

# **Geared - Gearless Traction Machines & Elevator Components**

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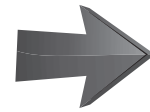
**INDIA**  
CATALOG 2020-1.0

- ◎ 34 years of experience of manufacturing world class traction machines
- ◎ Production capacity of over 1,30,000 traction machines
- ◎ Over 1,260,000 machines running worldwide
- ◎ Supply to over 60 countries worldwide

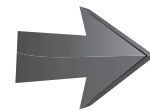


## HOW TO SELECT YOUR REQUIREMENTS

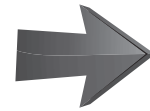
**Geared Machine**



**Gearless Machine**



**Escalator Machine**



**Elevator Components**



## DUTY TABLE - GEARED MACHINE MODELS

|                                      |        | SPEED |               |       |       |      |     |
|--------------------------------------|--------|-------|---------------|-------|-------|------|-----|
| C<br>A<br>P<br>A<br>C<br>I<br>T<br>Y | Person | M/S   | 0.5           | 1.0   | 1.5   | 1.75 | 2.0 |
|                                      |        | KG    |               |       |       |      |     |
|                                      | 5      | 320   | IGD00         |       |       |      |     |
|                                      | 6      | 408   | IGD05         |       |       |      |     |
|                                      | 8      | 544   | IGD10         |       |       |      |     |
|                                      | 10     | 680   | IGD15 / IGD21 |       |       |      |     |
|                                      | 13     | 884   |               |       | IGD21 |      |     |
|                                      | 15     | 1020  |               |       |       |      |     |
|                                      | 17     | 1156  |               |       |       |      |     |
|                                      | 18     | 1224  |               |       | IGD39 |      |     |
|                                      | 20     | 1360  |               |       |       |      |     |
|                                      | 23     | 1600  |               |       |       |      |     |
| 37                                   | 2500   |       |               | IGD50 |       |      |     |
| 81                                   | 5500   | IGD60 |               |       |       |      |     |

Data are subject to change without prior notice.

## GEARED MACHINE STANDARD

1. Geared machine Part Number illustration

Example:

|              |   |                     |   |                 |   |             |
|--------------|---|---------------------|---|-----------------|---|-------------|
| <u>IGD10</u> | - | <u>5</u>            | - | <u>1P0</u>      | - | <u>13mm</u> |
| Type#        |   | Capacity<br>(544kg) |   | Speed<br>(1M/S) |   | Rope Dia    |

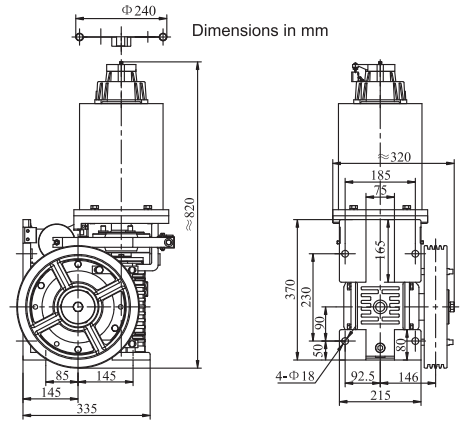
2. All geared machines are designed for 180 starts per hour at **40% duty cycle and 1:1 roping**
3. All motors are designed with **Insulation class F** and with Ingress Protection Rating of **IP21**. **IGD21 to IGD50** machines can also be ordered with **IP55** motor by contacting Standard Elevators sales representative.
4. All machines are designed with **counter weight ratio of between 45% to 50%**.
5. Standard geared machines are all **Right Hand** machines. Left hand arrangement is available as an option at extra cost except for IGD50 & IGD60 machines.
6. Standard machines are all **VVVF control machines**. AC2 machines with 50HZ power source need to be special ordered by contacting Standard Elevators sales representative.
7. All machine grooves are U shape groove. Only use **metric rope size** grooves.
8. Standard machines come with both **380V and 220V**
9. All machines come with Test Certificate and a copy of **operation manual** attached to the machine.



# IGD00

## Geared Traction Machine

Maximum Full Load Mass: 1800 KG  
 Brake Coils: Pick/Hold Voltage : 110/67 VDC  
 Pick/Hold Current : 1.4/0.85 A  
 Estimated Weight : 155 KG



| Part Number       | Capacity (KG) | Speed (M/S) | Motor (KW) | Pole | Gear Ratio | Power Source (VAC) | Current (A) | Motor Speed (RPM) | Sheave Spec (mm) |       |   |       |
|-------------------|---------------|-------------|------------|------|------------|--------------------|-------------|-------------------|------------------|-------|---|-------|
|                   |               |             |            |      |            |                    |             |                   | Dia              | Rope# | ø | Pitch |
| IGD00-31P0 - 8 mm | 320           | 1.00        | 3.5        | 4    | 45:2       | 380                | 7.5         | 1440              | 320              | 4     | 8 | 12    |

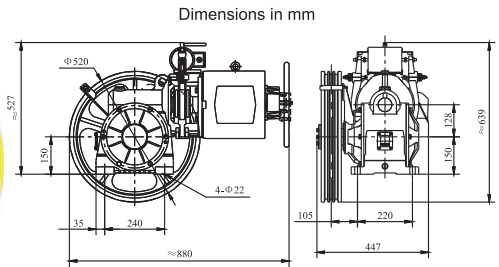
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Geared

# IGD05

## Geared Traction Machine

Maximum Full Load Mass: 2,000 KG  
 Brake Coils: Pick/Hold Voltage : 110/67 VDC  
 Pick/Hold Current : 1.0/0.61 A  
 Estimated Weight : 200 KG



| Part Number      | Capacity (KG) | Speed (M/S) | Motor (KW) | Pole | Gear Ratio | Power Source (VAC) | Current (A) | Motor Speed (RPM) | Sheave Spec (mm) |       |    |       |
|------------------|---------------|-------------|------------|------|------------|--------------------|-------------|-------------------|------------------|-------|----|-------|
|                  |               |             |            |      |            |                    |             |                   | Dia              | Rope# | ø  | Pitch |
| IGD05-41P0-13 mm | 408           | 1.00        | 4          | 4    | 37:1       | 380                | 8.5         | 1360              | 520              | 3     | 13 | 20    |

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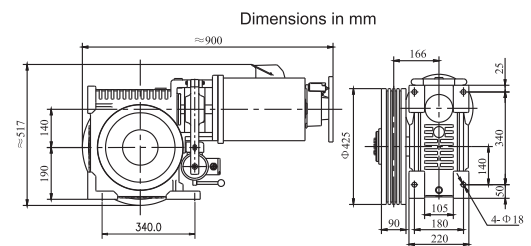
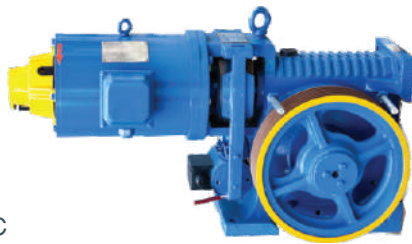
# IGD10

## Geared Traction Machine

Maximum Full Load Mass: 2,800 KG  
 Brake Coils: Pick/Hold Voltage : 110/67 VDC  
 Pick/Hold Current : 1.0/0.61 A  
 Estimated Weight : 285 KG

Features: Can be installed both horizontally and vertically

Contact SES for availability of machine with MRL option and remote manual brake release (Ø 340 mm sheave)



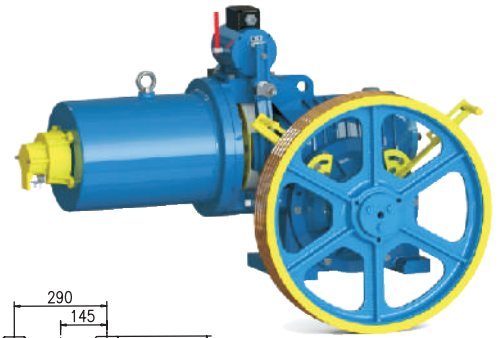
| Part Number        | Capacity (KG) | Speed (M/S) | Motor (KW) | Pole | Gear Ratio | Power Source (VAC) | Current (A) | Motor Speed (RPM) | Sheave Spec (mm) |       |    |       |
|--------------------|---------------|-------------|------------|------|------------|--------------------|-------------|-------------------|------------------|-------|----|-------|
|                    |               |             |            |      |            |                    |             |                   | Dia              | Rope# | ø  | Pitch |
| IGD10-51P0 - 10 mm | 544           | 1.00        | 5.5        | 4    | 32:1       | 380                | 11.2        | 1440              | 425              | 5     | 10 | 15    |
| IGD10-51P0 - 13 mm | 544           | 1.00        | 5.5        | 4    | 41:1       | 380                | 11.2        | 1440              | 520              | 3     | 13 | 20    |
| IGD10-51P5 - 10 mm | 544           | 1.50        | 7.5        | 4    | 41:2       | 380                | 15.2        | 1440              | 425              | 4     | 10 | 16    |

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# IGD15

## Geared Traction Machine



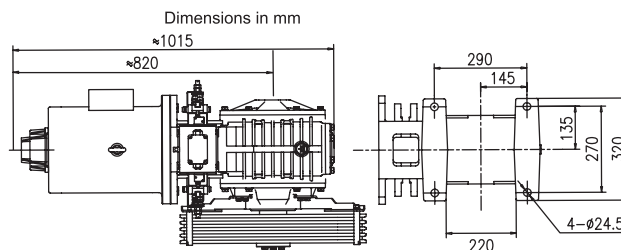
Maximum Full Load Mass: 3,500 KG

Brake Coils:

Pick/Hold Voltage : 110/67 VDC

Pick/Hold Current : 1.5/0.92 A

Estimated Weight : 310 KG

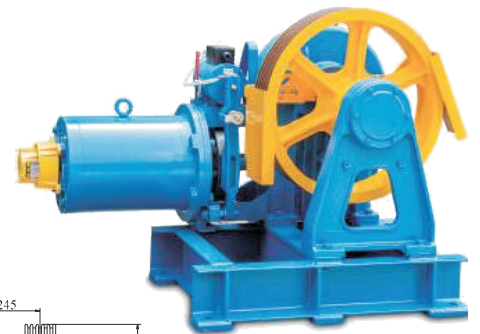


| Part Number      | Capacity (KG) | Speed (M/S) | Motor (KW) | Pole | Gear Ratio | Power Source (VAC) | Current (A) | Motor Speed (RPM) | Sheave Spec (mm) |       |    |       |
|------------------|---------------|-------------|------------|------|------------|--------------------|-------------|-------------------|------------------|-------|----|-------|
|                  |               |             |            |      |            |                    |             |                   | Dia              | Rope# | ø  | Pitch |
| IGD15-61P0-10 mm | 680           | 1.00        | 8.5        | 4    | 37:1       | 380                | 17          | 1465              | 480              | 5     | 10 | 16    |
| IGD15-61P0-13 mm | 680           | 1.00        | 7.5        | 4    | 37:1       | 380                | 15          | 1360              | 520              | 4     | 13 | 20    |
| IGD15-61P5-10 mm | 680           | 1.50        | 10.0       | 4    | 45:2       | 380                | 19          | 1360              | 480              | 5     | 10 | 16    |
| IGD15-61P5-13 mm | 680           | 1.50        | 11.0       | 4    | 45:2       | 380                | 21.5        | 1320              | 520              | 4     | 13 | 20    |

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# IGD21

## Geared Traction Machine

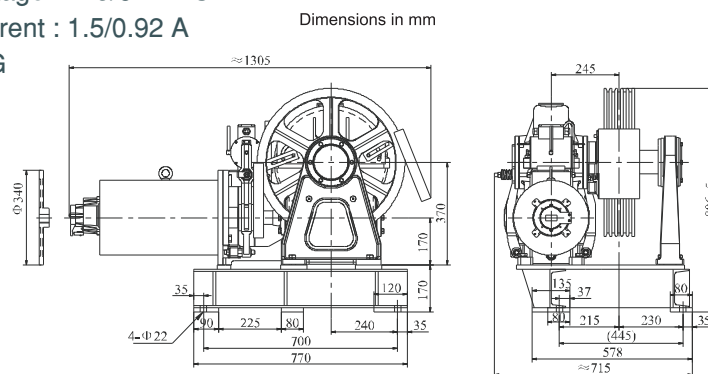


Maximum Full Load Mass: 6,000 KG

Brake Coils: Pick/Hold Voltage : 110/67 VDC

Pick/Hold Current : 1.5/0.92 A

Estimated Weight : 580 KG



| Part Number       | Capacity (KG) | Speed (M/S) | Motor (KW) | Pole | Gear Ratio | Power Source (VAC) | Current (A) | Motor Speed (RPM) | Sheave Spec (mm) |       |    |       |
|-------------------|---------------|-------------|------------|------|------------|--------------------|-------------|-------------------|------------------|-------|----|-------|
|                   |               |             |            |      |            |                    |             |                   | Dia              | Rope# | ø  | Pitch |
| IGD21-61P0-13 mm  | 680           | 1.00        | 5.5        | 4    | 75:2       | 380                | 11.5        | 1360              | 530              | 4     | 13 | 20    |
| IGD21-61P7-13 mm  | 680           | 1.75        | 8.5        | 4    | 47:2       | 380                | 17          | 1465              | 530              | 4     | 13 | 20    |
| IGD21-62P0-13 mm  | 680           | 2.00        | 11         | 4    | 61:3       | 380                | 21.5        | 1465              | 530              | 4     | 13 | 20    |
| IGD21-80P5-13 mm  | 884           | 0.50        | 5.5        | 6    | 53:1       | 380                | 12          | 960               | 530              | 5     | 13 | 20    |
| IGD21-81P0-13 mm  | 884           | 1.00        | 8.5        | 4    | 75:2       | 380                | 17          | 1360              | 530              | 5     | 13 | 20    |
| IGD21-81P7-13 mm  | 884           | 1.75        | 11         | 4    | 47:2       | 380                | 21.5        | 1465              | 530              | 5     | 13 | 20    |
| IGD21-82P0-13 mm  | 884           | 2.00        | 11         | 4    | 61:3       | 380                | 21.5        | 1465              | 530              | 5     | 13 | 20    |
| IGD21-100P5-13 mm | 1020          | 0.50        | 5.5        | 6    | 53:1       | 380                | 12          | 960               | 530              | 5     | 13 | 20    |
| IGD21-101P0-13 mm | 1020          | 1.00        | 8.5        | 4    | 75:2       | 380                | 17          | 1360              | 530              | 5     | 13 | 20    |
| IGD21-101P7-13 mm | 1020          | 1.75        | 15         | 4    | 47:2       | 380                | 29          | 1465              | 530              | 5     | 13 | 20    |
| IGD21-102P0-13 mm | 1020          | 2.00        | 15         | 4    | 61:3       | 380                | 29          | 1465              | 530              | 6     | 13 | 20    |

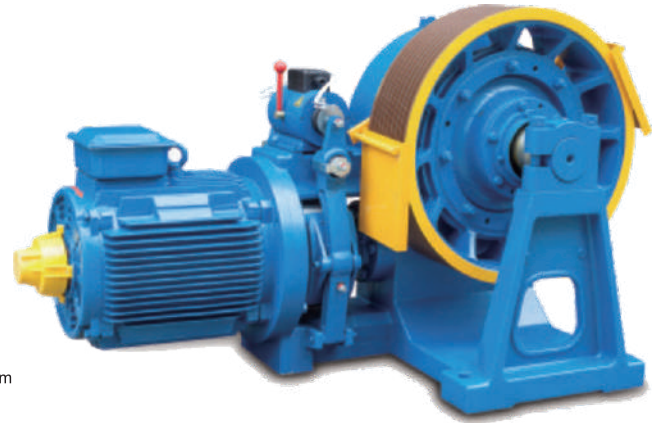
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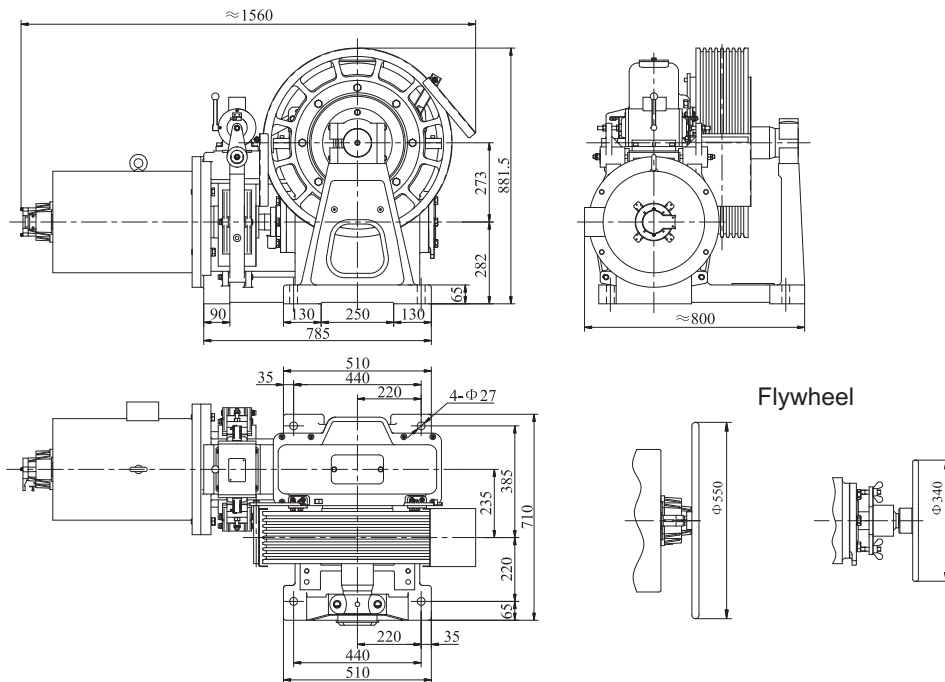
# IGD39

## Geared Traction Machine

Maximum Full Load Mass: 9,000 KG  
 Brake Coils: Pick/Hold Voltage : 110/67 VDC  
 Pick/Hold Current : 2.0/1.22 A  
 Estimated Weight : 910 KG



Dimensions in mm



Flywheel

| Part Number       | Capacity (KG) | Speed (M/S) | Motor (KW) | Pole | Gear Ratio | Power Source (VAC) | Current (A) | Motor Speed (RPM) | Sheave Spec (mm) |       |       |    |
|-------------------|---------------|-------------|------------|------|------------|--------------------|-------------|-------------------|------------------|-------|-------|----|
|                   |               |             |            |      |            |                    |             |                   | Dia              | Rope# | Pitch |    |
| IGD39-110P5-13 mm | 1156          | 0.50        | 7.5        | 6    | 59:1       | 380                | 17          | 900               | 650              | 6     | 13    | 20 |
| IGD39-111P0-13 mm | 1156          | 1.00        | 11         | 6    | 59:2       | 380                | 25          | 900               | 650              | 6     | 13    | 20 |
| IGD39-111P7-13 mm | 1156          | 1.75        | 18.5       | 4    | 57:2       | 380                | 35          | 1440              | 650              | 8     | 13    | 20 |
| IGD39-112P0-13 mm | 1156          | 2.00        | 22         | 4    | 49:2       | 380                | 41          | 1440              | 650              | 8     | 13    | 20 |
| IGD39-120P5-13 mm | 1224          | 0.50        | 7.5        | 6    | 59:1       | 380                | 17          | 900               | 650              | 6     | 13    | 20 |
| IGD39-121P0-13 mm | 1224          | 1.00        | 15         | 6    | 59:2       | 380                | 32          | 900               | 650              | 6     | 13    | 20 |
| IGD39-121P7-13 mm | 1224          | 1.75        | 22         | 4    | 57:2       | 380                | 41          | 1440              | 650              | 8     | 13    | 20 |
| IGD39-122P0-13 mm | 1224          | 2.00        | 26         | 4    | 49:2       | 380                | 48.5        | 1440              | 650              | 8     | 13    | 20 |
| IGD39-130P5-13 mm | 1360          | 0.50        | 7.5        | 6    | 59:1       | 380                | 17          | 900               | 650              | 6     | 13    | 20 |
| IGD39-131P0-13 mm | 1360          | 1.00        | 15         | 6    | 59:2       | 380                | 32          | 900               | 650              | 6     | 13    | 20 |
| IGD39-131P7-13 mm | 1360          | 1.75        | 22         | 4    | 57:2       | 380                | 41          | 1440              | 650              | 8     | 13    | 20 |
| IGD39-132P0-13 mm | 1360          | 2.00        | 26         | 4    | 49:2       | 380                | 48.5        | 1440              | 650              | 8     | 13    | 20 |
| IGD39-160P5-13 mm | 1600          | 0.50        | 11         | 6    | 59:1       | 380                | 25          | 900               | 650              | 8     | 13    | 20 |
| IGD39-161P0-13 mm | 1600          | 1.00        | 18.5       | 6    | 59:2       | 380                | 39          | 900               | 650              | 8     | 13    | 20 |
| IGD39-161P7-13 mm | 1600          | 1.75        | 26         | 4    | 57:2       | 380                | 48.5        | 1440              | 650              | 8     | 13    | 20 |
| IGD39-162P0-13 mm | 1600          | 2.00        | 30         | 4    | 49:2       | 380                | 55.5        | 1440              | 650              | 8     | 13    | 20 |

