

SINCE : 1979

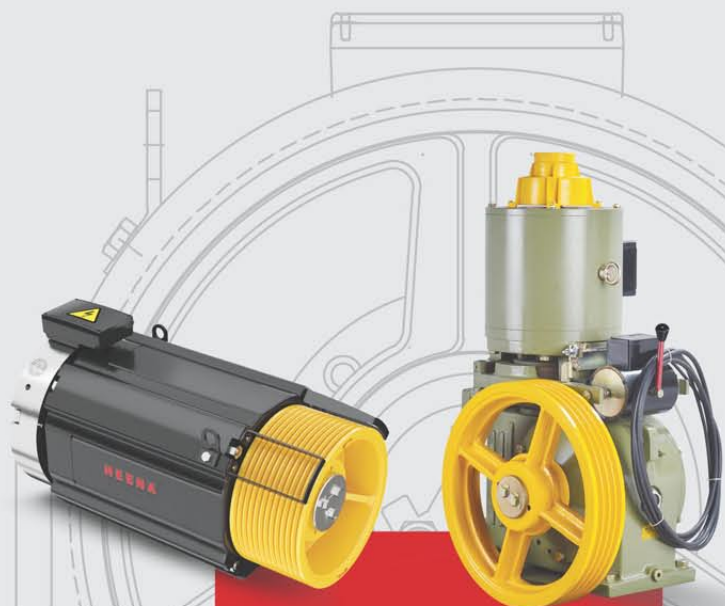
HEENA[®]

HEENA ENGINEERING CO. PVT. LTD.

Think Height
Think us
We Deliver
Power of Height

VL 8

Product Catalogue 2023



**Geared & Gearless
MRL Traction Machine**



Automation of New Era

About Us :-

HEENA ENGINEERING CO. PVT. LTD established in **1979**, was armed with the passion, knowledge and workmanship to drive ahead a success story with the gear of excellence.

It's been a very long time since and today **HEENA ENGINEERING CO. PVT. LTD** stands proud on a pedestal where its contribution to the Power Transmission Industry has been widely acknowledged.

We have state-of-art mfg. infrastructure and have been manufacturing power transmission drives & the same is being promoted under the brand name of "**HEENA Brand**". A tangible indicator of our excellent manufacturing standards, quality and efficiency. We deal in "Done in One" concept which incorporates all machining processes from raw material input through final machining in just one machine & improve high accuracy of machining.

**Commitment to
Excellence and
Customer Delight**



Technology & Quality



1

The heart of our gear box Worm generated on high quality, case hardening, steel ground and super finished on fully automatic 7 AXIS CNC WORM PROFILE GRINDING MACHINE.



2

Worm Wheel hobbled on precision hobbing machine with high accuracy hobs.



3

"DONE IN ONE" CONCEPT
The Integrex Advance Multi-tasking Machines.

GEAR LESS

www.heenaengg.com

New Improved Version of Gearless Series

Compact and
Powerful

SAVE ELEVATOR ENERGY UP TO

5  **%**

Features

- Machine Room Less.
- Gearbox free design.
- Simple adjustment with good motor performance.
- Feedback by encoder for good dynamic machine management.
- Speed & motion profile setting.
- Possibility to define acceleration, deceleration and jerk individually.
- Temperature protection sensor for machine.
- High switching frequency to minimize motor noise.
- Perfect precision of levelling.
- Higher power to weight ratio.
- Protection : IP 41.
- Encoder : Sine-cosine



HGL PM Gearless M/c. 400H (For Home Lift)



