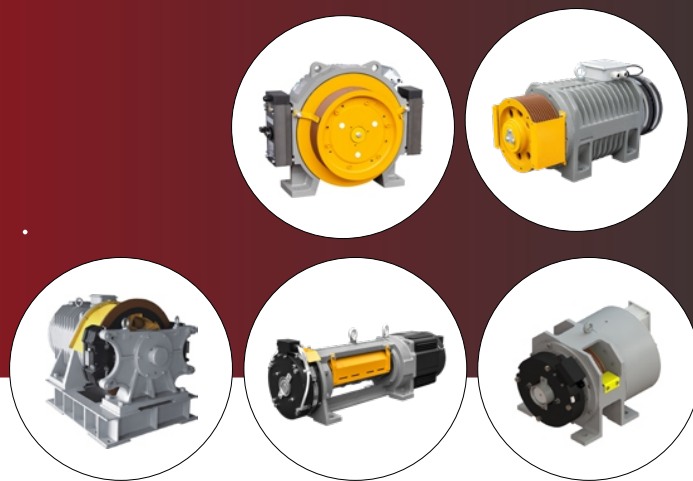


TORINDRIVE

GEARLESS

TRACTION MACHINE



CATALOG 2025

SOUTH AFRICA

COMPANY PROFILE

Torin Drive is a professional manufacturer of traction machines, efficient PM motors ,escalator and complete elevators. It started to serve the elevator compamies from 1985, and devoted to push the innovation of traction machine technology. It has become the pioneer and global leader in the field. It is responsible for drafting National Standard of Elevator Traction Machine.

Torin Drive owns the core technologies such as PM motor and high-efficient transmission . It has a full range of products with more than 80 specifications and 800 types, including PM synchronous gearless traction machine, worm gear traction machine,, escalator traction machine and other elevator components, which meet the standards of Asia, Europe, America .

Each day, more than 1.5 million Torin Drive machines are running throughout the globe.



CONTENTS

TDA-IGL SERIES

- TDA-IGL15
- TDA-IGL21N
- TDA-IGL21L
- TDA-IGL21XL
- TDA-IGL21TL
- TDA-IGL36
- TDA-IGL54
- TDA-IGL55
- TDA-IGL60

TDA- IBM SERIES (BELT)

- TDA-IBM05

TDA-RGL SERIES

- TDA-RGL00
- TDA-RGL15
- TDA-RGL21N
- TDA-RGL25N
- TDA-RGL35
- TDA-RGL40

HOME LIFT

- TDA-HGL00
- TDA-HGL20
- TDA-SDM05
- TDA-SDM10

OUR STANDARD COLOURS

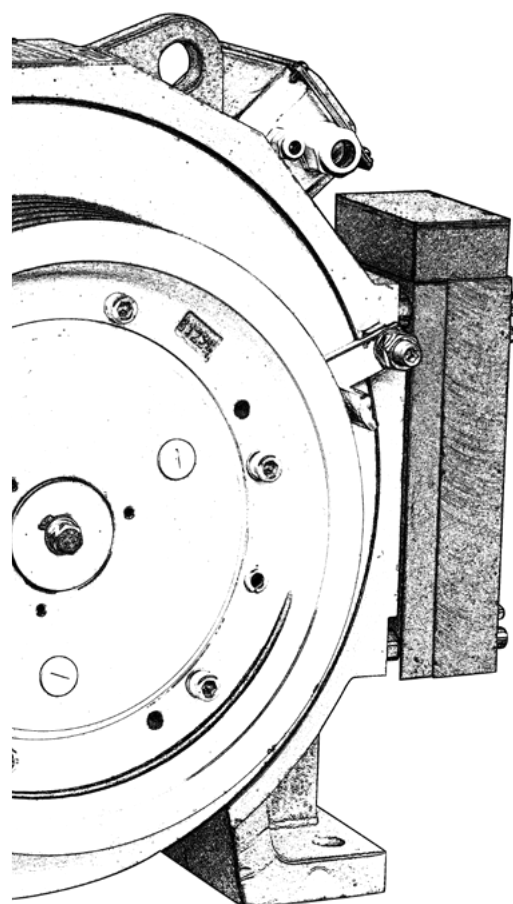
RAL5017

BLUE

CATALOG

TDA-IGL^{SERIES}

GEARLESS TRACTION MACHINE

**TORIN DRIVE**

CUSTOMER-CENTRIC INNOVATION

RECOMMENDATION (TDA-IGL SERIES)

Capacity	1.0	1.5	1.7	2.0	2.5	3.0	4.0	5.0-8.0
408	TDA-IGL15							
544								
680	TDA-IGL15 or TDA-IGL21N	TDA- IGL21N						
884	TDA-IGL21N							
1088								
1156								
1292	TDA-IGL21L			TDA-IGL21XL	TDA-IGL21TL	TDA-IGL54		
1360	TDA-IGL21L		TDA-IGL21XL					
1600	TDA-IGL21XL				TDA-IGL21TL	TDA-IGL54	TDA-IGL60	
2000								
2500	TDA-IGL21TL or TDA-IGL36							
3000	TDA-IGL36 or TDA-IGL55							
4000	TDA-IGL55							
5000								

GEARLESS MACHINE STANDARD

1. Torin Drive gearless machine Part Number illustration

Example:

TDA-IGL15-
Model#

5
Capacity
(544 Kg)

1P0-
Speed
(1 M/S)

8mm
Rope Dia

2.All gearless machines are **CE compliant and certified.**

3.All motors are designed for **180 starts per hour at 40 % duty cycle and 2:1 roping.**

4.TDA-IGL60 Model is designed for 180 starts at 60 % Duty Cycle.

5.All motors are designed with **F Class insulation** and with Ingress Protection Rating of **IP41**.

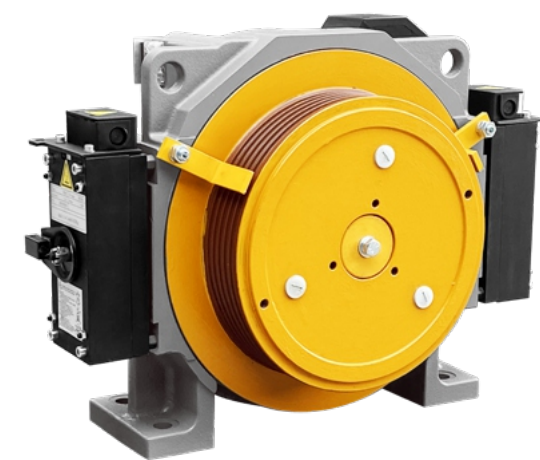
6.All machines are designed with **counter weight ratio of between 45% to 50 %**.

- (For 1 :1 roping applications with gearless machines, please consult **Torin Drive** sales representative.)

7.All machines are preinstalled with encoders (Heidenhain ERN1387 or equivalent).

8. Standard gearless machines are at 380VAC. Special machines with 220VAC are available for certain models..

9.All Machines come with **Test Certificate** and copy of **operation manual** attached to the machine.



TDA-IGL15

ELEVATOR TRACTION MACHINE

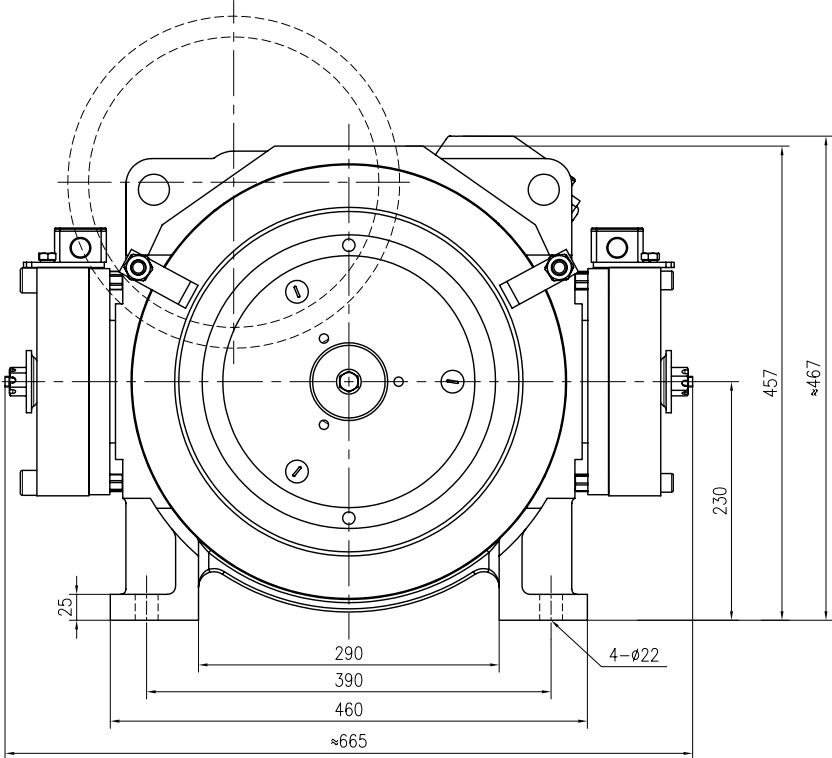
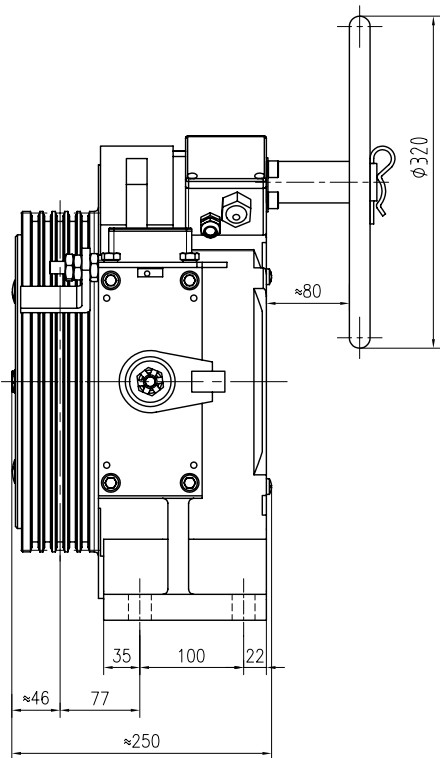
Suspension	2 : 1
Voltage	380V
Pole	32
Rating	S5 (40%)
INS. Class	F
IP Code	IP41
FZD10 Brake	DC110V 2×0.84A (408 Kg) DC110V 2×1.46A (544 Kg)
Max. Static Load	2000 kg
Weight	190 kg



TECHNICAL DATA

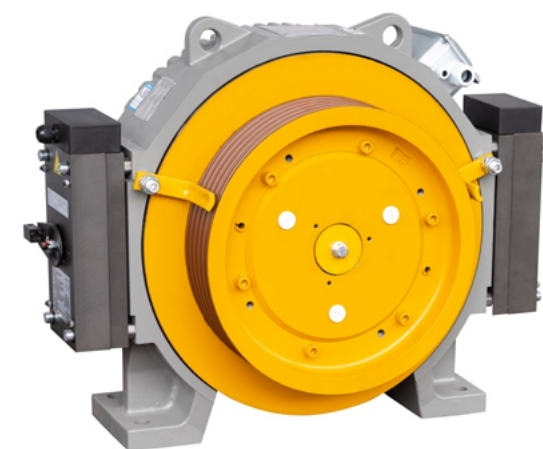
Spec	Load (kg)	Lift Speed (m/s)	Sheave Dia.(mm)	Rope Groove (mm)	Current (A)	Torque (Nm)	Rated Speed (rpm)	Frequency (Hz)	Power (kW)
TDA-IGL15-41P0-8MM	408	1.0	ø 325	4xø8x12	8.3	265	118	31.5	3.3
TDA-IGL15-51P0-8MM		1.0			8.6	290	118	31.5	3.6
TDA-IGL15-51P5-8MM	544	1.5	ø 325	5xø8x12	12.4	290	177	47.2	5.4
TDA-IGL15-51P7-8MM		1.7			14.3	290	206	54.9	6.3
TDA-IGL15-61P0-8MM		1.0			9.6	325	118	31.5	4
TDA-IGL15-61P5-8MM	680	1.5	ø 325	5xø8x12	13.9	325	177	47.2	6
TDA-IGL15-61P7-8MM		1.7			16	325	206	54.9	7

DIMENSIONS



REMARK

1. For machine room less, the standard configuration of this machine does not include manual brake release. Customers are required to provide their own electric brake release device. The manual brake release is optional to provide if the customers need it.

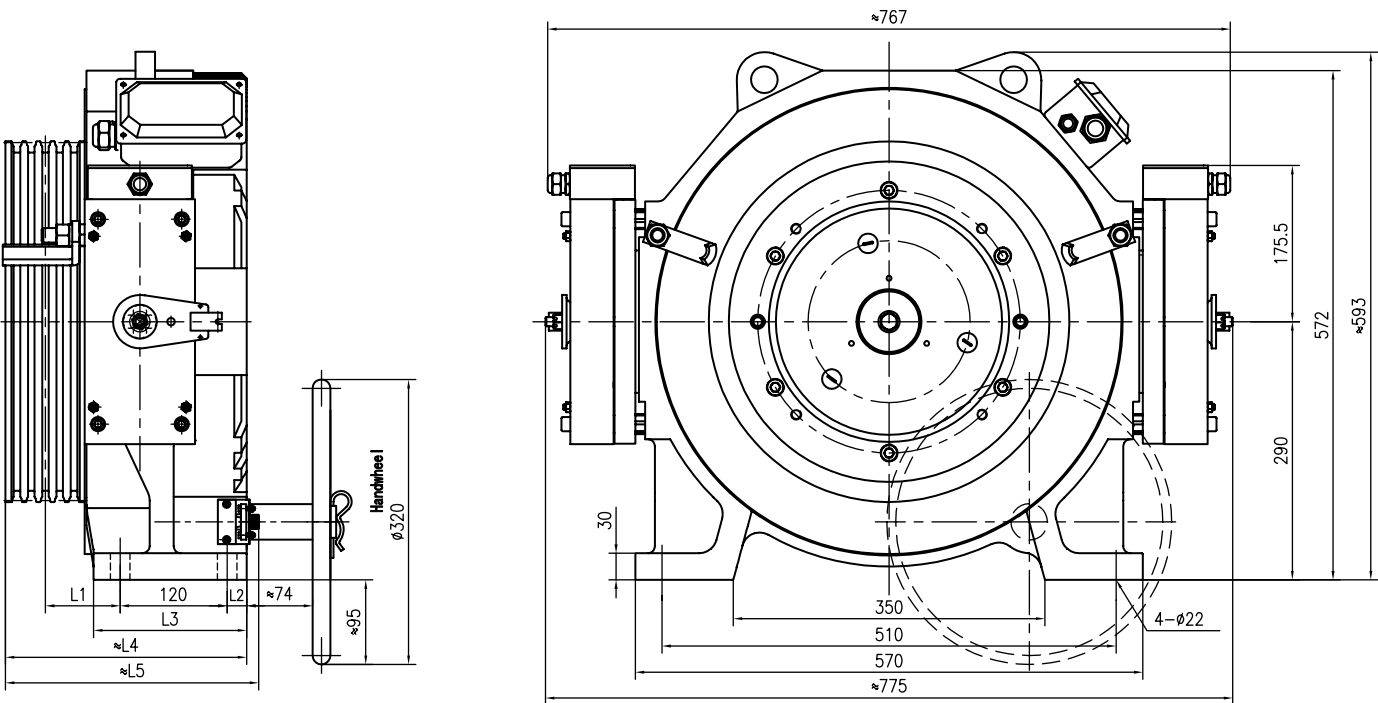


TDA-IGL21N

ELEVATOR TRACTION MACHINE

Suspension	2 : 1
Voltage	380V
Pole	32
Rating	S5 (40%)
INS. Class	F
IP Code	IP41
FZD12AB Brake	DC110V 2×1.28A
Max. Static Load	3000 kg
Weight	315 kg

DIMENSIONS

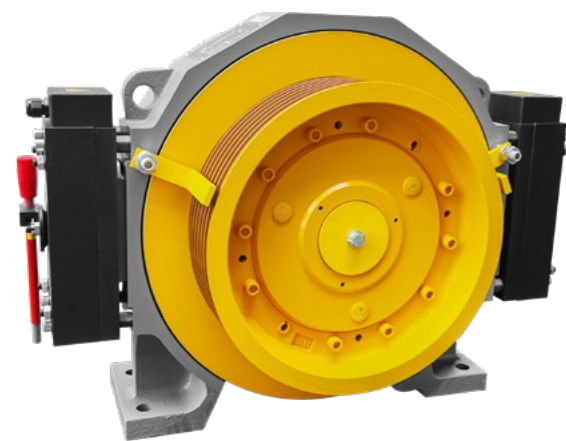


TECHNICAL DATA

Spec	Load (kg)	Lift Speed (m/s)	Sheave Dia.(mm)	Rope Groove (mm)	Current (A)	Torque (Nm)	Rated Speed (rpm)	Frequency (Hz)	Power (kW)	Length L1	Length L2	Length L3	Length L4	Length L5
TDA-IGL21N-61P0-10MM	680	1.0	Ø400	4×Ø10×16	9.7	420	96	25.6	4.2	84	22	172	271	285
TDA-IGL21N-61P5-10MM		1.5			14.9	420	144	38.4	6.3					
TDA-IGL21N-61P7-10MM		1.7			15.9	420	167	44.5	7.3					
TDA-IGL21N-62P0-10MM		2.0			18.3	420	192	51.2	8.4					
TDA-IGL21N-81P0-10MM	884	1.0	Ø400	5×Ø10×16	12.1	530	96	25.6	5.3	84	22	172	271	285
TDA-IGL21N-81P5-10MM		1.5			18.8	530	144	38.4	8					
TDA-IGL21N-81P7-10MM		1.7			20.7	530	167	44.5	9.3					
TDA-IGL21N-82P0-10MM		2.0			23.2	530	192	51.2	10.7					
TDA-IGL21N-101P0-10MM	1088	1.0	Ø400	5×Ø10×16	14.7	650	96	25.6	6.5	84	22	172	271	285
TDA-IGL21N-101P5-10MM		1.5			22.9	650	144	38.4	9.8					
TDA-IGL21N-101P7-10MM		1.7			25.1	650	167	44.5	11.4					
TDA-IGL21N-102P0-10MM		2.0			28.2	650	192	51.2	13.1					
TDA-IGL21N-111P0-8MM	1156	1.0	Ø340	8×Ø8×12	17.2	650	112	29.9	7.6	92	44	192	309	323
TDA-IGL21N-111P5-8MM		1.5			26.3	650	168	44.8	11.4					
TDA-IGL21N-111P7-8MM		1.7			29.0	650	198	52.8	13.5					
TDA-IGL21N-112P0-8MM		2.0			33.1	650	225	60	15.3					

REMARK

For machine room less, the standard configuration of this machine does not include manual brake release. Customers are required to provide their own electric brake release device.
The manual brake release is optional to provide if the customer need it.