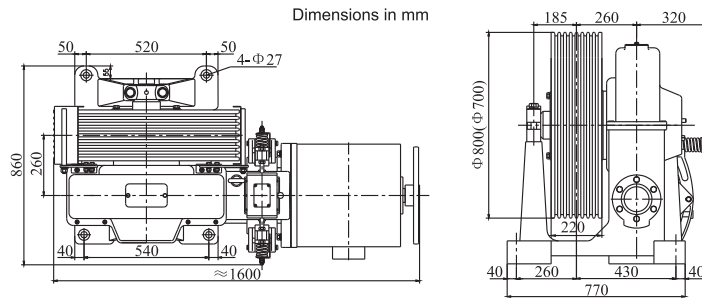
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# IGD50

## Geared Traction Machine

Maximum Full Load Mass : 12,500 KG  
 Brake Coils : Pick/Hold Voltage : 110/67 VDC  
 Pick/Hold Current : 2.2/1.33 A  
 Estimated Weight : 1,450 KG



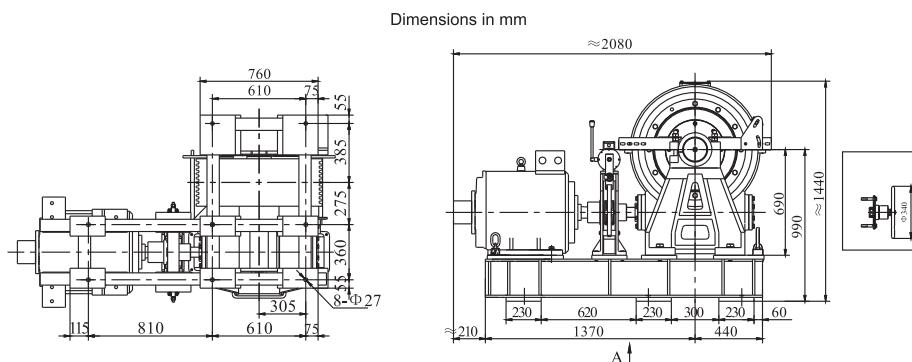
| Part Number      | Capacity (KG) | Speed (M/S) | Motor (KW) | Pole | Gear Ratio | Power Source (VAC) | Current (A) | Motor Speed (RPM) | Sheave Spec (mm) |       |    |       |
|------------------|---------------|-------------|------------|------|------------|--------------------|-------------|-------------------|------------------|-------|----|-------|
|                  |               |             |            |      |            |                    |             |                   | Dia              | Rope# | ø  | Pitch |
| IGD50-250P5-16mm | 2500          | 0.50        | 15         | 6    | 69:1       | 380                | 31.4        | 942               | 700              | 8     | 16 | 25    |
| IGD50-251P0-16mm | 2500          | 1.00        | 26         | 4    | 61:1       | 380                | 49.0        | 1457              | 800              | 8     | 16 | 25    |
| IGD50-251P5-16mm | 2500          | 1.50        | 37         | 4    | 69:2       | 380                | 69.0        | 1413              | 700              | 8     | 16 | 25    |
| IGD50-251P7-16mm | 2500          | 1.75        | 45         | 4    | 69:2       | 380                | 84.0        | 1442              | 800              | 8     | 16 | 25    |
| IGD50-252P0-16mm | 2500          | 2.00        | 45         | 4    | 61:2       | 380                | 84.0        | 1457              | 800              | 8     | 16 | 25    |

Do not use brake hold junction in the control box when motor  $\geq 37$ KW.  
 Data are subject to change without prior notice.

# IGD60

## Geared Traction Machine

Maximum Full Load Mass : 25,000 KG  
 Brake Coils : Pick/Hold Voltage : 110/67 VDC  
 Pick/Hold Current : 3.5/2.13 A  
 Estimated Weight : 2800 KG



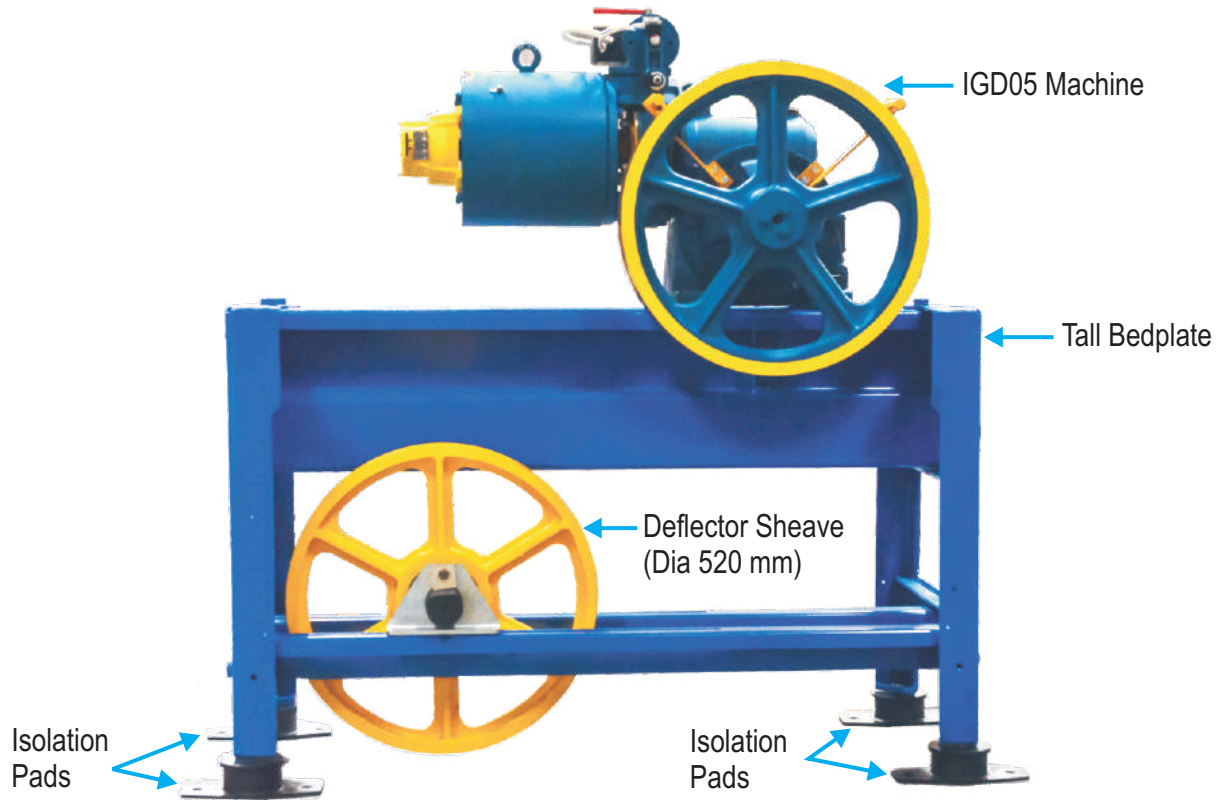
| Part Number       | Capacity (KG) | Speed (M/S) | Motor (KW) | Pole | Gear Ratio | Power Source (VAC) | Current (A) | Motor Speed (RPM) | Sheave Spec (mm) |       |    |       |
|-------------------|---------------|-------------|------------|------|------------|--------------------|-------------|-------------------|------------------|-------|----|-------|
|                   |               |             |            |      |            |                    |             |                   | Dia              | Rope# | ø  | Pitch |
| IGD60-551P0-19 mm | 5500          | 1.00        | 55.0       | 8    | 75:2       | 380                | 105         | 886               | 820              | 10    | 19 | 29    |

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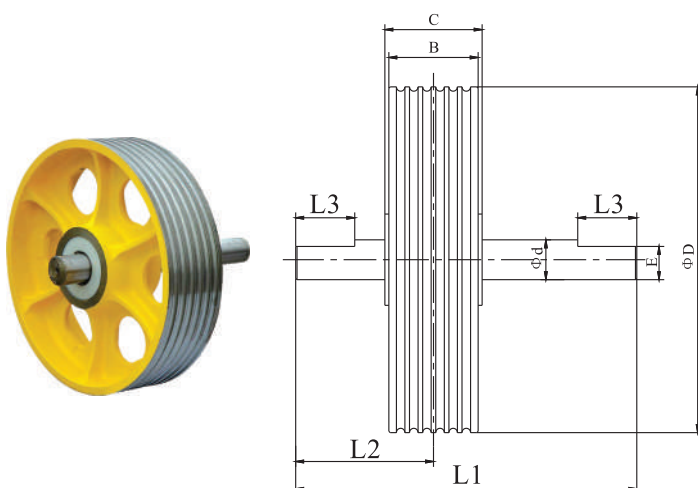
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## Machine Room Solution for Geared Machine



- 1** Need To Order **Deflector Sheave?**  
Please Specify L1, L2 And L3 When Ordering.



| Model     | D (mm) | d (mm) | B (mm) | C (mm) | E (mm) |
|-----------|--------|--------|--------|--------|--------|
| DSV-IGD00 | 340    | 60     | 78     | 84     | 50     |
| DSV-IGD05 | 520    | 60     | 100    | 100    | 50     |
| DSV-IGD10 | 400    | 60     | 78     | 84     | 50     |
| DSV-IGD15 | 520    | 60     | 100    | 100    | 50     |
| DSV-IGD21 | 520    | 60     | 100    | 100    | 50     |
| DSV-IGD39 | 520    | 60     | 200    | 200    | 80     |
| DSV-IGD50 | 640    | 90     | 200    | 200    | 80     |
| DSV-IGD60 | 762    | 120    | 200    | 305    | 120    |

- 2** Need **Remote Manual Brake Release?**  
(Only Available for IGD00 & IGD10)



## MACHINE BED PLATES

IGD05 SMALL BED PLATE



IGD10 SMALL BED PLATE



IGD05/10 TALL BED PLATE (With Deflector Sheave mounting arrangement)



Customised bedplates also available as per customer's drawing

## ISOLATION PAD

RBISN-A

Load Capacity : Upto 6000 kg



RBISN-B

Load Capacity : Upto 3000 kg



RBISN-C

Load Capacity : Upto 1000 Kg



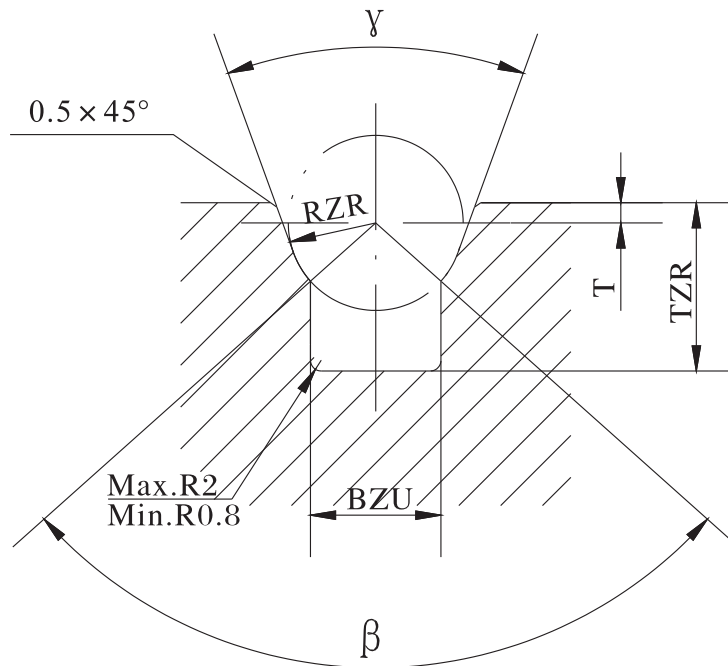
RBISN-D

Load Capacity : Upto 3000 Kg



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## GEARED MACHINE GROOVE PROFILE (Single Wrap)



| Rope (mm) | $\beta$ | $\gamma$ | BZU (mm) | RZR (mm) | TZR (mm) | T (mm) |
|-----------|---------|----------|----------|----------|----------|--------|
| 10        | 95      | 30       | 7.37     | 5        | 12.5     | 1.5    |
| 11        | 95      | 30       | 8.11     | 5.5      | 12.5     | 1.5    |
| 12        | 95      | 30       | 8.85     | 6        | 12.5     | 1.5    |
| 13        | 96.5    | 30       | 9.70     | 6.5      | 12.5     | 1.5    |
| 14        | 95      | 30       | 10.32    | 7        | 15       | 1.5    |
| 16        | 96.5    | 30       | 11.93    | 8        | 15       | 1.5    |

Data are subject to change without prior notice.

Elevator manufacturer should calculate according to the elevator traction condition and the safety factor of rope.

## GEARLESS MACHINE STANDARD

### 1. Torin Drive gearless machine Part Number illustration

Example:

|              |   |                     |  |                 |   |            |
|--------------|---|---------------------|--|-----------------|---|------------|
| <u>RGL00</u> | - | <u>4</u>            |  | <u>1P0</u>      | - | <u>8mm</u> |
| Model#       |   | Capacity<br>(408kg) |  | Speed<br>(1M/S) |   | Rope Dia   |

2. All gearless machines are **CE compliant and certified**.
3. All motors are designed with **Insulation class F** and with Ingress Protection Rating of **IP41**.
4. All gearless machines, except for IGL60 model, are designed for **180 starts per hour at 40% duty cycle and 2:1 roping**. IGL60 model is designed for 180 starts per hour at 60% duty cycle and **1:1 roping**. (For 1:1 roping applications with gearless machines, please consult SES sales representative.)
5. All machines are designed with counter weight ratio of between **45% to 50%**.
6. All machines are preinstalled with encoders (Heidenhain ERN1387 or equivalent).
7. Remote brake release (with 4 meter Long cable) is an option only for the following machines IGL15, IGL21, IGL25, IGL29, IGL30, RGL00, RGL15, RGL21, RGL25 & HGL10
8. Only IGL machines come with Hand Wheel for manually maneuvering the car.
9. RGL & HGL machines **do not come** with Hand wheel option.
10. All machine grooves are U shape groove. Only use **metric rope size** grooves.
11. Standard gearless machines are at **380V**. 220V machine is available for certain machines as an option.  
\* Exception: For Home Lift HGL models, both 380V and 220V are standard.
12. All machines come with Test Certificate and a copy of **operation manual** attached to the machine.

# DUTY TABLE - GEARLESS MACHINE MODELS

## 1. For Regular Applications:

|          |          | SPEED |               |       |   |     |                |       |       |   |   |       |   |   |  |  |
|----------|----------|-------|---------------|-------|---|-----|----------------|-------|-------|---|---|-------|---|---|--|--|
| CAPACITY | Person   | KG    | M/S           | 0.5   | 1 | 1.5 | 1.75           | 2     | 2.5   | 3 | 4 | 5     | 6 | 7 |  |  |
|          | CAPACITY | 6     | 408           | IGL15 |   |     |                |       | IGL29 |   |   |       |   |   |  |  |
| 8        |          | 544   |               |       |   |     |                |       |       |   |   |       |   |   |  |  |
| 10       |          | 680   | IGL21         |       |   |     |                |       |       |   |   |       |   |   |  |  |
| 13       |          | 884   |               |       |   |     |                |       |       |   |   |       |   |   |  |  |
| 15       |          | 1020  | IGL21 / IGL29 |       |   |     |                |       |       |   |   |       |   |   |  |  |
| 17       |          | 1156  |               |       |   |     |                |       |       |   |   |       |   |   |  |  |
| 18       |          | 1224  | IGL29         |       |   |     |                |       |       |   |   |       |   |   |  |  |
| 20       |          | 1360  | IGL30         |       |   |     | IGL30<br>IGL54 | IGL54 |       |   |   |       |   |   |  |  |
| 23       |          | 1600  | IGL25 / IGL30 |       |   |     |                |       |       |   |   |       |   |   |  |  |
| 30       |          | 2000  | IGL25         |       |   |     |                |       |       |   |   | IGL60 |   |   |  |  |
| 34       |          | 2250  | IGL35         |       |   |     |                |       |       |   |   |       |   |   |  |  |

Gearless

## 2. For Restricted Overhead Space Applications:

(More compact but more costly than regular application machines)

|          |          | SPEED |                            |                 |   |     |      |   |
|----------|----------|-------|----------------------------|-----------------|---|-----|------|---|
| CAPACITY | Person   | KG    | M/S                        | 0.5             | 1 | 1.5 | 1.75 | 2 |
|          | CAPACITY | 6     | 408                        | RGL00- IN (8mm) |   |     |      |   |
| 8        |          | 544   |                            |                 |   |     |      |   |
| 10       |          | 680   | RGL15 (8mm)                |                 |   |     |      |   |
| 13       |          | 884   | RGL21 (8mm)                |                 |   |     |      |   |
| 15       |          | 1020  | RGL25 (8mm)                |                 |   |     |      |   |
| 17       |          | 1156  | RGL30 (8mm)                |                 |   |     |      |   |
| 18       |          | 1224  | RGL30 (8mm) / RGL40 (10mm) |                 |   |     |      |   |
| 20       |          | 1360  | RGL40 (10mm)               |                 |   |     |      |   |
| 23       |          | 1600  |                            |                 |   |     |      |   |
| 30       |          | 2000  |                            |                 |   |     |      |   |
| 37       |          | 2500  |                            |                 |   |     |      |   |

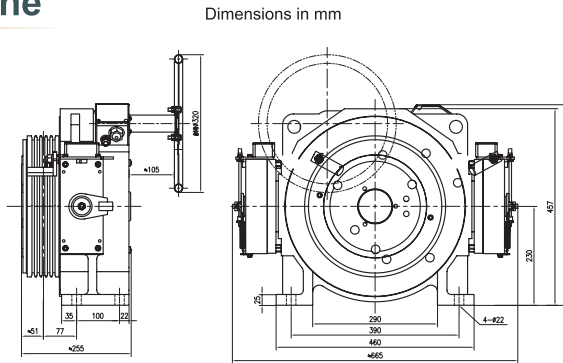
## 3. For Home Lift Applications:

HGL10 (0.4M/S, Up to 450KG in Capacity)

# IGL15

## Gearless Traction Machine

Maximum Full Load Mass: 2,000 KG  
 Brake Coils: 110VDC/2x1.1A  
 Estimated Weight : 200 KG  
 Feature : Ideal for MRL application,  
 Remote manual brake  
 release available