HGL - 400 H

Max. Static Load : 2050 Kg

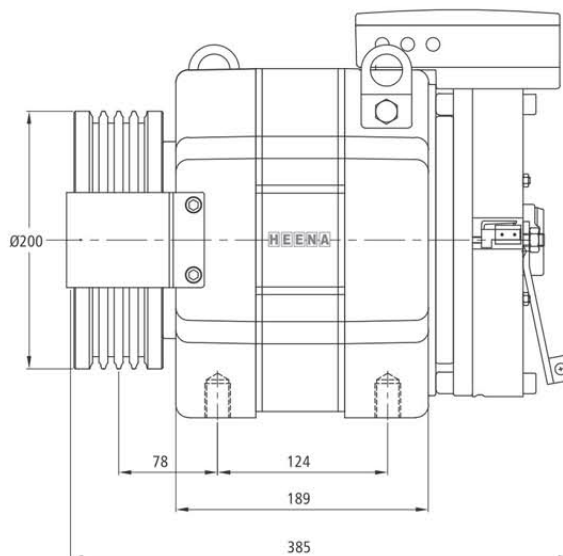
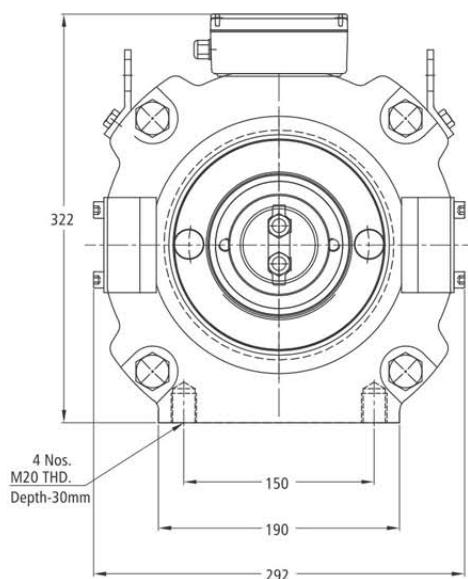
Brake : DC 110V, 0.81 A

Brake Type : Disc

Pole : 20

Rating : IP 41

Weight : 120 Kg



Ropping : 2:1

Type	Load [In kg]	Car Speed [In m/sec]	Sheave [In mm]	Rope [In mm] [Pitch 12mm]	Volts	Power [KW]	Rated Current [A]	Rated Torque [Nm.]	Frequency [Hz]	Speed [RPM]	Travel Height [Mtrs]
HGL-400H-4P-050	272	0.5	200	4 x 8Ø	220	0.7	5.5	70	15.92	95.0	12
HGL-400H-4P-050	272	0.5	200	4 x 8Ø	380	0.7	3.5	70	15.92	95.0	12

• All dimension are in mm • Subject to change without notice !

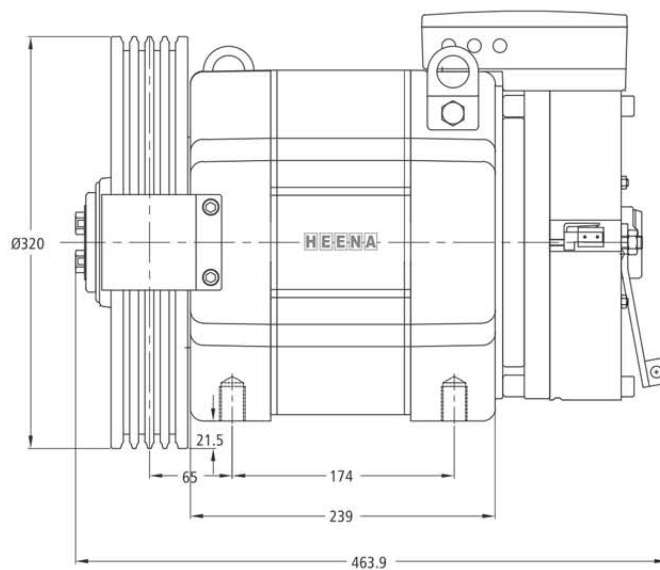
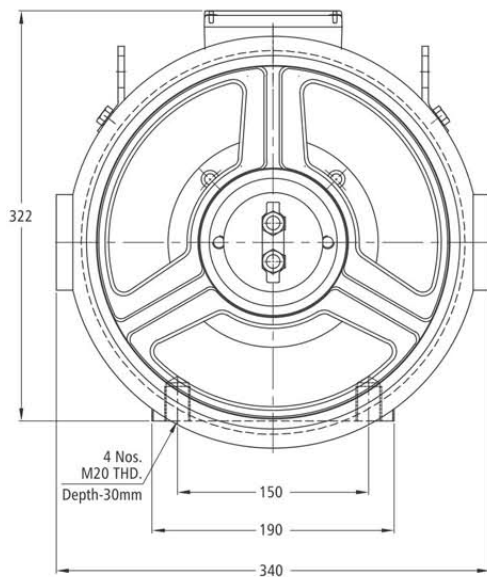
HGL PM Gearless M/c.