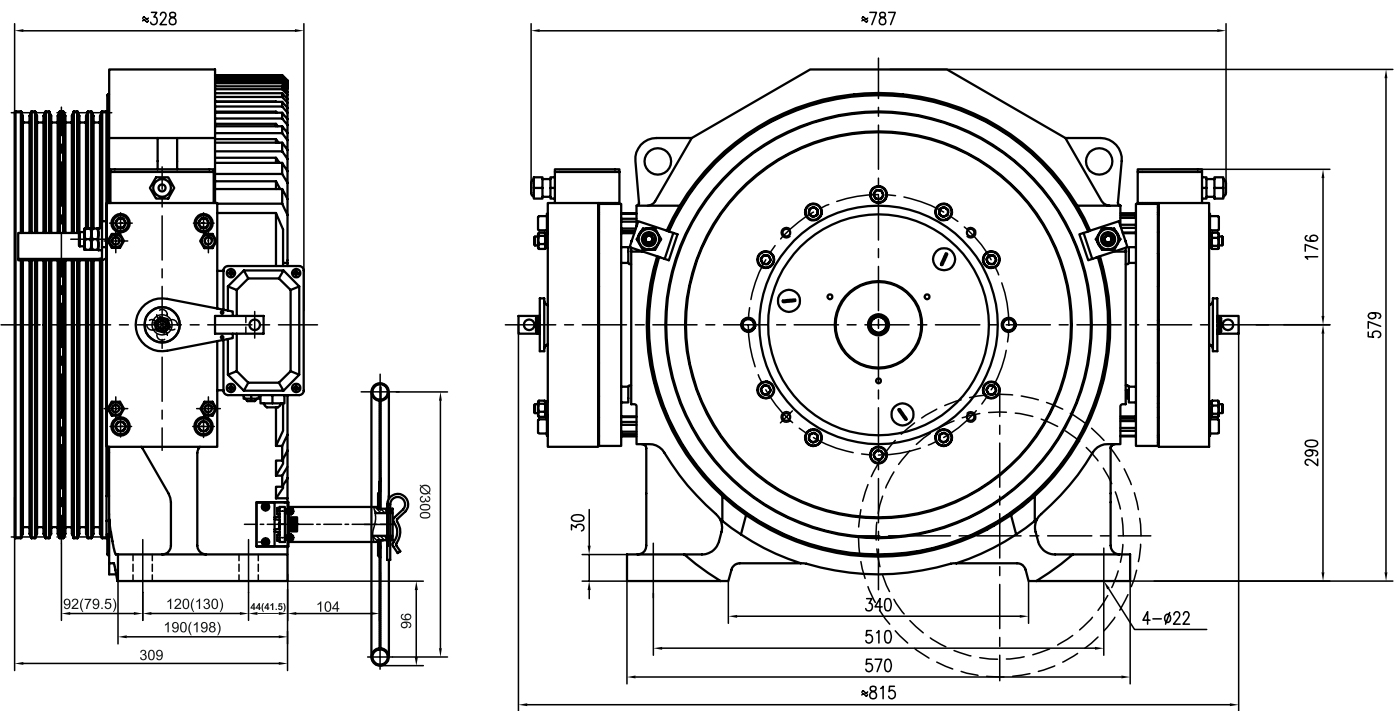


TDA-IGL21L

ELEVATOR TRACTION MACHINE

Suspension	2 : 1
Voltage	380V
Pole	32
Rating	S5 (40%)
INS. Class	F
IP Code	IP41
FZD12C Brake	DC110V 2×1.5A
Max. Static Load	3500 kg
Weight	350 kg

DIMENSIONS

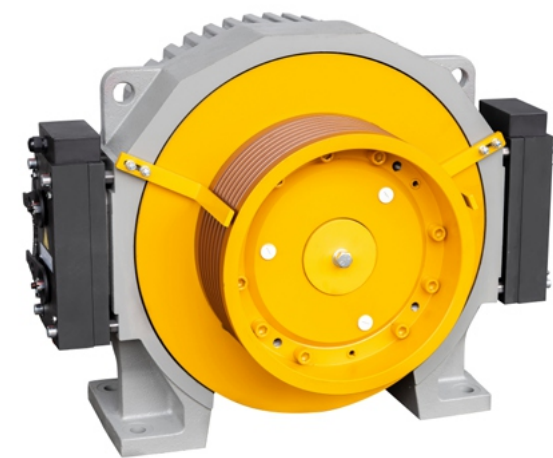


TECHNICAL DATA

Spec	Load (kg)	Lift Speed (m/s)	Sheave Dia.(mm)	Rope Groove (mm)	Current (A)	Torque (Nm)	Rated Speed (rpm)	Frequency (Hz)	Power (kW)
TDA-IGL21L-82P0-10MM	884	2.0	Ø480	5×Ø10×16	22.3	592	159	42.4	9.9
TDA-IGL21L-82P5-10MM		2.5			28.4	592	200	53.3	12.4
TDA-IGL21L-102P0-10MM	1088	2.0	Ø480	6×Ø10×16	30	780	159	42.4	13
TDA-IGL21L-102P5-10MM		2.5			35.6	780	200	53.3	16.3
TDA-IGL21L-111P0-10MM	1156	1.0	Ø400	6×Ø10×16	17	750	96	25.6	7.5
TDA-IGL21L-111P5-10MM		1.5			26	750	144	38.4	11.3
TDA-IGL21L-111P7-10MM		1.7			28	750	167	44.5	13.1
TDA-IGL21L-112P0-10MM		2.0			33	750	192	51.2	15.1
TDA-IGL21L-121P0-10MM	1292	1.0	Ø400	6×Ø10×16	18.5	810	96	25.6	8.1
TDA-IGL21L-121P5-10MM		1.5			28.3	810	144	38.4	12.2
TDA-IGL21L-121P7-10MM		1.7			30.3	810	167	44.5	14.2
TDA-IGL21L-122P0-10MM		2.0			35.6	810	192	51.2	16.3
TDA-IGL21L-131P0-A-10MM	1360	1.0	Ø400	6×Ø10×14	20.0	856	96	25.6	8.6
TDA-IGL21L-131P5-A-10MM		1.5			30.5	856	144	38.4	12.9
TDA-IGL21L-131P7-A-10MM		1.7			34.0	856	167	44.5	15.0

REMARK

For machine room less, the standard configuration of this machine does not include manual brake release. Customers are required to provide their own electric brake release device.
The manual brake release is optional to provide if the customer need it.
The dimension in bracket are for 1360Kg Machine.



TDA-IGL21XL

ELEVATOR TRACTION MACHINE

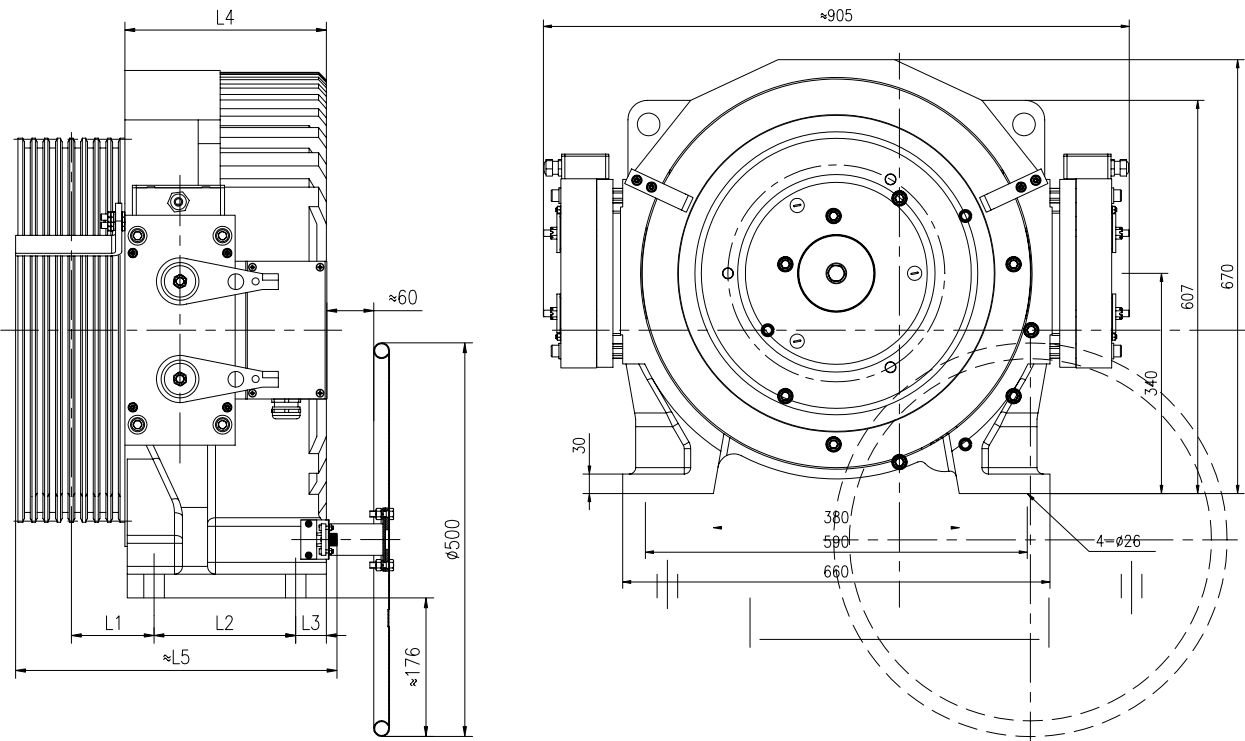
Suspension	2 : 1
Voltage	380V
Pole	32
Rating	S5 (40%)
INS. Class	F
IP Code	IP41
FZD14 Brake	DC110V 2×2A
Max. Static Load	6000 kg
Weight	580 kg



TECHNICAL DATA

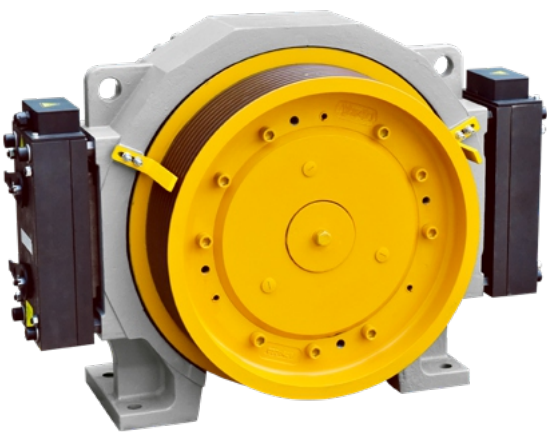
Spec	Load (kg)	Lift Speed (m/s)	Sheave Dia.(mm)	Rope Groove (mm)	Current (A)	Torque (Nm)	Rated Speed (rpm)	Frequency (Hz)	Power (kW)	L1	L2	L3	L4	L5
TDA-IGL21XL-131P0AS-10MM		1.0			21.3	910	93	24.8	8.9					
TDA-IGL21XL-131P5AS-10MM	1360	1.5	ø410	7×ø10×16	30.8	910	140	37.3	13.3	112	150	35	222	390
TDA-IGL21XL-131P7AS-10MM		1.7			36.3	910	163	43.5	15.5					
TDA-IGL21XL-132P0AS-10MM		2.0			42.4	910	186	49.6	17.7					
TDA-IGL21XL-161P0AS-10MM		1.0			26	1070	93	24.8	10.4					
TDA-IGL21XL-161P5AS-10MM	1600	1.5	ø410	8×ø10×16	35.6	1070	140	37.3	15.7	112	150	35	222	390
TDA-IGL21XL-161P7AS-10MM		1.7			41.2	1070	163	43.5	18.3					
TDA-IGL21XL-162P0A-10MM	1600	2.0	ø410	8×ø10×16	45.5	1070	186	49.6	20.8	112	180	39	256	424
TDA-IGL21XL-201P0A-10MM		1.0			28.4	1270	93	24.8	12.4					
TDA-IGL21XL-201P5A-10MM	2000	1.5	ø410	9×ø10×16	44.1	1270	140	37.3	18.6	112	180	39	256	424
TDA-IGL21XL-201P7A-10MM		1.7			47.3	1270	163	43.5	21.7					
TDA-IGL21XL-202P0A-10MM		2.0			54.4	1270	186	49.6	24.7					
TDA-IGL21XL-131P0-10MM		1.0			19.3	1070	79	21.1	8.9					
TDA-IGL21XL-131P5-10MM		1.5			29.5	1070	118	31.5	13.2	105	180	39	256	409
TDA-IGL21XL-131P7-10MM	1360	1.7	ø485	7×ø10×16	32.2	1070	138	36.8	15.5					
TDA-IGL21XL-132P0-10MM		2.0			37	1070	158	42.1	17.7					
TDA-IGL21XL-132P5-10MM		2.5			45.8	1070	197	52.5	22.1					
TDA-IGL21XL-161P0-10MM		1.0			22.8	1270	79	21.1	10.5					
TDA-IGL21XL-161P5-10MM		1.5			35.6	1270	118	31.5	15.7	105	180	39	256	409
TDA-IGL21XL-161P7-10MM	1600	1.7	ø485	8×ø10×16	38.7	1270	138	36.8	18.4					
TDA-IGL21XL-162P0-10MM		2.0			44.5	1270	158	42.1	21					
TDSAIGL21XL-162P5-10MM		2.5			55.7	1270	197	52.5	26.2					

DIMENSIONS



REMARK

For machine room less, the standard configuration of this machine does not include manual brake release. Customers are required to provide their own electric brake release device.
The manual brake release is optional to provide if customer need it.

