

# ELEPHANT

## ELECTRIC CHAIN BLOCK



3 Phase FA type SINGLE SPEED • FB type DOUBLE SPEED  
1 Phase SA type SINGLE SPEED

No.2

High quality & efficiency  
World class advanced chain hoist

Simple structure & useful



ELEPHANT CHAIN BLOCK CO.,LTD.



JQA-1547

EPDFFA-2

## OPTION:OVERLOAD LIMIT DEVICE

### Model:FA III FB III SA III

New type of overload limit device(Torcon) is the slip clutch equipped to motor.

In case of overloading, it actuates and stop the hoist lifting the weight. This mechanism protects the hoist from damage due to overload.

### SA model

Features

1.Single phase class B insulation  
Short time duty:25minutes

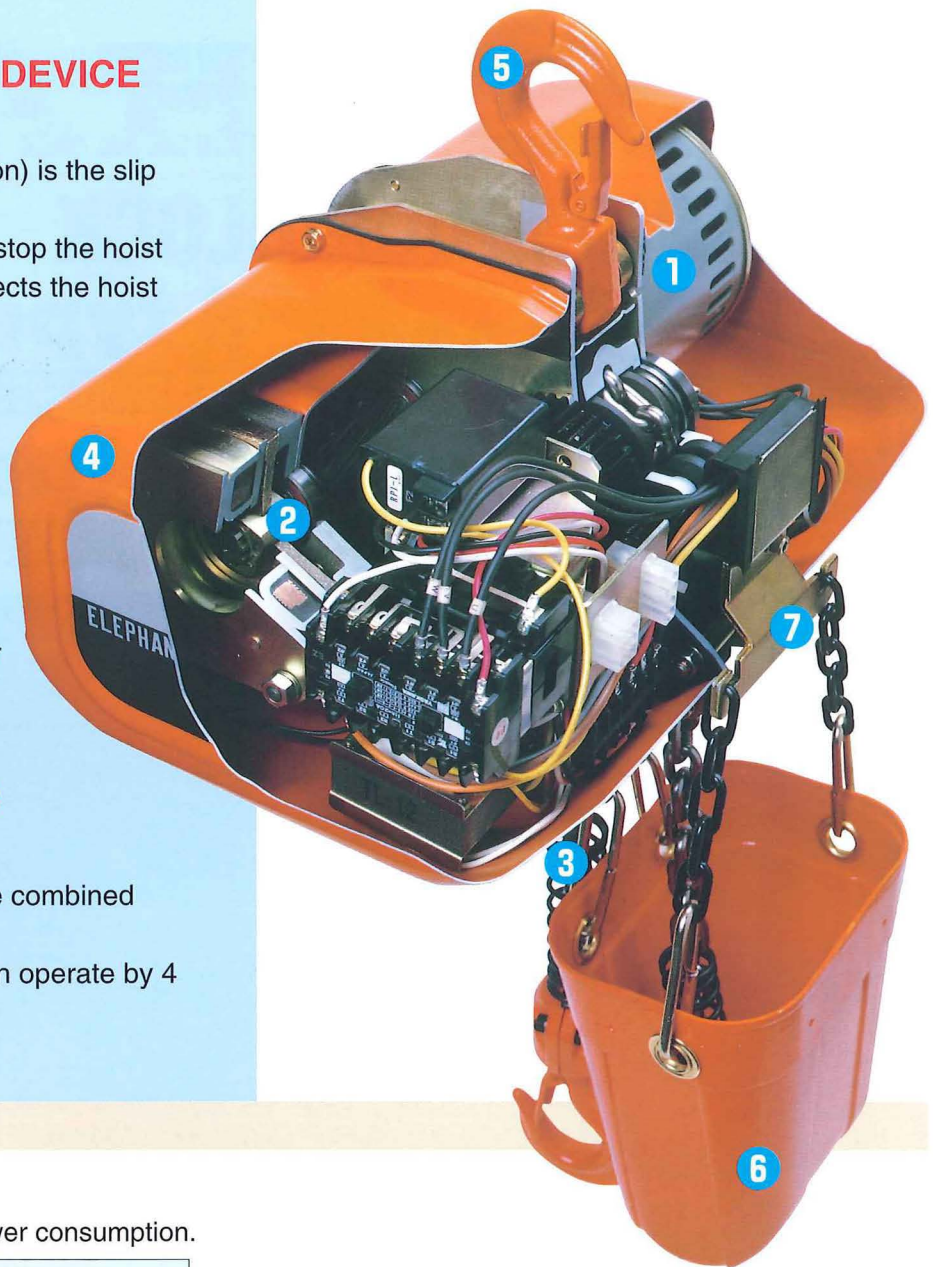
2.Thermal protector

Thermal protector senses the abnormal rise of temperature for motor and stops the motor automatically. It prevents the motor from burning.

### SINGLE PHASE ELECTRIC TROLLEY MODEL: MTS

Single phase model. This trolley can be combined with SA.

In case of combination with SA, you can operate by 4 push buttons.



## FEATURES OF FA/FB/SA

### 1 Tough, heavy-duty motor.

Originally designed motor with low power consumption.

|    | Insulation class | Short time duty         |
|----|------------------|-------------------------|
| FA | E                | 30 minutes              |
| FB | E                | 30 minutes (high speed) |
|    |                  | 15 minutes (low speed)  |
| SA | B                | 25 minutes              |

### 2 Reliable electro-magnetic DC brake

### 3 Highly durable load chain of our own manufacture.

### 4 Totally enclosed steel plate construction

Wiring:simple plug-in type connection of wires.

### 5 Top and bottom hook with high safety and operability

Bottom hook with bearing swivels 360° smoothly. In case of overloading, it gradually elongates without fracture.