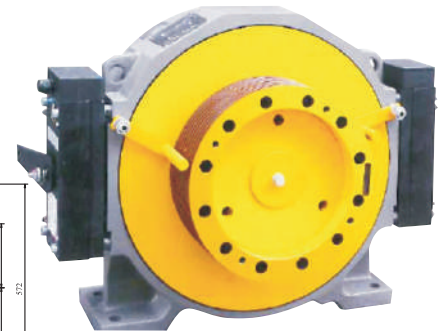
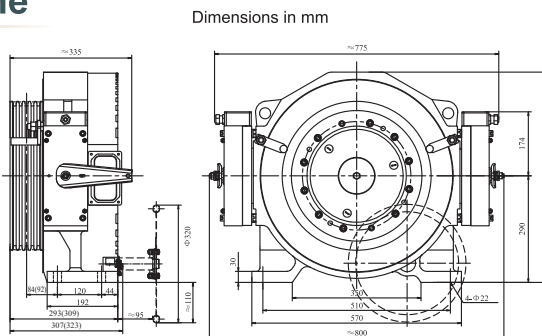
| Part Number    | Capacity (KG) | Speed (M/S) | Motor (KW) | Pole | Power Source (VAC) | Current (A) | Rated Torque (NM) | Frequency (Hz) | Motor Speed (RPM) | Sheave Spec (mm) |       |   |       |
|----------------|---------------|-------------|------------|------|--------------------|-------------|-------------------|----------------|-------------------|------------------|-------|---|-------|
|                |               |             |            |      |                    |             |                   |                |                   | Dia              | Rope# | ø | Pitch |
| IGL15-51P0-8mm | 544           | 1.00        | 3.6        | 32   | 380                | 8.1         | 290               | 31.5           | 118               | 325              | 5     | 8 | 12    |
| IGL15-51P5-8mm | 544           | 1.50        | 5.4        | 32   | 380                | 12.2        | 290               | 47.2           | 177               | 325              | 5     | 8 | 12    |
| IGL15-51P7-8mm | 544           | 1.75        | 6.3        | 32   | 380                | 13.2        | 290               | 54.9           | 206               | 325              | 5     | 8 | 12    |

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# IGL21

## Gearless Traction Machine

Maximum Full Load Mass: 3,000 KG  
 Brake Coils: 110VDC/2x0.88A  
 Estimated Weight: 350 KG  
 Feature: Ideal for MRL application,  
 Remote manual brake release available



Dimensions shown in Bracket is for Ø 340 mm traction sheave.

| Part Number      | Capacity (KG) | Speed (M/S) | Motor (KW) | Pole | Power Source (VAC) | Current (A) | Rated Torque (NM) | Frequency (Hz) | Motor Speed (RPM) | Sheave Spec (mm) |       |    |       |
|------------------|---------------|-------------|------------|------|--------------------|-------------|-------------------|----------------|-------------------|------------------|-------|----|-------|
|                  |               |             |            |      |                    |             |                   |                |                   | Dia              | Rope# | ø  | Pitch |
| IGL21-61P0-10mm  | 680           | 1.00        | 4.2        | 32   | 380                | 9.7         | 420               | 25.6           | 96                | 400              | 4     | 10 | 16    |
| IGL21-61P5-10mm  | 680           | 1.50        | 6.3        | 32   | 380                | 14.9        | 420               | 38.4           | 144               | 400              | 4     | 10 | 16    |
| IGL21-61P7-10mm  | 680           | 1.75        | 7.3        | 32   | 380                | 15.9        | 420               | 44.5           | 167               | 400              | 4     | 10 | 16    |
| IGL21-62P0-10mm  | 680           | 2.00        | 8.4        | 32   | 380                | 18.3        | 420               | 51.2           | 192               | 400              | 4     | 10 | 16    |
| IGL21-81P0-10mm  | 884           | 1.00        | 5.3        | 32   | 380                | 12.1        | 530               | 25.6           | 96                | 400              | 5     | 10 | 16    |
| IGL21-81P5-10mm  | 884           | 1.50        | 8.0        | 32   | 380                | 18.8        | 530               | 38.4           | 144               | 400              | 5     | 10 | 16    |
| IGL21-81P7-10mm  | 884           | 1.75        | 9.3        | 32   | 380                | 20.7        | 530               | 44.5           | 167               | 400              | 5     | 10 | 16    |
| IGL21-82P0-10mm  | 884           | 2.00        | 10.7       | 32   | 380                | 23.2        | 530               | 51.2           | 192               | 400              | 5     | 10 | 16    |
| IGL21-101P0-10mm | 1020          | 1.00        | 6.5        | 32   | 380                | 14.6        | 650               | 25.6           | 96                | 400              | 5     | 10 | 16    |
| IGL21-101P5-10mm | 1020          | 1.50        | 9.8        | 32   | 380                | 22.9        | 650               | 38.4           | 144               | 400              | 5     | 10 | 16    |
| IGL21-101P7-10mm | 1020          | 1.75        | 11.4       | 32   | 380                | 24.8        | 650               | 44.5           | 167               | 400              | 5     | 10 | 16    |
| IGL21-102P0-10mm | 1020          | 2.00        | 13.1       | 32   | 380                | 27.7        | 650               | 51.2           | 192               | 400              | 5     | 10 | 16    |
| IGL21-111P0-8mm  | 1156          | 1.00        | 7.6        | 32   | 380                | 17.1        | 650               | 29.9           | 112               | 340              | 8     | 8  | 12    |
| IGL21-111P5-8mm  | 1156          | 1.50        | 11.4       | 32   | 380                | 26.2        | 650               | 44.8           | 168               | 340              | 8     | 8  | 12    |
| IGL21-111P7-8mm  | 1156          | 1.75        | 13.5       | 32   | 380                | 28.9        | 650               | 52.8           | 198               | 340              | 8     | 8  | 12    |
| IGL21-112P0-8mm  | 1156          | 2.00        | 15.3       | 32   | 380                | 33.0        | 650               | 60.0           | 225               | 340              | 8     | 8  | 12    |

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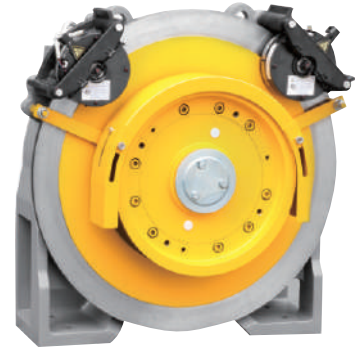
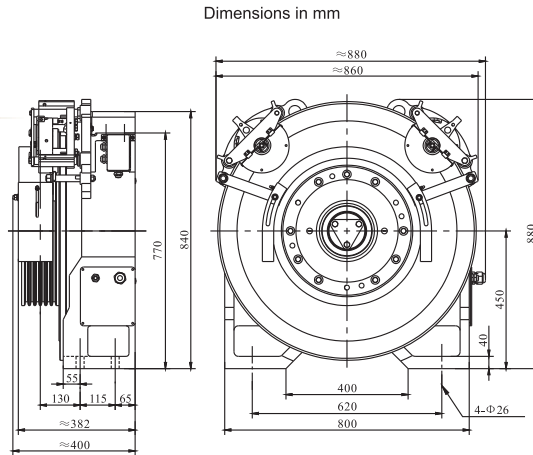
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# IGL25

## Gearless Traction Machine

Maximum Full Load Mass : 6,000 KG  
 Brake Coils : 110VDC/2x1.1A  
 Estimated Weight : 820 KG



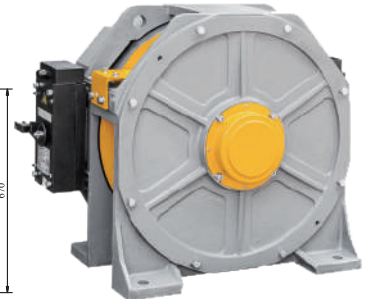
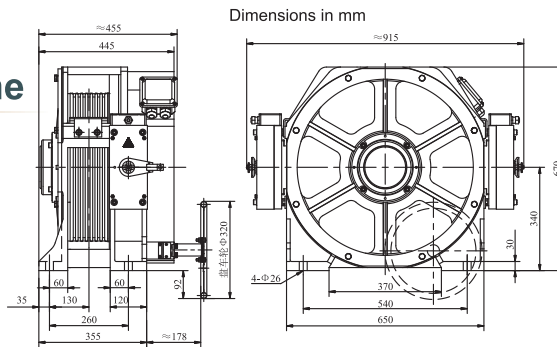
| Part Number      | Capacity (KG) | Speed (M/S) | Motor (KW) | Pole | Power Source (VAC) | Current (A) | Rated Torque (NM) | Frequency (Hz) | Motor Speed (RPM) | Sheave Spec (mm) |       |    |       |
|------------------|---------------|-------------|------------|------|--------------------|-------------|-------------------|----------------|-------------------|------------------|-------|----|-------|
|                  |               |             |            |      |                    |             |                   |                |                   | Dia              | Rope# | φ  | Pitch |
| IGL25-161P0-12mm | 1600          | 1.00        | 10.5       | 32   | 380                | 27.4        | 1250              | 21.0           | 79                | 485              | 5     | 12 | 18    |
| IGL25-161P7-12mm | 1600          | 1.75        | 18.1       | 32   | 380                | 44.0        | 1250              | 36.8           | 138               | 485              | 5     | 12 | 18    |
| IGL25-162P0-12mm | 1600          | 2.00        | 20.7       | 32   | 380                | 49.5        | 1250              | 42.0           | 158               | 485              | 5     | 12 | 18    |
| IGL25-201P0-12mm | 2000          | 1.00        | 13.0       | 32   | 380                | 31.7        | 1560              | 21.0           | 79                | 485              | 6     | 12 | 18    |
| IGL25-201P7-12mm | 2000          | 1.75        | 22.6       | 32   | 380                | 53.8        | 1560              | 36.8           | 138               | 485              | 6     | 12 | 18    |
| IGL25-202P0-12mm | 2000          | 2.00        | 26.0       | 32   | 380                | 60.7        | 1560              | 42.0           | 158               | 485              | 6     | 12 | 18    |

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# IGL29

## Gearless Traction Machine

Maximum Full Load Mass : 3500 KG  
 Brake Coils : 110VDC/2x1.22A  
 Estimated Weight : 450 KG



| Part Number      | Capacity (KG) | Speed (M/S) | Motor (KW) | Pole | Power Source (VAC) | Current (A) | Rated Torque (NM) | Frequency (Hz) | Motor Speed (RPM) | Sheave Spec (mm) |       |    |       |
|------------------|---------------|-------------|------------|------|--------------------|-------------|-------------------|----------------|-------------------|------------------|-------|----|-------|
|                  |               |             |            |      |                    |             |                   |                |                   | Dia              | Rope# | φ  | Pitch |
| IGL29-101P0-10mm | 1020          | 1.00        | 6.2        | 32   | 380                | 13.9        | 750               | 21.1           | 79                | 485              | 6     | 10 | 16    |
| IGL29-101P5-10mm | 1020          | 1.50        | 9.3        | 32   | 380                | 20.7        | 750               | 31.5           | 118               | 485              | 6     | 10 | 16    |
| IGL29-101P7-10mm | 1020          | 1.75        | 10.8       | 32   | 380                | 22.9        | 750               | 36.8           | 138               | 485              | 6     | 10 | 16    |
| IGL29-102P0-10mm | 1020          | 2.00        | 12.4       | 32   | 380                | 26.2        | 750               | 42.1           | 158               | 485              | 6     | 10 | 16    |
| IGL29-102P5-10mm | 1020          | 2.50        | 15.5       | 32   | 380                | 32.4        | 750               | 52.5           | 197               | 485              | 6     | 10 | 16    |
| IGL29-111P0-10mm | 1156          | 1.00        | 7.1        | 32   | 380                | 15.8        | 860               | 21.1           | 79                | 485              | 6     | 10 | 16    |
| IGL29-111P5-10mm | 1156          | 1.50        | 10.6       | 32   | 380                | 23.9        | 860               | 31.5           | 118               | 485              | 6     | 10 | 16    |
| IGL29-111P7-10mm | 1156          | 1.75        | 12.4       | 32   | 380                | 26.0        | 860               | 36.8           | 138               | 485              | 6     | 10 | 16    |
| IGL29-112P0-10mm | 1156          | 2.00        | 14.2       | 32   | 380                | 29.5        | 860               | 42.1           | 158               | 485              | 6     | 10 | 16    |
| IGL29-112P5-10mm | 1156          | 2.50        | 17.7       | 32   | 380                | 37.0        | 860               | 52.5           | 197               | 485              | 6     | 10 | 16    |
| IGL29-121P0-10mm | 1224          | 1.00        | 8.2        | 32   | 380                | 17.0        | 990               | 21.1           | 79                | 485              | 6     | 10 | 16    |
| IGL29-121P5-10mm | 1224          | 1.50        | 12.2       | 32   | 380                | 27.7        | 990               | 31.5           | 118               | 485              | 6     | 10 | 16    |
| IGL29-121P7-10mm | 1224          | 1.75        | 14.3       | 32   | 380                | 30.0        | 990               | 36.8           | 138               | 485              | 6     | 10 | 16    |
| IGL29-122P0-10mm | 1224          | 2.00        | 16.4       | 32   | 380                | 34.7        | 990               | 42.1           | 158               | 485              | 6     | 10 | 16    |
| IGL29-122P5-10mm | 1224          | 2.50        | 20.4       | 32   | 380                | 42.9        | 990               | 52.5           | 197               | 485              | 6     | 10 | 16    |

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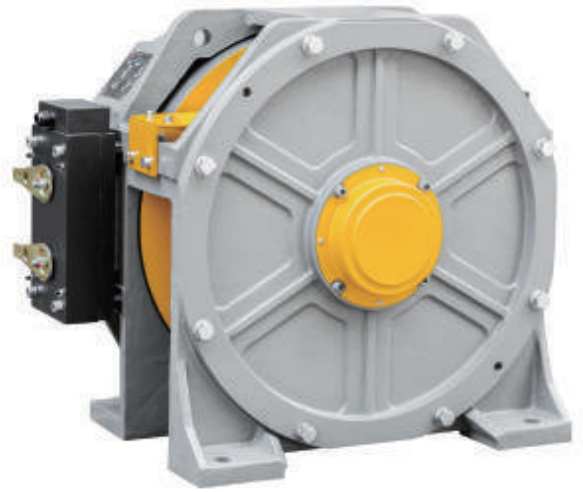
# IGL30

## Gearless Traction Machine

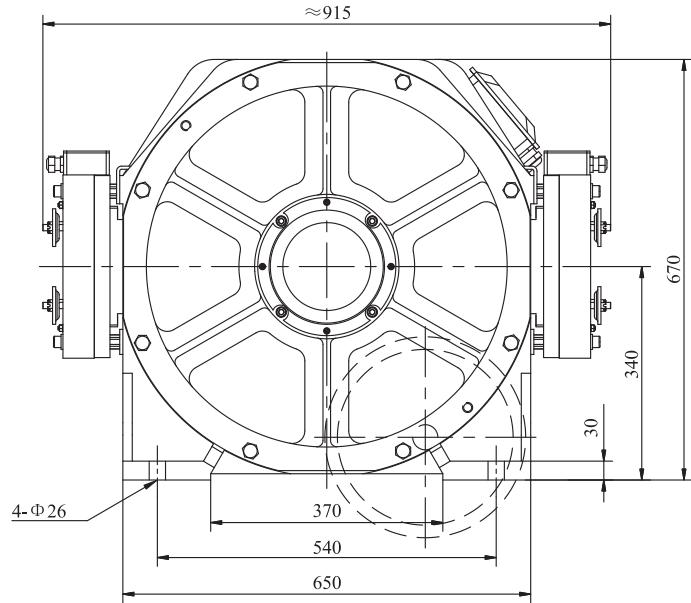
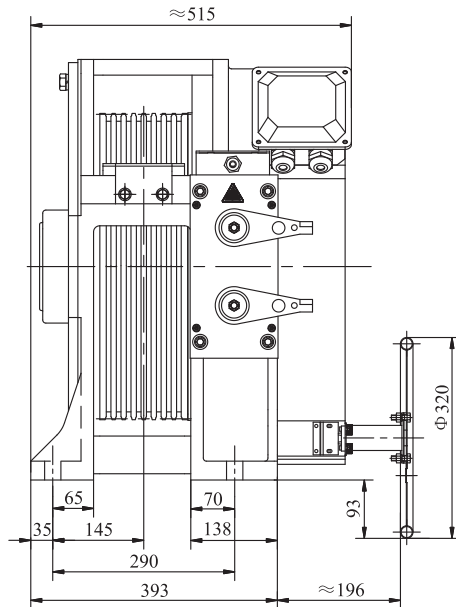
Maximum Full Load Mass : 5,500 KG

Brake Coils : 110VDC/2x2A

Estimated Weight : 550 KG



Dimensions in mm



| Part Number       | Capacity (KG) | Speed (M/S) | Motor (KW) | Pole | Power Source (VAC) | Current (A) | Rated Torque (NM) | Frequency (Hz) | Motor Speed (RPM) | Sheave Spec (mm) |       |    |       |
|-------------------|---------------|-------------|------------|------|--------------------|-------------|-------------------|----------------|-------------------|------------------|-------|----|-------|
|                   |               |             |            |      |                    |             |                   |                |                   | Dia              | Rope# | Ø  | Pitch |
| IGL30-102P5 -10mm | 1000          | 2.50        | 15.5       | 32   | 380                | 32.4        | 750               | 52.5           | 197               | 485              | 6     | 10 | 16    |
| IGL30-131P0-10mm  | 1360          | 1.00        | 8.9        | 32   | 380                | 19.3        | 1070              | 21.1           | 79                | 485              | 8     | 10 | 16    |
| IGL30-131P5-10mm  | 1360          | 1.50        | 13.2       | 32   | 380                | 29.5        | 1070              | 31.5           | 118               | 485              | 8     | 10 | 16    |
| IGL30-131P7-10mm  | 1360          | 1.75        | 15.5       | 32   | 380                | 32.2        | 1070              | 36.8           | 138               | 485              | 8     | 10 | 16    |
| IGL30-132P0-10mm  | 1360          | 2.00        | 17.7       | 32   | 380                | 37.0        | 1070              | 42.1           | 158               | 485              | 8     | 10 | 16    |
| IGL30-132P5-10mm  | 1360          | 2.50        | 22.1       | 32   | 380                | 45.8        | 1070              | 52.5           | 197               | 485              | 8     | 10 | 16    |
| IGL30-161P0-10mm  | 1600          | 1.00        | 10.5       | 32   | 380                | 22.8        | 1270              | 21.1           | 79                | 485              | 8     | 10 | 16    |
| IGL30-161P5-10mm  | 1600          | 1.50        | 15.7       | 32   | 380                | 35.6        | 1270              | 31.5           | 118               | 485              | 8     | 10 | 16    |
| IGL30-161P7-10mm  | 1600          | 1.75        | 18.4       | 32   | 380                | 38.7        | 1270              | 36.8           | 138               | 485              | 8     | 10 | 16    |
| IGL30-162P0-10mm  | 1600          | 2.00        | 21.0       | 32   | 380                | 44.5        | 1270              | 42.1           | 158               | 485              | 8     | 10 | 16    |
| IGL30-162P5-10mm  | 1600          | 2.50        | 26.2       | 32   | 380                | 55.7        | 1270              | 52.5           | 197               | 485              | 8     | 10 | 16    |

