br>(m/min)      | 50Hz | YSF  | 5.6                        | 3.9 | 2.0     | 6.7                        | 4.7 | 2.3      | -                   | -       | -       | -        | -                   | -       | -       | -       | -         | -        | -         | -           | -           |  |
|                              |      | YSL  | -                          | -   | -       | -                          | -   | -        | 6.7                 | 4.7     | 2.3     | 1.5      | -                   | -       | -       | -       | -         | -        | -         | -           | -           |  |
|                              |      | YSH  | -                          | -   | -       | -                          | -   | -        | (9.2)               | (6.7)   | 3.3     | 2.2      | -                   | -       | -       | -       | -         | -        | -         | -           | -           |  |
|                              |      | YSS  | -                          | -   | -       | -                          | -   | -        | -                   | -       | -       | -        | 6.6                 | 5.2     | 4.3     | 2.6     | 1.8       | 2.6      | 1.8       | 1.3         | 0.9         |  |
|                              | 60Hz | YSF  | 6.7                        | 4.7 | 2.3     | 8.0                        | 5.6 | 2.8      | -                   | -       | -       | -        | -                   | -       | -       | -       | -         | -        | -         | -           | -           |  |
|                              |      | YSL  | -                          | -   | -       | -                          | -   | -        | 8.0                 | 5.6     | 2.8     | 1.8      | -                   | -       | -       | -       | -         | -        | -         | -           | -           |  |
|                              |      | YSH  | -                          | -   | -       | -                          | -   | -        | (11.0)              | (8.0)   | 4.0     | 2.6      | -                   | -       | -       | -       | -         | -        | -         | -           | -           |  |
|                              |      | YSS  | -                          | -   | -       | -                          | -   | -        | -                   | -       | -       | -        | 7.9                 | 6.4     | 5.2     | 3.2     | 2.1       | 3.2      | 2.1       | 1.5         | 1.1         |  |
| Dual Speed<br>(m/min)        | 50Hz | YSLD | -                          | -   | -       | -                          | -   | -        | 6.7/2.2             | 4.7/1.6 | 2.3/0.8 | 1.5/0.5  | -                   | -       | -       | -       | -         | -        | -         | -           | -           |  |
|                              |      | YSHD | -                          | -   | -       | -                          | -   | -        | 9.2/3.1             | 6.7/2.2 | 3.3/1.1 | 2.2/0.7  | -                   | -       | -       | -       | -         | -        | -         | -           | -           |  |
|                              |      | YSSD | -                          | -   | -       | -                          | -   | -        | -                   | -       | -       | -        | 6.6/2.2             | 5.2/1.7 | 4.3/1.4 | 2.6/0.9 | 1.8/0.6   | 2.6/0.9  | 1.8/0.6   | 1.3/0.43    | 0.9/0.3     |  |
|                              | 60Hz | YSLD | -                          | -   | -       | -                          | -   | -        | 8.0/2.7             | 5.6/1.8 | 2.8/1.0 | 1.8/0.6  | -                   | -       | -       | -       | -         | -        | -         | -           | -           |  |
|                              |      | YSHD | -                          | -   | -       | -                          | -   | -        | 11.0/3.7            | 8.0/2.7 | 4.0/1.3 | 2.6/0.9  | -                   | -       | -       | -       | -         | -        | -         | -           | -           |  |
|                              |      | YSSD | -                          | -   | -       | -                          | -   | -        | -                   | -       | -       | -        | 7.9/2.6             | 6.4/2.0 | 5.2/1.7 | 3.2/1.0 | 2.1/0.7   | 3.2/1.0  | 2.1/0.7   | 1.5/0.5     | 1.1/0.4     |  |
| Motor (kw)<br>(single speed) |      | 1.8  |                            |     | 1.8     |                            |     | 1.5(1.8) |                     | 1.8     |         | 3.7      |                     |         |         |         | 3.7X2     |          | 5.0X2     |             |             |  |
| Motor (kw)<br>(dual speed)   |      | -    |                            |     | -       |                            |     | 1.8/0.6  |                     |         |         | 3.7/1.2  |                     |         |         |         | 3.7/1.2X2 |          | 5.0/1.7X2 |             |             |  |
| Power Supply                 |      |      | Single Phase<br>110V, 115V |     |         | Single Phase<br>220V, 230V |     |          | 3 Phase, 220V- 600V |         |         |          | 3 Phase, 220V- 600V |         |         |         |           |          |           |             |             |  |
| E.D. Rating (%)              |      |      | 15                         |     |         | 15                         |     |          | 40                  |         |         |          | 40                  |         |         |         |           |          |           |             |             |  |
| Load Chain Fall Number       |      |      | 1                          |     | 2       | 1                          |     | 2        | 1                   |         | 2       | 3        | 1                   |         | 2       |         | 3         | 4        | 6         | 8           | 12          |  |
| N.W./G.W. (kg)               |      |      | 55/58.5                    |     | 64.5/67 | 55/58.5                    |     | 65/67    | 50.5/53             |         | 61/64   | 73/96    | 125/155             | 130/160 | 140/170 | 153/183 | 195/230   | 410/470  | 510/580   | 890/990     | 1035/1135   |  |
| Packing LXWXH (cm)           |      |      | 60X57X33                   |     |         | 60X57X33                   |     |          | 60X57X33            |         |         | 60X52X50 | 73X57X51            |         |         |         | 73X70X70  | 86X80X75 | 140X85X97 | 170X105X167 | 175X110X185 |  |
| Msrmnt (Cu.ft)               |      |      | 4                          |     |         | 4                          |     |          | 4                   |         |         | 5.7      | 7.5                 |         |         |         | 12.63     | 18.23    | 40.8      | 105.3       | 125.8       |  |