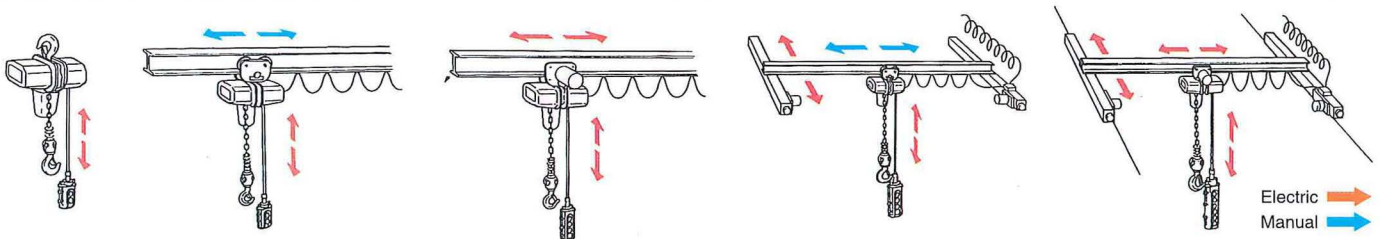
### 6 Chain bucket

Specially strengthened plastic bucket.

### 7 Limit switch

Standard model is equipped with limit switch.

## Combination of FA/FB/SA with monorail and crane



FA/FB/SA  
+2 push buttons  
+5m power cord

FA/FB/SA  
+Geared/Plain trolley  
+2 push buttons  
+5m power cord

FA/FB/SA  
+Electric trolley  
+4 push buttons

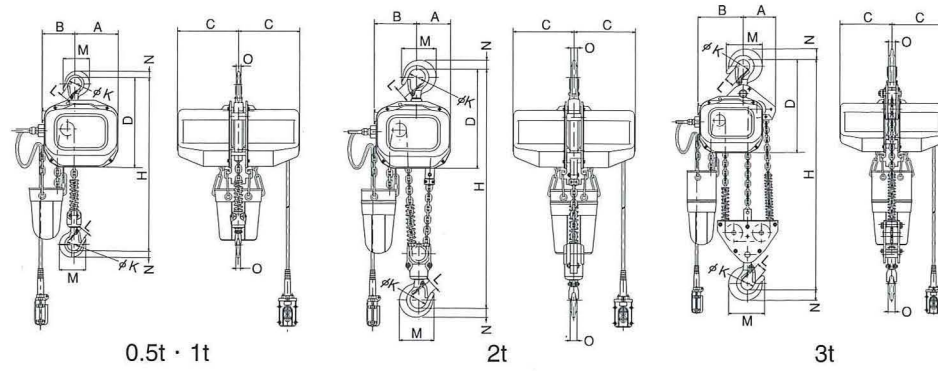
FA/FB/SA  
+Geared/Plain trolley  
+4 push buttons  
+ SBA (crane wiring box)

FA/FB  
+Electric trolley  
+6 push buttons  
+SBA (crane wiring box)

Electric →  
Manual →



## FA/FB(3 phase) Hook suspension



### SPECIFICATION

| Model No. | Capacity (ton) | Test load (ton) | Standard lift(m) | Standard push button cord length(m) | load chain dia x number of falls | Lifting motor output (kW) (FB)High:Low speed |         | Lifting speed(m/min)(FB)High:Low speed |      | Minimum distance H(mm) | Net weight |
|-----------|----------------|-----------------|------------------|-------------------------------------|----------------------------------|----------------------------------------------|---------|----------------------------------------|------|------------------------|------------|
|           |                |                 |                  |                                     |                                  | 50Hz                                         | 60Hz    | 50Hz                                   | 60Hz |                        |            |
| FA-0.5    | 0.5            | 0.625           | 3                | 2.5                                 | 6.3×1                            | 0.9                                          | 7.0     | 8.4                                    | 555  | 43(46)                 |            |
| FA-1      | 1              | 1.25            | 3                | 2.5                                 | 7.1×1                            | 1.6                                          | 6.3     | 7.5                                    | 590  | 56(60)                 |            |
| FA-2      | 2              | 2.5             | 3                | 2.5                                 | 7.1×2                            | 1.6                                          | 3.1     | 3.8                                    | 745  | 64(71)                 |            |
| FA-3      | 3              | 3.75            | 4                | 3.5                                 | 7.1×3                            | 1.6                                          | 2.1     | 2.5                                    | 840  | 83(90)                 |            |
| FB-0.5    | 0.5            | 0.625           | 3                | 2.5                                 | 6.3×1                            | 0.9:0.25                                     | 7.0:1.8 | 8.4:2.1                                | 555  | 44(47)                 |            |
| FB-1      | 1              | 1.25            | 3                | 2.5                                 | 7.1×1                            | 1.6:0.4                                      | 6.3:1.6 | 7.5:1.9                                | 590  | 57(61)                 |            |
| FB-2      | 2              | 2.5             | 3                | 2.5                                 | 7.1×2                            | 1.6:0.4                                      | 3.1:0.8 | 3.8:0.9                                | 745  | 65(72)                 |            |
| FB-3      | 3              | 3.75            | 4                | 3.5                                 | 7.1×3                            | 1.6:0.4                                      | 2.1:0.5 | 2.5:0.6                                | 840  | 84(91)                 |            |