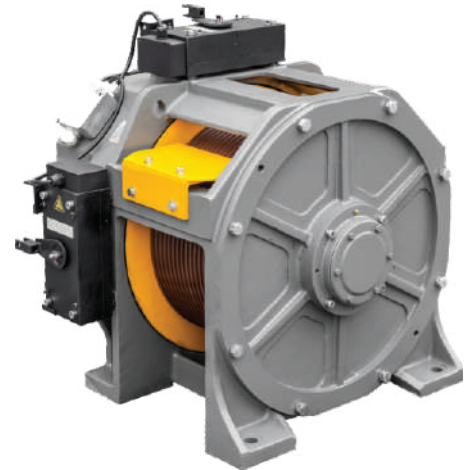
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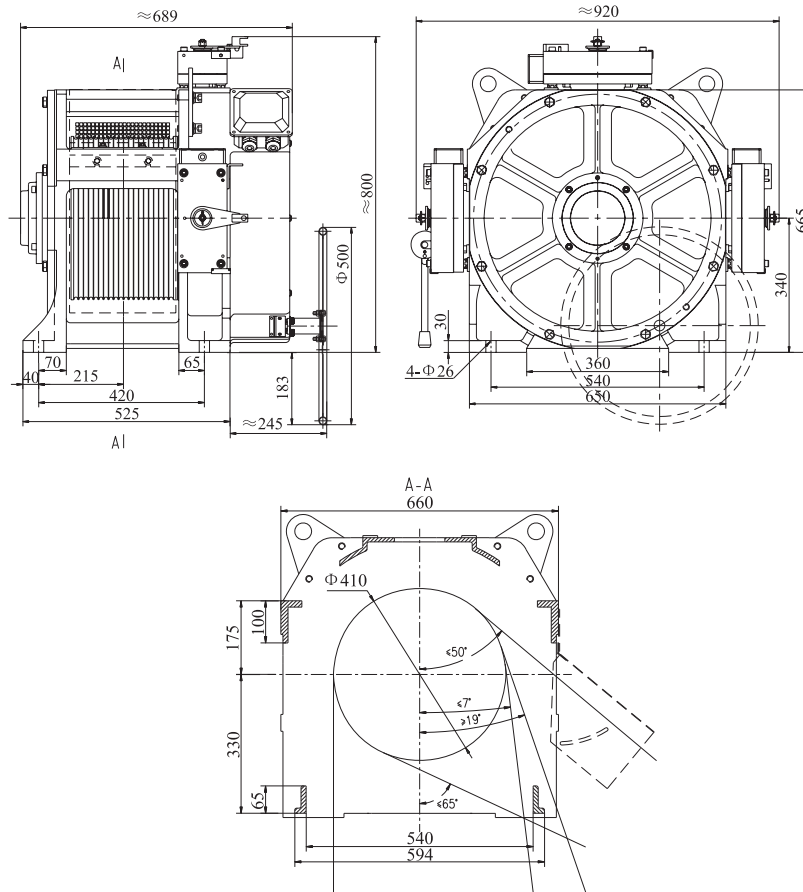
# IGL35

## Gearless Traction Machine

Maximum Full Load Mass: 11000 KG  
 Brake Coils : 110VDC 3\*1.5A(2\*1.5A)  
 Estimated Weight: 750 KG



Dimensions in mm



| Part Number       | Capacity (KG) | Speed (M/S) | Motor (KW) | Pole | Power Source (VAC) | Current (A) | Rated Torque (NM) | Frequency (Hz) | Motor Speed (RPM) | Sheave Spec (mm) |       |    |       |
|-------------------|---------------|-------------|------------|------|--------------------|-------------|-------------------|----------------|-------------------|------------------|-------|----|-------|
|                   |               |             |            |      |                    |             |                   |                |                   | Dia              | Rope# | ø  | Pitch |
| IGL35-201P0 -10mm | 2000          | 1.00        | 13.1       | 32   | 380                | 30.2        | 1350              | 24.8           | 93                | 410              | 18    | 10 | 14    |
| IGL35-201P5 -10mm | 2000          | 1.50        | 19.8       | 32   | 380                | 46.9        | 1350              | 37.3           | 140               | 410              | 18    | 10 | 14    |
| IGL35-201P7 -10mm | 2000          | 1.75        | 23.0       | 32   | 380                | 50.3        | 1350              | 43.5           | 163               | 410              | 18    | 10 | 14    |
| IGL35-202P0 -10mm | 2000          | 2.00        | 26.3       | 32   | 380                | 57.9        | 1350              | 49.6           | 186               | 410              | 18    | 10 | 14    |
| IGL35-221P0 -10mm | 2250          | 1.00        | 15.1       | 32   | 380                | 34.9        | 1550              | 24.8           | 93                | 410              | 18    | 10 | 14    |
| IGL35-221P5 -10mm | 2250          | 1.50        | 22.7       | 32   | 380                | 53.9        | 1550              | 37.3           | 140               | 410              | 18    | 10 | 14    |
| IGL35-221P7 -10mm | 2250          | 1.75        | 26.2       | 32   | 380                | 59.0        | 1550              | 43.5           | 163               | 410              | 18    | 10 | 14    |
| IGL35-222P0 -10mm | 2250          | 2.00        | 30.2       | 32   | 380                | 67.4        | 1550              | 49.6           | 186               | 410              | 18    | 10 | 14    |

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# IGL54

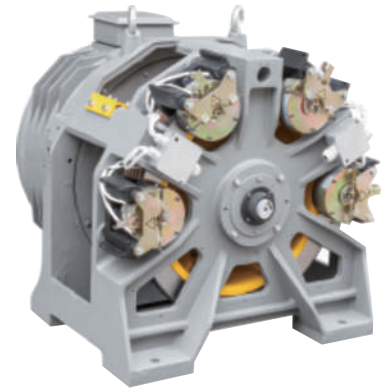
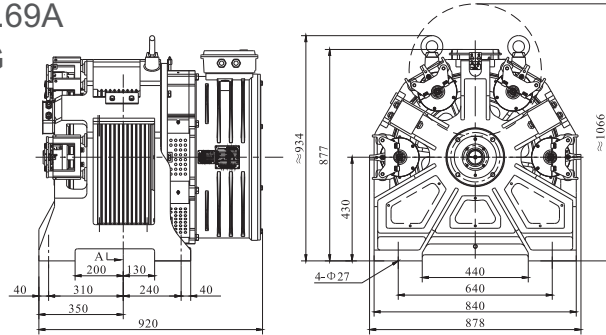
## Gearless Traction Machine

Maximum Full Load Mass: 14000 KG

Brake Coils : 110VDC 4\*0.69A

Estimated Weight: 1120 KG

Dimensions in mm



| Part Number       | Capacity (KG) | Speed (M/S) | Motor (KW) | Pole | Power Source (VAC) | Current (A) | Rated Torque (NM) | Frequency (Hz) | Motor Speed (RPM) | Sheave Spec (mm) |       |    |       |
|-------------------|---------------|-------------|------------|------|--------------------|-------------|-------------------|----------------|-------------------|------------------|-------|----|-------|
|                   |               |             |            |      |                    |             |                   |                |                   | Dia              | Rope# | ø  | Pitch |
| IGL54-103P0 -13mm | 1020          | 3.0         | 20.5       | 20   | 380                | 42.8        | 955               | 34.2           | 205               | 560              | 10    | 13 | 18    |
| IGL54-104P0 -13mm | 1020          | 4.0         | 27.3       | 20   | 380                | 56.6        | 955               | 45.5           | 273               | 560              | 10    | 13 | 18    |
| IGL54-133P0 -13mm | 1360          | 3.0         | 27.7       | 20   | 380                | 57.2        | 1290              | 34.2           | 205               | 560              | 10    | 13 | 18    |
| IGL54-134P0 -13mm | 1360          | 4.0         | 36.9       | 20   | 380                | 75.5        | 1290              | 45.5           | 273               | 560              | 10    | 13 | 18    |
| IGL54-163P0 -13mm | 1600          | 3.0         | 32.7       | 20   | 380                | 69.5        | 1525              | 34.2           | 205               | 560              | 12    | 13 | 18    |
| IGL54-164P0 -13mm | 1600          | 4.0         | 43.6       | 20   | 380                | 93.0        | 1525              | 45.5           | 273               | 560              | 12    | 13 | 18    |
| IGL54-202P5 -13mm | 2000          | 2.5         | 34.2       | 20   | 380                | 72.0        | 1910              | 28.5           | 171               | 560              | 12    | 13 | 18    |
| IGL54-203P0 -13mm | 2000          | 3.0         | 41.0       | 20   | 380                | 90.0        | 1910              | 34.2           | 205               | 560              | 12    | 13 | 18    |
| IGL54-204P0 -13mm | 2000          | 4.0         | 54.3       | 20   | 380                | 120.0       | 1910              | 45.5           | 273               | 560              | 12    | 13 | 18    |

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# IGL60

## Gearless Traction Machine

Maximum Full Load Mass: 36,000 KG

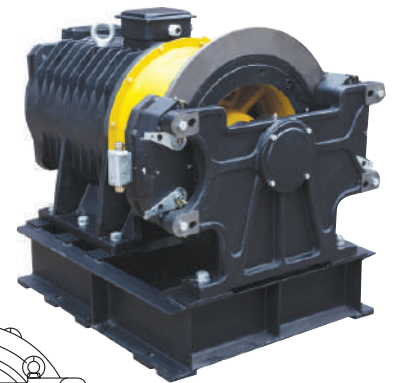
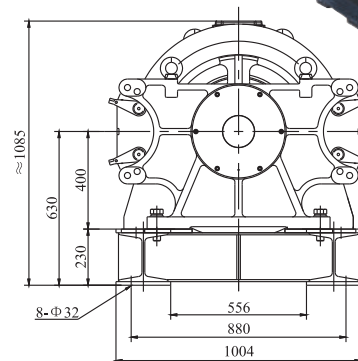
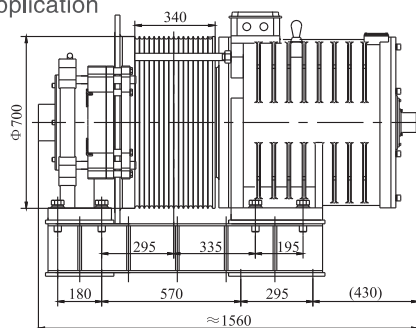
Brake Coils: 110VDC/ 2x2.2A

Estimated Weight: 3,000 KG

Dimensions in mm

Feature: Double Wrap. Machine comes with supporting structure.

1:1 Roping Application



| Part Number      | Capacity (KG) | Speed (M/S) | Motor (KW) | Pole | Power Source (VAC) | Current (A) | Rated Torque (NM) | Frequency (Hz) | Motor Speed (RPM) | Sheave Spec (mm) |       |    |       |
|------------------|---------------|-------------|------------|------|--------------------|-------------|-------------------|----------------|-------------------|------------------|-------|----|-------|
|                  |               |             |            |      |                    |             |                   |                |                   | Dia              | Rope# | ø  | Pitch |
| IGL60-205P0-16mm | 2000          | 5.00        | 67.2       | 24   | 380                | 147         | 4700              | 27.4           | 137               | 700              | 16    | 16 | 20    |
| IGL60-206P0-16mm | 2000          | 6.00        | 80.6       | 24   | 380                | 174         | 4700              | 32.8           | 164               | 700              | 16    | 16 | 20    |
| IGL60-207P0-16mm | 2000          | 7.00        | 94.0       | 24   | 380                | 213         | 4700              | 38.4           | 192               | 700              | 16    | 16 | 20    |

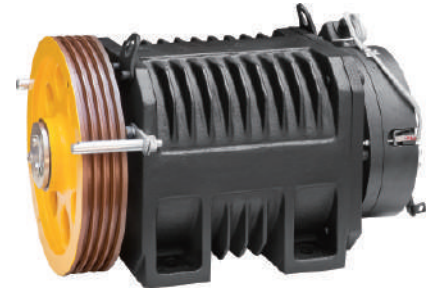
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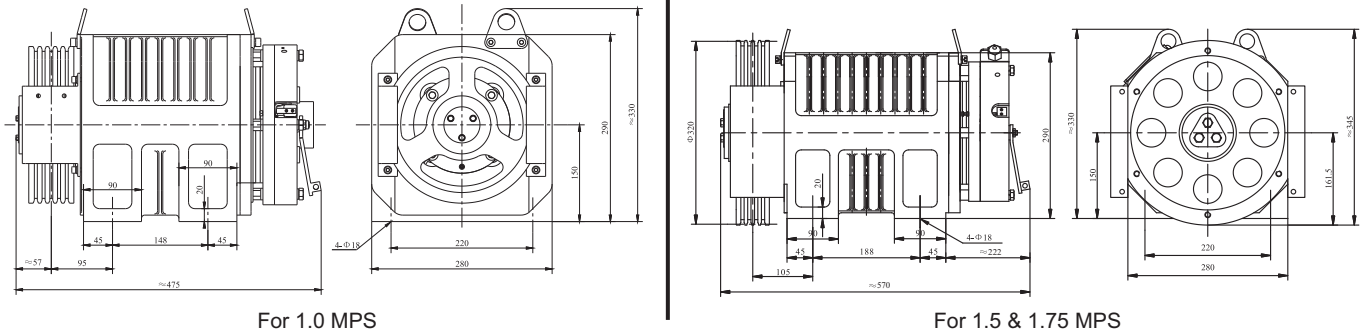
# RGL00-IN

## Restricted Space Gearless Machine

Voltage: 380V  
 Suspension: 2:1  
 Brake: DC110V / 1.6A  
 Weight : 140 kg  
 Max. Static Load: 1600 kg



Dimensions in mm



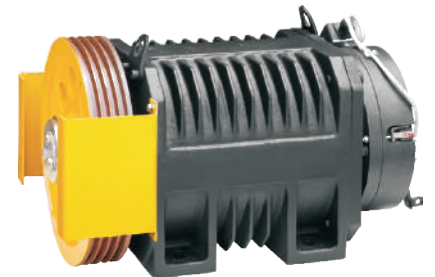
| Part Number       | Capacity (KG) | Speed (M/S) | Motor (KW) | Pole | Power Source (VAC) | Current (A) | Rated Torque (NM) | Frequency (Hz) | Motor Speed (RPM) | Sheave Spec (mm) |       |   |       |
|-------------------|---------------|-------------|------------|------|--------------------|-------------|-------------------|----------------|-------------------|------------------|-------|---|-------|
|                   |               |             |            |      |                    |             |                   |                |                   | Dia              | Rope# | ø | Pitch |
| RGL00-IN-41P0-8mm | 408           | 1.00        | 2.7        | 20   | 380                | 8.2         | 215               | 20.0           | 120               | 320              | 4     | 8 | 12    |
| RGL00-IN-41P5-8mm | 408           | 1.50        | 4.5        | 20   | 380                | 11.6        | 240               | 29.8           | 179               | 320              | 4     | 8 | 12    |
| RGL00-IN-41P7-8mm | 408           | 1.75        | 5.3        | 20   | 380                | 12.5        | 240               | 34.8           | 209               | 320              | 4     | 8 | 12    |

Data are subject to change without prior notice.

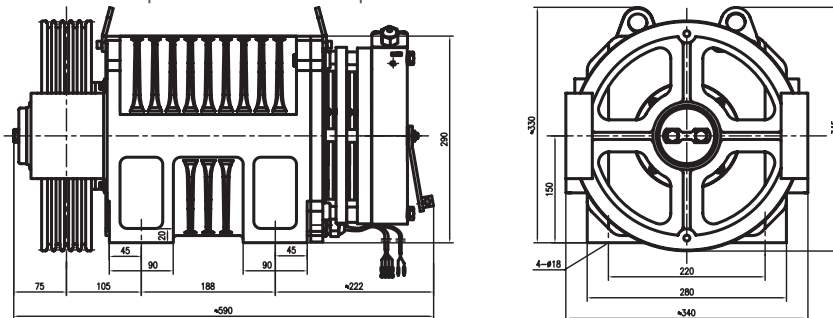
# RGL15

## Restricted Space Gearless Machine

Maximum Full Load Mass: 2,000 KG  
 Brake Coils: 110VDC/1.9A  
 Estimated Weight: 160 KG  
 Feature: Great for restricted overhead space application, machine room or MRL.  
 Remote brake release can be pre-installed as an option



Dimensions in mm



| Part Number    | Capacity (KG) | Speed (M/S) | Motor (KW) | Pole | Power Source (VAC) | Current (A) | Rated Torque (NM) | Frequency (Hz) | Motor Speed (RPM) | Sheave Spec (mm) |       |   |       |
|----------------|---------------|-------------|------------|------|--------------------|-------------|-------------------|----------------|-------------------|------------------|-------|---|-------|
|                |               |             |            |      |                    |             |                   |                |                   | Dia              | Rope# | ø | Pitch |
| RGL15-51P0-8mm | 544           | 1.00        | 3.6        | 20   | 380                | 9.8         | 290               | 20.0           | 120               | 320              | 5     | 8 | 12    |
| RGL15-51P5-8mm | 544           | 1.50        | 5.4        | 20   | 380                | 14.4        | 290               | 29.8           | 179               | 320              | 5     | 8 | 12    |
| RGL15-51P7-8mm | 544           | 1.75        | 6.3        | 20   | 380                | 15.0        | 290               | 34.8           | 209               | 320              | 5     | 8 | 12    |
| RGL15-61P0-8mm | 680           | 1.00        | 4.2        | 20   | 380                | 11.8        | 336               | 20.0           | 120               | 320              | 5     | 8 | 12    |
| RGL15-61P5-8mm | 680           | 1.50        | 6.3        | 20   | 380                | 16.5        | 336               | 29.8           | 179               | 320              | 5     | 8 | 12    |
| RGL15-61P7-8mm | 680           | 1.75        | 7.4        | 20   | 380                | 17.3        | 336               | 34.8           | 209               | 320              | 5     | 8 | 12    |

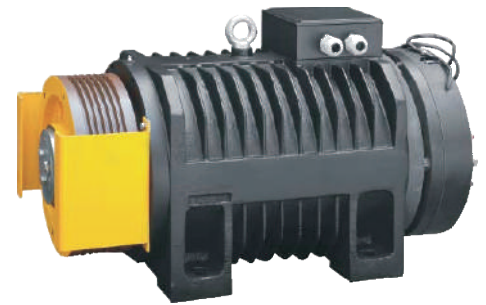
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# RGL21

## Restricted Space Gearless Machine

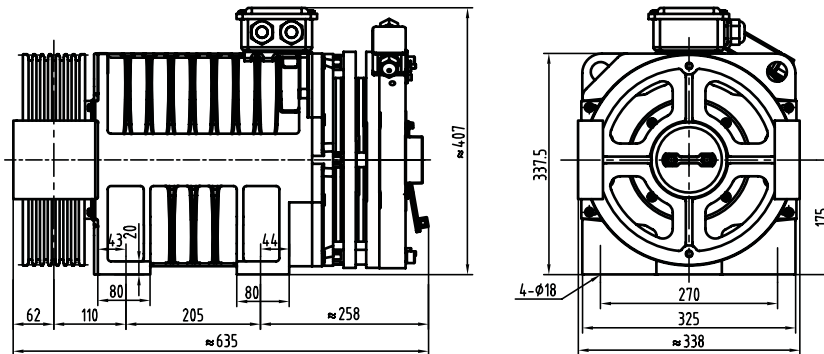


Maximum Full Load Mass: 3,000 KG

Brake Coils: 110VDC/1.1 A

Estimated Weight: 245 KG

Dimensions in mm



| Part Number     | Capacity (KG) | Speed (M/S) | Motor (KW) | Pole | Power Source (VAC) | Current (A) | Rated Torque (NM) | Frequency (Hz) | Motor Speed (RPM) | Sheave Spec (mm) |       |   |       |
|-----------------|---------------|-------------|------------|------|--------------------|-------------|-------------------|----------------|-------------------|------------------|-------|---|-------|
|                 |               |             |            |      |                    |             |                   |                |                   | Dia              | Rope# | ø | Pitch |
| RGL21-81P0-8mm  | 884           | 1.00        | 5.2        | 20   | 380                | 14.0        | 420               | 20.0           | 120               | 320              | 6     | 8 | 12    |
| RGL21-81P5-8mm  | 884           | 1.50        | 7.9        | 20   | 380                | 20.2        | 420               | 29.8           | 179               | 320              | 6     | 8 | 12    |
| RGL21-81P7-8mm  | 884           | 1.75        | 9.2        | 20   | 380                | 21.7        | 420               | 34.8           | 209               | 320              | 6     | 8 | 12    |
| RGL21-101P0-8mm | 1088          | 1.00        | 6.5        | 20   | 380                | 17.6        | 525               | 20.0           | 120               | 320              | 7     | 8 | 12    |
| RGL21-101P5-8mm | 1088          | 1.50        | 9.8        | 20   | 380                | 26.0        | 525               | 29.8           | 179               | 320              | 7     | 8 | 12    |
| RGL21-101P7-8mm | 1088          | 1.75        | 11.5       | 20   | 380                | 27.5        | 525               | 34.8           | 209               | 320              | 7     | 8 | 12    |

Feature: Great for restricted overhead space application, MR or MRL. Remote brake release can be pre-installed as an option. Data are subject to change without prior notice.