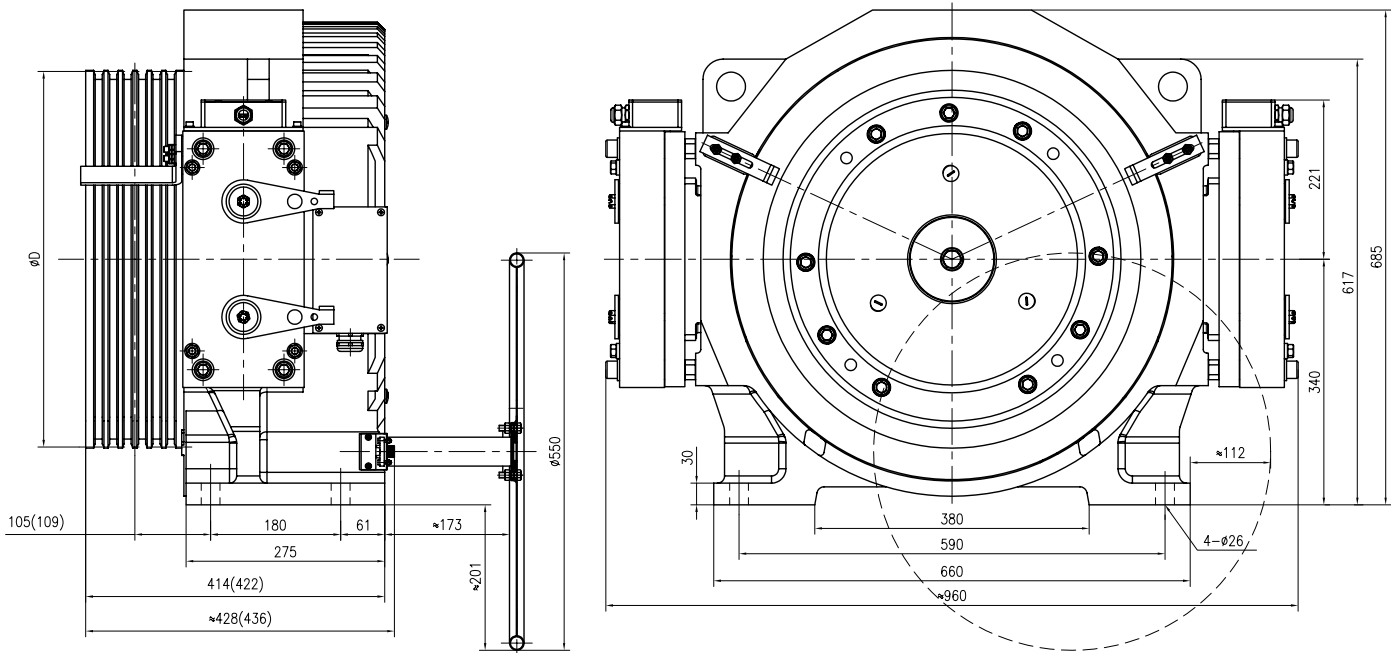


TDA-IGL21TL

ELEVATOR TRACTION MACHINE

Suspension	2 : 1
Voltage	380V
Pole	32
Rating	S5 (40%)
INS. Class	F
IP Code	IP41
FZD15 Brake	DC110V 2×2.2A
Max. Static Load	6000 kg
Weight	720 kg

DIMENSIONS



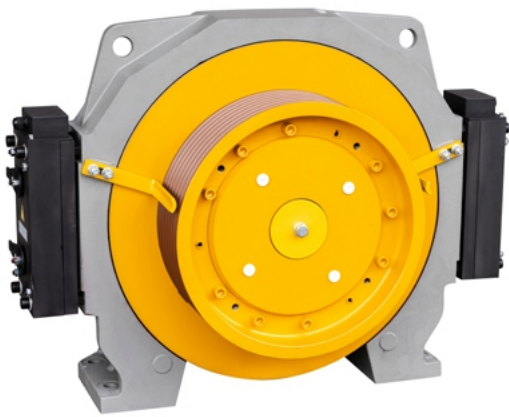
TECHNICAL DATA

Spec	Load (kg)	Lift Speed (m/s)	Sheave Dia.(mm)	Rope Groove (mm)	Current (A)	Torque (Nm)	Rated Speed (rpm)	Frequency (Hz)	Power (kW)
TDA-IGL21TL-123P0-10MM	1292	3.0	Ø550	6×Ø10×16	54.6	1125	208	55.5	24.5
TDA-IGL21TL-133P0-10MM	1360	3.0	Ø550	7×Ø10×16	58.6	1215	208	55.5	26.5
TDA-IGL21TL-163P0-10MM	1600	3.0	Ø550	8×Ø10×16	68	1440	208	55.5	31.4
TDA-IGL21TL-201P0-10MM		1.0			29.1	1520	79	21.1	12.6
TDA-IGL21TL-201P5-10MM		1.5			43.4	1520	118	31.5	18.8
TDA-IGL21TL-201P7-10MM	2000	1.7	Ø485	8×Ø10×16	48.6	1520	138	36.8	22
TDA-IGL21TL-202P0-10MM		2.0			55.5	1520	158	42.1	25.1
TDA-IGL21TL-202P5-10MM		2.5			69.2	1520	197	52.5	31.4
TDA-IGL21TL-251P0-10MM		1.0			34.8	1820	79	21.1	15.1
TDA-IGL21TL-251P5-10MM	2500	1.5	Ø485	9×Ø10×15	52	1820	118	31.5	22.5
TDA-IGL21TL-251P7-10MM		1.7			58.2	1820	138	36.8	26.3
TDA-IGL21TL-252P0-10MM		2.0			66.5	1820	158	42.1	30.1

REMARK

1. For machine room less, the standard configuration of this machine does not include manual brake release. Customers are required to provide their own electric brake release device. The manual brake release is optional to provide if the customer need it.
2. The dimension in bracket is applied to Ø485× 9×Ø10×15 or Ø520×7×Ø13×20 groove arrangement.

► TDA-IGL36



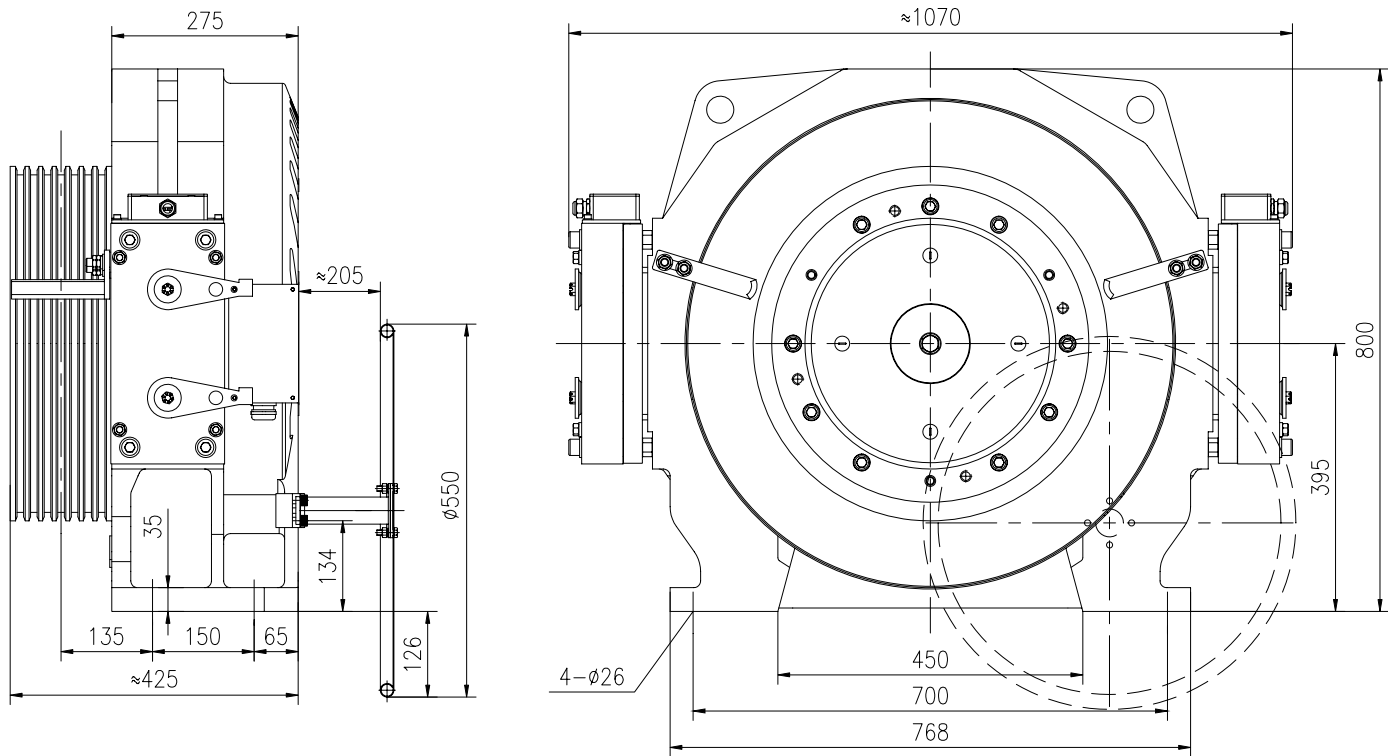
ELEVATOR TRACTION MACHINE

Suspension	2 : 1
Voltage	380V
Pole	32
Rating	S5 (40%)
INS. Class	F
IP Code	IP41
FZD15 Brake	DC110V 2×2.2A
Max. Static Load	8000 kg
Weight	910 kg

TECHNICAL DATA

Spec	Load (kg)	Lift Speed (m/s)	Sheave Dia.(mm)	Rope Groove (mm)	Current (A)	Torque (Nm)	Rated Speed (rpm)	Frequency (Hz)	Power (kW)
TDA-IGL36-201P0-13MM	2000	1.0	ø 520	6xø 13x20	29.2	1735	73	19.5	13.3
TDA-IGL36-201P7-13MM		1.7			48.7	1735	128	34.1	23.3
TDA-IGL36-202P0-13MM		2.0			54.6	1735	147	39.2	26.7
TDA-IGL36-251P0-13MM	2500	1.0	ø 520	7xø 13x20	35.7	2170	73	19.5	16.6
TDA-IGL36-251P7-13MM		1.7			59.8	2170	128	34.1	29.1
TDA-IGL36-252P0-13MM		2.0			68.3	2170	147	39.2	33.4
TDA-IGL36-301P0-12MM	3000	1.0	ø 485	8xø 12x18	44.5	2260	79	21.1	18.7
TDA-IGL36-301P7-12MM		1.7			72.5	2260	138	36.8	32.7
TDA-IGL36-252P0-12MM		2.0			83.0	2260	158	42.1	39.8

► DIMENSIONS



REMARK
For machine room less, the standard configuration of this machine does not include manual brake release. Customers are required to provide their own electric brake release device.
The manual brake release is optional to provide if the customer need it.



TDA-IGL54

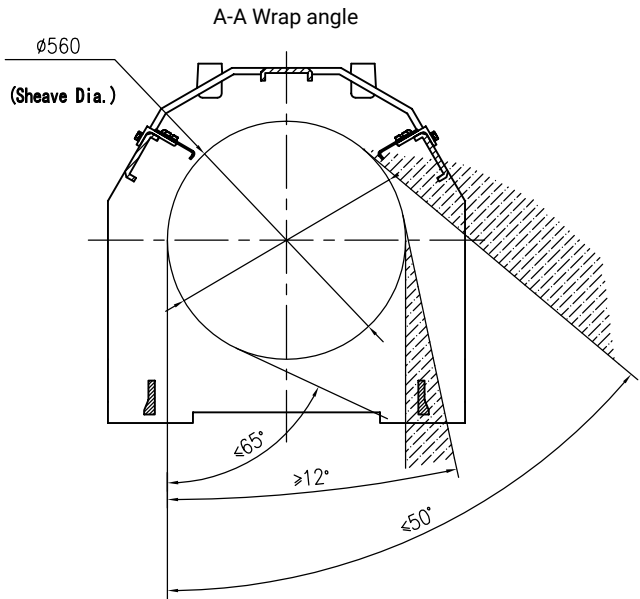
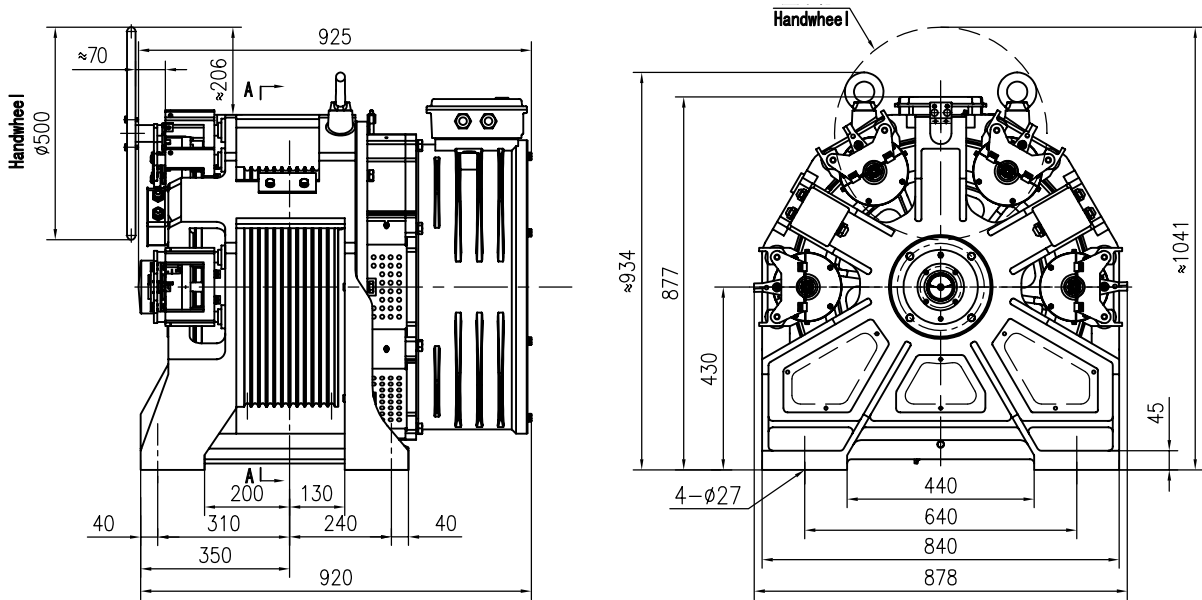
ELEVATOR TRACTION MACHINE

Suspension	2 : 1
Voltage	380V
Pole	20
Rating	S5 (50%)
INS. Class	F
IP Code	IP21
PZD140B Brake	DC110V 2×0.89A
PZD140 Brake	DC110V 4×0.69A
Max. Static Load	14000 kg
Weight	1120 kg

TECHNICAL DATA

Spec	Load (kg)	Lift Speed (m/s)	Sheave Dia.(mm)	Rope Groove (mm)	Double Roping	Current (A)	Torque (Nm)	Rated Speed (rpm)	Frequency (Hz)	Power (kW)
TDA-IGL54-103P0-13MM	1088	3.0	ø 560	10xø 13x18	YES	42.8	955	205	34.2	20.5
TDA-IGL54-104P0-13MM		4.0				56.5	955	273	45.5	27.3
TDA-IGL54-123P0-13MM	1292	3.0	ø 560	10xø 13x18	YES	53.3	1190	205	34.2	25.5
TDA-IGL54-124P0-13MM		4.0				72	1190	273	45.5	34
TDA-IGL54-133P0-13MM	1360	3.0	ø 560	10xø 13x18	YES	57.2	1290	205	34.2	27.7
TDA-IGL54-134P0-13MM		4.0				75.5	1290	273	45.5	36.9
TDA-IGL54-163P0-13MM	1600	3.0	ø 560	12xø 13x18	YES	69.5	1525	205	34.2	32.7
TDA-IGL54-164P0-13MM		4.0				93	1525	273	45.5	43.6
TDA-IGL54-203P0-13MM	2000	3.0	ø 560	12xø 13x18	YES	90	1910	205	34.2	41
TDA-IGL54-204P0-13MM		4.0				120	1910	273	45.5	54.3

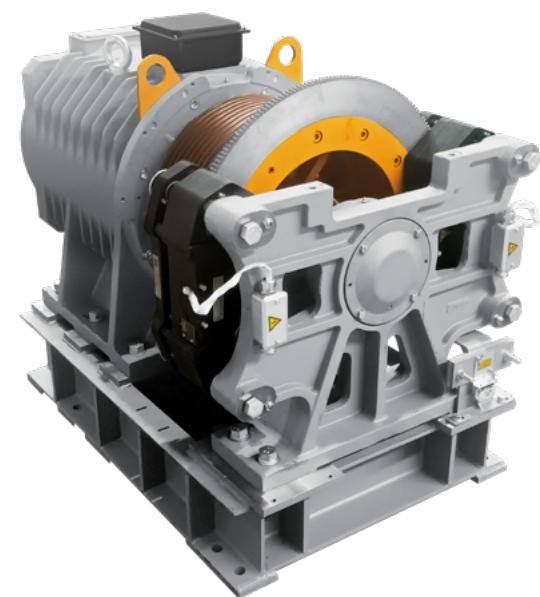
DIMENSIONS



Note: the angle of the wire rope is around the range shown above, avoiding the shadow part.

REMARK

PZD140B for 1000-1350kg; PZD140 for 1600-2000kg.