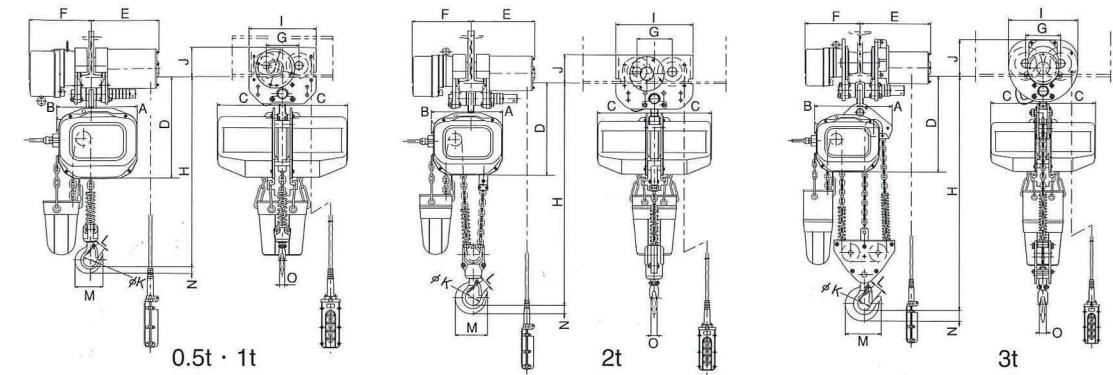
1)The number bracketed in "Net weight" indicates 6m lift. 2)The length of power cord is 4 core-0.5m(standard).  
3)When you need 6 push button for crane instead of 4 push button, "C" should be added to the end of model name. 4)Short time duty for MB is 15 minutes.

### DIMENSIONS

| Capacity(ton) | A   | B   | C   | D     | K  | L    | M     | N  | O  |
|---------------|-----|-----|-----|-------|----|------|-------|----|----|
| 0.5t          | 161 | 124 | 224 | 316.5 | 43 | 26.5 | 84    | 19 | 14 |
| 1t            | 170 | 128 | 239 | 349   | 50 | 31   | 103   | 25 | 19 |
| 2t            | 133 | 165 | 239 | 386.5 | 65 | 38   | 135.5 | 35 | 26 |
| 3t            | 148 | 208 | 239 | 427   | 60 | 43   | 165   | 49 | 32 |



## FAMB/FBMB(3 phase) Electric chain block with electric trolley



### SPECIFICATION

| Model No. | Capacity (ton) | Standard lift(m) | Lifting speed(m/min) (FB)High:Low speed |         | Traversing motor output (kW) | Traversing speed(m/min) |                | Minimum distance H(mm) | Traversing I beam width | Trolley min radius(mm) | Net weight |
|-----------|----------------|------------------|-----------------------------------------|---------|------------------------------|-------------------------|----------------|------------------------|-------------------------|------------------------|------------|
|           |                |                  | 50Hz                                    | 60Hz    |                              | 50Hz                    | 60Hz           |                        |                         |                        |            |
| FAMB-0.5  | 0.5            | 3                | 7.0                                     | 8.4     | 0.4                          | 5:20 (MB type)          | 6:24 (MB type) | 695(600)               | 75·100                  | 1100                   | 74(77)     |
| FAMB-1    | 1              | 3                | 6.3                                     | 7.5     |                              |                         |                | 730(625)               | 125·150                 | 1100                   | 87(91)     |
| FAMB-2    | 2              | 3                | 3.1                                     | 3.8     |                              |                         |                | 910(750)               | 100·125                 | 1500                   | 104(111)   |
| FAMB-3    | 3              | 4                | 2.1                                     | 2.5     |                              |                         |                | 1020(860)              | 150                     | 1500                   | 147(154)   |
| FBMB-0.5  | 0.5            | 3                | 7.0:1.8                                 | 8.4:2.1 | 0.4                          | 5:20 (MB type)          | 6:24 (MB type) | 695(600)               | 75·100                  | 1100                   | 75(78)     |
| FBMB-1    | 1              | 3                | 6.3:1.6                                 | 7.5:1.9 |                              |                         |                | 730(625)               | 125·150                 | 1100                   | 88(92)     |
| FBMB-2    | 2              | 3                | 3.1:0.8                                 | 3.8:0.9 |                              |                         |                | 910(750)               | 100·125                 | 1500                   | 105(112)   |
| FBMB-3    | 3              | 4                | 2.1:0.5                                 | 2.5:0.6 |                              |                         |                | 1020(860)              | 150                     | 1500                   | 148(155)   |

1)The number bracketed in "Net weight" indicates 6m lift. 2)The length of power cord in standard is 4 core-0.5m in case of 4 push button, 7 core-0.5m in case of 6 push button.  
3)When you need 6 push button for crane instead of 4 push button, "C" should be added to the end of model name. 4)Short time duty for MB is 15 minutes.  
5)Minimum distance H is in case of that "Traversing I beam width" is minimum. 6)The number bracketed in "Minimum distance H(mm)" means direct connection.