400



HGL - 400

Max. Static Load	: 2050 Kg
Brake	: DC 110V, 1.0 A
Brake Type	: Disc
Pole	: 20
Rating	: IP 41
Weight	: 150 Kg



Ropping : 2:1

Type	Load [In kg]	Car Speed [In m/sec]	Sheave [In mm]	Rope [In mm] [Pitch 12mm]	Volts	Power [KW]	Rated Current [A]	Rated Torque [Nm.]	Frequency [Hz]	Speed [RPM]	Travel Height [Mtrs]
HGL-400-4P-050	272	0.5	320	4 x 8Ø	220	1.5	8	240	10.0	60	12
HGL-400-6P-050	408	0.5	200	4 x 8Ø	220	1.5	7.5	150	15.92	95	12
HGL-400-6P-050	408	0.5	200	4 x 8Ø	380	1.1	3.5	110	15.92	95	30
HGL-400-6P-065	408	0.65	320	4 x 8Ø	380	1.75	5.0	214	12.9	78	30
HGL-400-6P-100	408	1.00	320	4 x 8Ø	380	2.7	8.0	214	20.0	119	30
HGL-400-6P-125	408	1.25	320	4 x 8Ø	380	3.0	8.5	200	24.8	149	30

• All dimension are in mm • Subject to change without notice !

HGL PM Gearless M/c. 500



HGL - 500

Max. Static Load : 2300 Kg

Brake : DC 110V, 1.0 A

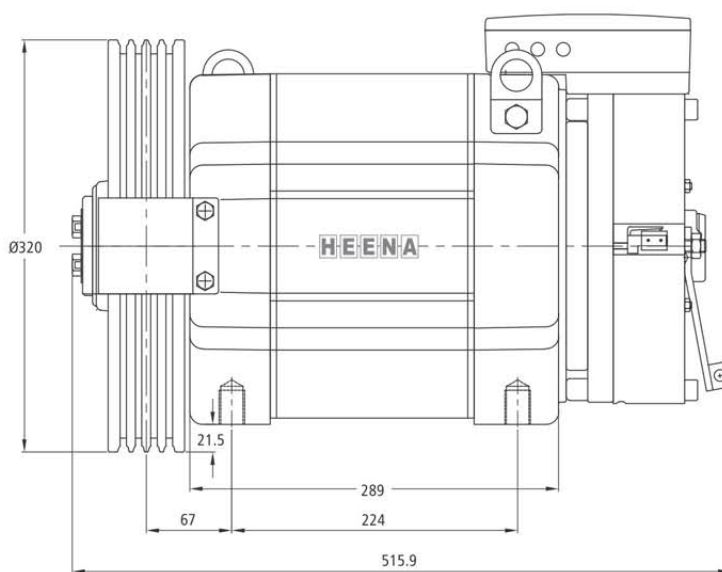
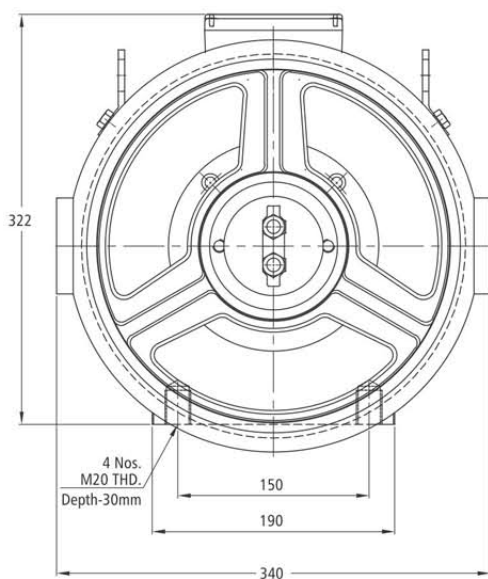
Brake Type : Disc