TDA-IGL55

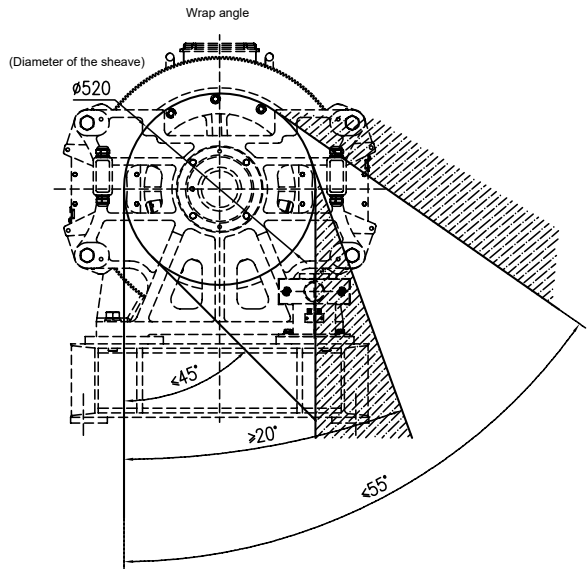
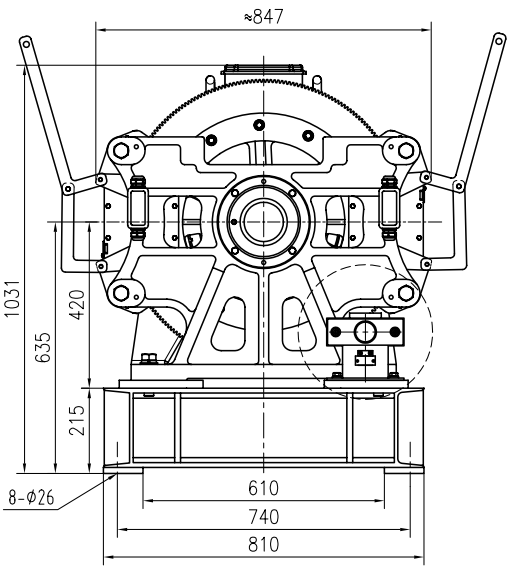
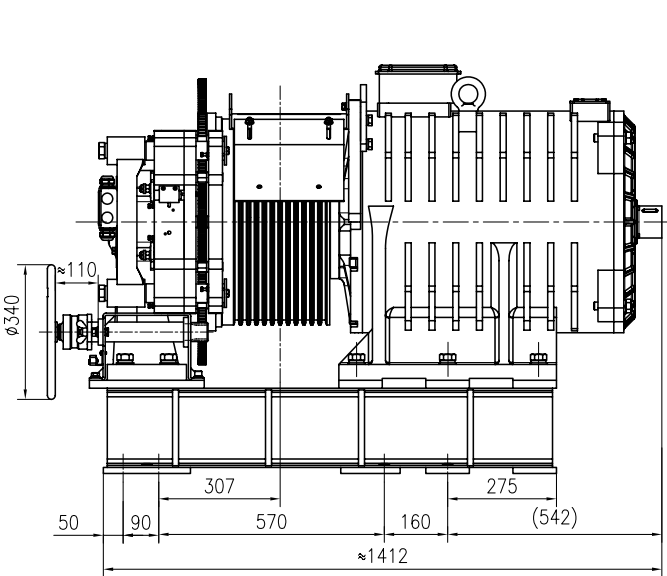
ELEVATOR TRACTION MACHINE

Suspension	2 : 1
Voltage	380V
Pole	32
Rating	S5 (40%)
INS. Class	F
IP Code	IP41
PZD360 Brake	DC110V 2×2.2A
Max. Static Load	14000 kg
Weight	1900 kg

TECHNICAL DATA

Spec	Load (kg)	Lift Speed (m/s)	Sheave Dia.(mm)	Rope Groove (mm)	Current (A)	Torque (Nm)	Rated Speed (rpm)	Frequency (Hz)	Power (kW)
TDA-IGL55-301P0-13MM	3000	1.0	ø 520	8× ø 13×20	48	2400	73	19.5	18.3
TDA-IGL55-301P5-13MM		1.5			69	2400	110	29.3	27.6
TDA-IGL55-301P7-13MM		1.7			79	2400	128	34.1	32.2
TDA-IGL55-302P0-13MM		2.0			90	2400	147	39.2	36.9
TDA-IGL55-401P0-13MM	4000	1.0	ø 520	10× ø 13×20	60	3200	73	19.5	24.5
TDA-IGL55-401P5-13MM		1.5			88	3200	110	29.3	36.9
TDA-IGL55-401P7-13MM		1.7			101	3200	128	34.1	42.9
TDA-IGL55-402P0-13MM		2.0			118	3200	147	39.2	49.3
TDA-IGL55-501P0-13MM	5000	1.0	ø 520	12× ø 13×20	72	4000	73	19.5	30.6
TDA-IGL55-501P5-13MM		1.5			105	4000	110	29.3	46.1
TDA-IGL55-501P7-13MM		1.7			124	4000	128	34.1	53.6
TDA-IGL55-502P0-13MM		2.0			142	4000	147	39.2	61.6

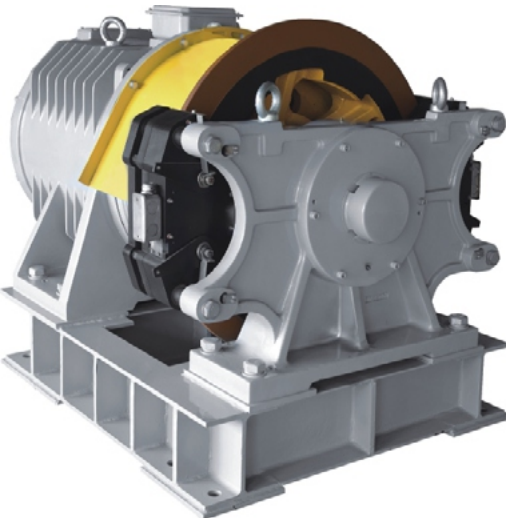
DIMENSIONS



Note: the angle of the wire rope is around the range shown above, avoiding the shadow part.

REMARK

1. The machine cant be configured with the remote manual brake release.
2. The recommended undercut angle for the groove of this machine is 105 °, and it's optional according to practical condition.



TDA-IGL60

ELEVATOR TRACTION MACHINE

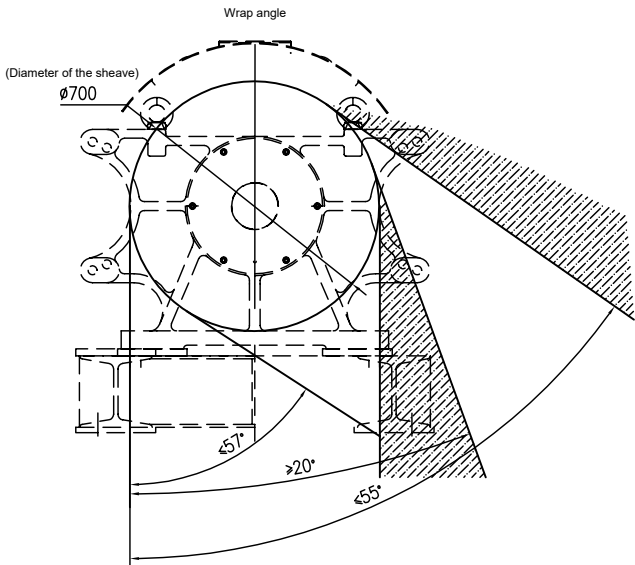
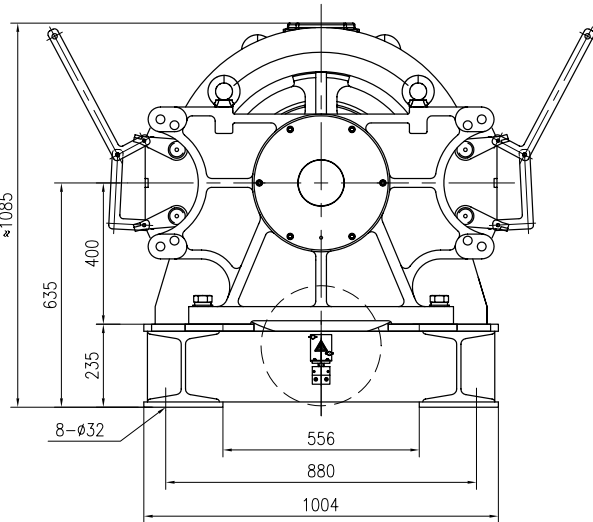
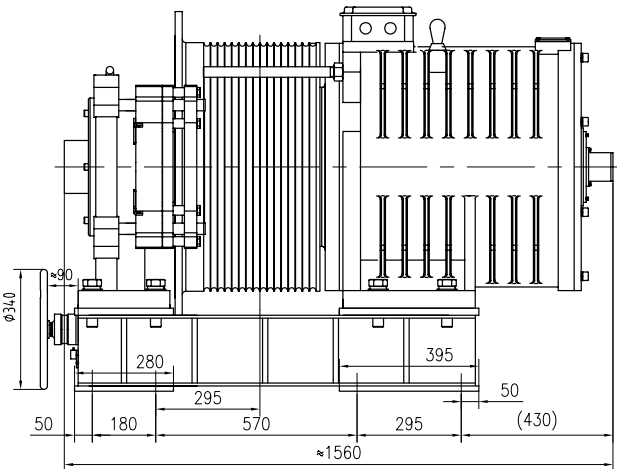
Suspension	1 : 1
Voltage	380V
Pole	24
Rating	S5 (60%)
INS. Class	F
IP Code	IP41
PZD360 Brake	DC110V 2×2.2A
Max. Static Load	36000 kg
Weight	3000 kg



TECHNICAL DATA

Spec	Load (kg)	Lift Speed (m/s)	Sheave Dia.(mm)	Rope Groove (mm)	Double Roping	Current (A)	Torque (Nm)	Rated Speed (rpm)	Frequency (Hz)	Power (kW)
TDA-IGL60-165P0-16MM-1	1600	5.0	ø 700	14×ø 16×20	YES	123	3750	137	27.4	53.9
TDA-IGL60-166P0-16MM-1		6.0				141	3750	164	32.8	64.6
TDA-IGL60-167P0-16MM-1		7.0				165	3750	192	38.4	75.4
TDA-IGL60-168P0-16MM-1		8.0				195	3750	218	43.6	85.6
TDA-IGL60-205P0-16MM-1	2000	5.0	ø 700	16×ø 16×20	YES	147	4700	137	27.4	67.2
TDA-IGL60-206P0-16MM-1		6.0				174	4700	164	32.8	80.6
TDSAIGL60-207P0-16MM-1		7.0				213	4700	192	38.4	94
TDA-IGL60-208P0-16MM-1		8.0				238	4700	218	43.6	107

DIMENSIONS



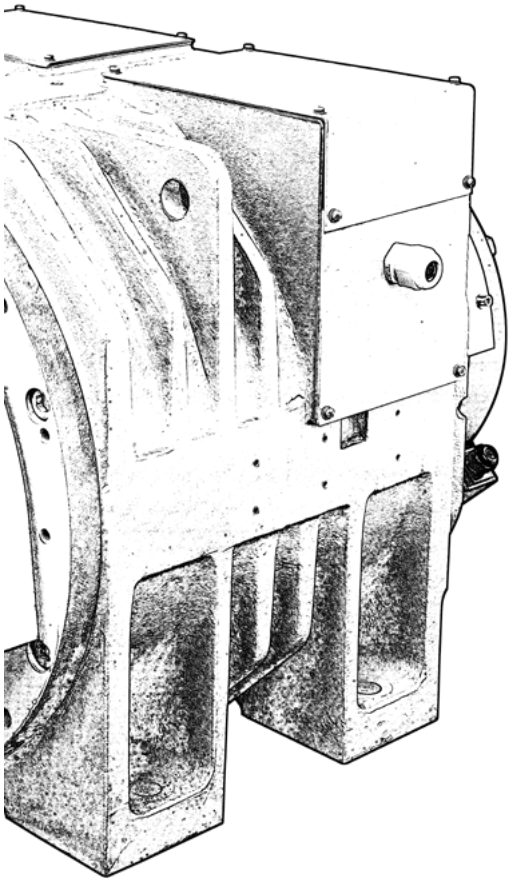
REMARK

The machine cant be configured with the remote manual brake release.

CATALOG

TDS-RGL SERIES

PERMANENT MAGNET SYNCHRONOUS
GEARLESS TRACTION MACHINE



TORINDRIVE

CUSTOMER-CENTRIC INNOVATION

RECOMMENDATION (TDA-RGL SERIES)

Capacity	1.0	1.5	1.7	2.0	2.5	3.0			
408	TDA-RGL00	TDA-RGL00							
544		TDA-RGL15							
680	TDA-RGL15						TDA-RGL21N		
884	TDA-RGL21N				TDA-RGL35				
1088									
1156									
1292	TDA-RGL25N				TDA-RGL35				
1360	TDA-RGL35					TDA-RGL35			
1600						TDA-RGL40			
2000	TDA-RGL40								
2500									

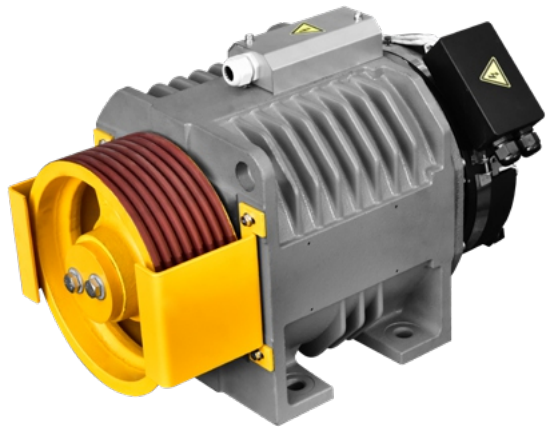
GEARLESS MACHINE STANDARD

1. Torin Drive gearless machine Part Number illustration

Example:

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

2. All gearless machines are **CE compliant and certified**.
- 3.All motors are designed for **180 starts per hour at 40 % duty cycle and 2:1 roping**.
- 4.All motors rae designed with **F Class insulation** and with Ingress Protection Rating of **IP41**.
- 5.All machines are designed with **counter weight ratio of between 45% to 50 %**.
- (For 1 :1 roping applications with gearless machines, please consult.Torin Drive sales representative).
 -
- 6.All machines are preinstalled with encoders (Heidenhain ERN1387 or equivalent).
- 7.**TDA-RGL & TDA-HGL** series machine do not come with **Handwheel** option.
- 8.Standard gearless machines are at 380VAC.220VAC machines are available for certain machines as an option.
- Exception: For Home Lift **TDA-HGL** models Both **380VAC & 220VAC** are standard.
- 9.All Machines come with **Test Certificate** and copy of **operation manual** attached to the machine.



TDA-RGL00

ELEVATOR TRACTION MACHINE

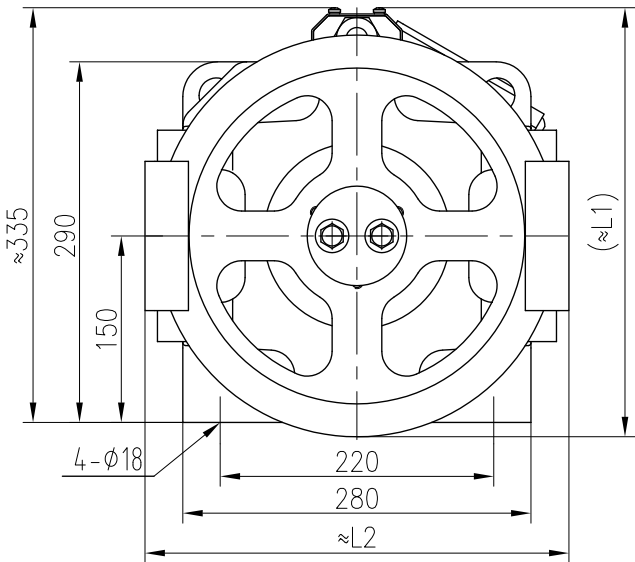
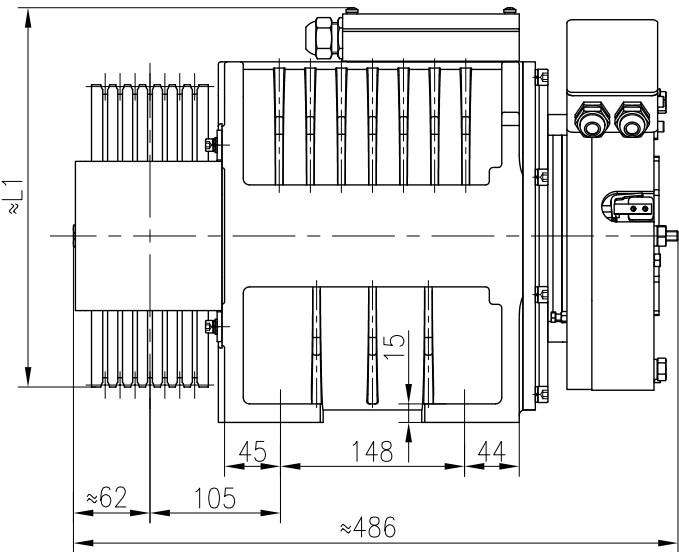
Suspension	2 : 1
Voltage	380V
Pole	20
Rating	S5 (40%)
INS. Class	F
IP Code	IP41
PZ300C Brake	DC110V 1.9A
Max. Static Load	1800 kg
Weight	140 kg