※Dual speed E.D. Rating = 40/20%

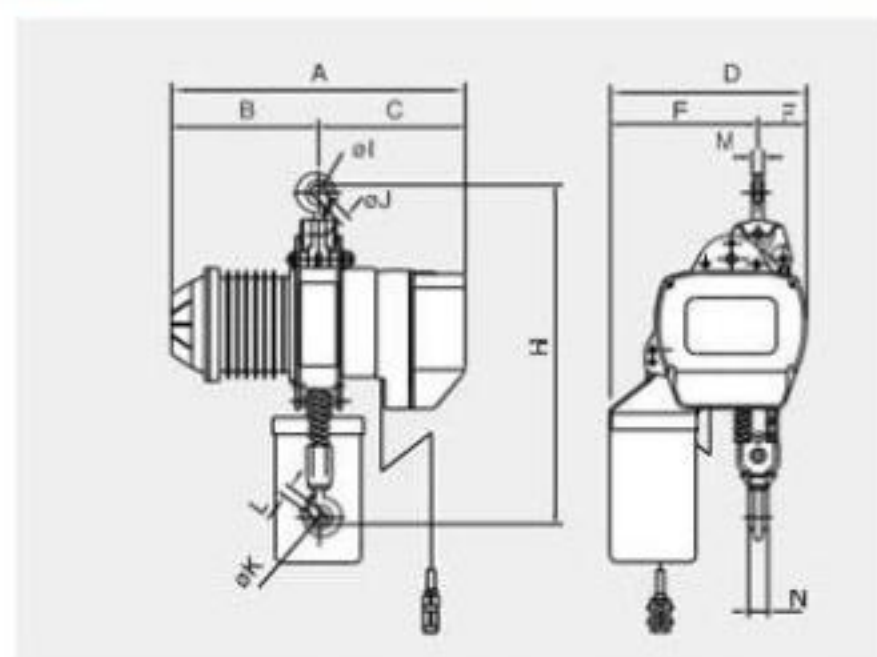


- Limit switches hold load chain from running out.
- Advanced phase error relay keeps motor motionless at incorrect power connection.
- Optional emergency stop features available.
- Optional electronic overload protection available.

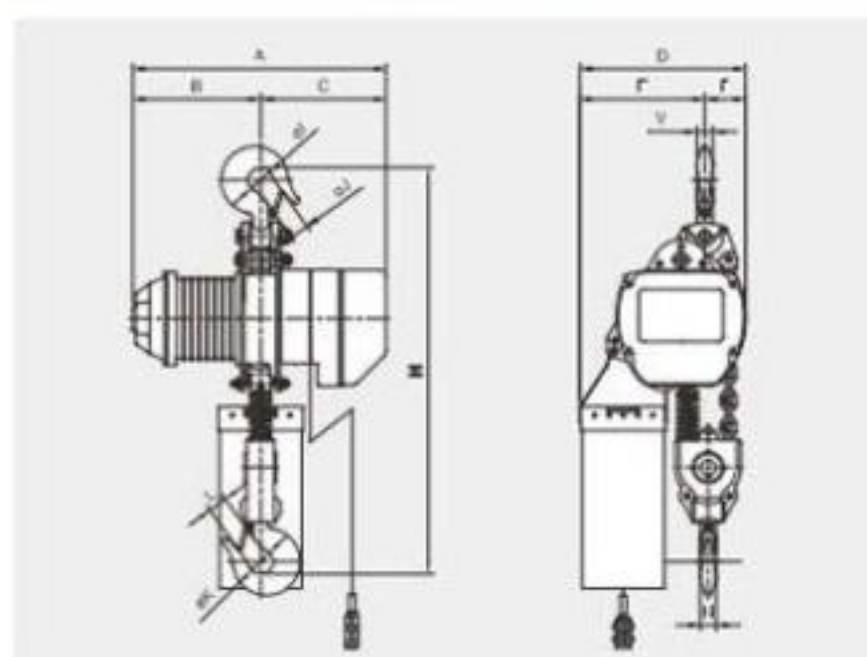
## ■ Specifications:

| Capacity<br>(ton) | Model            | Dimensions (mm) |      |     |      |       |       |     |      |       |       |     |      |     |     |    |    |     |    |     |    |
|-------------------|------------------|-----------------|------|-----|------|-------|-------|-----|------|-------|-------|-----|------|-----|-----|----|----|-----|----|-----|----|
|                   |                  | H               |      | A   |      |       |       | B   |      |       |       | C   | D    | E   | F   | I  | J  | K   | L  | M   | N  |
| 0.5               | YSL, H, E, F-050 | 595             | E560 | 505 | F548 | LD548 | HD548 | 245 | F288 | LD288 | HD288 | 260 | 240  | 115 | 125 | 40 | 28 | 40  | 28 | 23  | 23 |
| 1                 | YSL, H, E, F-100 | 595             | E560 | 505 | F548 | LD548 | HD548 | 245 | F288 | LD288 | HD288 | 260 | 240  | 115 | 125 | 40 | 28 | 40  | 28 | 23  | 23 |
| 2                 | YSL, H, E, F-200 | 745             | E710 | 505 | F548 | LD548 | HD548 | 245 | F288 | LD288 | HD288 | 260 | 240  | 175 | 65  | 46 | 36 | 46  | 36 | 31  | 31 |
| 3                 | YSL, H-300       | 880             | -    | 505 | -    | LD548 | HD548 | 245 | -    | LD288 | HD288 | 260 | 280  | 175 | 105 | 52 | 43 | 52  | 43 | 34  | 34 |
| 2                 | YSS-200          | 835             | -    | 640 | -    | -     | SD689 | 326 | -    | -     | SD375 | 314 | 448  | 278 | 170 | 52 | 43 | 52  | 43 | 34  | 34 |
| 2.5               | YSS-250          | 880             | -    | 640 | -    | -     | SD689 | 326 | -    | -     | SD375 | 314 | 448  | 278 | 170 | 52 | 43 | 52  | 43 | 34  | 34 |
| 3                 | YSS-300          | 960             | -    | 640 | -    | -     | SD689 | 326 | -    | -     | SD375 | 314 | 448  | 340 | 108 | 52 | 43 | 52  | 43 | 34  | 34 |
| 5                 | YSS-500          | 1030            | -    | 640 | -    | -     | SD689 | 326 | -    | -     | SD375 | 314 | 448  | 356 | 92  | 62 | 45 | 62  | 45 | 45  | 45 |
| 7.5               | YSS-750          | 1150            | -    | 640 | -    | -     | SD689 | 326 | -    | -     | SD375 | 314 | 587  | 388 | 199 | 72 | 40 | 75  | 57 | 84  | 48 |
| 10                | YSS-1000         | 1270            | -    | 640 | -    | -     | SD689 | 326 | -    | -     | SD375 | 314 | 970  | 485 | 485 | 72 | 40 | 100 | 68 | 92  | 60 |
| 15                | YSS-1500         | 1365            | -    | 679 | -    | -     | SD724 | 365 | -    | -     | SD410 | 314 | 1360 | 680 | 680 | 80 | 40 | 120 | 90 | 169 | 85 |
| 20                | YSS-2000         | 1950            | -    | 866 | -    | -     | SD866 | 433 | -    | -     | SD433 | 433 | 1472 | 736 | 736 | 82 | 82 | 140 | 95 | 164 | 95 |
| 30                | YSS-3000         | 2000            | -    | 924 | -    | -     | SD924 | 462 | -    | -     | SD462 | 462 | 1472 | 736 | 736 | 92 | 92 | 140 | 95 | 221 | 95 |