Pole : 20

Volts : 380 V

Rating : IP 41

Weight : 170 Kg



Ropping : 2:1

Type	Load [In kg]	Car Speed [In m/sec]	Sheave [In mm]	Rope [In mm] [Pitch 12mm]	Power [KW]	Rated Current [A]	Rated Torque [Nm.]	Frequency [Hz]	Speed [RPM]	Travel Height [Mtrs]
HGL-500-6P-150	408	1.5	320	4 x 8Ø	3.5	9.0	190	29.8	180	60
HGL-500-6P-175	408	1.75	320	4 x 8Ø	4.7	12.5	215	34.8	209	60
HGL-500-6P-200	408	2.00	320	4 x 8Ø	5.4	14.5	215	39.8	239	60
HGL-500-8P-065	544	0.65	320	4 x 8Ø	2.1	7.0	257	12.9	78	30
HGL-500-8P-100	544	1.00	320	4 x 8Ø	3.2	9.7	257	20.0	119	30
HGL-500-8P-125	544	1.25	320	4 x 8Ø	4.0	13.0	257	24.8	149	30

• All dimension are in mm • Subject to change without notice !

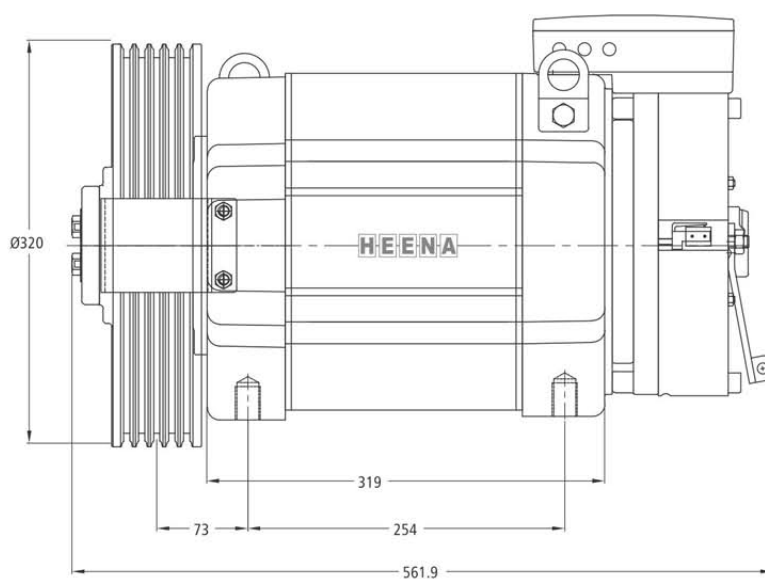
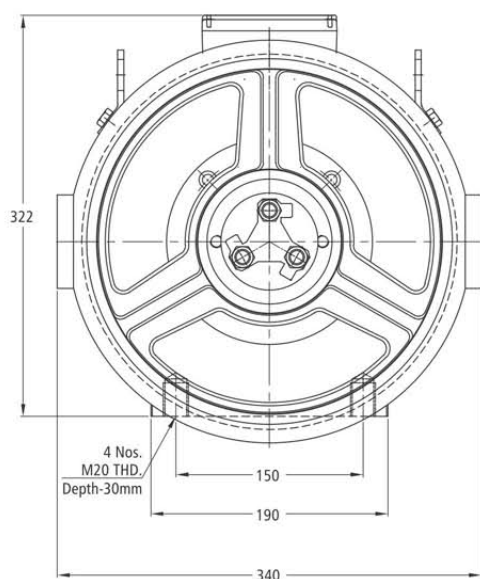
HGL PM Gearless M/c.