TECHNICAL DATA

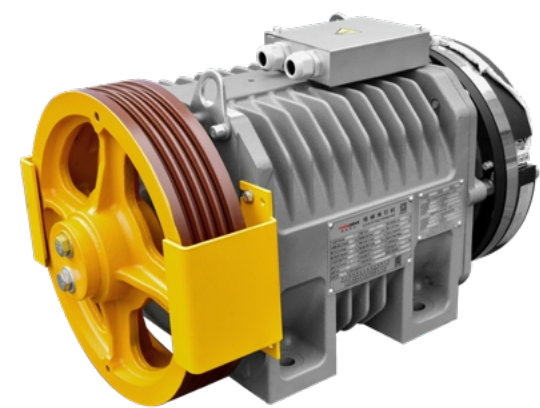
Spec	Load (kg)	Lift Speed (m/s)	Sheave Dia.(mm)	Rope Groove (mm)	Current (A)	Torque (Nm)	Rated Speed (rpm)	Frequency (Hz)	Power (kW)	L1	L2
TDA-RGL00-41P0B-6MM		1.0			7.3	175	159	26.5	3.0		
TDA-RGL00-41P5B-6MM	408	1.5	ø 240	5×ø6.5×12	11	175	239	39.8	4.5	305	260
TDA-RGL00-41P7B-6MM		1.75			11.8	175	279	46.5	5.1		
TDA-RGL00-41P0C-8MM		1.0			8.3	240	120	20	2.7		
TDA-RGL00-41P5C-8MM	408	1.5	ø 320	4×ø8×12	10.8	240	179	29.8	4.5	345	345
TDA-RGL00-41P7C-8MM		1.75			12.5	240	209	34.8	5.3		
TDA-RGL00-51P0C-8MM	544	1.0	ø 320	4×ø8×12	9.5	275	120	20	3.5	345	345

DIMENSIONS



REMARK

The standard configuration of this machine does not include manual brake release. Customers are required to provide their own electric brake release device.
The manual brake release is optional to provide if the customer need it.
LV Stands For 220V Motor



► TDA-RGL15

ELEVATOR TRACTION MACHINE

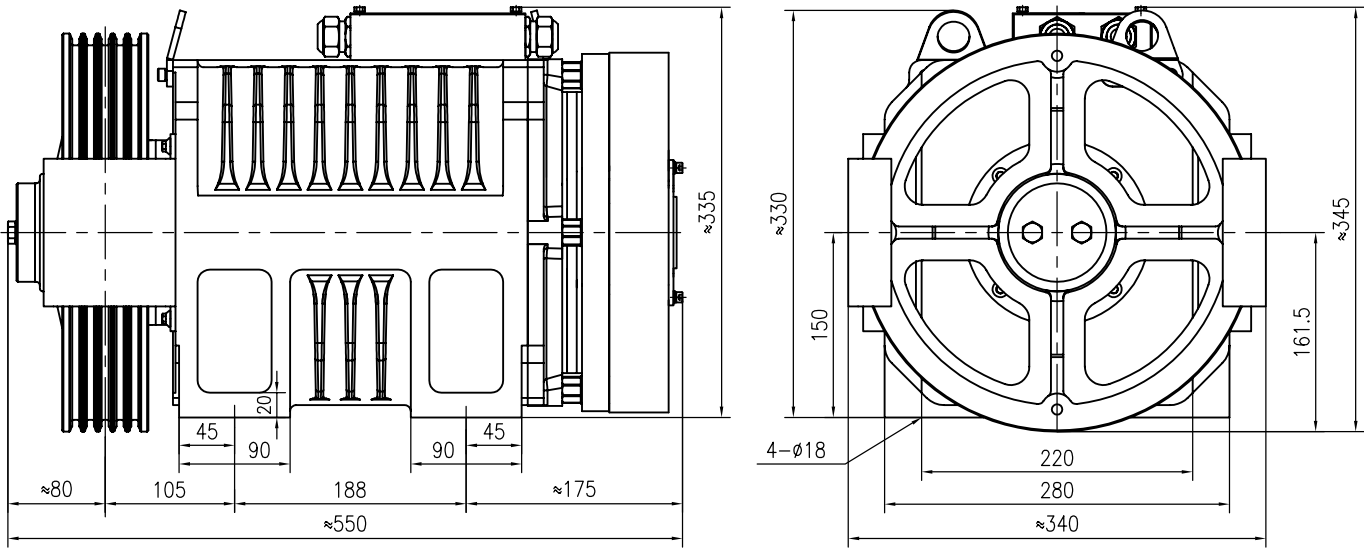
Suspension	2 : 1
Voltage	380V
Pole	20
Rating	S5 (40%)
INS. Class	F
IP Code	IP41
PZ1000B Brake	DC110V 2×1.41A
Max. Static Load	2000 kg
Weight	175 kg



TECHNICAL DATA

Spec	Load (kg)	Lift Speed (m/s)	Sheave Dia.(mm)	Rope Groove (mm)	Current (A)	Torque (Nm)	Rated Speed (rpm)	Frequency (Hz)	Power (kW)
TDA-RGL15-51P0-8MM		1.0			9.5	275	120	20	3.5
TDA-RGL15-51P5-8MM	544	1.5	ø320	5×ø8×12	12.9	290	179	29.8	5.4
TDA-RGL15-51P7-8MM		1.7			14.6	290	209	34.8	6.3
TDA-RGL15-61P0-8MM		1.0			11.0	318	120	20	4
TDA-RGL15-61P5-8MM	680	1.5	ø320	5×ø8×12	14.9	336	179	29.8	6.3
TDA-RGL15-61P7A-8MM		1.7			18.0	336	209	34.8	7.4

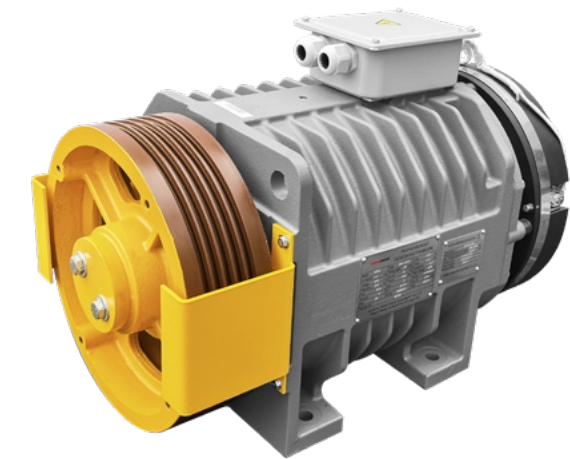
► DIMENSIONS



REMARK

The standard configuration of this machine does not include manual brake release. Customers are required to provide their own electric brake release device.
The manual brake release is optional to provide if the customer need it.

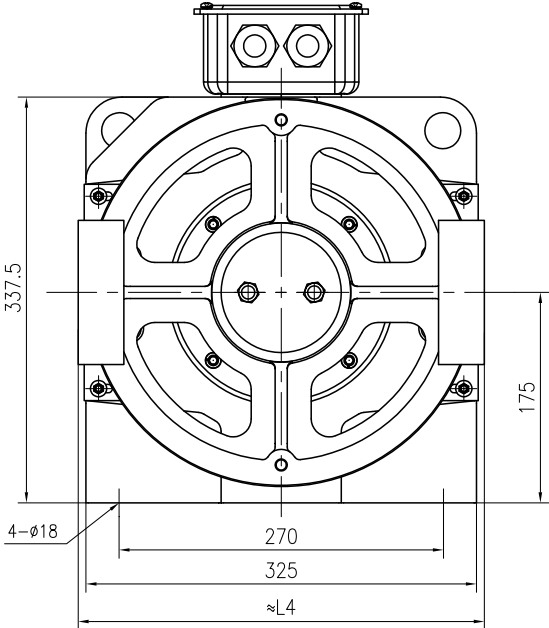
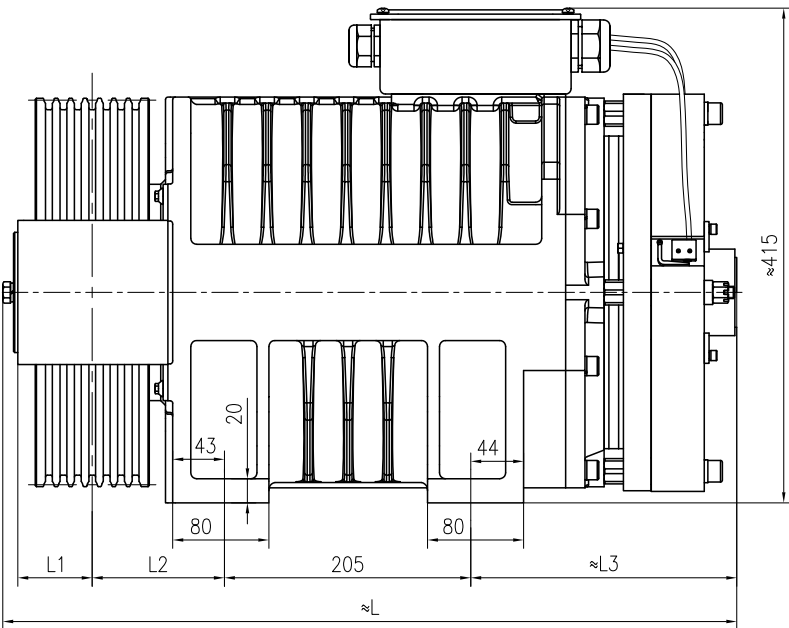
►TDA-RGL21N



ELEVATOR TRACTION MACHINE

Suspension	2 : 1
Voltage	380V
Pole	20
Rating	S5 (40%)
INS. Class	F
IP Code	IP41
PZ1400B Brake	DC110V 2×0.9A (2×1.17A)
Max. Static Load	3500 kg
Weight	245 kg

► DIMENSIONS



TECHNICAL DATA

Spec	Load (kg)	Lift Speed (m/s)	Sheave Dia.(mm)	Rope Groove (mm)	Current (A)	Torque (Nm)	Rated Speed (rpm)	Frequency (Hz)	Power (kW)	L1	L2	L3	L4	L5
TDA-RGL21N-81P0B-6MM		1.0			13.5	310	159	26.5	5.2					
TDA-RGL21N-81P5B-6MM	884	1.5	Ø240	8×Ø6.5×12	20	310	239	39.8	7.8	75	133	223	330	640
TDA-RGL21N-81P7B-6MM		1.7			21.5	310	279	46.5	9.1					
TDA-RGL21N-81P0-8MM		1.0			14	401	120	20	5					
TDA-RGL21N-81P5-8MM	884	1.5	Ø320	6×Ø8×12	20.2	420	179	29.8	7.9	62	110	223	350	615
TDA-RGL21N-81P7-8MM		1.7			21.7	420	209	34.8	9.2					
TDA-RGL21N-82P0-8MM		2.0			23.5	420	239	39.8	10.5					
TDA-RGL21N-101P0B-6MM		1.0			16.6	380	159	26.5	6.3					
TDA-RGL21N-101P5B-6MM	1088	1.5	Ø240	9/10×Ø6.5×12	24.5	380	239	39.8	9.5	75	133	223	330	640
TDA-RGL21N-101P7B-6MM		1.7			26.3	380	279	46.5	11.1					
TDA-RGL21N-101P0-8MM		1.0			17.6	506	120	20	6.4					
TDA-RGL21N-101P5-8MM	1088	1.5	Ø320	7×Ø8×12	26	525	179	29.8	9.8	62	110	223	350	615
TDA-RGL21N-101P7-8MM		1.7			27.5	525	209	34.8	11.5					
TDA-RGL21N-102P0-8MM		2.0			29.4	525	239	39.8	13.1					
TDA-RGL21N-111P0-8MM		1.0			18.2	615	120	20	7.7					
TDA-RGL21N-111P5-8MM	1156	1.5	Ø320	7×Ø8×12	30	615	179	29.8	11.5	62	110	265	350	657
TDA-RGL21N-111P7-8MM		1.7			30	615	209	34.8	13.5					
TDA-RGL21N-112P0-8MM		2.0			33.6	615	239	39.8	15.4					

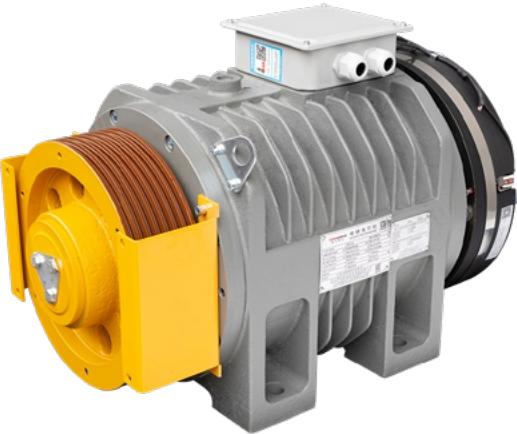
REMARK

1. The maximum static load is 3000kg when the load is ≤1020kg.

2. When this machine is used for loading ≤1020kg, the current of brakes is 2×0.9A;when this machine is used for loading > 1020kg, the current of brakes is 2×1.17A.

3. The standard configuration of this machine does not include manual brake release. Customers are required to provide their own electric brake release device.

The manual brake release is optional to provide if the customer need it.



► TDA-RGL25N

ELEVATOR TRACTION MACHINE

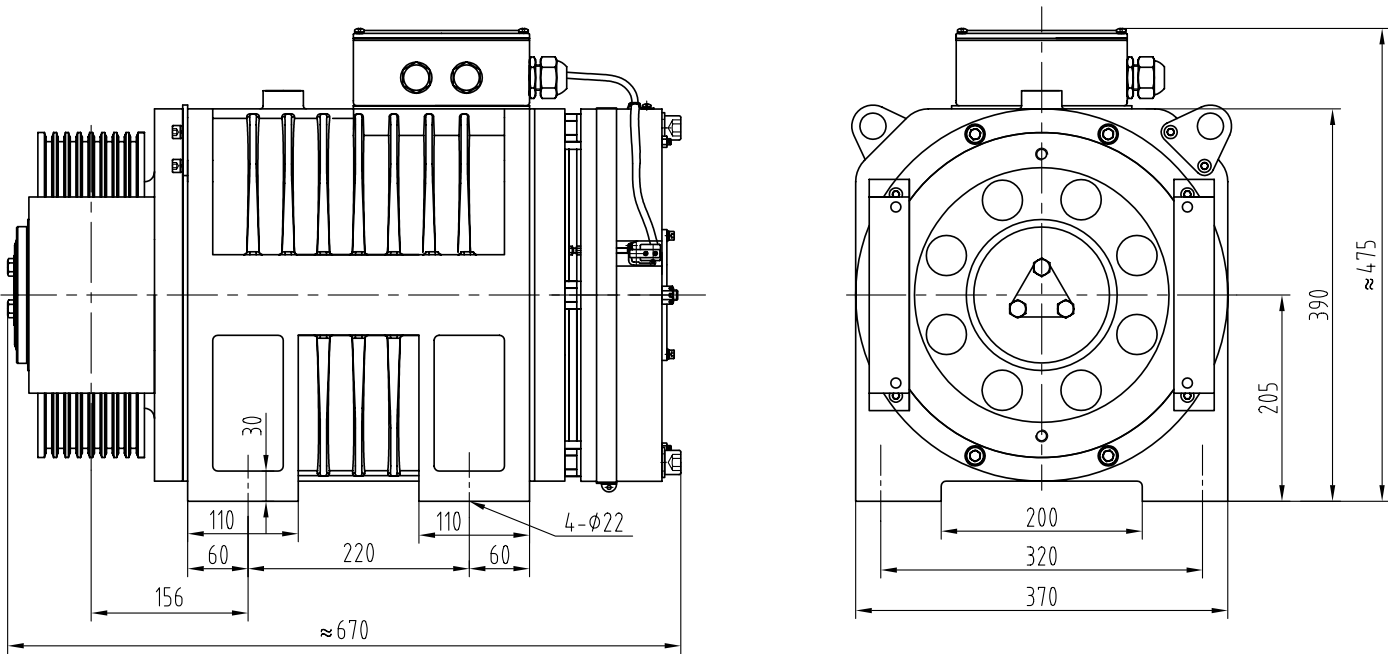
Suspension	2 : 1
Voltage	380V
Pole	20
Rating	S5 (40%)
INS. Class	F
IP Code	IP41
PZ1600B Brake	DC110V 2×1.8A
Max. Static Load	3800 kg
Weight	360 kg



TECHNICAL DATA

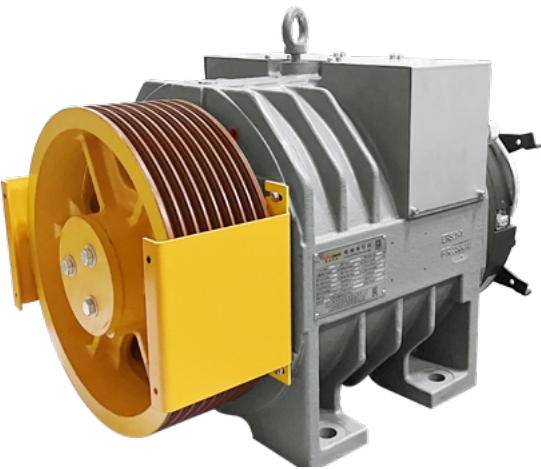
Spec	Load (kg)	Lift Speed (m/s)	Sheave Dia.(mm)	Rope Groove (mm)	Current (A)	Torque (Nm)	Rated Speed (rpm)	Frequency (Hz)	Power (kW)
TDA-RGL25N-121P0-8MM		1.0			19.8	680	119	19.9	8.5
TDA-RGL25N-121P5-8MM	1292	1.5	ø 320	8×ø 8×12	30.3	680	179	29.8	12.7
TDA-RGL25N-121P7-8MM		1.75			32.8	680	209	34.8	14.9
TDA-RGL25N-122P0-8MM		2.0			38.9	680	239	39.8	17

► DIMENSIONS



REMARK

The standard configuration of this machine does not include manual brake release. Customers are required to provide their own electric brake release device.
The manual brake release is optional to provide if the customer need it.