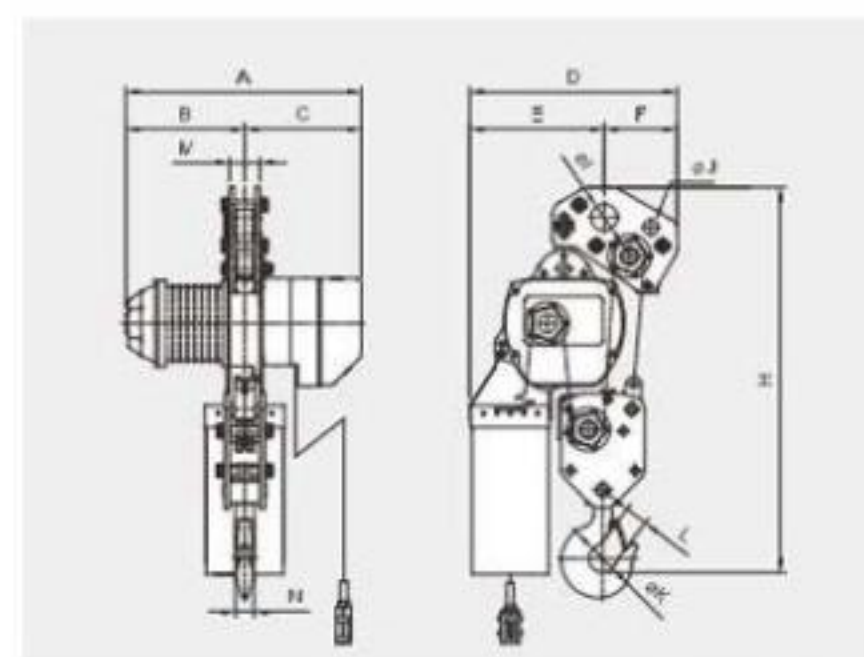
## ■ Dimensions of Hook Suspension Type Hoist:



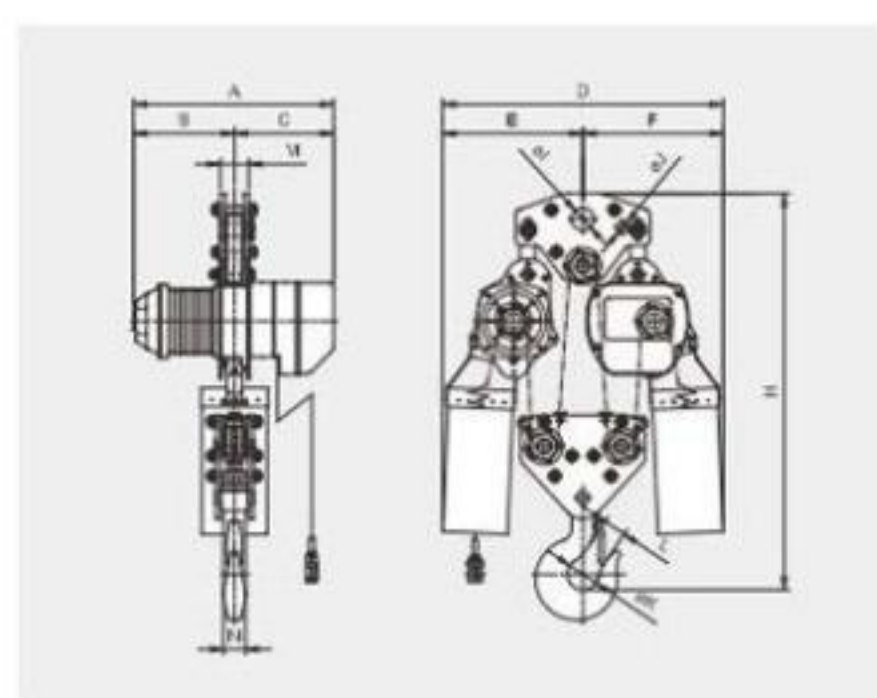
YSL, YSH, YSE, YSF, YSS



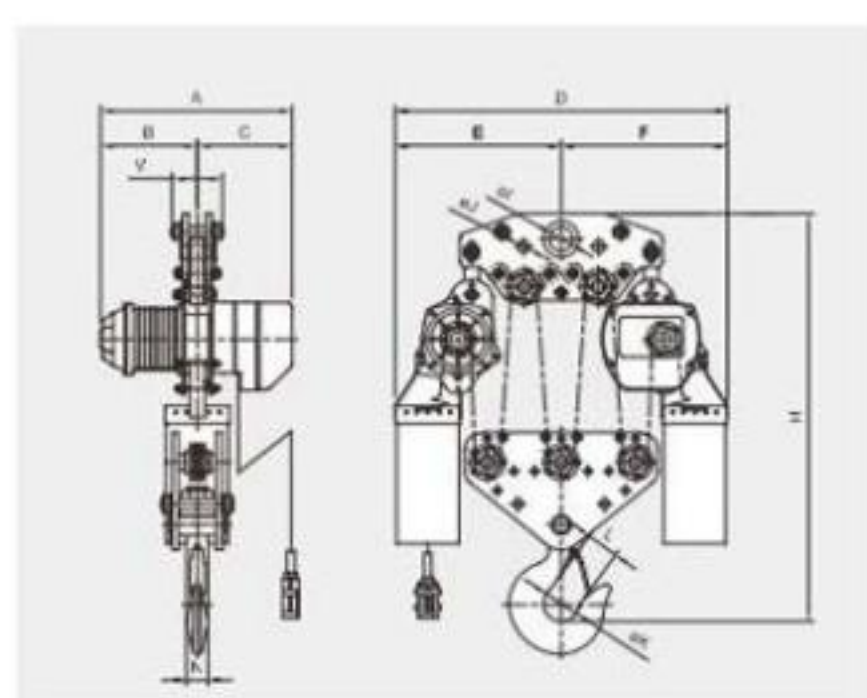
YSS-500



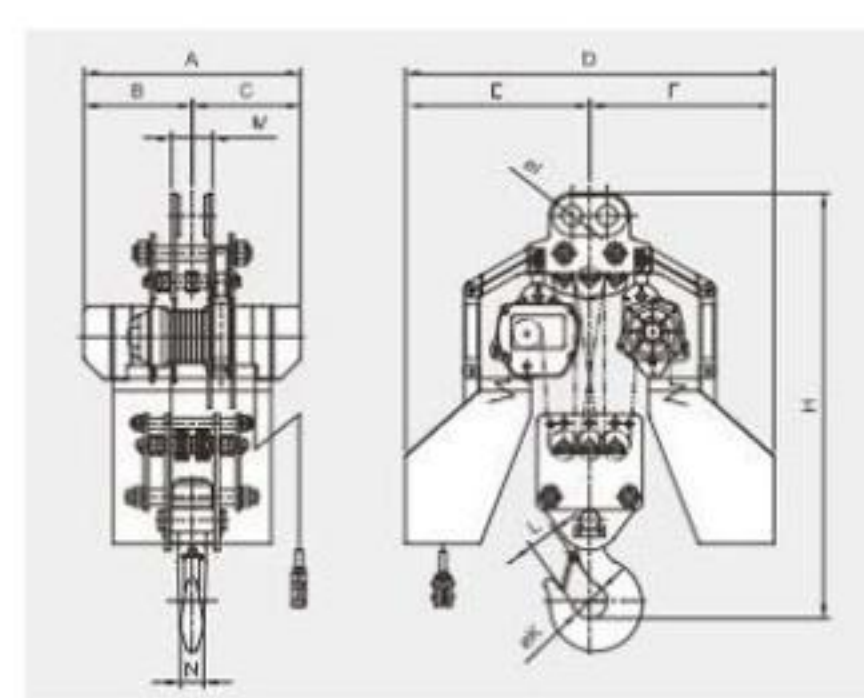
YSS-750



YSS-1000



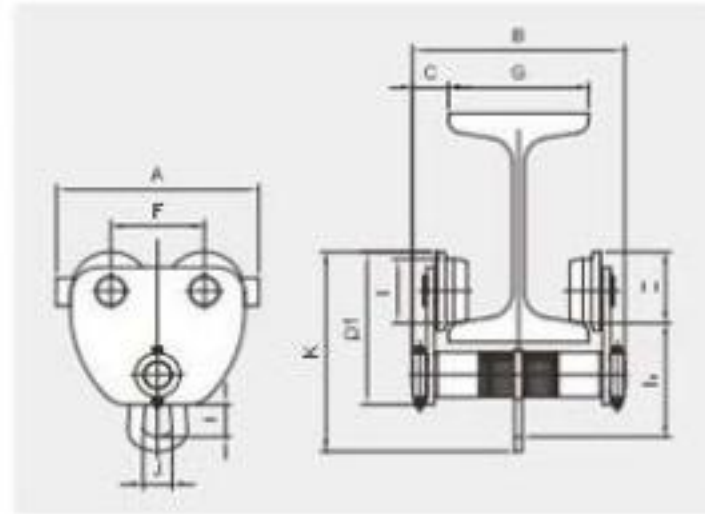
YSS-1500



YSS-2000, YSS-3000

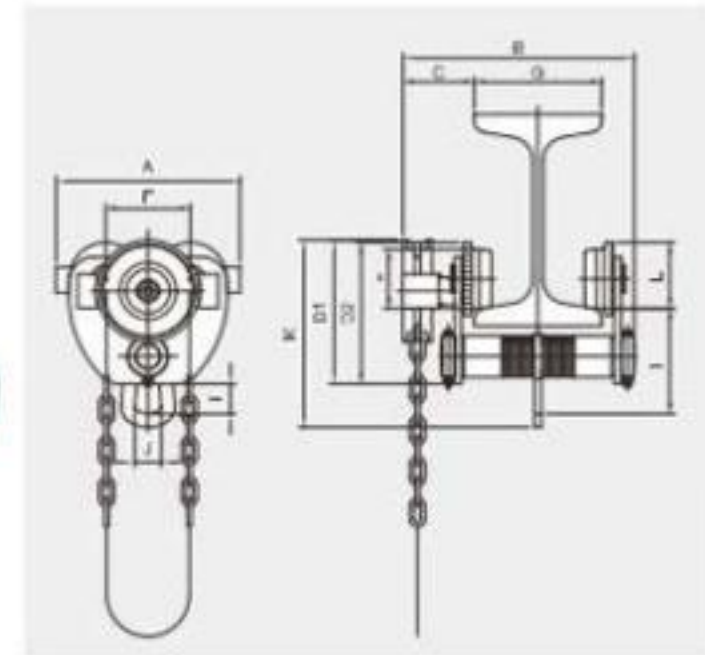
## Trolley

### ● Plain Trolley (PT)



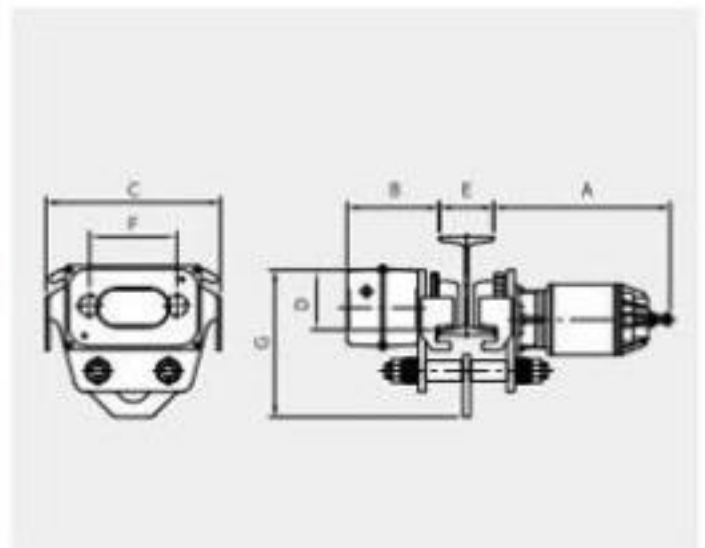
| Dimensions (mm)   |         |     |     |    |     |     |     |     |     |    |     |     |                      |              |                                  |
|-------------------|---------|-----|-----|----|-----|-----|-----|-----|-----|----|-----|-----|----------------------|--------------|----------------------------------|
| Capacity<br>(ton) | Model   | A   | B   | C  | D1  | E   | F   | H   | I   | J  | K   | L   | Flange<br>Width<br>G | N.W.<br>(kg) | Min<br>radius of<br>curve<br>(m) |
| 0.5               | PT-050  | 194 | 220 | 35 | 151 | 69  | 89  | 115 | 33  | 28 | 198 | 60  | 50-150               | 6.4          | 1.0m                             |
| 1                 | PT-100  | 217 | 227 | 39 | 167 | 78  | 100 | 124 | 35  | 31 | 218 | 70  | 75-150               | 10.6         | 1.0m                             |
| 2                 | PT-200  | 247 | 260 | 43 | 207 | 91  | 116 | 171 | 55  | 56 | 284 | 80  | 100-175              | 16.8         | 1.3m                             |
| 3                 | PT-300  | 270 | 300 | 50 | 239 | 103 | 130 | 215 | 79  | 60 | 353 | 90  | 100-200              | 25.8         | 1.5m                             |
| 5                 | PT-500  | 310 | 304 | 52 | 251 | 117 | 140 | 218 | 84  | 60 | 370 | 100 | 125-200              | 32.6         | 1.6m                             |
| 7.5               | PT-750  | 368 | 343 | 72 | 292 | 135 | 184 | 260 | 103 | 76 | 435 | 120 | 150-200              | 59.5         | 2.2m                             |
| 10                | PT-1000 | 398 | 350 | 75 | 322 | 152 | 197 | 275 | 105 | 76 | 467 | 140 | 150-200              | 81.4         | 2.2m                             |