# RGL25

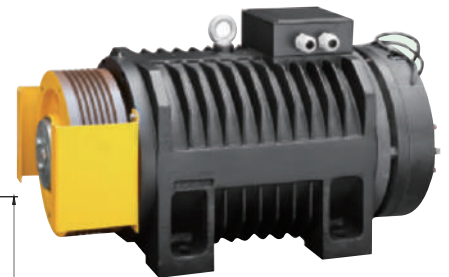
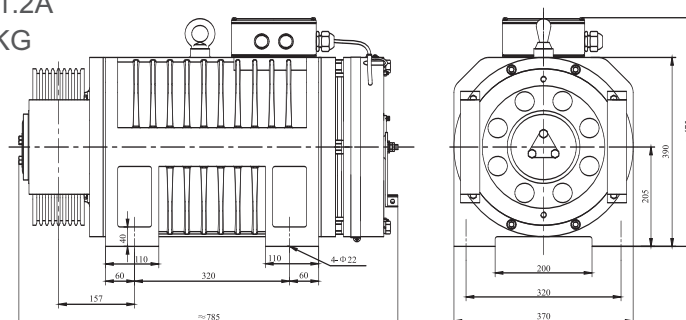
## Restricted Space Gearless Machine

Maximum Full Load Mass: 3800 KG

Brake Coils : 110VDC/1.2A

Estimated Weight: 420 KG

Dimensions in mm



| Part Number     | Capacity (KG) | Speed (M/S) | Motor (KW) | Pole | Power Source (VAC) | Current (A) | Rated Torque (NM) | Frequency (Hz) | Motor Speed (RPM) | Sheave Spec (mm) |       |   |       |
|-----------------|---------------|-------------|------------|------|--------------------|-------------|-------------------|----------------|-------------------|------------------|-------|---|-------|
|                 |               |             |            |      |                    |             |                   |                |                   | Dia              | Rope# | ø | Pitch |
| RGL25-111P0-8mm | 1156          | 1.00        | 7.8        | 20   | 380                | 19.6        | 630               | 19.9           | 119               | 320              | 8     | 8 | 12    |
| RGL25-111P5-8mm | 1156          | 1.50        | 11.8       | 20   | 380                | 29.8        | 630               | 29.8           | 179               | 320              | 8     | 8 | 12    |
| RGL25-111P7-8mm | 1156          | 1.75        | 13.8       | 20   | 380                | 32.3        | 630               | 34.8           | 209               | 320              | 8     | 8 | 12    |
| RGL25-121P0-8mm | 1224          | 1.00        | 8.5        | 20   | 380                | 21.1        | 680               | 19.9           | 119               | 320              | 8     | 8 | 12    |
| RGL25-121P5-8mm | 1224          | 1.50        | 12.7       | 20   | 380                | 32.1        | 680               | 29.8           | 179               | 320              | 8     | 8 | 12    |
| RGL25-121P7-8mm | 1224          | 1.75        | 14.9       | 20   | 380                | 34.8        | 680               | 34.8           | 209               | 320              | 8     | 8 | 12    |

Feature: Great for restricted overhead space application, MR or MRL. Remote brake release can be pre-installed as an option. Data are subject to change without prior notice.

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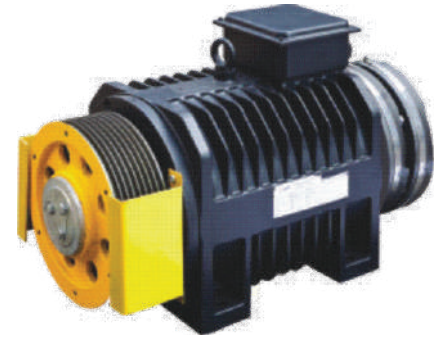
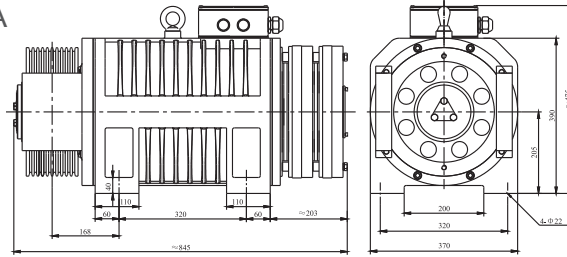


# RGL30

## Restricted Space Gearless Machine

Maximum Full Load Mass: 4500 KG  
 Brake Coils : 110VDC/2x1.5A  
 Estimated Weight: 455 KG

Dimensions in mm



| Part Number      | Capacity (KG) | Speed (M/S) | Motor (KW) | Pole | Power Source (VAC) | Current (A) | Rated Torque (NM) | Frequency (Hz) | Motor Speed (RPM) | Sheave Spec (mm) |       |   |       |
|------------------|---------------|-------------|------------|------|--------------------|-------------|-------------------|----------------|-------------------|------------------|-------|---|-------|
|                  |               |             |            |      |                    |             |                   |                |                   | Dia              | Rope# | ø | Pitch |
| RGL30-131P0 -8mm | 1360          | 1.00        | 9.2        | 20   | 380                | 22.8        | 735               | 19.9           | 119               | 320              | 9     | 8 | 12    |
| RGL30-131P5 -8mm | 1360          | 1.50        | 13.8       | 20   | 380                | 33.0        | 735               | 29.8           | 179               | 320              | 9     | 8 | 12    |
| RGL30-131P7 -8mm | 1360          | 1.75        | 16.1       | 20   | 380                | 36.8        | 735               | 34.8           | 209               | 320              | 9     | 8 | 12    |
| RGL30-161P0 -8mm | 1600          | 1.00        | 10.8       | 20   | 380                | 27.0        | 870               | 19.9           | 119               | 320              | 10    | 8 | 12    |
| RGL30-161P5 -8mm | 1600          | 1.50        | 16.3       | 20   | 380                | 39.0        | 870               | 29.8           | 179               | 320              | 10    | 8 | 12    |
| RGL30-161P7 -8mm | 1600          | 1.75        | 19.0       | 20   | 380                | 43.5        | 870               | 34.8           | 209               | 320              | 10    | 8 | 12    |

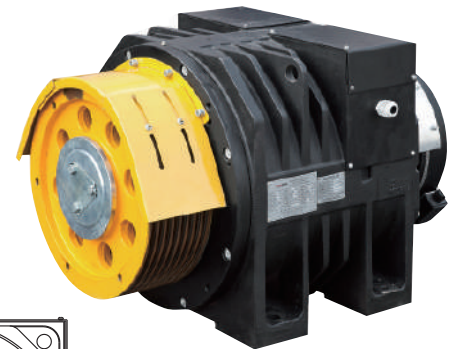
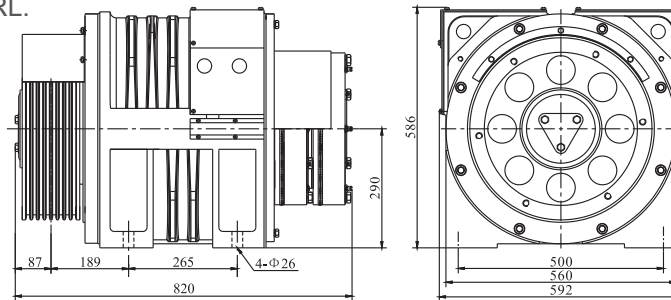
Feature: Great for restricted overhead space application, MR or MRL.  
 This machine **does not have Remote manual brake release option**  
 Data are subject to change without prior notice.

# RGL40

## Restricted Space Gearless Machine

Maximum Full Load Mass: 6,000 KG  
 Brake Coils: 110VDC/ 2x2.1A  
 Estimated Weight: 880 KG

Dimensions in mm



| Part Number       | Capacity (KG) | Speed (M/S) | Motor (KW) | Pole | Power Source (VAC) | Current (A) | Rated Torque (NM) | Frequency (Hz) | Motor Speed (RPM) | Sheave Spec (mm) |       |    |       |
|-------------------|---------------|-------------|------------|------|--------------------|-------------|-------------------|----------------|-------------------|------------------|-------|----|-------|
|                   |               |             |            |      |                    |             |                   |                |                   | Dia              | Rope# | ø  | Pitch |
| RGL40-161P0 -10mm | 1600          | 1.00        | 10.2       | 20   | 380                | 26.3        | 1120              | 14.5           | 87                | 440              | 8     | 10 | 16    |
| RGL40-161P5 -10mm | 1600          | 1.50        | 16.3       | 20   | 380                | 39.8        | 1120              | 23.2           | 139               | 440              | 8     | 10 | 16    |
| RGL40-161P7 -10mm | 1600          | 1.70        | 17.9       | 20   | 380                | 42.9        | 1120              | 25.5           | 153               | 440              | 8     | 10 | 16    |
| RGL40-162P0 -10mm | 1600          | 2.00        | 20.5       | 20   | 380                | 47.9        | 1120              | 29.0           | 174               | 440              | 8     | 10 | 16    |
| RGL40-221P0 -10mm | 2250          | 1.00        | 13.9       | 20   | 380                | 36.2        | 1530              | 14.5           | 87                | 440              | 8     | 10 | 16    |
| RGL40-221P5 -10mm | 2250          | 1.50        | 22.3       | 20   | 380                | 53.7        | 1530              | 23.2           | 139               | 440              | 8     | 10 | 16    |
| RGL40-221P7 -10mm | 2250          | 1.70        | 24.5       | 20   | 380                | 59.5        | 1530              | 25.5           | 153               | 440              | 8     | 10 | 16    |
| RGL40-222P0 -10mm | 2250          | 2.00        | 27.9       | 20   | 380                | 66.7        | 1530              | 29.0           | 174               | 440              | 8     | 10 | 16    |
| RGL40-251P0 -10mm | 2500          | 1.00        | 15.4       | 20   | 380                | 39.7        | 1530              | 16.0           | 96                | 400              | 10    | 10 | 16    |
| RGL40-252P0 -10mm | 2500          | 2.00        | 30.8       | 20   | 380                | 70.0        | 1530              | 32.0           | 192               | 400              | 10    | 10 | 16    |

Feature: Great for restricted overhead space application, MR or MRL.  
 This machine **does not have Remote manual brake release option**  
 Data are subject to change without prior notice.

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# HGL10

## Home Lift Gearless Machine

Maximum Full Load Mass: 1,300 KG

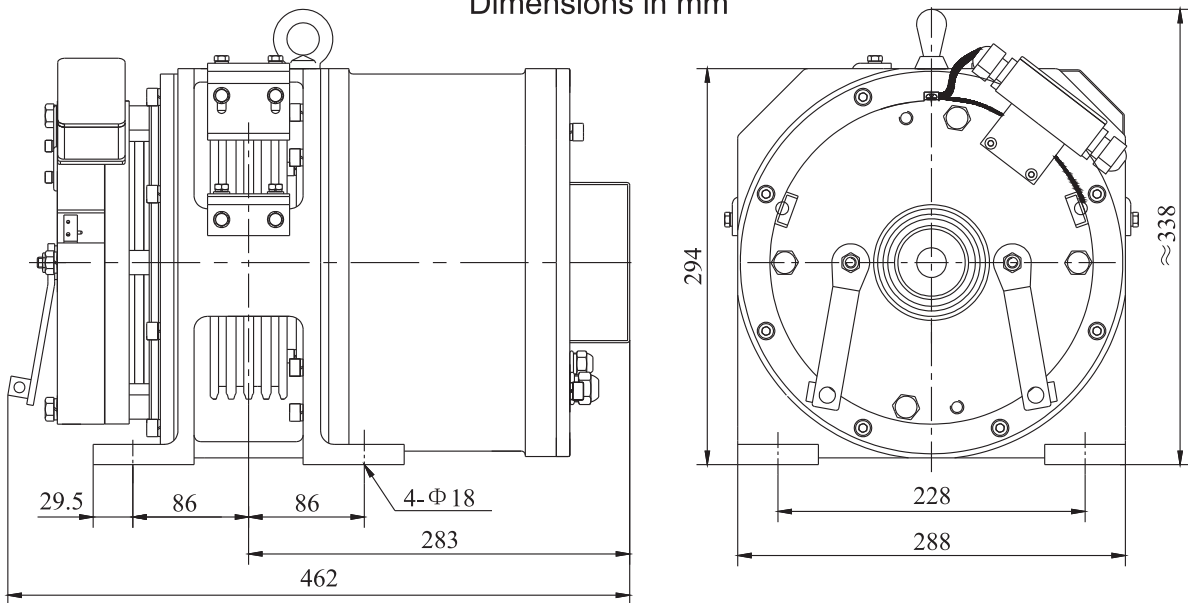
Brake Coils: 110VDC/ 1.6A

Estimated Weight: 105 KG

Feature : Perfect for home lift application.  
Remote brake release can be pre-installed as an option



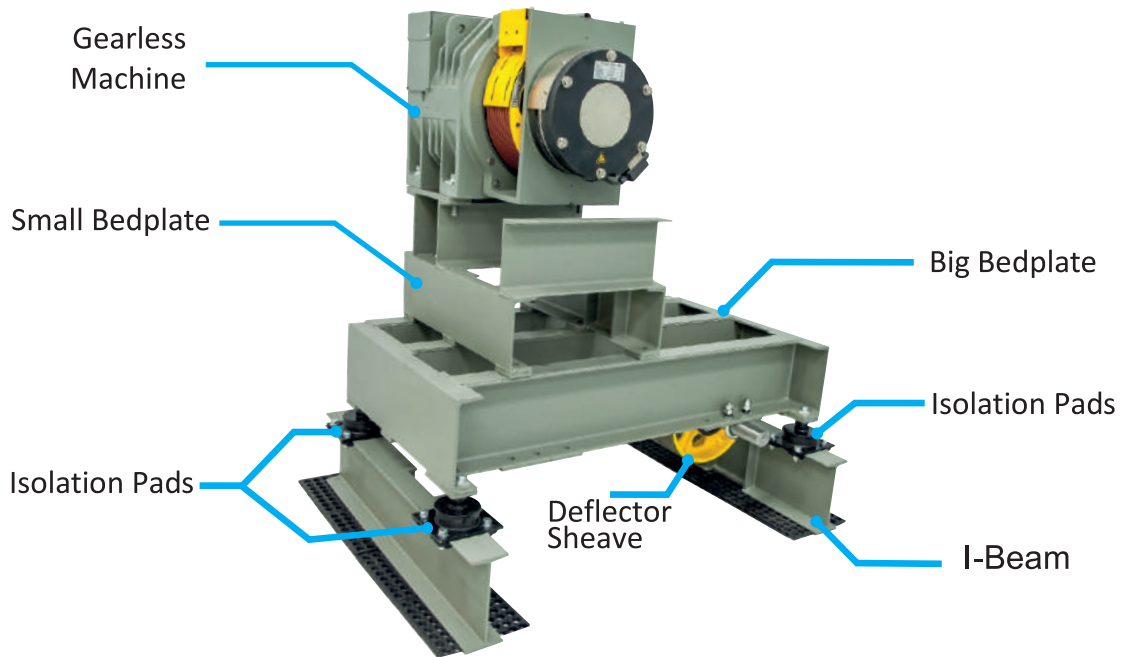
Dimensions in mm



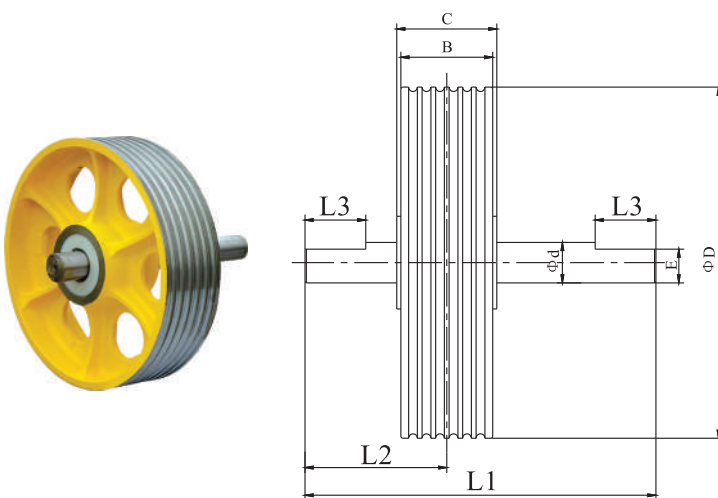
| Part Number       | Capacity (KG) | Speed (M/S) | Motor (KW) | Pole | Power Source (VAC) | Current (A) | Rated Torque (NM) | Frequency (Hz) | Motor Speed (RPM) | Sheave Spec (mm) |       |   |       |
|-------------------|---------------|-------------|------------|------|--------------------|-------------|-------------------|----------------|-------------------|------------------|-------|---|-------|
|                   |               |             |            |      |                    |             |                   |                |                   | Dia              | Rope# | ø | Pitch |
| HGL10-40P4-8mm-HV | 450           | 0.4         | 1.1        | 20   | 380                | 3.5         | 138               | 12.7           | 76                | 200              | 4     | 8 | 12    |
| HGL10-40P4-8mm-LV | 450           | 0.4         | 1.1        | 20   | 220                | 6.5         | 138               | 12.7           | 76                | 200              | 4     | 8 | 12    |

Data are subject to change without prior notice.