TDA-RGL35

ELEVATOR TRACTION MACHINE

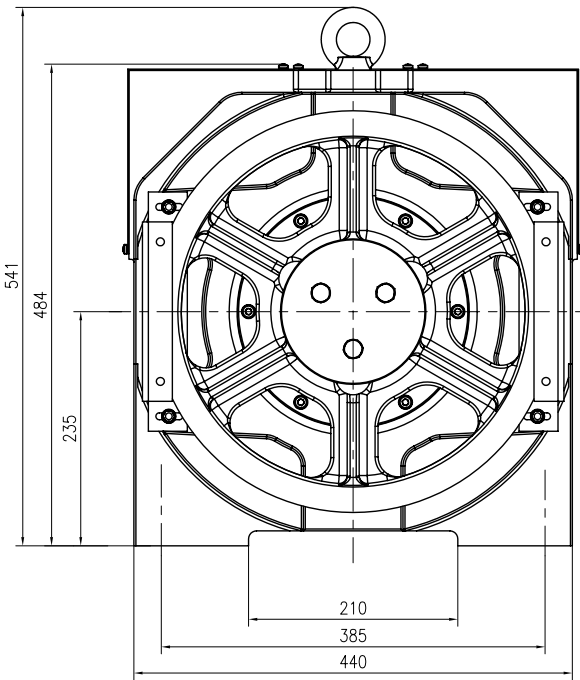
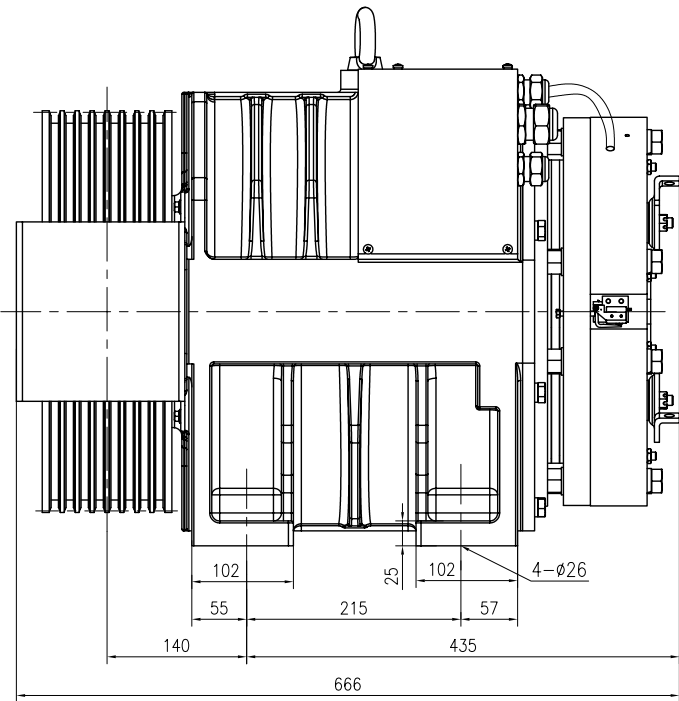
Suspension	2 : 1
Voltage	380V
Pole	32
Rating	S5 (40%)
INS. Class	F
IP Code	IP41
PZ2500B Brake	DC110V 2×2.1A
Max. Static Load	5500 kg
Weight	450 kg



TECHNICAL DATA

Spec	Load (kg)	Lift Speed (m/s)	Sheave Dia.(mm)	Rope Groove (mm)	Current (A)	Torque (Nm)	Rated Speed (rpm)	Frequency (Hz)	Power (kW)
TDA-RGL35-112P5-10MM	1156	2.5	ø400	6×ø10×16	47	730	239	63.7	18.3
TDA-RGL35-113P0-10MM		3.0	ø450		56.2	820	255	68	21.9
TDA-RGL35-122P5-10MM	1292	2.5	ø400	7×ø10×16	50.7	795	239	63.7	19.9
TDA-RGL35-123P0-10MM		3.0	ø450		57.5	890	255	68	23.8
TDA-RGL35-131P0-10MM	1360	1.0	ø400	7×ø10×16	24	855	96	25.6	8.6
TDA-RGL35-131P5-10MM		1.5			40.3	855	143	38.1	12.8
TDA-RGL35-131P7-10MM		1.7			40.3	855	167	44.5	15
TDA-RGL35-132P0-10MM		2.0			44.1	855	191	50.9	17.1
TDA-RGL35-132P5-10MM		2.5			54.5	855	239	63.7	21.4
TDA-RGL35-133P0-10MM		3.0			62.3	965	255	68	25.8
TDA-RGL35-161P0-10MM		1.0			27	1015	96	25.6	10.2
TDA-RGL35-161P5-10MM		1.5			47	1015	143	38.1	15.2
TDA-RGL35-161P7-10MM		1.7			47	1015	167	44.5	17.7
TDA-RGL35-162P0-10MM		2.0			50.4	1015	191	50.9	20.3
TDA-RGL35-162P5-10MM		2.5			64	1015	239	63.7	25.4

DIMENSIONS



REMARK

The standard configuration of this machine does not include manual brake release. Customers are required to provide their own electric brake release device.
The manual brake release is optional to provide if the customer need it.

► TDA-RGL40



ELEVATOR TRACTION MACHINE

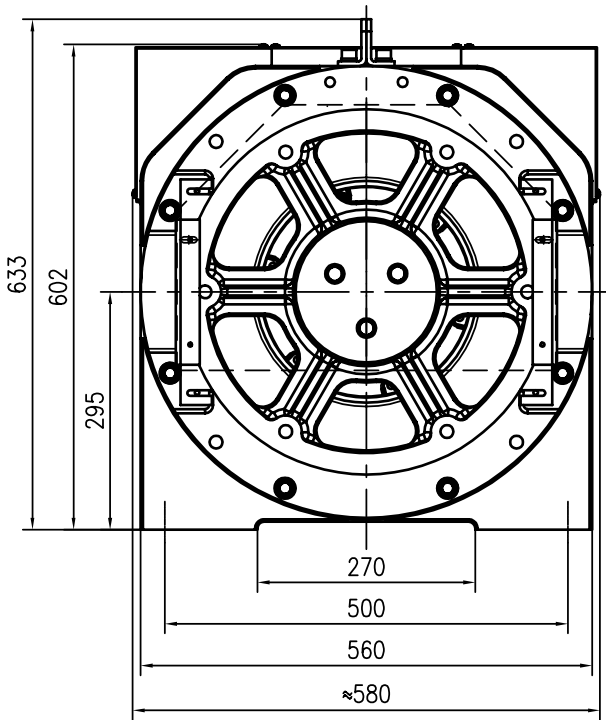
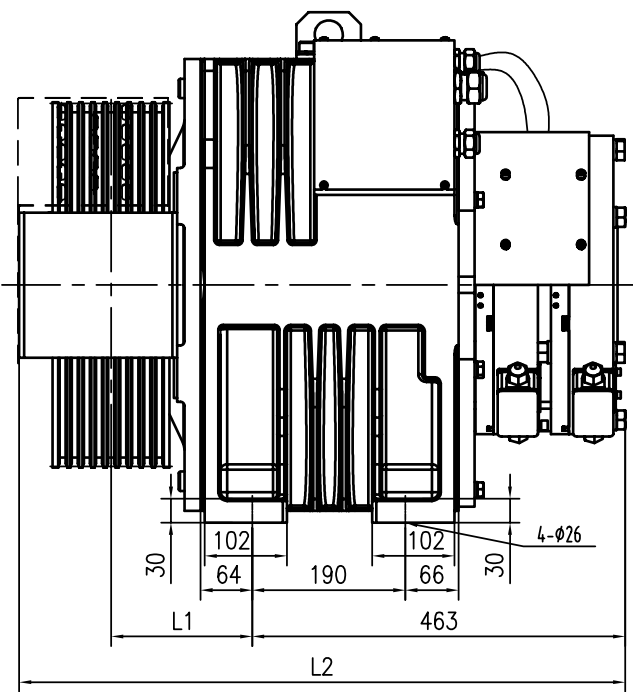
Suspension	2 : 1
Voltage	380V
Ploe	32
Rating	S5 (40%)
INS.Class	F
IP Code	IP41
SPZ1600 Brake	DC110V 2×2.1A
Max.Static Load	6000 kg
Weight	650 kg



TECHNICAL DATA

Spec	Load (kg)	Lift Speed (m/s)	Sheave Diam(mm)	Rope Sheave (mm)	Current (A)	Torque (Nm)	Rated Speed (rpm)	Frequency (Hz)	Power (kW)	Length L1	Length L
TDA-RGL40-163P0A-10MM	1600	3.0	ø450	9×ø10×15	88.5	1440	255	68	38.5	175	752
TDA-RGL40-201P0-10MM		1.0			31.5	1270	96	25.6	12.8		
TDA-RGL40-201P5-10MM		1.5			45.5	1270	144	38.4	19.1		
TDA-RGL40-201P7-10MM	2000	1.7	ø400	9×ø10×15	51	1270	167	44.5	22.2	205	795
TDA-RGL40-202P0-10MM		2.0			58	1270	191	50.9	25.4		
TDA-RGL40-202P5-10MM		2.5			72.5	1270	239	63.7	31.8		
TDA-RGL40-251P0-10MM		1.0			37.5	1530	96	25.6	15.4		
TDA-RGL40-251P5-10MM		1.5			56	1530	144	38.4	23.1		
TDA-RGL40-251P7-10MM	2500	1.7	ø400	10×ø10×16	62	1530	167	44.5	26.8	205	795
TDA-RGL40-252P0-10MM		2.0			70	1530	191	50.9	30.6		
TDA-RGL40-252P5-10MM		2.5			87.5	1530	239	63.7	38.3		

► MACHINE'S DIMENSION



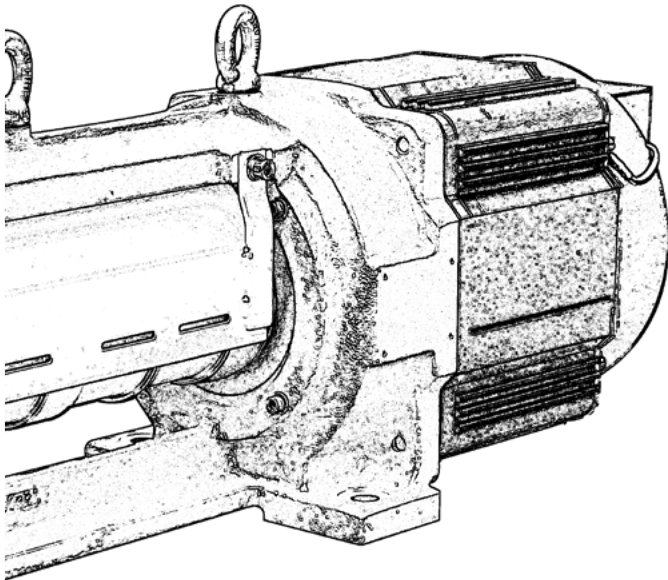
REMARK

This machine does not include manual brake release. Customers are required to provide their own electric brake release device.

CATALOG

IBM_{SERIES}

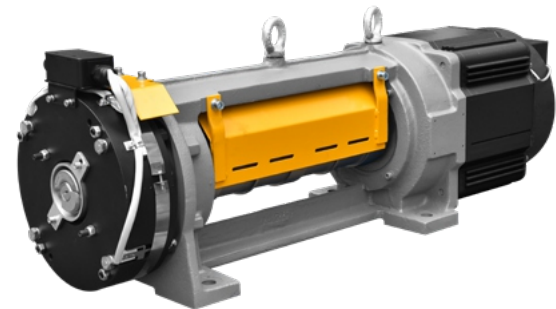
STEEL BELT ELEVATOR TRACTION
MACHINE



TORINDRIVE

CUSTOMER-CENTRIC INNOVATION

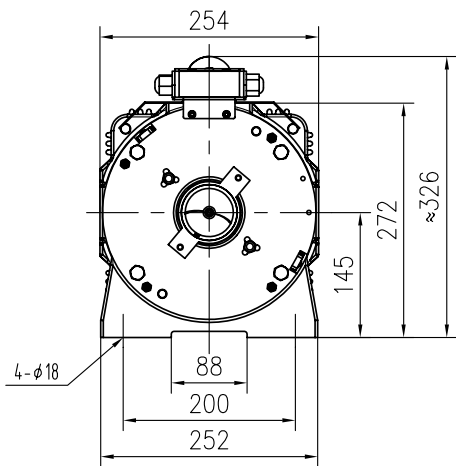
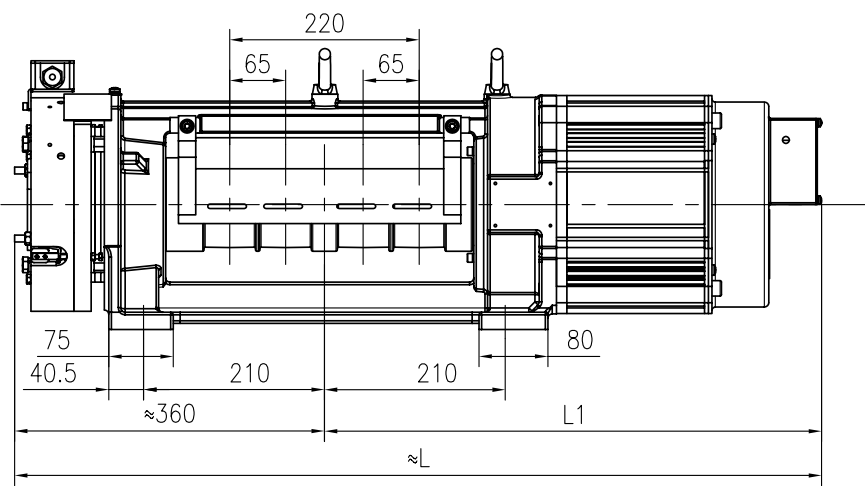
TDA-IBM05



BELT ELEVATOR TRACTION MACHINE

Suspension	2 : 1
Voltage	380V
Pole	8
Rating	S5 (40%)
INS. Class	F
IP Code	IP41
PZ300C Brake	DC110V 1.9A
Max. Static Load	2500 kg
Weight	180 kg

DIMENSIONS



TECHNICAL DATA

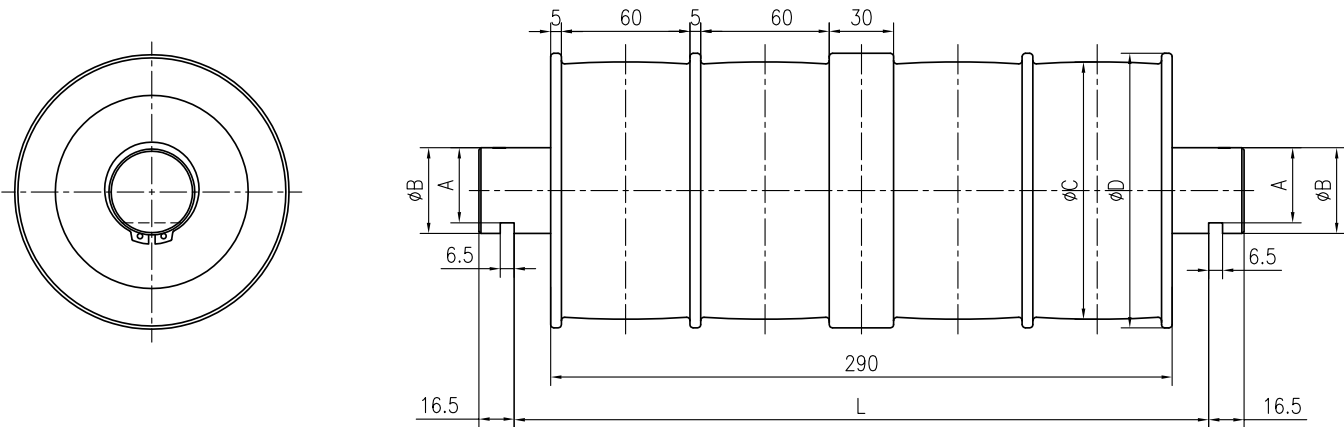
Spec	Load (kg)	Lift Speed (m/s)	Sheave Dia.(mm)	Belt: quantity × width(mm)	Current (A)	Torque (Nm)	Rated Speed (rpm)	Frequency (Hz)	Power (kW)	L1	L
TDA-IBM05-61P0		1.0			9.5	105	371	24.7	4.1		
TDA-IBM05-61P5	680	1.5	φ100	3x30	13.4	105	556	37.1	6.1	520	880
TDA-IBM05-61P7		1.7			15.6	105	649	43.3	7.1		
TDA-IBM05-81P0		1.0			11.9	135	371	24.7	5.2		
TDA-IBM05-81P5	884	1.5	φ100	4x30	17.1	135	556	37.1	7.9	575	935
TDA-IBM05-81P7		1.7			20	135	649	43.3	9.2		
TDA-IBM05-101P0		1.0			15	175	371	24.7	6.8		
TDA-IBM05-101P5	1020	1.5	φ100	4x30	23.1	175	556	37.1	10.2	575	935
TDA-IBM05-101P7		1.7			26	175	649	43.3	11.9		
TDA-IBM05-111P0		1.0			16.6	190	371	24.7	7.4		
TDA-IBM05-111P5	1156	1.5	φ100	4x30	24.4	190	556	37.1	11.1	585	945
TDA-IBM05-111P7		1.7			26.4	190	649	43.3	12.9		

REMARK

For machine room less, the standard configuration of this machine does not include manual brake release. Customers are required to provide their own electric brake release device.