### ● Geared Trolley (GT)



| Dimensions (mm)   |         |     |     |     |     |     |     |     |     |     |    |     |     |                      |              |                                  |
|-------------------|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|----------------------|--------------|----------------------------------|
| Capacity<br>(ton) | Model   | A   | B   | C   | D1  | D2  | E   | F   | H   | I   | J  | K   | L   | Flange<br>Width<br>G | N.W.<br>(kg) | Min<br>radius of<br>curve<br>(m) |
| 0.5               | GT-050  | 194 | 266 | 81  | 150 | 151 | 69  | 89  | 115 | 33  | 28 | 198 | 60  | 50-150               | 8.8          | 1.0m                             |
| 1                 | GT-100  | 217 | 273 | 85  | 170 | 167 | 78  | 100 | 124 | 35  | 31 | 221 | 70  | 75-150               | 13.5         | 1.0m                             |
| 2                 | GT-200  | 247 | 309 | 91  | 224 | 207 | 91  | 116 | 171 | 55  | 56 | 301 | 80  | 100-175              | 19.8         | 1.3m                             |
| 3                 | GT-300  | 270 | 346 | 96  | 241 | 239 | 103 | 130 | 215 | 79  | 60 | 355 | 90  | 100-200              | 30.3         | 1.5m                             |
| 5                 | GT-500  | 310 | 350 | 98  | 235 | 251 | 117 | 140 | 218 | 84  | 60 | 370 | 100 | 125-200              | 37           | 1.6m                             |
| 7.5               | GT-750  | 368 | 382 | 110 | 280 | 292 | 135 | 184 | 260 | 103 | 76 | 435 | 120 | 150-200              | 64           | 2.2m                             |
| 10                | GT-1000 | 398 | 389 | 114 | 301 | 322 | 152 | 197 | 275 | 105 | 76 | 467 | 140 | 150-200              | 86           | 2.2m                             |

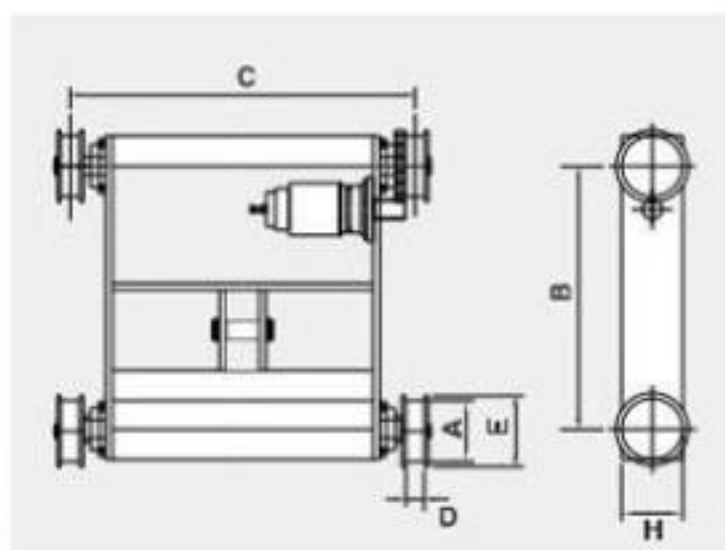
### ● Monorail Motorized Trolley (MT)



| Dimensions (mm)   |          |     |     |     |     |         |     |     |              |        |               |             |                                  |              |
|-------------------|----------|-----|-----|-----|-----|---------|-----|-----|--------------|--------|---------------|-------------|----------------------------------|--------------|
| Capacity<br>(ton) | Model    | A   | B   | C   | D   | E       | F   | G   | Speed(m/min) |        | Motor<br>(kw) | Pole<br>(P) | Min<br>radius<br>of curve<br>(m) | N.W.<br>(kg) |
|                   |          |     |     |     |     |         |     |     | 50Hz         | 60Hz   |               |             |                                  |              |
| 1                 | MT-100   | 328 | 173 | 294 | 98  | 75-125  | 149 | 246 | 20           | 24, 16 | 0.25, 0.17    | 4, 6        | 1.3                              | 40           |
|                   | MTD-100  |     |     |     |     |         |     |     | 20/7         | 24/8   |               |             |                                  |              |
| 2                 | MT-200   | 328 | 173 | 322 | 111 | 100-150 | 161 | 272 | 20           | 24, 16 | 0.25, 0.17    | 4, 6        | 1.5                              | 45           |
|                   | MTD-200  |     |     |     |     |         |     |     | 20/7         | 24/8   |               |             |                                  |              |
| 3                 | MT-300   | 368 | 180 | 356 | 117 | 125-175 | 172 | 297 | 20           | 24, 16 | 0.6, 0.4      | 4, 6        | 1.8                              | 65           |
|                   | MTD-300  |     |     |     |     |         |     |     | 20/7         | 24/8   |               |             |                                  |              |
| 5                 | MT-500   | 372 | 184 | 386 | 127 | 125-175 | 183 | 320 | 20           | 24, 16 | 0.6, 0.4      | 4, 6        | 2.0                              | 89           |
|                   | MTD-500  |     |     |     |     |         |     |     | 20/7         | 24/8   |               |             |                                  |              |
| 7.5               | MT-750   | 380 | 193 | 454 | 167 | 150-200 | 229 | 400 | 13           | 16     | 0.9           | 6           | 3.0                              | 155          |
|                   | MTD-750  |     |     |     |     |         |     |     | 13/6.5       | 16/8   |               |             |                                  |              |
| 10                | MT-1000  | 471 | 193 | 560 | 205 | 150-200 | 278 | 450 | 15           | 18     | 1.5           | 4           | 3.5                              | 218          |
|                   | MTD-1000 |     |     |     |     |         |     |     | 15/5         | 18/6   |               |             |                                  |              |
| 15                | MT-1500  | 576 | 212 | 702 | 220 | 190     | 360 | 520 | 12           | 14     | 1.5           | 4           | -                                | 350          |
|                   | MTD-1500 |     |     |     |     |         |     |     | 12/4         | 14/4.6 |               |             |                                  |              |
| 20                | MT-2000  | 705 | 211 | 882 | 295 | 200     | 440 | 604 | 12           | 15     | 2.2           | 4           | -                                | 575          |
|                   | MTD-2000 |     |     |     |     |         |     |     | 12/4         | 15/5   |               |             |                                  |              |