## Machine Room Solution for Gearless Machine



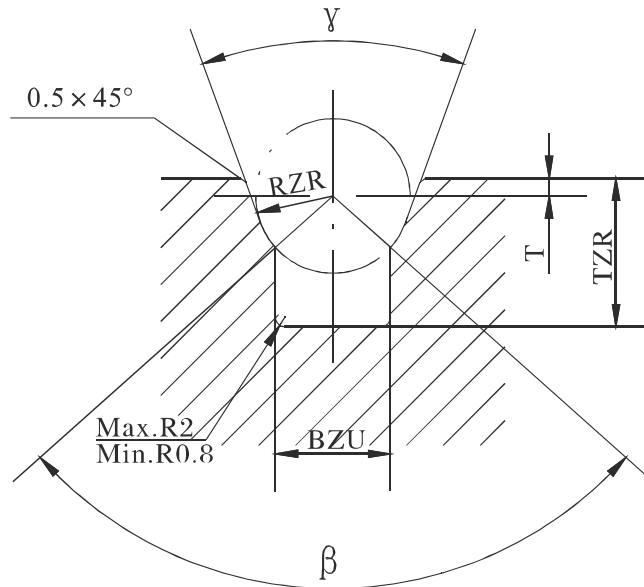
Need To Order **Deflector Sheave**?  
Please Specify L1, L2 and L3 When Ordering.



| Model        | D (mm) | d (mm) | B (mm) | C (mm) | E (mm) |
|--------------|--------|--------|--------|--------|--------|
| DSV-IGL15    | 340    | 60     | 78     | 84     | 50     |
| DSV-IGL21    | 400    | 60     | 90     | 90     | 50     |
| DSV-IGL25    | 400    | 70     | 135    | 140    | 60     |
| DSV-IGL29    | 400    | 70     | 135    | 140    | 60     |
| DSV-IGL30    | 400    | 70     | 135    | 140    | 60     |
| DSV-IGL35    | 520    | 120    | 280    | 280    | 120    |
| DSV-IGL54    | 520    | 90     | 200    | 235    | 90     |
| DSV-IGL60    | 640    | 160    | 330    | 290    | 150    |
| DSV-RGL00-IN | 340    | 60     | 78     | 84     | 50     |
| DSV-RGL15    | 400    | 60     | 78     | 84     | 50     |
| DSV-RGL21    | 400    | 60     | 78     | 84     | 50     |
| DSV-RGL25    | 400    | 70     | 135    | 140    | 60     |
| DSV-RGL30    | 400    | 70     | 135    | 140    | 60     |
| DSV-RGL40    | 520    | 90     | 150    | 150    | 80     |
| DSV-HGL10    | 340    | 60     | 78     | 84     | 50     |

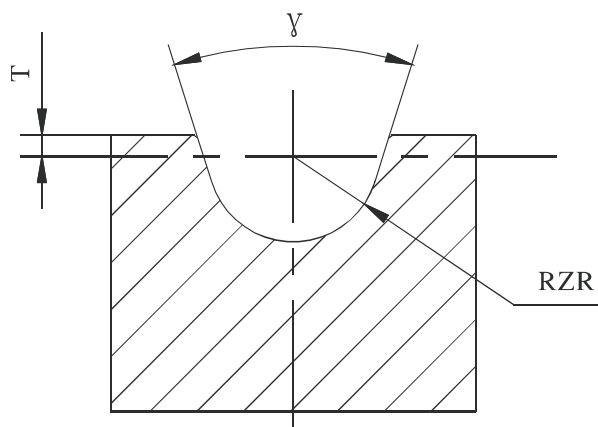
# GEARLESS MACHINE GROOVE PROFILE

## Single Wrap



| Rope (mm) | $\beta$ | $\gamma$ | BZU (mm) | RZR (mm) | TZR (mm) | T (mm) |
|-----------|---------|----------|----------|----------|----------|--------|
| 8         | 90      | 30       | 5.66     | 4        | 9.5      | 1.5    |
| 10        | 95      | 30       | 7.37     | 5        | 12.5     | 1.5    |
| 12        | 95      | 30       | 8.85     | 6        | 12.5     | 1.5    |
| 16        | 96.5    | 30       | 11.93    | 8        | 15       | 1.5    |

## Double Wrap



| Rope (mm) | $\gamma$ | RZR (mm) | T (mm) |
|-----------|----------|----------|--------|
| 10        | 35       | 5.2      | 2      |
| 12        | 35       | 6.2      | 2      |
| 13        | 35       | 6.7      | 2      |
| 16        | 35       | 8.2      | 2      |

Data are subject to change without prior notice.  
User should calculate according to the elevator traction condition and the safety factor of rope.

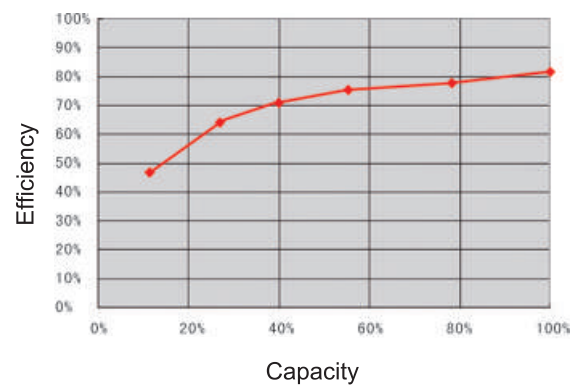


# IED SERIES

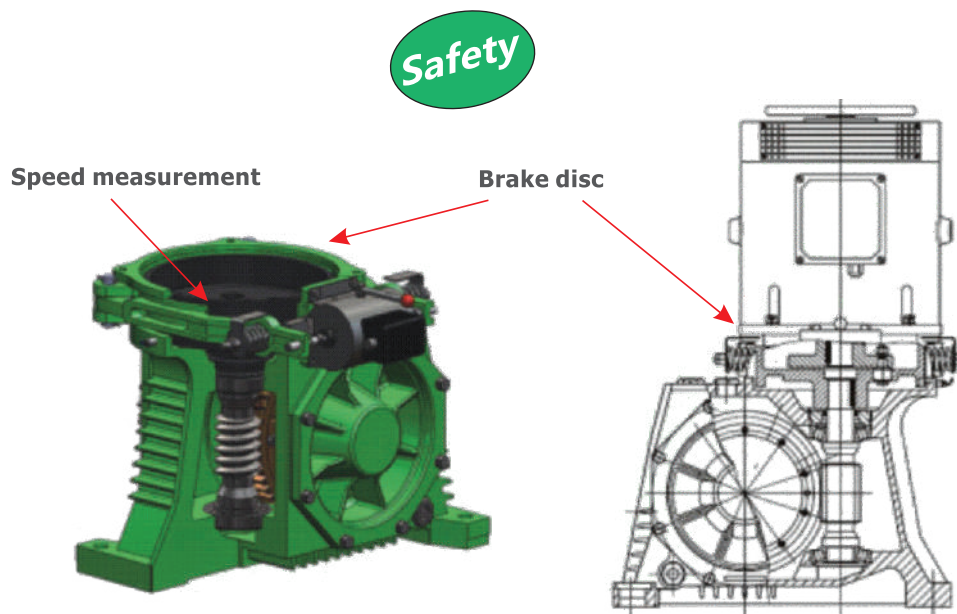
## ESCALATOR MACHINE

### Product features

- ◆ Advanced traditional manufacturing technology makes the overall efficiency reach more than 80%.
- ◆ Arc worm gear pair transmission greatly improves carrying capacity.
- ◆ Excellent manufacturing & engineering reliability guarantees the performance of our products.



### Underlying brake system



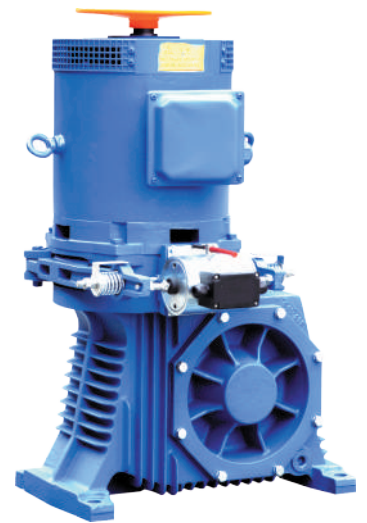
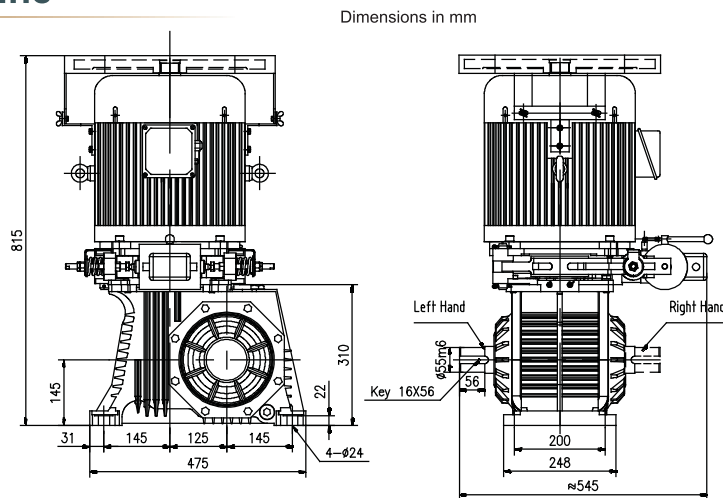
Technical parameters are subject to change without prior notice.

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# IED10

## Escalator Machine

Voltage: 380V  
 Wiring: Δ  
 Brake: AC220V  
 Weight: 220Kg



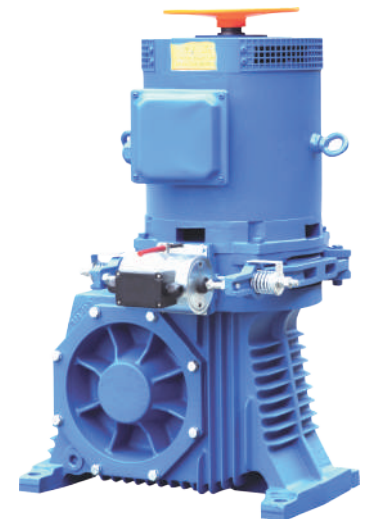
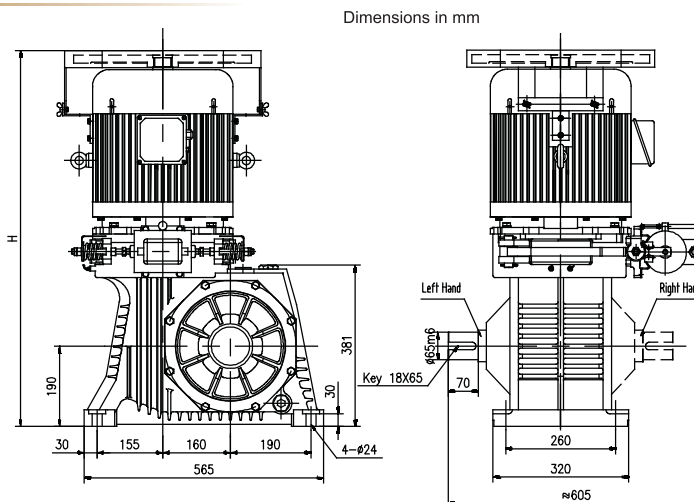
| Part Number | Gear Ratio | Output Speed (Rpm) | Max. Torque (Nm) | Power (kW) | Current (A) | Oil |
|-------------|------------|--------------------|------------------|------------|-------------|-----|
| IED10-5.5   | 24.5       | 39.18              | 1099             | 5.5        | 13          | 460 |
| IED10-7.5   | 24.5       | 39.18              | 1499             | 7.5        | 17          | 460 |

Remark:  
 1.Right type is optional.  
 2.The dimension in the bracket is for IP55 motor.

# IED20

## Escalator Machine

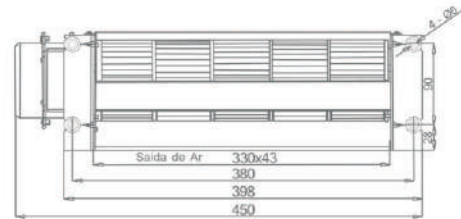
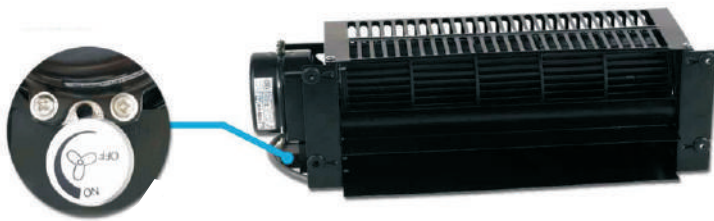
Voltage: 380V  
 Wiring: Δ  
 Brake: AC220V  
 Weight: 310Kg



| Part Number | Gear Ratio | Output Speed (Rpm) | Max. Torque (Nm) | Power (kW) | Current (A) | Oil         |
|-------------|------------|--------------------|------------------|------------|-------------|-------------|
| IED20-8     | 24.5       | 39.18              | 1599             | 8          | 17.5        | 460 (M0/S0) |
| IED20-11    | 24.5       | 39.18              | 2198             | 11         | 23.5        | 460 (M0/S0) |
| IED20-13    | 24.5       | 39.18              | 2598             | 13         | 27.5        | 460 (M0/S0) |
| IED20-15    | 24.5       | 39.18              | 2998             | 15         | 31          | 460 (S0)    |

Remark:  
 1.Right type is optional.  
 2.The dimension in the bracket is for IP55 motor.

## Cabin Fan



| Model  | Air flow m <sup>3</sup> /min | Air flow Regulator | Noise dB (A) | Power (W) | Power Source (Vca) |
|--------|------------------------------|--------------------|--------------|-----------|--------------------|
| FAN10  | 4.8(+/-0.5)                  | NO                 | ≤ 45         | 25        | 220                |
| FAN20* | 6.2(+/-0.5)                  | YES                | ≤ 45         | 25        | 220                |

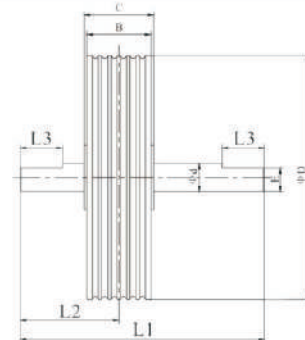
\*This comes with a regulator

## Light Curtain (154 Beams, Bi-Volt)



| Model      | No. of Beams | Audible Alarm activation with linked Key | Contacts   | Power Source (Vca) |
|------------|--------------|--|------------|--------------------|
| LCT-A94DV  | 94           | YES                                      | 1NO + 1 NC | 220                |
| LCT-A154DV | 154          | YES                                      | 1NO + 1 NC | 220                |

## Deflector Sheaves

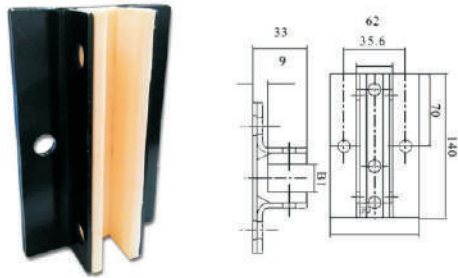


| Model           | No. of Grooves | Dia. of Rope | Pitch | Dia.(D) | Width(B) | Shaft Dia.(d) | Shaft End Dimension(E) | L1  | L2  | L3 |
|-----------------|----------------|--------------|-------|---------|----------|---------------|------------------------|-----|-----|----|
| DSV-320-6U8-IS  | 6              | 8            | 12    | 320     | 92       | 60            | 50                     | 400 | 200 | 72 |
| DSV-400-6U10-IS | 6              | 10           | 16    | 400     | 110      | 60            | 50                     | 400 | 200 | 72 |
| DSV-480-4U12-IS | 4              | 12           | 18    | 480     | 84       | 60            | 50                     | 400 | 200 | 73 |
| DSV-520-6U13-IS | 6              | 13           | 20    | 520     | 130      | 60            | 50                     | 400 | 200 | 73 |
| DSV-520-8U13-IS | 8              | 13           | 20    | 520     | 173      | 75            | 65                     | 400 | 200 | 73 |
| DSV-640-8U16-IS | 8              | 16           | 25    | 640     | 211      | 90            | 80                     | 400 | 200 | 73 |

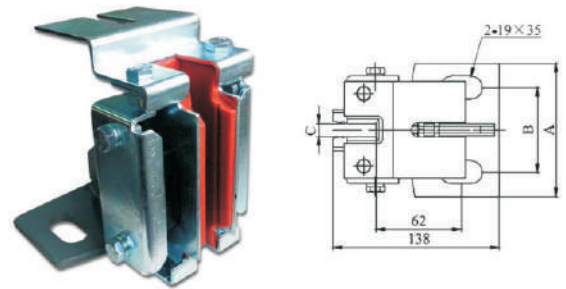
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# Guide Shoes

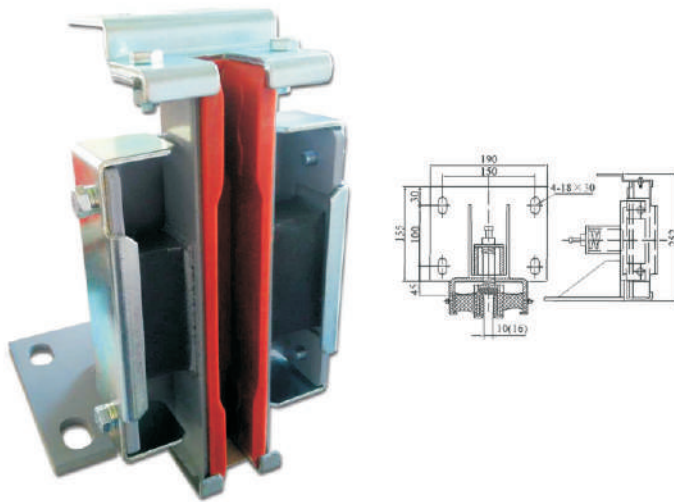
GSS-20



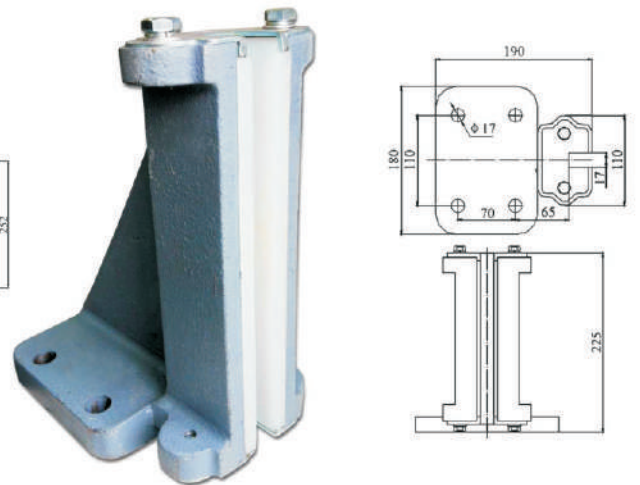
GSS-21



GSS-23



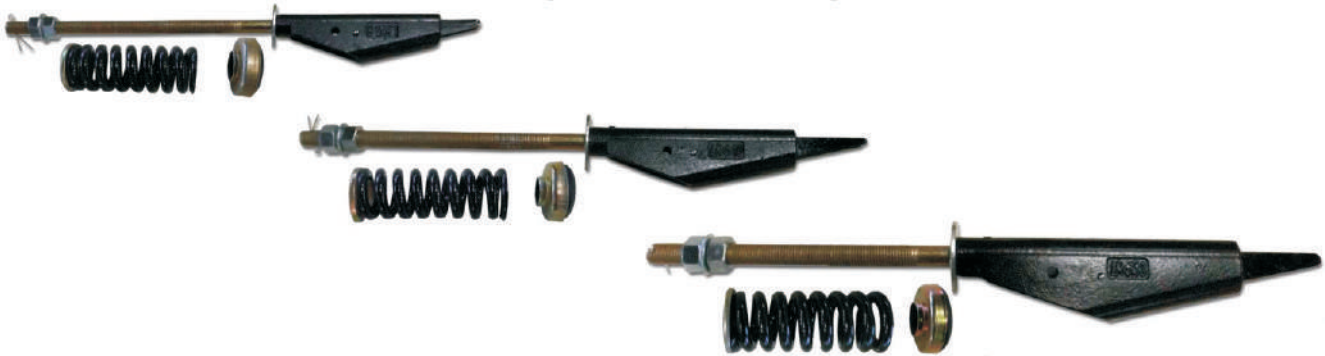
GSS-24



| Model           | Load (Kg) | Maximum Rated Speed (m/s) | Guide Size (mm) |
|-----------------|-----------|---------------------------|-----------------|
| GSS-20-2P5-10MM | 1.250     | ≤ 2.50                    | 10              |
| GSS-20-2P5-16MM | 1.250     | ≤ 2.50                    | 16              |
| GSS-21-2P0-10MM | 1.250     | ≤ 2.00                    | 10              |
| GSS-21-2P0-16MM | 1.250     | ≤ 2.00                    | 16              |
| GSS-23-2P0-10MM | 1.600     | ≤ 2.00                    | 10              |
| GSS-23-2P0-16MM | 1.600     | ≤ 2.00                    | 16              |
| GSS-24-0P6-10MM | 2.500     | ≤ 0.63                    | 10              |
| GSS-24-0P6-16MM | 2.500     | ≤ 0.63                    | 16              |