600



HGL - 600

Max. Static Load	: 2500 Kg
Brake	: DC 110V, 1.2 A
Brake Type	: Disc
Pole	: 20
Volts	: 380 V
Rating	: IP 41
Weight	: 190 Kg



Ropping : 2:1

Type	Load [In kg]	Car Speed [In m/sec]	Sheave [In mm]	Rope [In mm] [Pitch 12mm]	Power [KW]	Rated Current [A]	Rated Torque [Nm.]	Frequency [Hz]	Speed [RPM]	Travel Height [Mtrs]
HGL-600-8P-150	544	1.50	320	5 x 8 Ø	4.8	13.0	257	29.8	180	60
HGL-600-8P-175	544	1.75	320	5 x 8 Ø	5.5	14.5	257	34.8	209	60
HGL-600-8P-200	544	2.00	320	5 x 8 Ø	6.5	20.0	257	39.8	239	60
HGL-600-10P-065	680	0.65	320	5 x 8 Ø	2.7	8.0	320	12.9	78	60
HGL-600-10P-100	680	1.00	320	5 x 8 Ø	4.0	11.0	320	20.0	119	60
HGL-600-10P-125	680	1.25	320	5 x 8 Ø	5.0	15.0	320	24.8	149	60

• All dimension are in mm • Subject to change without notice !

HGL PM Gearless M/c. 700



HGL - 700

Max. Static Load : 3000 Kg

Brake : DC 110V, 2.2 A

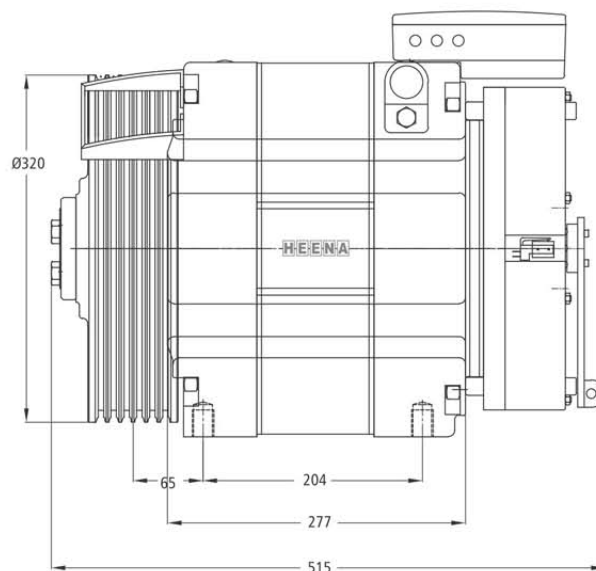
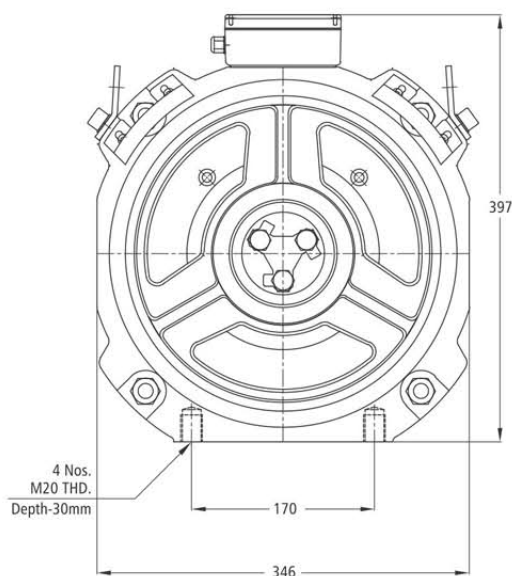
Brake Type : Disc