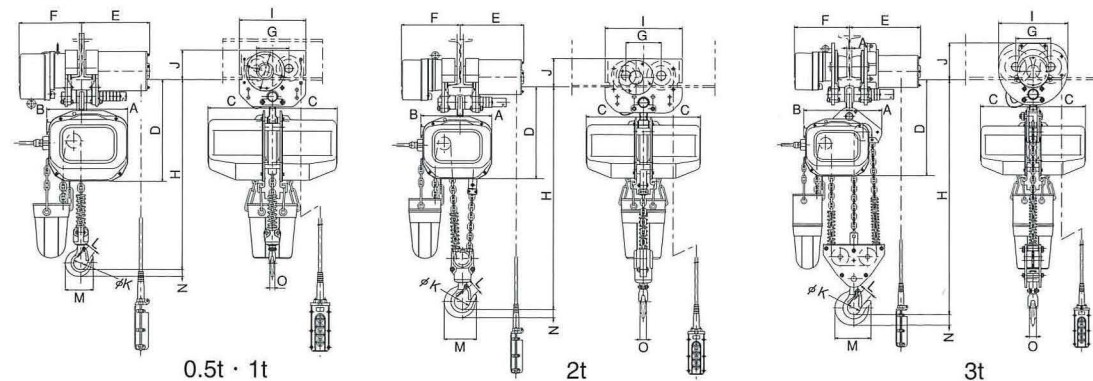
### DIMENSIONS

| Capacity(ton) | A   | B   | C   | *D    | *E  | *F  | G   | I   | *J  | K  | L    | M     | M  | N  | φ P(diameter of wheel) |
|---------------|-----|-----|-----|-------|-----|-----|-----|-----|-----|----|------|-------|----|----|------------------------|
| 0.5t          | 161 | 124 | 224 | 456.5 | 278 | 231 | 120 | 246 | 114 | 43 | 26.5 | 84    | 19 | 14 | 68                     |
| 1t            | 170 | 128 | 239 | 489   | 278 | 231 | 120 | 246 | 114 | 50 | 31   | 103   | 25 | 19 | 68                     |
| 2t            | 133 | 165 | 239 | 550   | 294 | 247 | 148 | 324 | 137 | 65 | 38   | 135.5 | 35 | 26 | 83.5                   |
| 3t            | 148 | 208 | 239 | 582   | 400 | 252 | 160 | 316 | 181 | 60 | 43   | 165   | 49 | 32 | 98                     |

1)Dimension marked by "\*" is in case of that "Traversing I beam width" is minimum.



## FAM/FBM(3 phase) Electric chain block with electric trolley



### SPECIFICATION

| Model No. | Capacity (ton) | Standard lift(m) | Lifting speed(m/min) (FB)High:Low speed |         | Traversing motor output (kW) | Traversing speed(m/min) |                  | Minimum distance H(mm) | Traversing I beam width | Trolley min radius(mm) | Net weight |
|-----------|----------------|------------------|-----------------------------------------|---------|------------------------------|-------------------------|------------------|------------------------|-------------------------|------------------------|------------|
|           |                |                  | 50Hz                                    | 60Hz    |                              | 50Hz/60Hz               | 50Hz/60Hz        |                        |                         |                        |            |
| FAM-0.5   | 0.5            | 3                | 7.0                                     | 8.4     | 0.4                          | 20/24 (MAF type)        | 10/12 (MAS type) | 695(600)               | 75·100                  | 1100                   | 74(77)     |
| FAM-1     | 1              | 3                | 6.3                                     | 7.5     |                              |                         |                  | 730(625)               | 125·150                 | 1100                   | 87(91)     |
| FAM-2     | 2              | 3                | 3.1                                     | 3.8     |                              |                         |                  | 910(750)               | 100·125                 | 1500                   | 104(111)   |
| FAM-3     | 3              | 4                | 2.1                                     | 2.5     |                              |                         |                  | 1020(860)              | 150                     | 1500                   | 147(154)   |
| FBM-0.5   | 0.5            | 3                | 7.0:1.8                                 | 8.4:2.1 | 0.4                          | 20/24 (MAF type)        | 10/12 (MAS type) | 695(600)               | 75·100                  | 1100                   | 75(78)     |
| FBM-1     | 1              | 3                | 6.3:1.6                                 | 7.5:1.9 |                              |                         |                  | 730(625)               | 125·150                 | 1100                   | 88(92)     |
| FBM-2     | 2              | 3                | 3.1:0.8                                 | 3.8:0.9 |                              |                         |                  | 910(750)               | 100·125                 | 1500                   | 105(112)   |
| FBM-3     | 3              | 4                | 2.1:0.5                                 | 2.5:0.6 |                              |                         |                  | 1020(860)              | 150                     | 1500                   | 148(155)   |

1)The number bracketed in "Net weight" indicates 6m lift. 2)The length of power cord in standard is 4 core-0.5m in case of 4 push button, 7 core-0.5m in case of 6 push button.  
3)When you need 6 push button for crane instead of 4 push button, "C" should be added to the end of model name. 4)Short time duty for MAF/MAS is 30 minutes.  
5)Minimum distance H is in case of that "Traversing I beam width" is minimum. 6)The number bracketed in "Minimum distance H(mm)" means direct connection.