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## Wedge Sockets (Rope Thimble)



| Model       | Description                   |
|-------------|-------------------------------|
| WSK-8MM     | Rod for steel ropes 8 mm      |
| WSK-8MM-SS  | Steel rod Kit for 8 mm ropes  |
| WSK-10MM    | Rod for steel ropes 10 mm     |
| WSK-10MM-SS | Steel rod Kit for 10 mm ropes |
| WSK-13MM    | Rod for steel ropes 13 mm     |
| WSK-13MM-SS | Steel rod kit for 13 mm ropes |
| WSK-16MM    | Rod for steel ropes 16 mm     |
| WSK-16MM-SS | Steel rod Kit for 16 mm ropes |

## Ropes for Traction Elevators

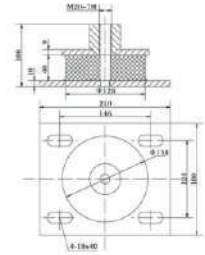


| Model                  | Description                                     | Coil length |
|------------------------|---|-------------|
| ROP-H8mm-FC8X19-1000m  | Cable diameter 8 mm, Rope construction 8 x 19   | 1000        |
| ROP-H10mm-FC8X19-1000m | Cable diameter 10 mm, formation of ropes 8 x 19 | 1000        |
| ROP-H12mm-FC8X19-1000m | Cable diameter 12 mm, formation of ropes 8 x 19 | 1000        |
| ROP-H13mm-FC8X19-1000m | Cable diameter 13 mm, formation of ropes 8 x 19 | 1000        |
| ROP-H16mm-FC8X19-1000m | Cable diameter 16 mm, formation of ropes 8 x 19 | 1000        |

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## Isolation Pads for Machine Bedplate



| Model   | Max Capacity (Kg) | Hardness | Deformation | Agglutinated Power     |
|---------|-------------------|----------|-------------|------------------------|
| RBISN-A | 6000              | HS70±5   | 2mm/1200Kg  | ≥ 25Kg/cm <sup>2</sup> |

## Polyurethane Buffers (Car /Counterweight)



| Model       | Capacity (Kg) | Maximum Rated Speed (m/s) | Height (mm) |
|-------------|---------------|---------------------------|-------------|
| UBF10-101PO | 1000          | < 1.00                    | 96          |
| UBF10-161PO | 1600          | ≤ 1.00                    | 160         |
| UBF10-281PO | 2800          | ≤ 1.00                    | 192         |

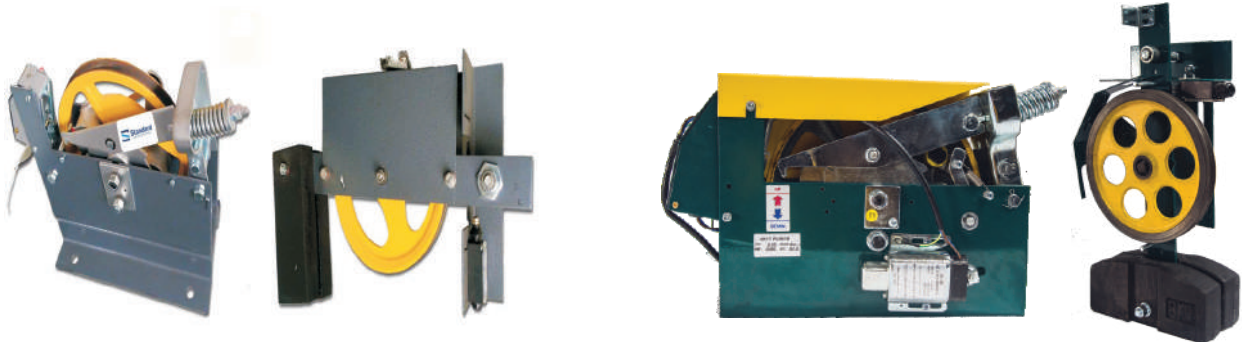
## Oil Buffers (Car/Counterweight)



| Model       | Load Capacity (Kg) | Maximum Rated Speed (m/s) | Buffer stroke (mm) | Total Height (mm) |
|-------------|--------------------|---------------------------|--------------------|-------------------|
| OBF11-251P0 | 400 - 2500         | ≤ 1.00                    | 70                 | 305               |
| OBF11-351P5 | 250 - 3500         | ≤ 1.50                    | 155                | 460               |
| OBF11-351P7 | 400 - 3500         | ≤ 1.75                    | 207                | 530               |
| OBF11-352P0 | 400 - 3500         | ≤ 2.00                    | 270                | 750               |
| OBF11-352P5 | 400 - 3500         | ≤ 2.50                    | 425                | 1100              |

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## Over Speed Governor with Tension Device



| Model        | Travel Height | Diameter of Pulley (mm) | Maximum Rated Speed(m/s) |
|--------------|---------------|-------------------------|--------------------------|
| GOV-0.5m/s   | ≤ 80m         | 241                     | ≤ 0.50                   |
| GOV-0.7m/s   | ≤ 80m         | 241                     | ≤ 0.75                   |
| GOV-1.0m/s   | ≤ 80m         | 241                     | ≤ 1.00                   |
| GOV-1.25m/s  | ≤ 80m         | 241                     | ≤ 1.25                   |
| GOV-1.5m/s*  | ≤ 80m         | 241                     | ≤ 1.50                   |
| GOV-1.75m/s* | ≤ 80m         | 241                     | ≤ 1.75                   |
| GOV-2m/s*    | ≤ 80m         | 241                     | ≤ 2.00                   |
| GOV-2.5m/s*  | ≤ 80m         | 241                     | ≤ 2.50                   |

\*Different Travel Height available

\*Machine Room & MRL options available

## Progressive Safety Gears

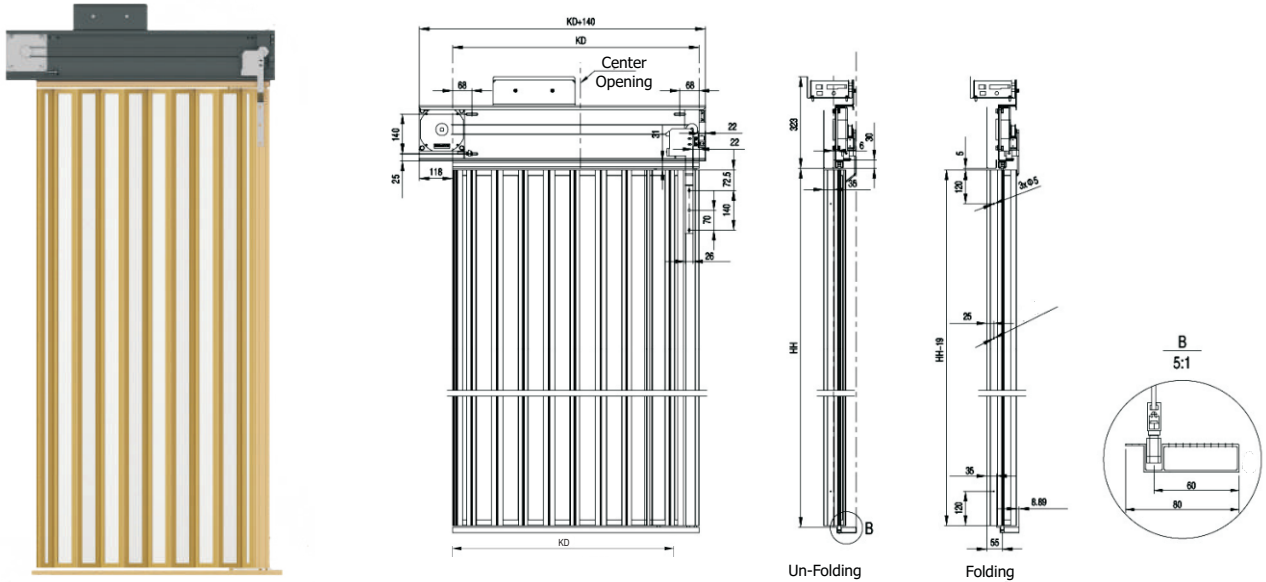


| Model            | Load Capacity (Kg) | Rated Speed (m/s) | Guide thickness(mm) |
|------------------|--------------------|-------------------|---------------------|
| SGR10-282P5-10mm | 1000-2800          | 0.25-2.50         | 10                  |
| SGR10-282P5-16mm | 1000-2800          | 0.25-2.50         | 16                  |
| SGR20-362P5-10mm | 3100-3600          | 0.25-2.50         | 10                  |
| SGR20-362P5-16mm | 3100-3600          | 0.25-2.50         | 16                  |

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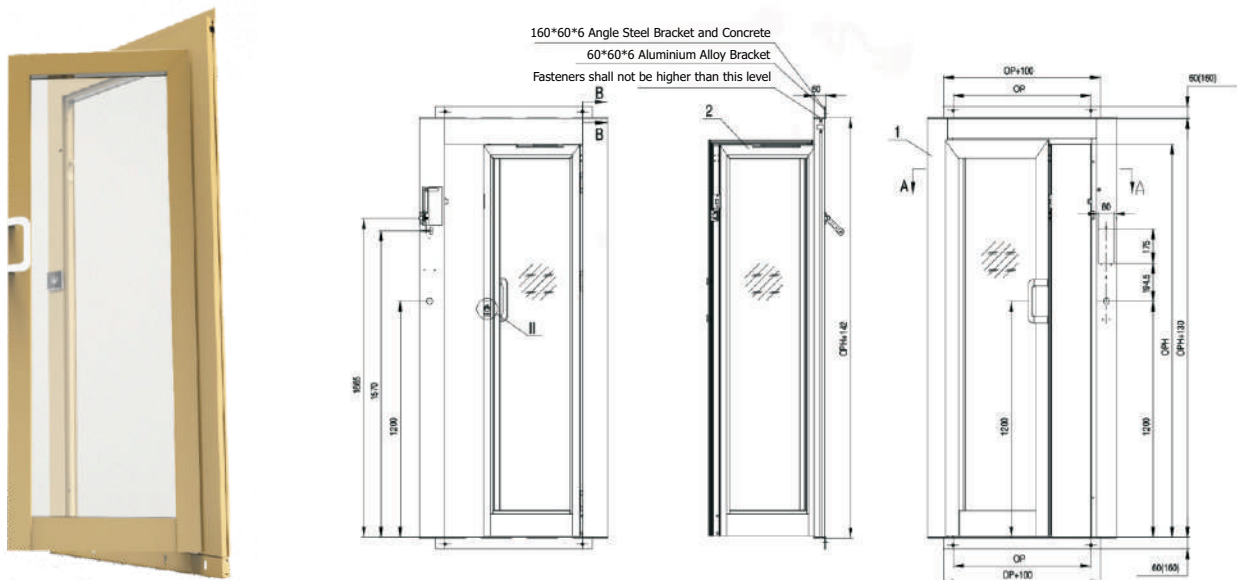
# Semi Automatic Door for Elevators

## Automatic Folding Car Door



| Clear Width of Car (KD)  | 800         | 850 | 900 | 950 | 1000 |
|--------------------------|-------------|-----|-----|-----|------|
| Clear Opening Width(JK)  | 600         | 650 | 700 | 750 | 800  |
| Clear Opening Height(HH) | 2000 - 2100 |     |     |     |      |

## Swing Door for Floor Landing

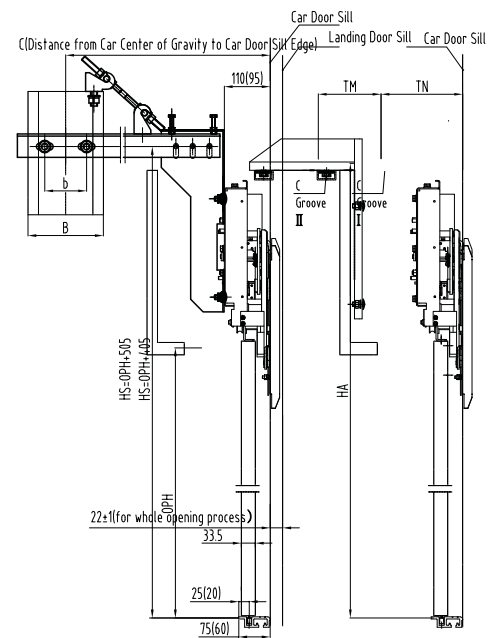
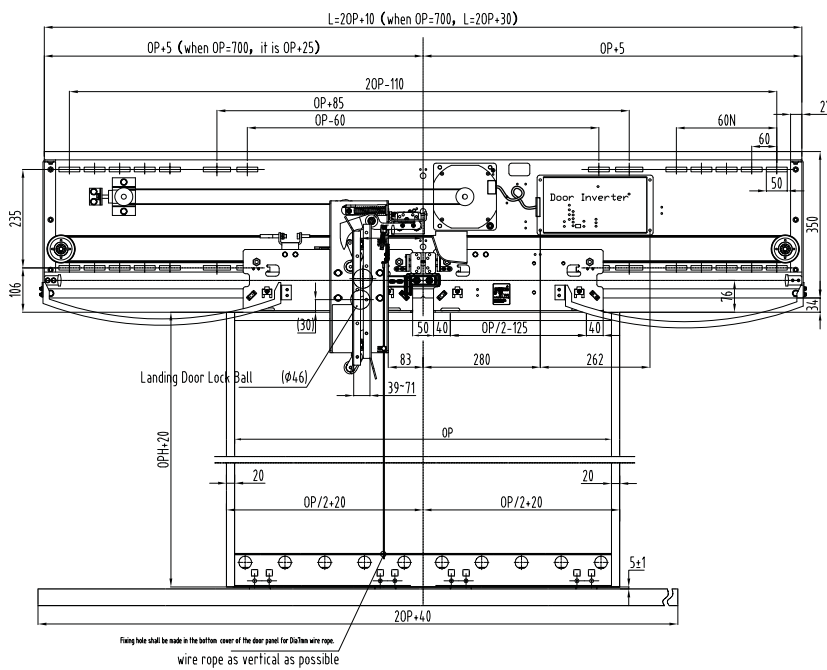
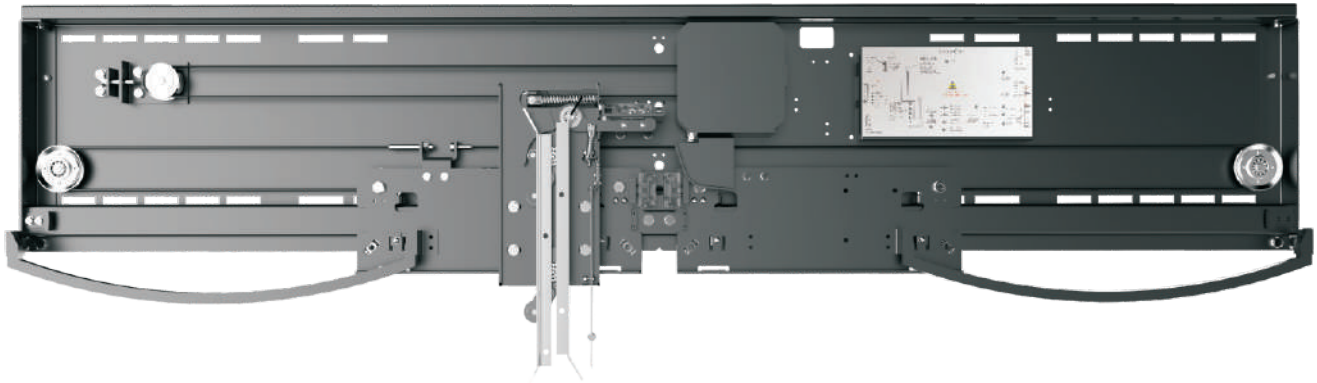


| Clear Opening Width(OP)   | 600         | 650 | 700 | 750 | 800 |
|---------------------------|-------------|-----|-----|-----|-----|
| Clear Opening Height(OPH) | 2000 - 2100 |     |     |     |     |

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# Car Door Operator - Center Opening

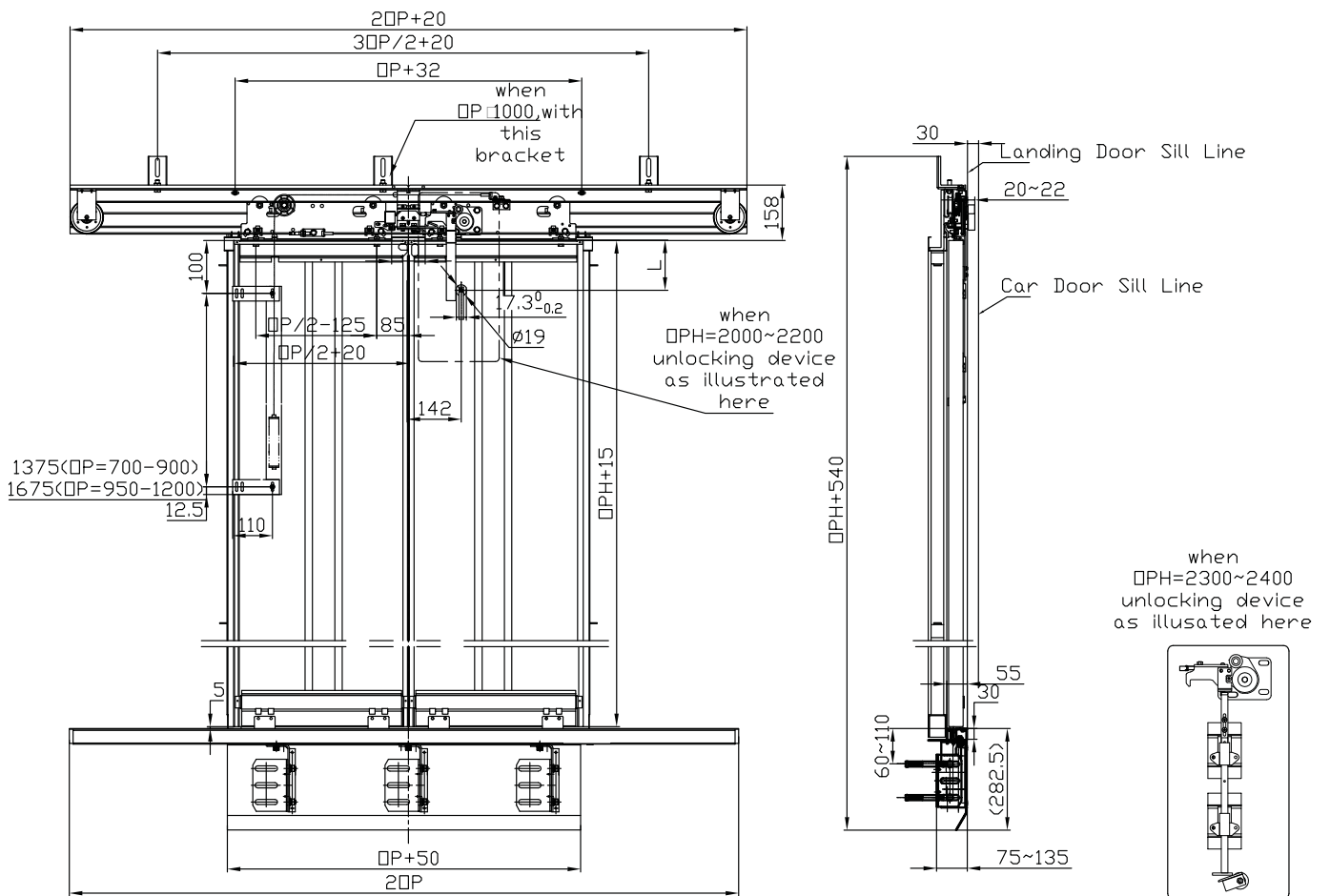
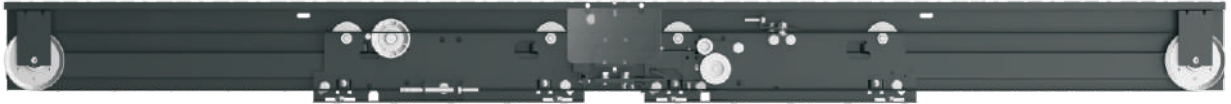


| OPENING | 700  | 750  | 800  | 850  | 900  | 950  | 1000 | 1050 | 1100 | 1150 | 1200 |
|---------|------|------|------|------|------|------|------|------|------|------|------|
| L       | 1430 | 1510 | 1610 | 1710 | 1810 | 1910 | 2010 | 2110 | 2210 | 2310 | 2410 |
| N       | 2    | 2    | 3    | 3    | 4    | 4    | 5    | 5    | 5    | 6    | 6    |