MT-100~500: 50Hz uses 4P motor ; 60Hz uses 4P or 6P motor  
(Please specify as ordering 6P motor)

### ● Motor Saddle Trolley (MST)



| Dimensions (mm)   |           |              |        |     |     |      |    |     |       |               |             |              |
|-------------------|-----------|--------------|--------|-----|-----|------|----|-----|-------|---------------|-------------|--------------|
| Capacity<br>(ton) | Model     | Speed(m/min) |        | A   | B   | C    | D  | E   | H     | Motor<br>(kw) | Pole<br>(P) | N.W.<br>(kg) |
|                   |           | 50Hz         | 60Hz   |     |     |      |    |     |       |               |             |              |
| 1                 | MST-100   | 20           | 19     | 120 | 580 | 700  | 40 | 147 | 122.5 | 0.25          | 4           | 94           |
|                   | MSTD-100  | 20/6.7       | 19/6.3 |     |     |      |    |     |       | 0.25/0.08     | 4/12        |              |
| 2                 | MST-200   | 20           | 19     | 120 | 580 | 700  | 40 | 147 | 122.5 | 0.25          | 4           | 94           |
|                   | MSTD-200  | 20/6.7       | 19/6.3 |     |     |      |    |     |       | 0.25/0.08     | 4/12        |              |
| 3                 | MST-300   | 18           | 22     | 150 | 650 | 850  | 45 | 178 | 155   | 0.4           | 4           | 182          |
|                   | MSTD-300  | 18/6         | 22/7.3 |     |     |      |    |     |       | 0.4/0.13      | 4/12        |              |
| 5                 | MST-500   | 18           | 22     | 150 | 650 | 850  | 45 | 178 | 155   | 0.6           | 6           | 182          |
|                   | MSTD-500  | 18/9         | 22/11  |     |     |      |    |     |       | 0.6/0.3       | 6/12        |              |
| 7.5               | MST-750   | 19           | 23     | 160 | 800 | 1000 | 50 | 187 | 225   | 0.9           | 4           | 306          |
|                   | MSTD-750  | 19/6.3       | 23/7.7 |     |     |      |    |     |       | 0.9/0.3       | 4/12        |              |
| 10                | MST-1000  | 21           | 20     | 215 | 900 | 1200 | 50 | 246 | 327.5 | 0.9-2pcs      | 4           | 504          |
|                   | MSTD-1000 | 21/7         | 20/6.7 |     |     |      |    |     |       | 0.9/0.3-2pcs  | 4/12        |              |

MST-100 — 50Hz with pinion of M3.5x15T  
MST-200 — 60Hz with pinion of M3.5x12T  
MST-1000 —  
MST-300 — 50Hz/60Hz with pinion of M3.5x13T  
MST-500 — 50Hz/60Hz with pinion of M3.5x20T  
MST-750 — 50Hz/60Hz with pinion of M3.5x15T

## Models Available

| Capacity<br>(ton) |                    |         | 0.5T     | 1T       | 2T       | 2.5T     | 3T       | 5T       | 7.5T     | 10T       | 15T       | 20T       | 30T       |
|-------------------|--------------------|---------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|
| 3 Phase           | Slipping<br>Clutch | YSE     | YSE-050  | YSE-100  | YSE-200  |          |          |          |          |           |           |           |           |
|                   | Low<br>Speed       | YSL     | YSL-050  | YSL-100  | YSL-200  |          | YSL-300  |          |          |           |           |           |           |
|                   |                    |         | YLT-050  | YLT-100  | YLT-200  |          | YLT-300  |          |          |           |           |           |           |
|                   | High<br>Speed      | YSH     | YSH-050  | YSH-100  | YSH-200  |          | YSH-300  |          |          |           |           |           |           |
|                   |                    |         | YHT-050  | YHT-100  | YHT-200  |          | YHT-300  |          |          |           |           |           |           |
|                   | Heavy<br>Speed     | YSS     |          |          | YSS-200  |          | YSS-250  |          |          |           |           |           |           |
|                   |                    | YST     |          |          | YST-200  | YST-250  | YST-300  | YST-500  |          |           |           |           |           |
|                   | Dual<br>Speed      | YSED    | YSED-050 | YSED-100 | YSED-200 |          |          |          |          |           |           |           |           |
|                   |                    | YSLD    | YSLD-050 | YSLD-100 | YSLD-200 |          | YSLD-300 |          |          |           |           |           |           |
|                   |                    | YLTD    | YLTD-050 | YLTD-100 | YLTD-200 |          | YLTD-300 |          |          |           |           |           |           |
|                   |                    | YSHD    | YSHD-050 | YSHD-100 | YSHD-200 |          | YSHD-300 |          |          |           |           |           |           |
|                   |                    | YHTD    | YHTD-050 | YHTD-100 | YHTD-200 |          | YHTD-300 |          |          |           |           |           |           |
|                   |                    | YSSD    |          |          | YSSD-200 | YSSD-250 | YSSD-300 | YSSD-500 | YSSD-750 | YSSD-1000 | YSSD-1500 | YSSD-2000 | YSSD-3000 |
|                   |                    | YSTD    |          |          | YSTD-200 | YSTD-250 | YSTD-300 | YSTD-500 |          |           |           |           |           |
| Single Phase      | YSF                | YSF-050 | YSF-100  | YSF-200  |          |          |          |          |          |           |           |           |           |