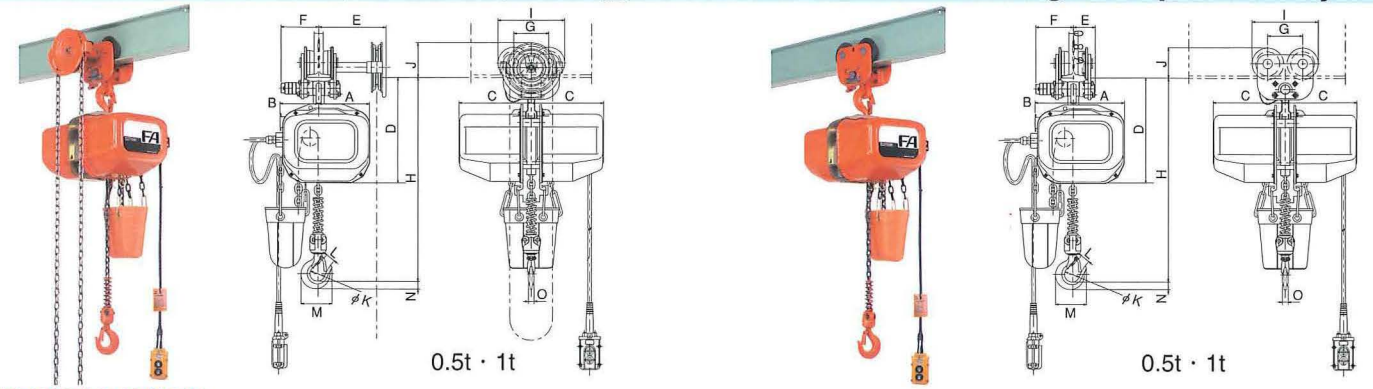
### DIMENSIONS

| Capacity(ton) | A   | B   | C   | *D    | *E  | *F  | G   | I   | *J  | K  | L    | M     | N  | O  | φ P(diameter of wheel) |
|---------------|-----|-----|-----|-------|-----|-----|-----|-----|-----|----|------|-------|----|----|------------------------|
| 0.5t          | 161 | 124 | 224 | 456.5 | 251 | 231 | 120 | 246 | 114 | 43 | 26.5 | 84    | 19 | 14 | 68                     |
| 1t            | 170 | 128 | 239 | 489   | 251 | 231 | 120 | 246 | 114 | 50 | 31   | 103   | 25 | 19 | 68                     |
| 2t            | 133 | 165 | 239 | 550   | 267 | 247 | 148 | 324 | 137 | 65 | 38   | 135.5 | 35 | 26 | 83.5                   |
| 3t            | 148 | 208 | 239 | 582   | 324 | 252 | 160 | 316 | 181 | 60 | 43   | 165   | 49 | 32 | 98                     |

1)Dimension marked by "\*" is in case of that "Traversing I beam width" is minimum.

\*The specification and dimensions may be changed without prior notice for improvement.

## FAG, FAP/FBG, FBP type Electric chain block with geared/plain trolley



### SPECIFICATION

| Model No.       | Capacity (ton) | Standard lift(m) | Lifting speed(m/min) (FB)High:Low speed |         | Traverse distance on pulling 1m hand chain(mm) | Geared trolley Hand chain effort (approx.)(kg) | Minimum distance H(mm) | Traversing I beam width | Trolley min radius(mm) | Net weight       |                 |
|-----------------|----------------|------------------|-----------------------------------------|---------|------------------------------------------------|------------------------------------------------|------------------------|-------------------------|------------------------|------------------|-----------------|
|                 |                |                  | 50Hz                                    | 60Hz    |                                                |                                                |                        |                         |                        | w/Geared trolley | w/Plain trolley |
| FAG-0.5,FAP-0.5 | 0.5            | 3                | 7.0                                     | 8.4     | 115                                            | 2                                              | 670(575)               | 75·100                  | 900                    | 57(60)           | 57(60)          |
| FAG-1, FAP-1    | 1              | 3                | 6.3                                     | 7.5     | 94                                             | 3.5                                            | 705(600)               | 125                     | 1100                   | 75(90)           | 75(79)          |
| FAG-2, FAP-2    | 2              | 3                | 3.1                                     | 3.8     | 81                                             | 5.5                                            | 895(740)               | 100·125                 | 1200                   | 91(98)           | 91(98)          |
| FAG-3, FAP-3    | 3              | 4                | 2.1                                     | 2.5     | 84                                             | 8                                              | 1010(850)              | 150                     | 1700                   | 118(125)         | 118(125)        |
| FBG-0.5,FBP-0.5 | 0.5            | 3                | 7.0:1.8                                 | 8.4:2.1 | 115                                            | 2                                              | 670(575)               | 75·100                  | 900                    | 58(61)           | 58(61)          |
| FBG-1, FBP-1    | 1              | 3                | 6.3:1.6                                 | 7.5:1.9 | 94                                             | 3.5                                            | 705(600)               | 125                     | 1100                   | 78(80)           | 76(80)          |
| FBG-2, FBP-2    | 2              | 3                | 3.1:0.8                                 | 3.8:0.9 | 81                                             | 5.5                                            | 895(740)               | 100·125                 | 1200                   | 92(99)           | 92(99)          |
| FBG-3, FBP-3    | 3              | 4                | 2.1:0.5                                 | 2.5:0.6 | 84                                             | 8                                              | 1010(850)              | 150                     | 1700                   | 119(126)         | 119(126)        |