The manual brake release is optional to provide if the customer need it.

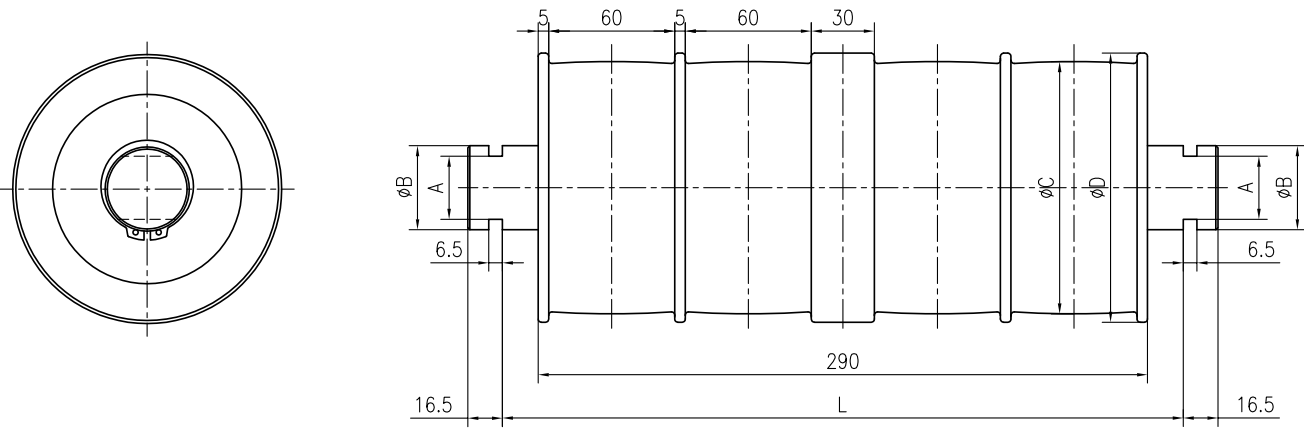
Accessories For IBM05
CWT SUSPEN SHEAVE ASSY



	A(mm)	B(mm)	C(mm)	D(mm)	L(mm)
CWT SUSPEN SHEAVE ASSY (4 BELT)	35	40	120	128	324

REMARK
Please contact our technician to confirm the dimensions and parameter.

Accessories For IBM05
CAR SUSPEN SHEAVE ASSY



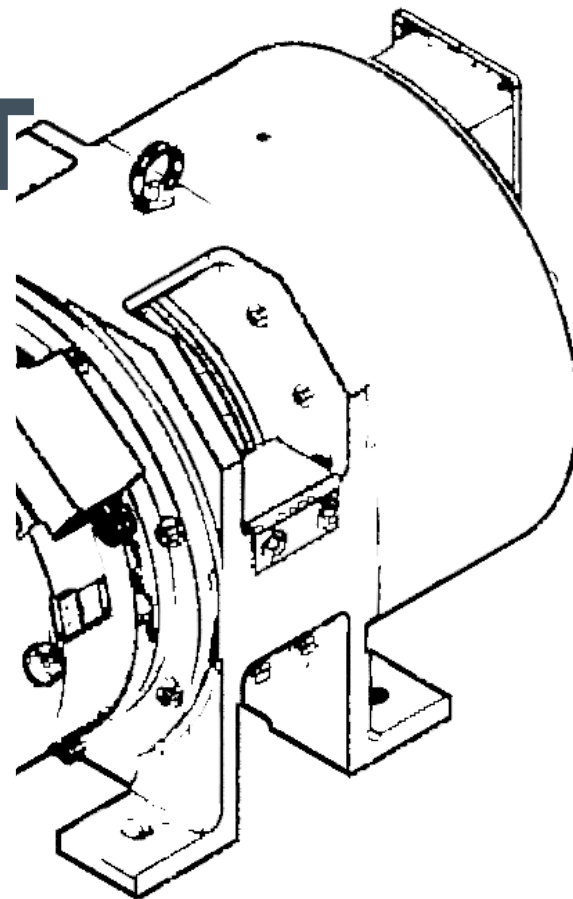
	A(mm)	B(mm)	C(mm)	D(mm)	L(mm)
CAR SUSPEN SHEAVE ASSY (4 BELT) (MRL)	30	40	120	128	324
DEF SHEAVE ASSY (4 BELT) (MR)					
IDLE SHEAVE ASSY (4 BELT) (MR)					
CAR SUSPEN SHEAVE ASSY (4 BELT) (MR)	39	55	160	168	

REMARK
Please contact our technician to confirm the dimensions and parameter.

CATALOG

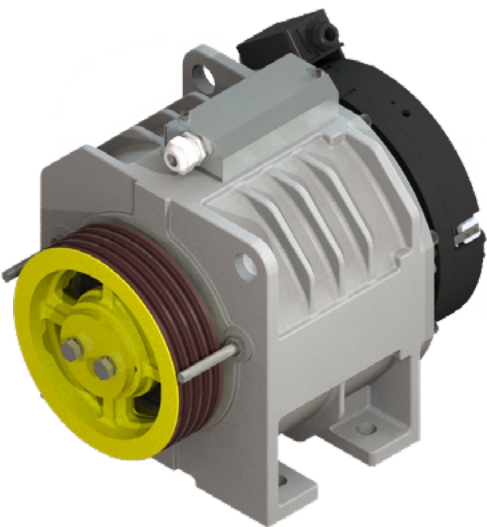
HOME LIFT

SERIES



TORINDRIVE

CUSTOMER-CENTRIC INNOVATION

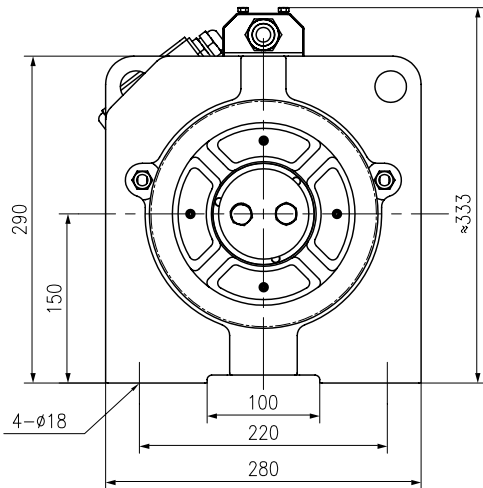
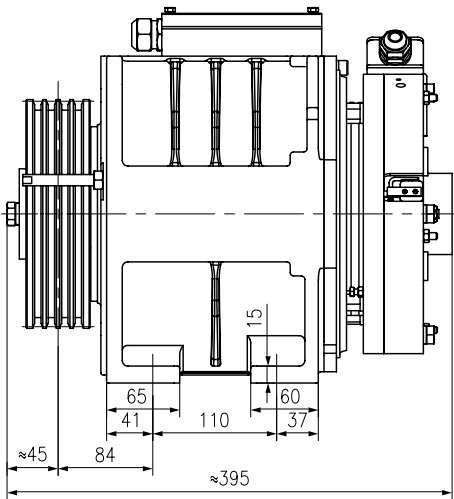


TDA-HGL00

ELEVATOR TRACTION MACHINE

Suspension	2 : 1
Voltage	380V or 220V
Pole	20
Rating	S5 (25%)
INS. Class	F
IP Code	IP41
PZ300B Brake	DC110V 1.6A
Max. Static Load	1400 kg
Weight	95 kg

DIMENSIONS



TECHNICAL DATA

Spec	Load (kg)	Lift Speed (m/s)	Sheave Dia.(mm)	Rope Groove (mm)	Voltage (V)	Current (A)	Torque (Nm)	Rated Speed (rpm)	Frequency (Hz)	Power (kW)
TDA-HGL00-40P4-8MM	408	0.4	∅200	4×∅8×12	380 or 220	6.5	138	76	12.7	1.1
TDA-HGL00-41P0-8MM		1.0			380	6.5	138	191	31.8	2.8

REMARK

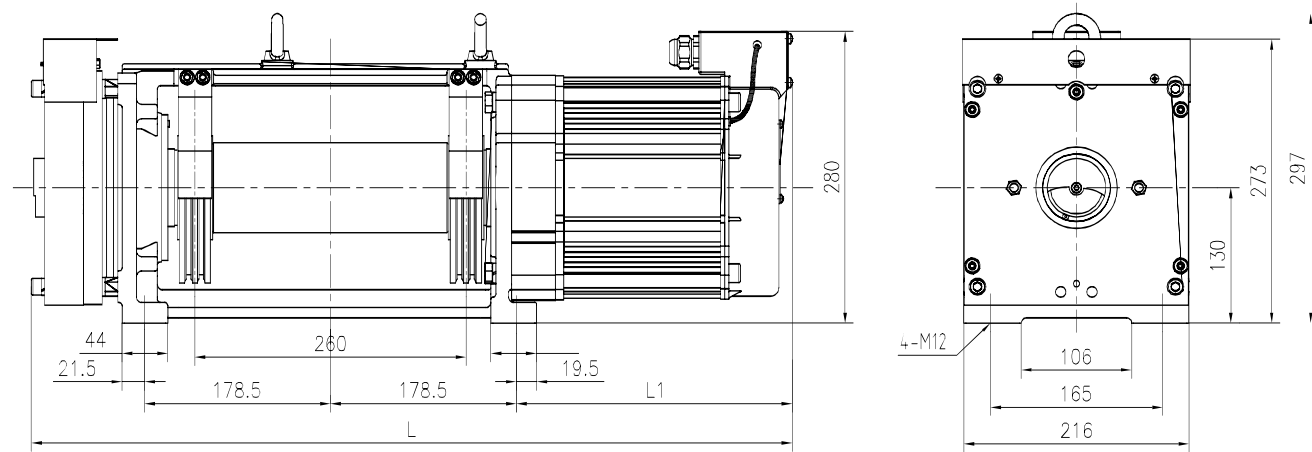
The standard configuration of this machine does not include connection cable and manual brake release. Customers are required to provide their own electric brake release device. The connection cable and manual brake release are optional to provide if the customer need them.

►TDA-HGL20

ELEVATOR TRACTION MACHINE

- Suspension2 : 1
- Voltage380V or 220V
- Pole20
- RatingS5 (25%)
- INS. ClassF
- IP CodeIP41
- PZ300B BrakeDC110V 1.6A
- Max. Static Load1400 kg
- Weight95 kg

► DIMENSIONS



TECHNICAL DATA

Spec	Load (kg)	Lift Speed (m/s)	Sheave Dia.(mm)	Rope Groove (mm)	Voltage (V)	Current (A)	Torque (Nm)	Rated Speed (rpm)	Frequency (Hz)	Power L1 (kW)	L
TDA-HGL20-40PAD	408	0.4	ϕ 160	2×ϕ6×12	380 or 220	66.8	110	95	9.5	1.1 215	680
TDA-HGL20-41PAD		1.0			380	6.5	110	239	23.9	2.8 215	680

REMARK

The standard configuration of this machine does not include connection cable and manual brake release. Customers are required to provide their own electric brake release device.

The connection cable and manual brake release are optional to provide if the customer need them.



TDA-SDM05

PERMANENT MAGNET SYNCHRONOUS POSITIVE DRIVE MACHINE

Suspension	1 : 1
Voltage	380V or 220V
Pole	8
Rating	S5 (25%)
IP Code	IP41
DZE-9EA Brake	DC110V 1.04A
Max. Static Load	1200 kg
Weight	280 kg



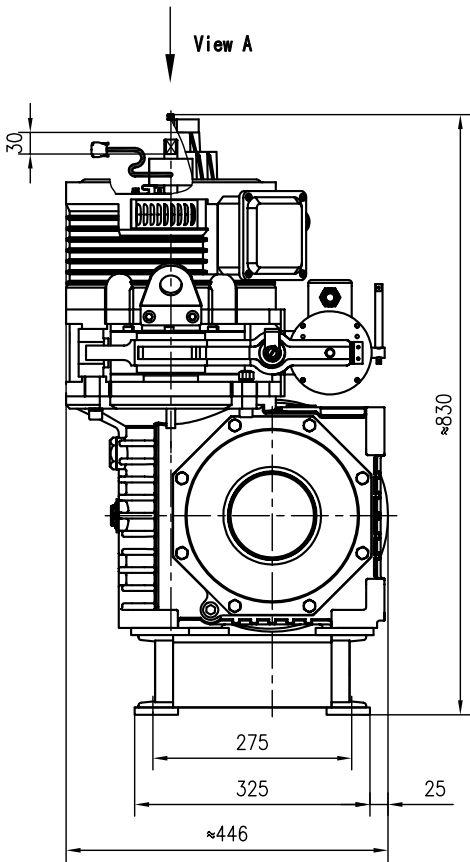
TECHNICAL DATA

Load+Cabin Weight (P+Q) (kg)	Lift Speed (m/s)	Ratio	Drum Wheel (Pitch diameter (mm)×Wire rope diameter(mm)×Rotation direction×Maximum lifting height(m))	Motor Voltage (VAC)	Motor Current (A)	Motor Speed (rpm)	Motor Power (kW)	L1	L2	L3	L4
1000	0.4	49:2	φ318×φ8×Right/Left-handed rotation×12	380	8.9	588	4.5	740	645	71	30
			φ318×φ8×Right/Left-handed rotation×15					810	715	1	100
			φ318×φ10×Right/Left-handed rotation×12					810	715	10	100
			φ318×φ10×Right/Left-handed rotation×15					885	790	65	175
1000	0.4	49:2	φ318×φ8×Right/Left-handed rotation×12	220	15.5	588	4.5	740	645	71	30
			φ318×φ8×Right/Left-handed rotation×15					810	715	1	100
			φ318×φ10×Right/Left-handed rotation×12					810	715	10	100
			φ318×φ10×Right/Left-handed rotation×15					885	790	65	175

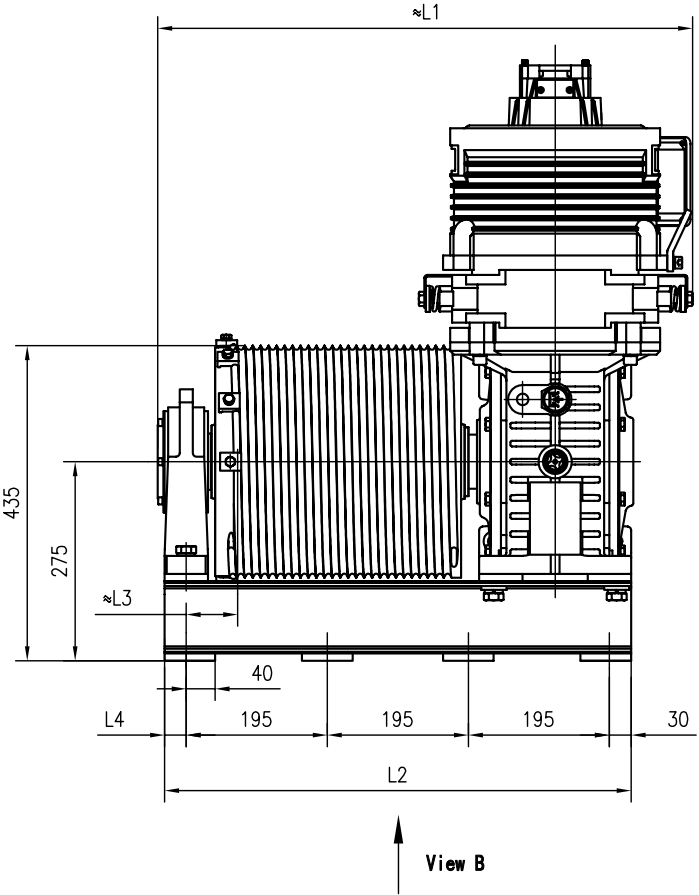
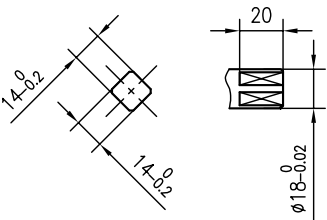
REMARK

1. As shown is right sheave type (equipped with right-handed rotation drum wheel) , left sheave type is optional (equipped with lift-handed rotation drum wheel) .