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# Landing Door Header - Center Opening



| OPENING | 700 ~ 1200 |      |      |      |      |
|---------|------------|------|------|------|------|
| OPH     | 2000       | 2100 | 2200 | 2300 | 2400 |
| L       | 134        | 134  | 334  | 434  | 434  |

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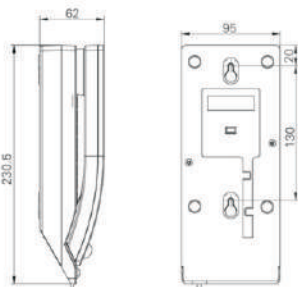


# Intercom

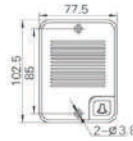


- LONG DISTANCE COMMUNICATION
- SOLUTIONS FOR UP TO 99 ELEVATORS
- DIGITAL
- EASY ADDRESSING

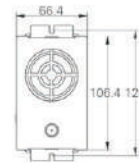
## External Dimensions



INT-B-PRINCIPAL

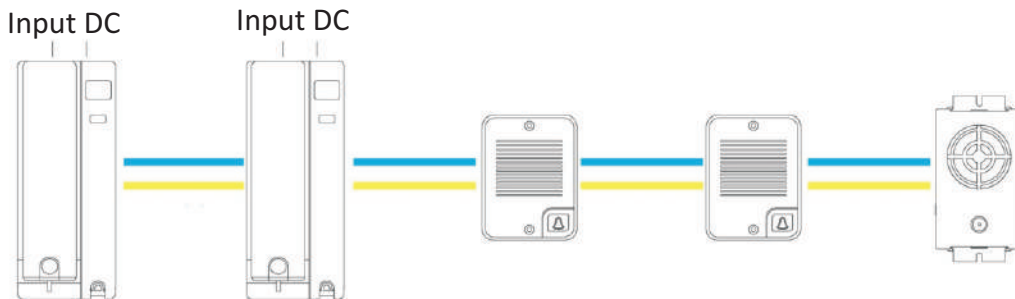


INT-EXT



INT-CAB

## Modes of Connections

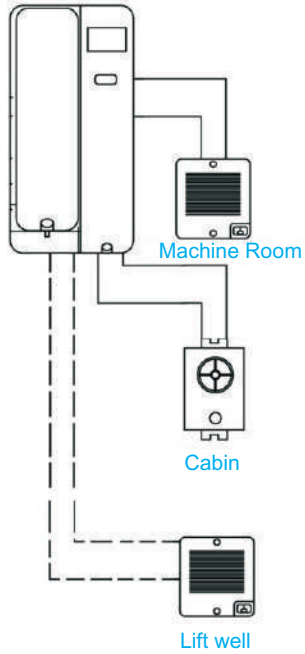


\*This system can perform 2 to 5 forms of communication.

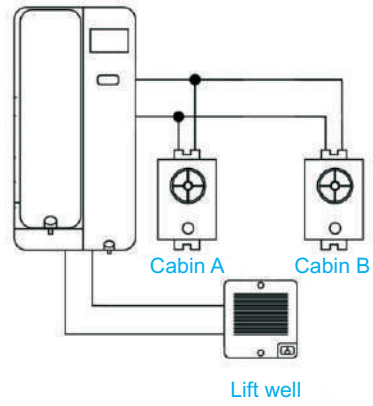
| Name                      | Item            | Quantity | Position of Installation |
|---------------------------|-----------------|----------|--------------------------|
| CENTRAL DIGITAL PRINCIPAL | INT-A-MASTER    | 1        | RECEPTION                |
| PRINCIPAL                 | INT-B-PRINCIPAL | 1        | MACHINE ROOM             |
| CABIN EXTENSION           | INT-CAB         | 1        | CABIN                    |
| SHAFT EXTENSION           | INT-EXT         | 1        | TOP OF CABIN             |
| SOURCE UPS                | INT-PS          | 1        | -                        |

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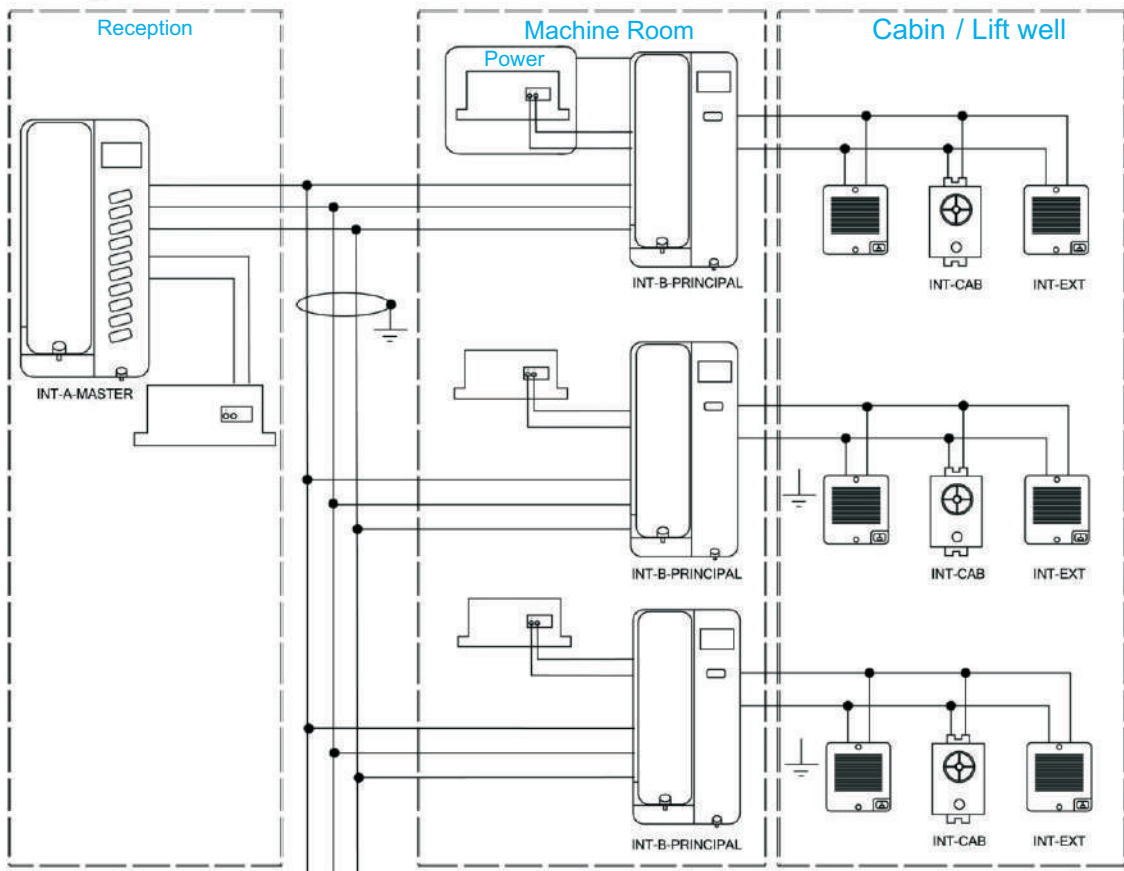
### Simplex



### Duplex

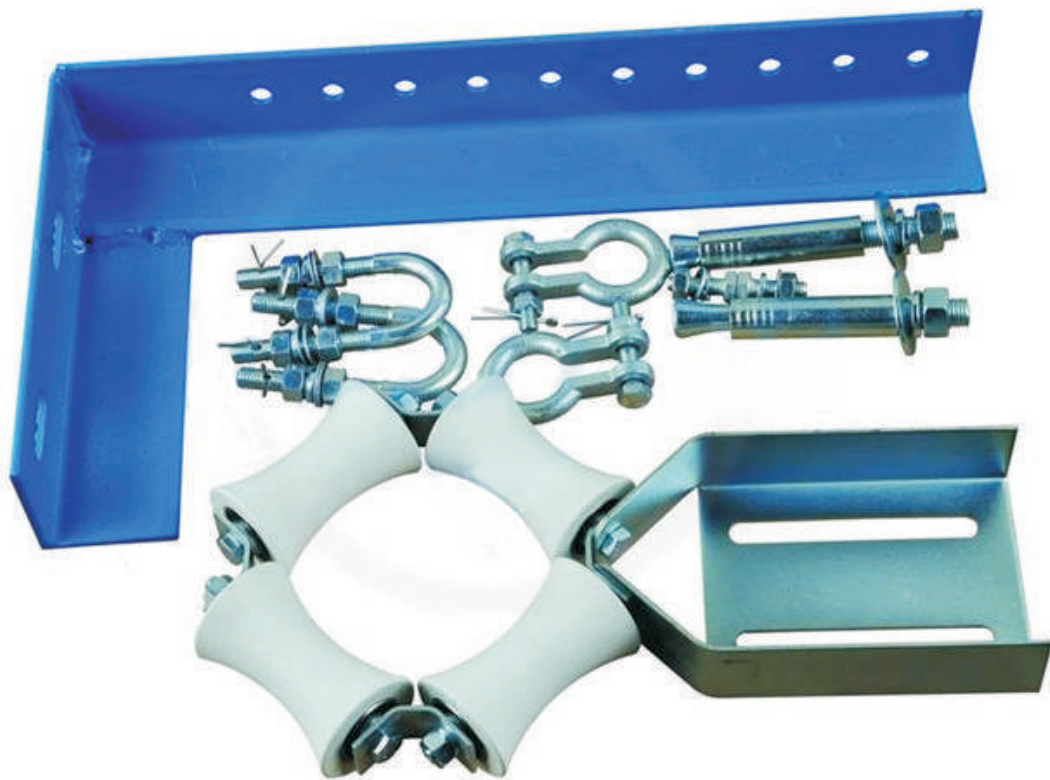


### Multiplex



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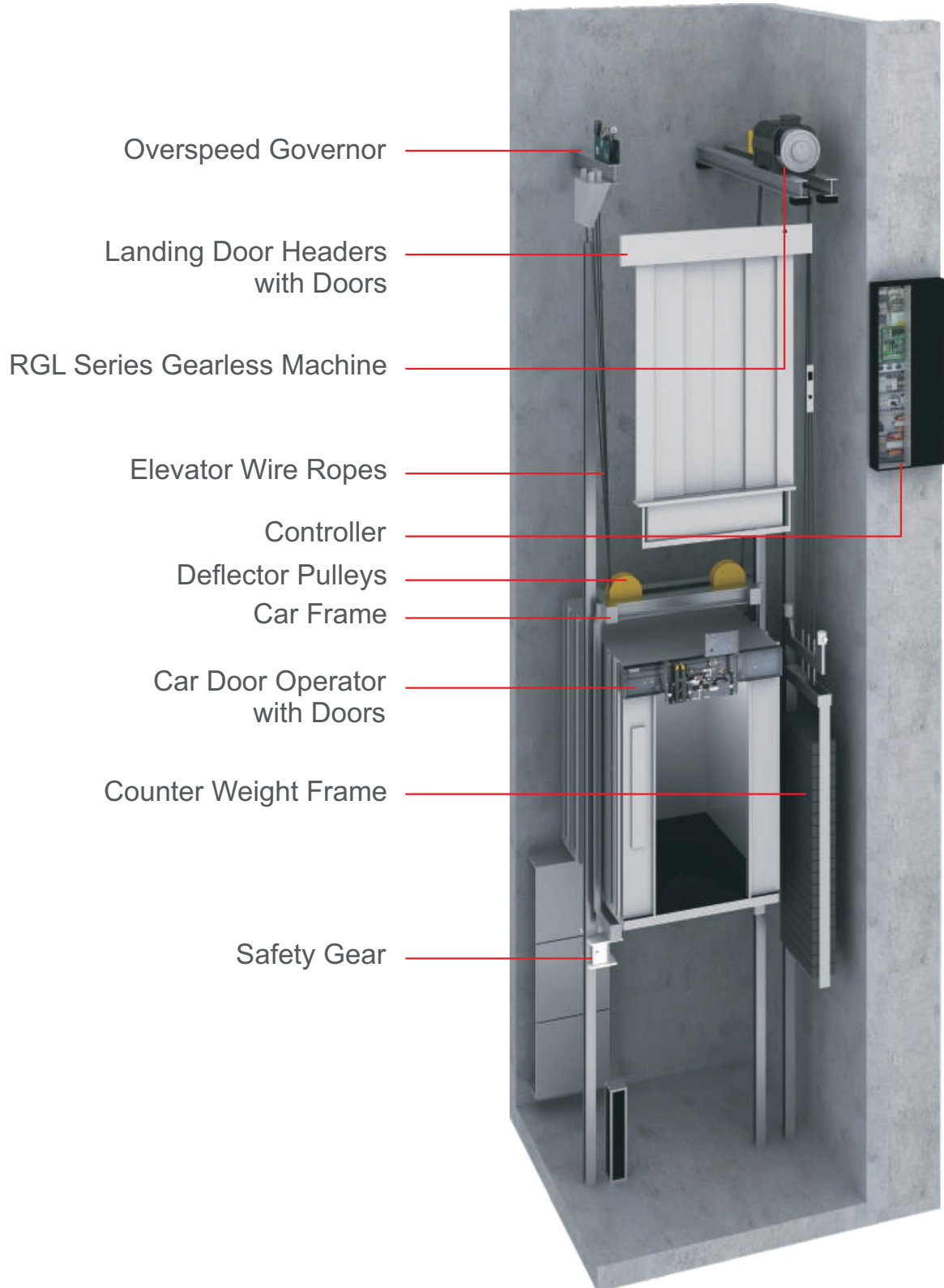
## Compensating Chain:



| Model No.  | Unit Weight (kg/m) | Width (mm)     | Bending Diameter ( $\pm 50.0$ mm) | Diameter of link (mm) | Breaking Load (KN) | Maximum Hanging Length (m) |
|------------|--------------------|----------------|-----------------------------------|-----------------------|--------------------|----------------------------|
| TDI-CC-050 | 0.88 $\pm$ 0.20    | 21.0 $\pm$ 2.0 | 280                               | 6.0 $\pm$ 0.5         | 15.63              | 154                        |
| TDI-CC-075 | 1.12 $\pm$ 0.20    | 26.0 $\pm$ 2.0 | 280                               | 7.0 $\pm$ 0.5         | 18.13              | 165                        |
| TDI-CC-100 | 1.49 $\pm$ 0.20    | 29.0 $\pm$ 2.0 | 300                               | 8.0 $\pm$ 0.5         | 23.68              | 162                        |
| TDI-CC-125 | 1.88 $\pm$ 0.20    | 32.0 $\pm$ 2.0 | 300                               | 9.0 $\pm$ 0.5         | 29.97              | 162                        |
| TDI-CC-150 | 2.24 $\pm$ 0.20    | 36.0 $\pm$ 2.0 | 300                               | 10.0 $\pm$ 0.5        | 37.00              | 168                        |
| TDI-CC-200 | 2.98 $\pm$ 0.20    | 39.0 $\pm$ 2.0 | 300                               | 11.0 $\pm$ 0.5        | 44.70              | 153                        |
| TDI-CC-225 | 3.20 $\pm$ 0.20    | 43.0 $\pm$ 2.0 | 300                               | 12.0 $\pm$ 0.5        | 53.28              | 169                        |
| TDI-CC-250 | 3.73 $\pm$ 0.20    | 46.0 $\pm$ 2.0 | 300                               | 13.0 $\pm$ 0.5        | 62.53              | 171                        |
| TDI-CC-300 | 4.47 $\pm$ 0.20    | 50.0 $\pm$ 2.0 | 320                               | 14.0 $\pm$ 0.5        | 69.93              | 159                        |

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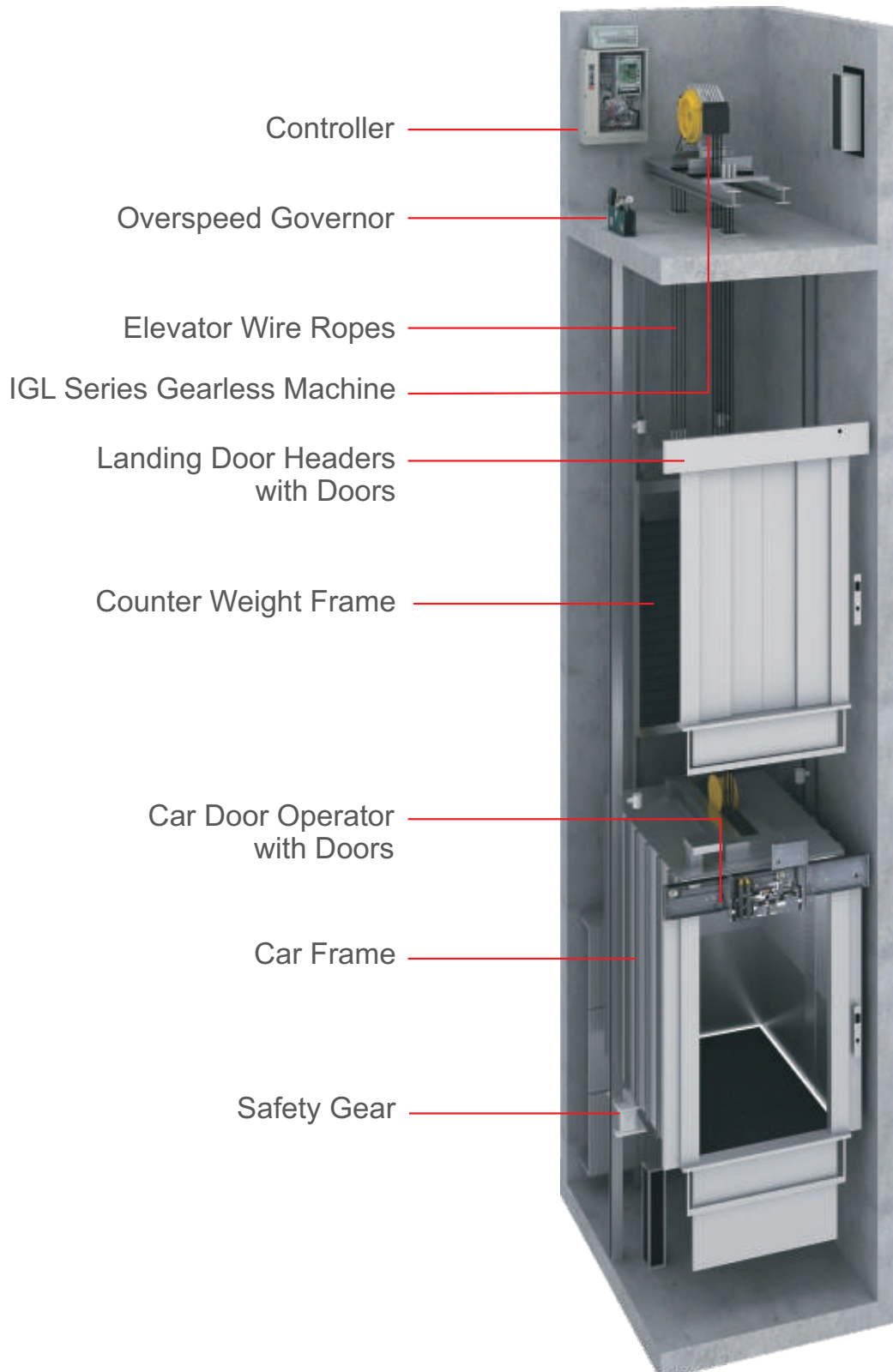
## Elevators Complete Solution - MRL



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## Elevators Complete Solution - MR

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