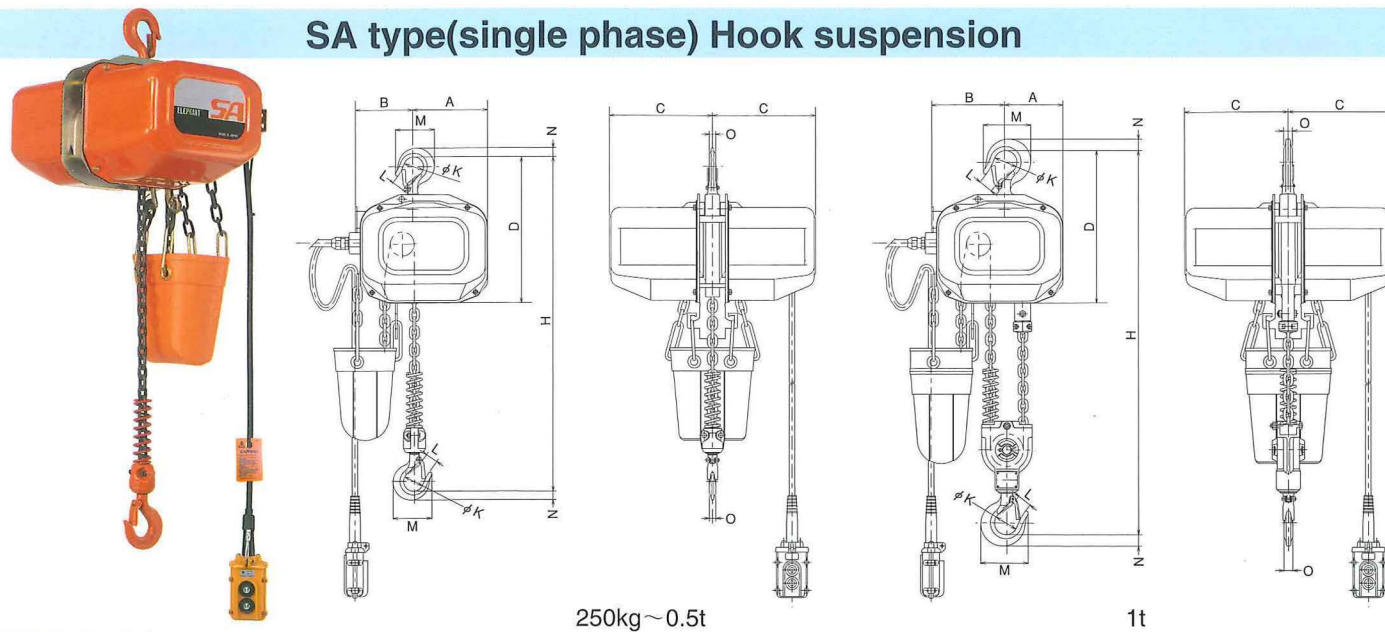
1)The number bracketed in "Net weight" indicates 6m lift. 2)The length of power cord in standard is 4 core-0.5m in case of 2 push button, 7 core-0.5m in case of 4 push button.  
3)When you need 4 push button for crane instead of 2 push button, "C" should be added to the end of model name.  
4)Minimum distance H is in case of that "Traversing I beam width" is minimum. 5)The number bracketed in "Minimum distance H(mm)" means direct connection.

### DIMENSIONS

| Capacity (ton) | A   | B   | C   | D     | Geard/Plain trolley |     |       | K     | L           | M  | N    | O     | φ P (diameter of wheel) |    |     |
|----------------|-----|-----|-----|-------|---------------------|-----|-------|-------|-------------|----|------|-------|-------------------------|----|-----|
|                |     |     |     |       | E                   | F   | G     |       |             |    |      |       |                         |    |     |
| 0.5t           | 161 | 124 | 224 | 431.5 | 219/76              | 126 | 100.4 | 190.4 | 102/94      | 43 | 26.5 | 84    | 19                      | 14 | 70  |
| 1t             | 170 | 128 | 239 | 464   | 219/76              | 126 | 116   | 221   | 120.5/106.5 | 50 | 31   | 103   | 25                      | 19 | 80  |
| 2t             | 133 | 165 | 239 | 538.5 | 237/94              | 143 | 136   | 259   | 159.5/135   | 65 | 38   | 135.5 | 35                      | 26 | 98  |
| 3t             | 148 | 208 | 239 | 597.5 | 236/96.5            | 144 | 150   | 288   | 164/150.5   | 60 | 43   | 165   | 49                      | 32 | 115 |

\*The specification and dimensions may be changed without prior notice for improvement.

## SA type(single phase) Hook suspension



250kg~0.5t

1t

### SPECIFICATION

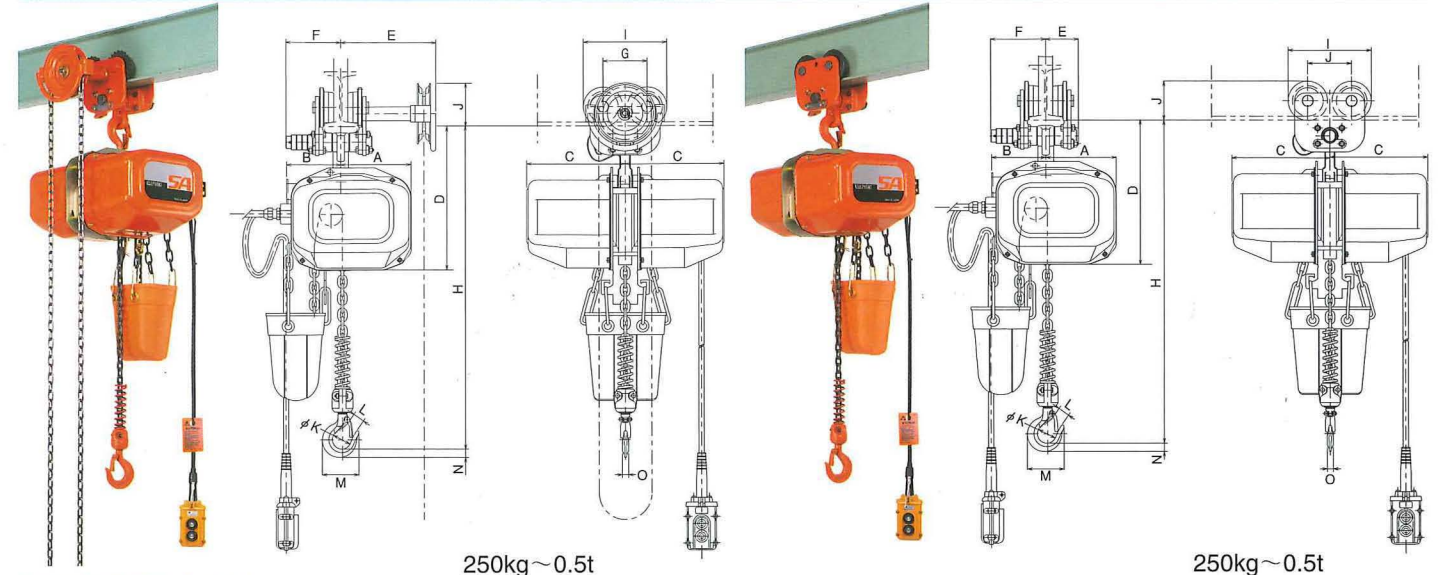
| Model No. | Capacity (ton) | Test load (ton) | Standard lift(m) | Standard push button cord length(m) | load chain dia x number of falls | Lifting motor output (kW) | Lifting speed(m/min) |      | Minimum distance H(mm) | Net weight |
|-----------|----------------|-----------------|------------------|-------------------------------------|----------------------------------|---------------------------|----------------------|------|------------------------|------------|
|           |                |                 |                  |                                     |                                  |                           | 50Hz                 | 60Hz |                        |            |
| SA-0.25   | 250kg          | 312.5kg         | 3                | 2.5                                 | 6.3×1                            | 0.45                      | 7.0                  | 8.4  | 555                    | 43(46)     |
| SA-0.5    | 0.5            | 0.625           | 3                | 2.5                                 | 6.3×1                            | 0.45                      | 3.5                  | 4.1  | 555                    | 43(46)     |
| SA-1      | 1              | 1.25            | 3                | 2.5                                 | 6.3×2                            | 0.45                      | 1.8                  | 2.1  | 670                    | 46(52)     |