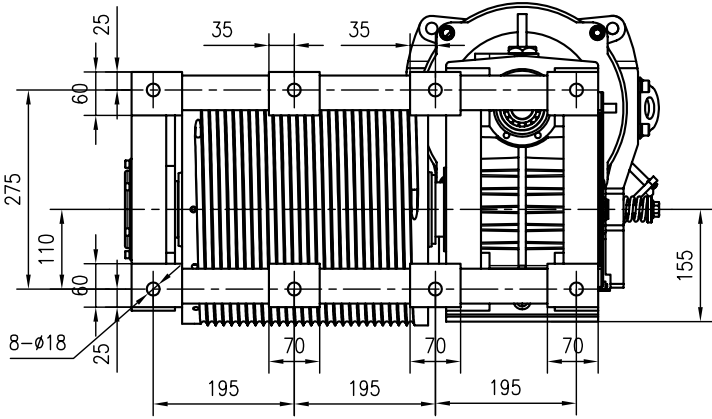
DIMENSIONS



View A/ The dimension of motor shaft end



View B/ The dimension of mounting hole





TDA-SDM10

PERMANENT MAGNET SYNCHRONOUS POSITIVE DRIVE MACHINE

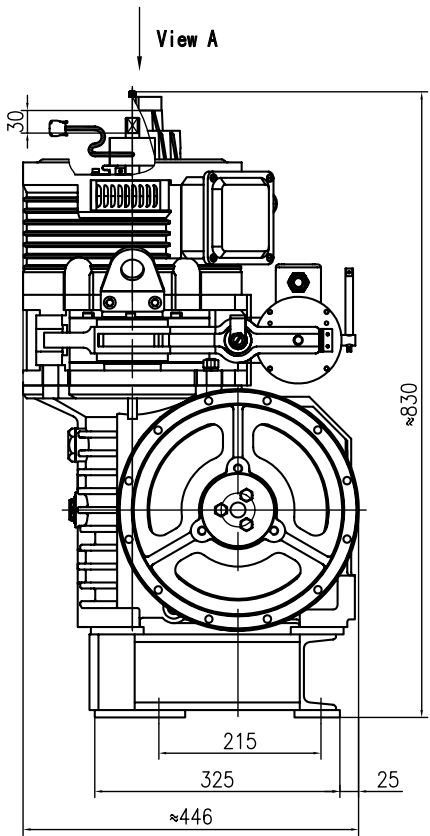
Suspension	1 : 1
Voltage	380V or 220V
Pole	8
Rating	S5 (25%)
IP Code	IP41
DZE-9EA Brake	DC110V 1.04A
Max. Static Load	1200 kg
Weight	280 kg



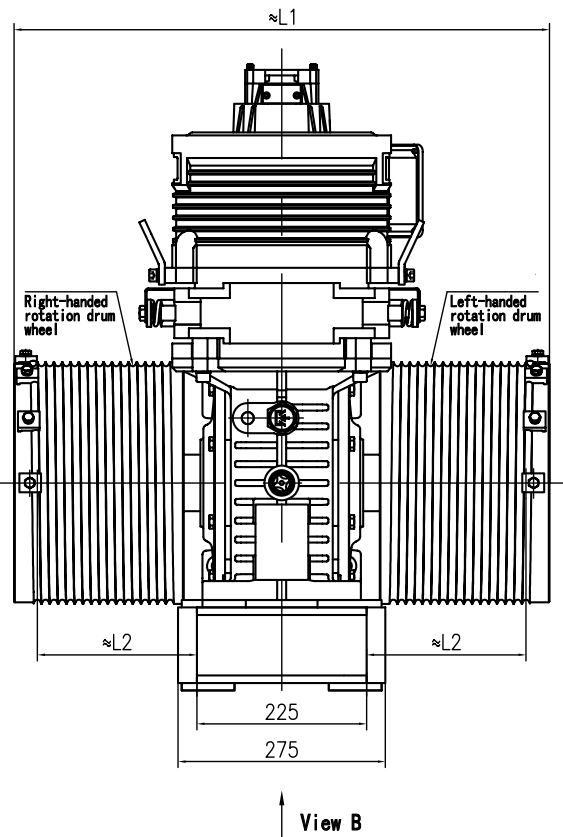
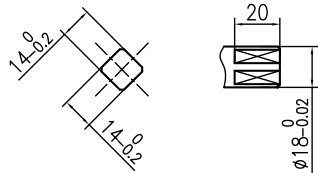
TECHNICAL DATA

Load+Cabin Weight (P+Q) (kg)	Lift Speed (m/s)	Ratio	Drum Wheel (Pitch diameter (mm) ×Wire rope diameter(mm)×Rotation direction ×Maximum lifting height(m))	Motor Voltage (VAC)	Motor Current (A)	Motor Speed (rpm)	Motor Power (kW)	L1	L2
1000	0.4	49:2	φ318×φ8×Right&Left-handed rotation×12	380	8.9	588	4.5	710	212
			φ318×φ8×Right&Left-handed rotation×15					710	212
			φ318×φ10×Right&Left-handed rotation×12					710	203
			φ318×φ10×Right&Left-handed rotation×15					790	243
1000	0.4	49:2	φ318×φ8×Right&Left-handed rotation×12	220	15.5	588	4.5	710	212
			φ318×φ8×Right&Left-handed rotation×15					710	212
			φ318×φ10×Right&Left-handed rotation×12					710	203
			φ318×φ10×Right&Left-handed rotation×15					790	243

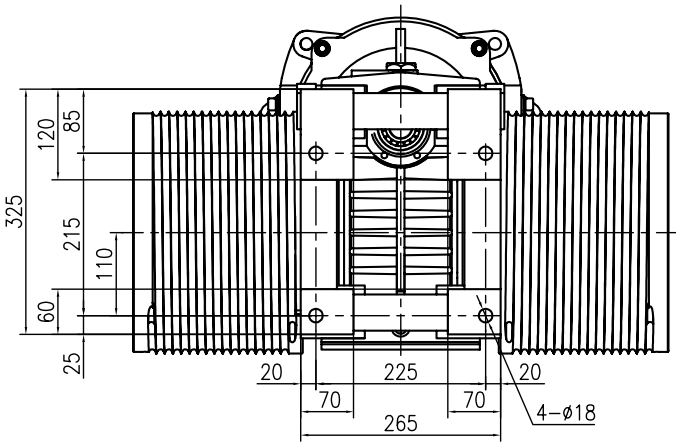
DIMENSIONS



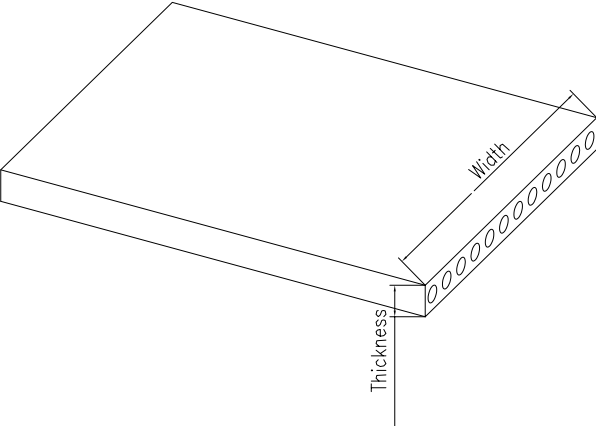
View A/ The dimension of motor shaft end



View B/ The dimension of mounting hole



ELEVATOR FLAT BELT

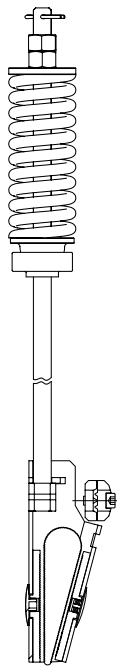


Width: 30mm
Thickness : 3mm
Breaking Strength: $\geq 42\text{KN}$

REMARK

Please contact our technician to confirm the dimensions and parameter.

BELT ROPE CLIP



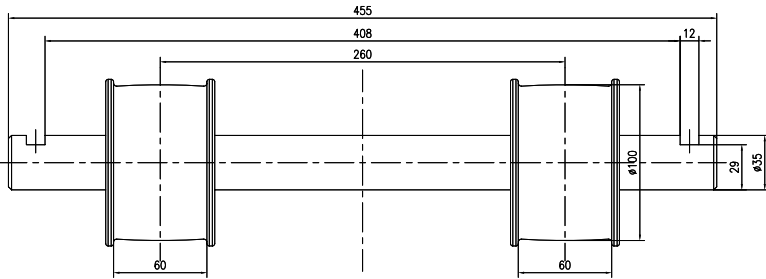
BELT BROKEN DETECTION DEVICE



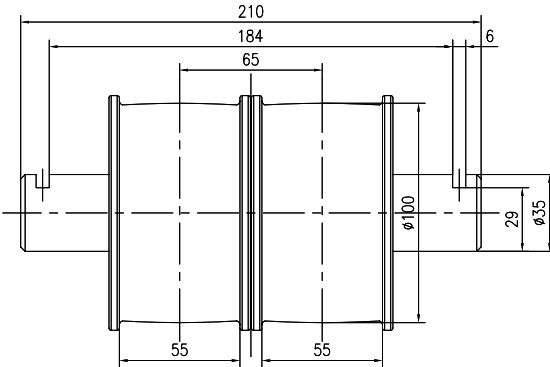
REMARK

Please contact our technician to confirm the dimensions and parameter.

BELT SHEAVE



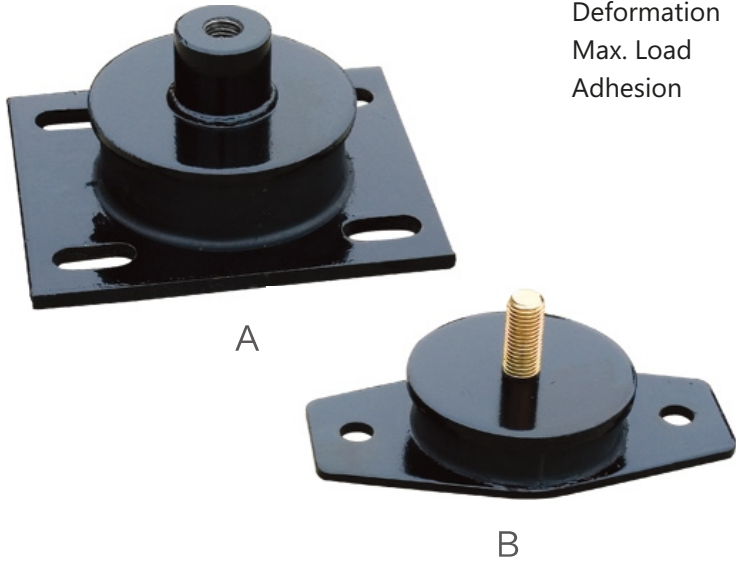
Type1



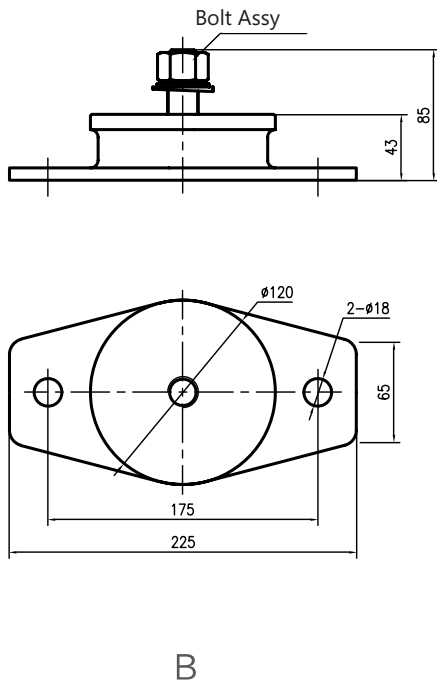
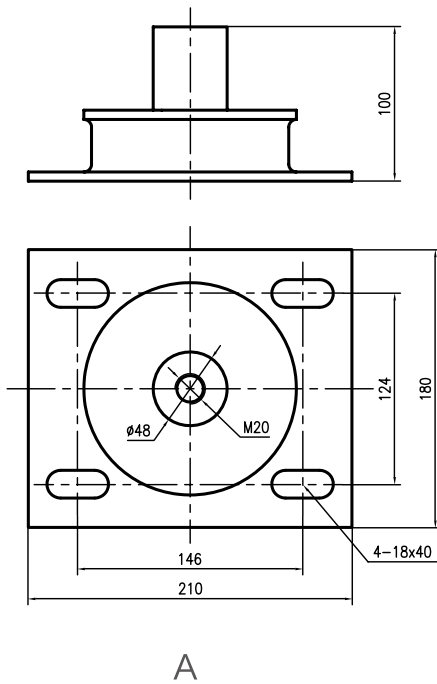
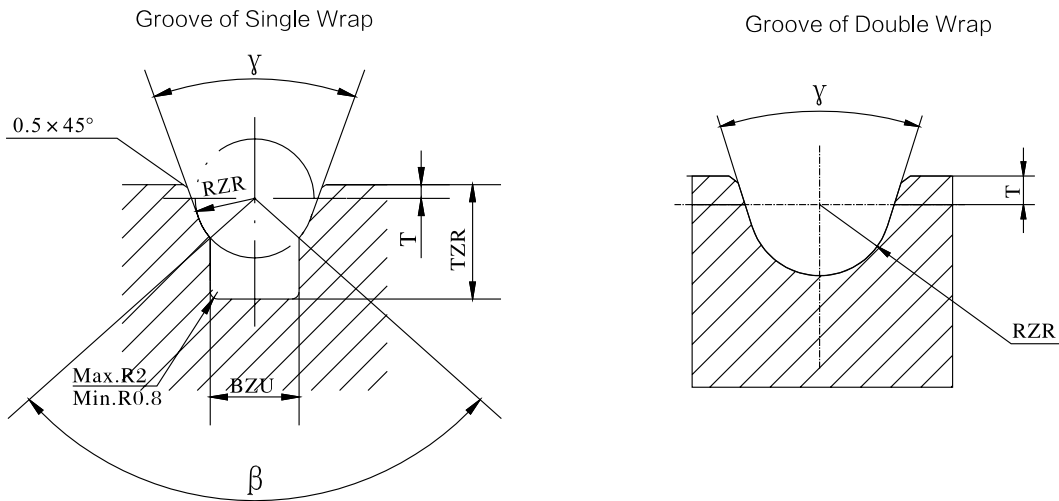
Type2

ABSORBER

Hardness HS 80±5
Deformation 1200kg/2mm
Max. Load 6000kg
Adhesion ≥25kg/cm²



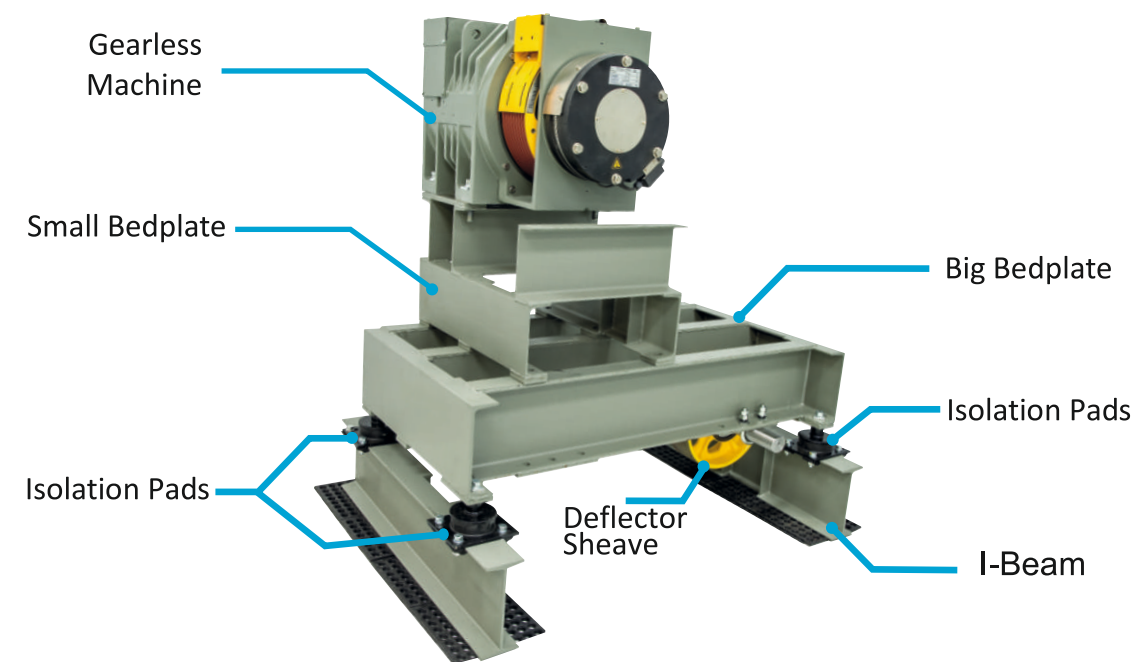
ROPE GROOVE



Groove	Rope	β	γ	BZU	RZR	TZR	T
Single Wrap	8	90	30	5.66	4	9.5	1.5
	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
Double Wrap	10	-	35	-	5.2	-	2
	12	-	35	-	6.2	-	2
	13	-	35	-	6.7	-	2
	16	-	35	-	8.2	-	2

REMARK
This is our factory standard configuration groove.
The user should calculate according to the elevator traction condition and the safety factor of rope.

Machine Room Solution for Gearless Machine



TORINDRIVE