## Chain Bucket No. Selection Table

| Model                                             | Chain size<br>(mm) | Lift (m) |     |    |      |     |      |      |    |      |      |      |     |      |     |      |      |      |     |      |     |     |     |      |      |     |      |     |      |      | Bucket No. | Bucket size<br>(mm) | Material |
|---------------------------------------------------|--------------------|----------|-----|----|------|-----|------|------|----|------|------|------|-----|------|-----|------|------|------|-----|------|-----|-----|-----|------|------|-----|------|-----|------|------|------------|---------------------|----------|
|                                                   |                    | ≤4       | ≤5  | ≤6 | ≤6   | ≤7  | ≤8   | ≤9   | ≤9 | ≤10  | ≤12  | ≤13  | ≤15 | ≤16  | ≤18 | ≤19  | ≤20  | ≤23  | ≤25 | ≤26  | ≤27 | ≤30 | ≤31 | ≤38  | ≤40  | ≤47 | ≤50  | ≤60 |      |      |            |                     |          |
| YSF-050<br>YSE(D)-050<br>YSL(D)-050<br>YSH(D)-050 | Φ7.1               |          |     |    |      |     | #2   |      |    |      |      | #3   |     |      |     | #5-1 |      | #4   |     |      |     |     |     |      | #5-3 |     | #5-4 |     | #5-5 | #5-6 |            |                     |          |
| YSF-100<br>YSE(D)-100<br>YSL(D)-100<br>YSH(D)-100 | Φ7.1               |          |     |    |      |     | #2   |      |    |      |      | #3   |     |      |     | #5-1 |      | #4   |     |      |     |     |     |      | #5-3 |     | #5-4 |     | #5-5 | #5-6 |            |                     |          |
| YSF-200<br>YSE(D)-200<br>YSL(D)-200<br>YSH(D)-200 | Φ7.1               | #2       |     | #3 |      |     |      | #5-1 |    | #4   | #5-2 | #5-3 |     |      |     |      | #5-4 | #5-5 |     |      |     |     |     | #5-6 |      |     |      |     |      |      |            |                     |          |
| YSL(D)-300<br>YSH(D)-300                          | Φ7.1               | #3       |     | #4 | #5-1 |     | #5-2 |      |    | #5-3 |      |      |     | #5-5 |     |      | #5-6 |      |     |      |     |     |     |      |      |     |      |     |      |      |            |                     |          |
| YSS(D)-200                                        | Φ10.0              |          |     |    |      |     | #6   |      |    |      |      |      |     |      |     |      | #7   |      |     | #8-1 |     | #8  |     | #9   |      | #10 |      |     |      |      |            |                     |          |
| YSS(D)-250                                        | Φ11.2              |          |     |    |      |     | #6   |      |    |      |      |      |     |      |     | #7   | #8-1 |      |     |      |     | #8  |     | #9   |      | #10 |      |     |      |      |            |                     |          |
| YSS(D)-300                                        | Φ10.0              | #6       |     |    |      |     |      |      |    | #7   | #8-1 | #8   |     |      | #9  |      | #10  |      |     |      |     |     |     |      |      |     |      |     |      |      |            |                     |          |
| YSS(D)-500                                        | Φ11.2              | #6       |     |    |      |     |      | #7   |    | #8-1 | #8   | #9   |     |      |     | #10  |      |      |     |      |     |     |     |      |      |     |      |     |      |      |            |                     |          |
| YSS(D)-750                                        | Φ11.2              |          |     | #7 | #8-1 |     |      | #8   |    | #9   | #10  |      |     |      |     |      |      |      |     | #11  |     |     |     |      |      |     |      |     |      |      |            |                     |          |
| YSS(D)-1000                                       | Φ11.2              |          |     |    |      |     | #7   | #8-1 |    | #8   | #9   |      |     |      |     | #10  |      |      |     |      |     |     |     |      |      |     |      | #11 |      |      |            |                     |          |
| YSS(D)-1500                                       | Φ11.2              |          |     | #7 | #8-1 |     | #8   |      | #9 | #10  |      |      |     |      |     |      |      |      | #11 |      |     |     |     |      |      |     |      |     |      |      |            |                     |          |
| YSS(D)-2000                                       | Φ11.2              |          |     |    |      | #12 |      |      |    |      | #13  |      |     |      |     |      |      |      |     |      |     |     |     |      |      |     |      |     |      |      |            |                     |          |
| YSS(D)-3000                                       | Φ11.2              |          | #12 |    |      |     | #13  |      |    |      |      |      |     |      |     |      |      |      |     |      |     |     |     |      |      |     |      |     |      |      |            |                     |          |

|       |               |        |
|-------|---------------|--------|
| # 2   | 150X100X380L  | canvas |
| # 3   | 150X100X470L  | canvas |
| # 4   | 150X100X560L  | canvas |
| # 5-1 | 210X140X465L  | steel  |
| # 5-2 | 210X160X545L  | steel  |
| # 5-3 | 210X160X665L  | steel  |
| # 5-4 | 210X170X815L  | steel  |
| # 5-5 | 210X170X975L  | steel  |
| # 5-6 | 210X180X1135L | steel  |
| # 6   | 190X190X440L  | canvas |
| # 7   | 190X190X560L  | canvas |
| # 8   | 190X190X680L  | canvas |
| # 8-1 | 400X210X605L  | steel  |
| # 9   | 400X210X695L  | steel  |
| # 10  | 400X210X770L  | steel  |
| # 11  | 400X210X1105L | steel  |
| # 12  | 400X500X660L  | steel  |
| # 13  | 400X500X867L  | steel  |

※ There are 2 chain bucket with hoist above 10 tons.

### Power Supply :

- Electric Chain Hoists are available in all standard voltages of three Phase power, from 220V to 600V; as well as 115V or 230V of single Phase. Three Phase hoists are re-connectable.

### Lifting Height :

- Standard lifting height: 3 Meters / 6 Meters.
- Optional height available upon request (may be charged extra according to load chain length).
- The balance trolley is available for lift height over 6M or steel chain bucket. (Optional)

### Lifting Speed :

- Please refer to each detailed specification.

### Standard Accessories :

- Chain container .....1pc
- Power cord .....3M
- Push button pendant (3M) .....1pc

### Push Button Pendant :

- 2-button type: up and down.
- 4-button type: up and down; left and right (trolley).
- 6-button type: up and down; left and right; forward and reverse ( end carrier ).
- Plus standard emergency stop. (Optional)