1)The number bracketed in "Net weight" indicates 6m lift.  
2)The length of power cord is 4 core-5m(standard).

### DIMENSIONS

| Capacity(ton) | A   | B   | C   | D     | K  | L    | M   | N  | O  |
|---------------|-----|-----|-----|-------|----|------|-----|----|----|
| 250kg         | 161 | 124 | 224 | 311   | 43 | 26.5 | 84  | 19 | 14 |
| 0.5t          | 161 | 124 | 224 | 311   | 43 | 26.5 | 84  | 19 | 14 |
| 1t            | 127 | 158 | 224 | 329.5 | 50 | 31   | 103 | 25 | 19 |

## SAG, SAP type Electric chain block with geared/plain trolley



250kg~0.5t

250kg~0.5t

### SPECIFICATION

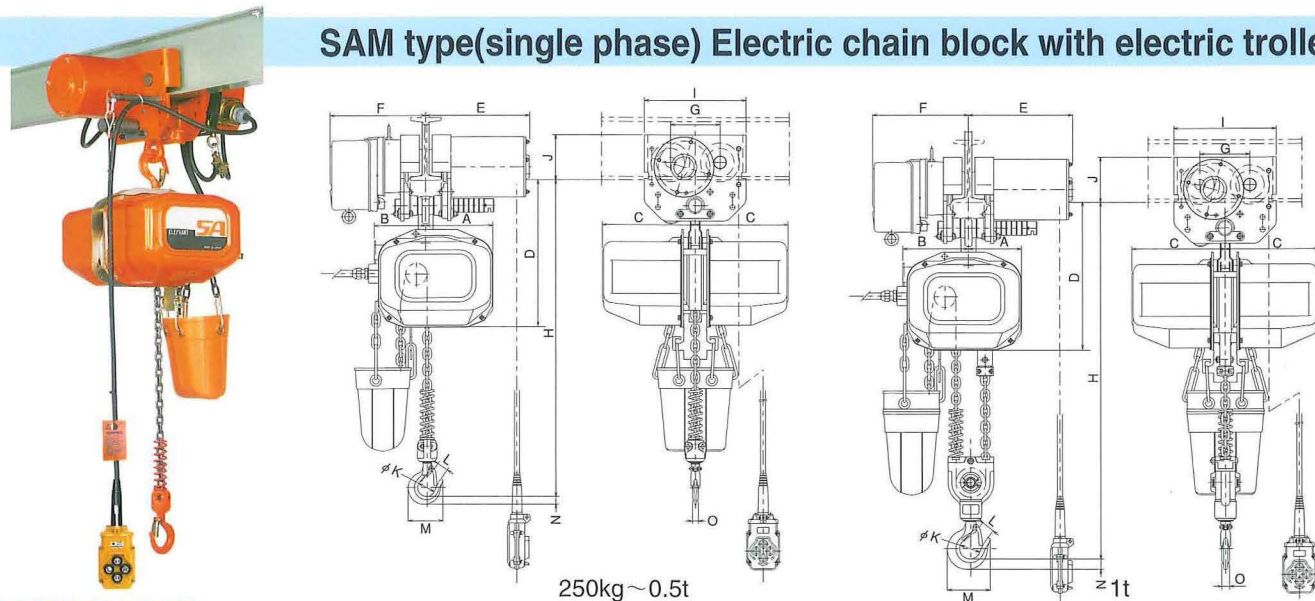
| Model No.         | Capacity (ton) | Standard lift(m) | Lifting speed(m/min) |      | Geared trolley                                         |                                 | Minimum distance H(mm) | Traversing I beam width | Trolley min radius(mm) | Net weight       |                 |
|-------------------|----------------|------------------|----------------------|------|--------------------------------------------------------|---------------------------------|------------------------|-------------------------|------------------------|------------------|-----------------|
|                   |                |                  | 50Hz                 | 60Hz | Trolley Traverse distance on pulling 1m hand chain(mm) | Hand chain effort [approx.](kg) |                        |                         |                        | w/Geared trolley | w/Plain trolley |
| SAG-0.25,SAP-0.25 | 0.25           | 3                | 7.0                  | 8.4  | 115                                                    | 1                               | 670(575)               | 75                      | 900                    | 57(60)           | 51(54)          |
| SAG-0.5, SAP-0.5  | 0.5            | 3                | 3.5                  | 4.1  | 115                                                    | 2                               | 670(575)               | 100                     | 900                    | 57(60)           | 51(54)          |
| SAG-1, SAP-1      | 1              | 3                | 1.8                  | 2.1  | 94                                                     | 3.5                             | 785(680)               | 125                     | 1100                   | 65(71)           | 59(65)          |

1)The number bracketed in "Net weight" indicates 6m lift. 2)The length of power cord in standard is 4 core-0.5m in case of 2 push button.  
3)Minimum distance H is in case of that "Traversing I beam width" is minimum. 4)The number bracketed in "Minimum distance H(mm)" means direct connection.