Pole : 20

Volts : 380 V

Rating : IP 41

Weight : 210 Kg



Ropping : 2:1

Type	Load [In kg]	Car Speed [In m/sec]	Sheave [In mm]	Rope [In mm] [Pitch 12mm]	Power [KW]	Rated Current [A]	Rated Torque [Nm.]	Frequency [Hz]	Speed [RPM]	Travel Height [Mtrs]
HGL-700-10P-150	680	1.50	320	6 x 8 Ø	6.0	17.0	320	29.8	180	80
HGL-700-10P-175	680	1.75	320	6 x 8 Ø	7.0	18.0	320	34.8	209	80
HGL-700-10P-200	680	2.00	320	6 x 8 Ø	8.0	24.0	320	39.8	239	80
HGL-700-13P-065	884	0.65	320	6 x 8 Ø	3.5	10.0	425	12.9	78	60
HGL-700-13P-100	884	1.00	320	6 x 8 Ø	5.1	13.5	410	20.0	119	60
HGL-700-13P-100	884	1.00	400	4 x 10 Ø [Pitch 15mm]	5.1	13.5	512	15.9	95	60
HGL-700-13P-125	884	1.25	320	6 x 8 Ø	6.5	20.0	415	24.8	149	60
HGL-700-16P-065	1088	0.65	320	8 x 8 Ø	4.3	13.0	525	12.9	78	30
HGL-700-16P-100	1088	1.00	320	8 x 8 Ø	6.5	17.0	520	20.0	119	30

• All dimension are in mm • Subject to change without notice !

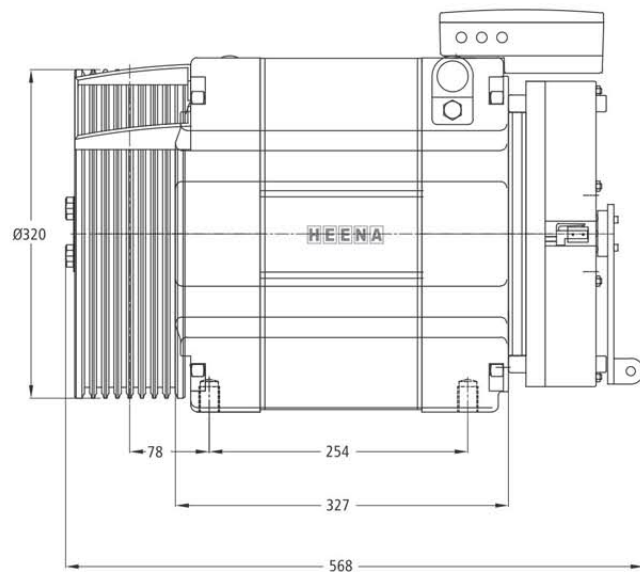
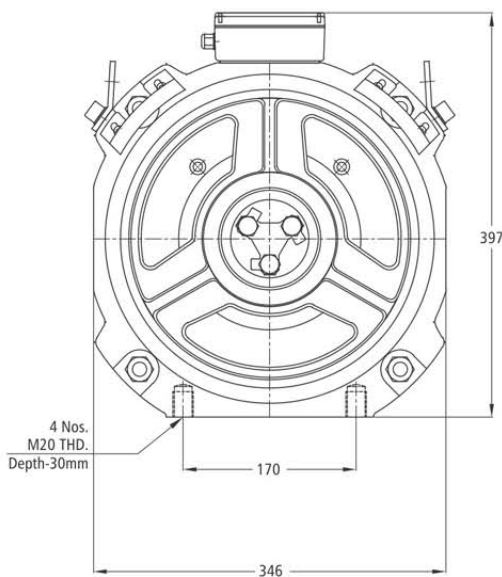
HGL PM Gearless M/c.