## Federation Europeenne De La Manutention

| Load spectrum                          | Cubic mean value Definitions                                                                                                          | Average operating time per day in hours |             |           |          |       |      |      |      |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-------------|-----------|----------|-------|------|------|------|
| 1<br>(light)                           | ( $k \leq 0.50$ )<br>Mechanisms or parts thereof, usually subject to very small loads and in exceptional cases only to maximum loads. | 0.25-0.5                                | 0.5-1       | 1-2       | 2-4      | 4-8   | 8-16 | > 16 |      |
| 2<br>(medium)                          | ( $0.50 < k \leq 0.63$ )<br>Mechanisms or parts thereof, usually subject to small loads but rather often to maximum loads.            | 0.12-0.25                               | 0.25-0.5    | 0.5-1     | 1-2      | 2-4   | 4-8  | 8-16 | > 16 |
| 3<br>(heavy)                           | ( $0.63 < k \leq 0.80$ )<br>Mechanisms or parts thereof, usually subject to medium loads but frequently to maximum loads.             | $\leq 0.12$                             | 0.12-0.25   | 0.25-0.5  | 0.5-1    | 1-2   | 2-4  | 4-8  | 8-16 |
| 4<br>(very heavy)                      | ( $0.80 < k \leq 1$ )<br>Mechanisms or parts thereof, usually subject to maximum or almost to maximum loads.                          |                                         | $\leq 0.12$ | 0.12-0.25 | 0.25-0.5 | 0.5-1 | 1-2  | 2-4  | 4-8  |
| Classification of Mechanisms FEM 9.511 |                                                                                                                                       | 1 Dm                                    | 1 Cm        | 1 Bm      | 1 Am     | 2 m   | 3 m  | 4 m  | 5 m  |

## ISO/FEM (9.511)

### Classification of mechanisms:

|      |      |      |      |     |     |     |     |
|------|------|------|------|-----|-----|-----|-----|
| 1 Dm | 1 Cm | 1 Bm | 1 Am | 2 m | 3 m | 4 m | 5 m |
| M 1  | M 2  | M 3  | M 4  | M 5 | M 6 | M 7 | M 8 |

### Classification of mechanisms into groups:

| Load spectrum | Cubic mean value     | Class of operation time                 |             |            |          |          |          |          |           |      |  |
|---------------|----------------------|-----------------------------------------|-------------|------------|----------|----------|----------|----------|-----------|------|--|
|               |                      | V0.06                                   | V0.12       | V0.25      | V0.5     | V1       | V2       | V3       | V4        | V5   |  |
|               |                      | T0                                      | T1          | T2         | T3       | T4       | T5       | T6       | T7        | T8   |  |
|               |                      | Average operating time per day in hours |             |            |          |          |          |          |           |      |  |
|               |                      | $\leq 0.12$                             | $\leq 0.25$ | $\leq 0.5$ | $\leq 1$ | $\leq 2$ | $\leq 4$ | $\leq 8$ | $\leq 16$ | > 16 |  |
| 1 L1          | $k \leq 0.50$        |                                         |             | 1 Dm       | 1 Cm     | 1 Bm     | 1 Am     | 2 m      | 3 m       | 4 m  |  |
| 2 L2          | $0.50 < k \leq 0.63$ |                                         | 1 Dm        | 1 Cm       | 1 Bm     | 1 Am     | 2 m      | 3 m      | 4 m       | 5 m  |  |
| 3 L3          | $0.63 < k \leq 0.80$ | 1 Dm                                    | 1 Cm        | 1 Bm       | 1 Am     | 2 m      | 3 m      | 4 m      | 5 m       |      |  |
| 4 L4          | $0.80 < k \leq 1.00$ | 1 Cm                                    | 1 Bm        | 1 Am       | 2 m      | 3 m      | 4 m      | 5 m      |           |      |  |

### Class of operating time:

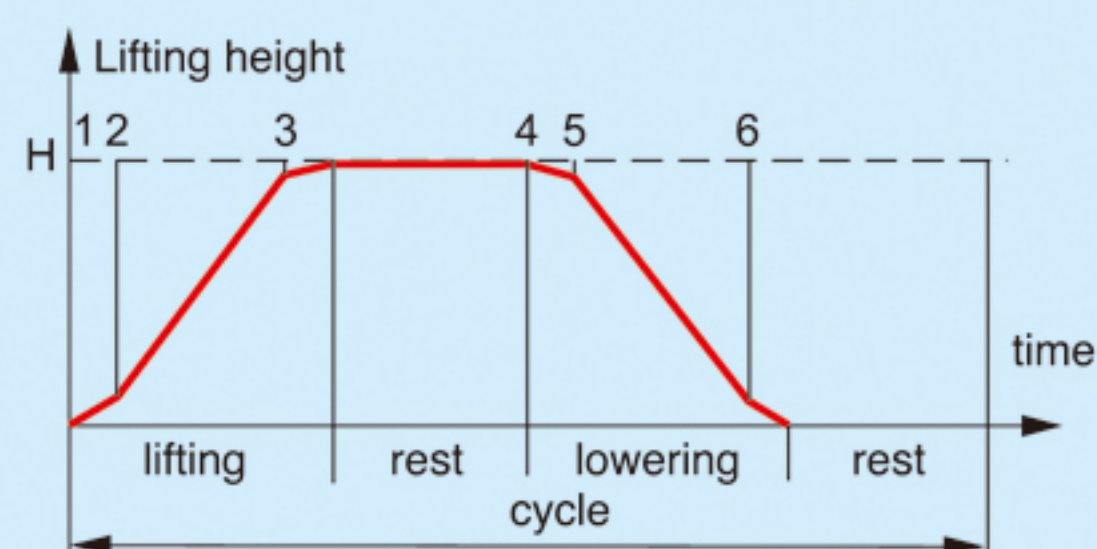
| Class of operation time | Average operating time per day (in hours) | Calculated total operating time in hours |
|-------------------------|-------------------------------------------|------------------------------------------|
| V0.06 T0                | $\leq 0.12$                               | 200                                      |
| V0.12 T1                | $\leq 0.25$                               | 400                                      |
| V0.25 T2                | $\leq 0.5$                                | 800                                      |
| V0.5 T3                 | $\leq 1$                                  | 1600                                     |
| V1 T4                   | $\leq 2$                                  | 3200                                     |
| V2 T5                   | $\leq 4$                                  | 6300                                     |
| V3 T6                   | $\leq 8$                                  | 12500                                    |
| V4 T7                   | $\leq 16$                                 | 25000                                    |
| V5 T8                   | > 16                                      | 50000                                    |

## Operation Cycle

### Hoist with one speed



### Hoist with two speed



**TAIWAN : HOITECH MACHINERY INDUSTRIAL CO., LTD**

ADD : No.126, Lane 332, Sec.8, HuanJhong Rd., Wu-Zih, Taichung, Taiwan, R.O.C

TEL : +886-4-2335 3333 FAX : +886-4-2335 3031

E-mail : hoitech2222@gmail.com



**VIETNAM : QUANG LIEN CRANE ELEVATOR CO., LTD.**

ADD : 299/15<sup>A</sup> Ly Thuong Kiet, P.15 - Q.11 - TP.HCM

TEL : +84-8-3863 6666 FAX : +84-8-3864 7212

E-mail : quanglien Crane@hcm.vnn.vn

WEB : www.quanglien.com

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