### DIMENSIONS

| Capacity (ton) | A   | B   | C   | D     | Geared/Plain trolley |     |       | Geared/Plain trolley |             |    | K    | L   | M  | N  | O  | φ P (diameter of wheel) |
|----------------|-----|-----|-----|-------|----------------------|-----|-------|----------------------|-------------|----|------|-----|----|----|----|-------------------------|
|                |     |     |     |       | E                    | F   | G     | I                    | J           |    |      |     |    |    |    |                         |
| 250kg          | 161 | 124 | 224 | 431.5 | 219/76               | 126 | 100.4 | 190.4                | 102/94      | 43 | 26.5 | 84  | 19 | 14 | 14 | 70                      |
| 0.5t           | 161 | 124 | 224 | 431.5 | 219/76               | 126 | 100.4 | 190.4                | 102/94      | 43 | 26.5 | 84  | 19 | 14 | 14 | 70                      |
| 1t             | 127 | 158 | 224 | 445   | 219/76               | 126 | 116   | 221                  | 120.5/106.5 | 50 | 31   | 103 | 25 | 19 | 19 | 80                      |

## SAM type(single phase) Electric chain block with electric trolley



250kg~0.5t

1t

### SPECIFICATION

| Model No. | Capacity (ton) | Test load (ton) | Standard lift(m) | Traversing motor output (kW) | Lifting speed(m/min) |      | Traversing speed(m/min) 50Hz/60Hz | Minimum distance H(mm) | Traversing I beam width | Trolley min radius (mm) | Net weight |
|-----------|----------------|-----------------|------------------|------------------------------|----------------------|------|-----------------------------------|------------------------|-------------------------|-------------------------|------------|
|           |                |                 |                  |                              | 50Hz                 | 60Hz |                                   |                        |                         |                         |            |
| SAM-0.25  | 250kg          | 312.5kg         | 3                | 0.3                          | 7.0                  | 8.4  | 10/12 (MTS type)                  | 695(600)               | 75                      | 1100                    | 74(77)     |
| SAM-0.5   | 0.5            | 0.625           | 3                |                              | 3.5                  | 4.1  |                                   | 695(600)               | 100                     | 1100                    | 74(77)     |
| SAM-1     | 1              | 1.25            | 3                |                              | 1.8                  | 2.1  |                                   | 810(705)               | 125                     | 1100                    | 77(83)     |

1)The number bracketed in "Net weight" indicates 6m lift.  
2)The length of power cord in standard is 4 core-0.5m in case of 4 push button.  
3)Short time duty for MTS is 15 minutes.  
4)Minimum distance H is in case of that "Traversing I beam width" is minimum.  
5)The number bracketed in "Minimum distance H(mm)" means direct connection.

### DIMENSIONS

| Capacity(ton) | A   | B   | C   | D     | E   | F     | G   | I   | J   | K  | L    | M   | N  | O  | φ P(diameter of wheel) |
|---------------|-----|-----|-----|-------|-----|-------|-----|-----|-----|----|------|-----|----|----|------------------------|
| 250kg         | 161 | 124 | 224 | 456.5 | 251 | 218.5 | 120 | 246 | 114 | 43 | 26.5 | 84  | 19 | 14 | 68                     |
| 0.5t          | 161 | 124 | 224 | 456.5 | 251 | 218.5 | 120 | 246 | 114 | 43 | 26.5 | 84  | 19 | 14 | 68                     |
| 1t            | 127 | 158 | 224 | 531   | 251 | 218.5 | 120 | 246 | 114 | 50 | 31   | 103 | 25 | 19 | 68                     |

※The specification and dimensions may be changed without prior notice for improvement.

## Emergency stop button

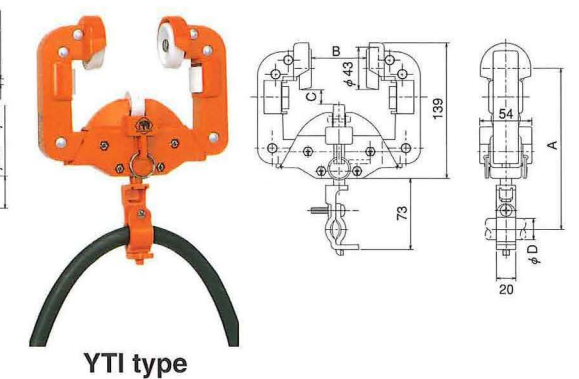
Option Available for all models



## Cable hanger



YTM type



YTI type

### DIMENSIONS

| Model   | I beam width | A   | B   | C  | D      |
|---------|--------------|-----|-----|----|--------|
| YTI-100 | 75           | 166 | 32  | 15 | φ10~22 |
|         | 100          | 166 | 57  | 15 | φ10~22 |
| YTI-150 | 125          | 166 | 82  | 25 | φ10~22 |
|         | 150          | 166 | 107 | 25 | φ10~22 |



**ELEPHANT CHAIN BLOCK CO.,LTD.**

180, Iwamuro 2-chome, Osaka-sayama city, Osaka, Japan  
E-mail : elp\_trade@elephant.co.jp  
URL http : //www.elephant.co.jp/english/index.html

※The specification and dimensions may be changed without prior notice for improvement.

2009.1.3000 (SY)