800



HGL - 800

Max. Static Load	: 3500 Kg
Brake	: DC 110V, 2.2 A
Brake Type	: Disc
Pole	: 20
Volts	: 380 V
Rating	: IP 41
Weight	: 260 Kg



Ropping : 2:1

Type	Load [In kg]	Car Speed [In m/sec]	Sheave [In mm]	Rope [In mm] [Pitch 12mm]	Power [KW]	Rated Current [A]	Rated Torque [Nm.]	Frequency [Hz]	Speed [RPM]	Travel Height [Mtrs]
HGL-800-13P-150	884	1.50	320	8 x 8 Ø	7.6	20.0	415	29.8	180	80
HGL-800-13P-175	884	1.75	320	8 x 8 Ø	9.0	22.0	415	34.8	209	80
HGL-800-13P-200	884	2.00	320	8 x 8 Ø	10.2	27.0	415	39.8	239	80
HGL-800-16P-100	1088	1.00	320	8 x 8 Ø	6.5	17.0	520	20.0	119	60
HGL-800-16P-100	1088	1.00	400	5 x 10 Ø [Pitch 15mm]	6.5	17.0	650	15.9	95	60
HGL-800-16P-125	1088	1.25	320	8 x 8 Ø	8.0	24.0	510	24.8	149	60
HGL-800-16P-150	1088	1.50	320	8 x 8 Ø	9.5	25.0	510	29.8	180	60
HGL-800-20P-065	1360	0.65	320	8 x 8 Ø	5.2	15.0	640	12.9	78	60
HGL-800-20P-100	1360	1.00	320	8 x 8 Ø	8.0	24.0	640	20.0	119	60

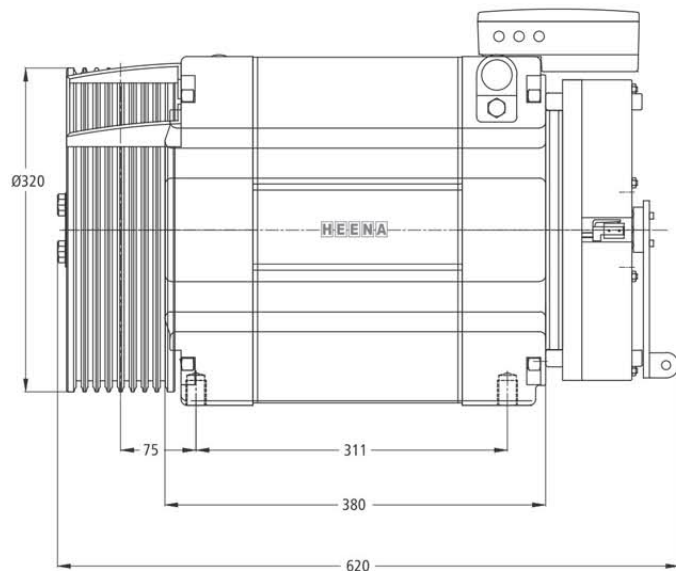
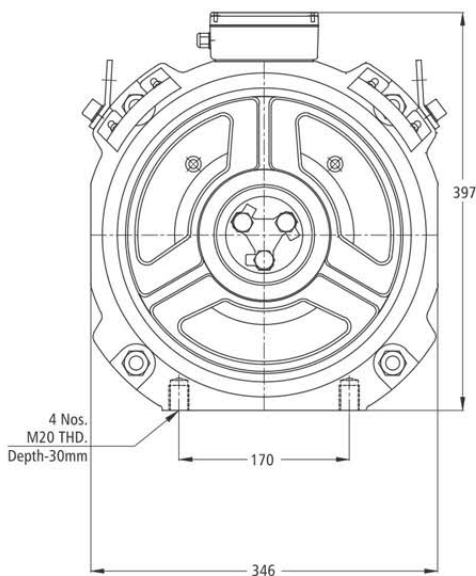
HGL PM Gearless M/c. 900

HEENA®



HGL - 900

Max. Static Load	: 4500 Kg
Brake	: DC 110V, 2.2 A
Brake Type	: Disc
Pole	: 20
Volts	: 380 V
Rating	: IP 41
Weight	: 300 Kg



Ropping : 2:1

Type	Load [In kg]	Car Speed [In m/sec]	Sheave [In mm]	Rope [In mm] [Pitch 12mm]	Power [KW]	Rated Current [A]	Rated Torque [Nm.]	Frequency [Hz]	Speed [RPM]	Travel Height [Mtrs]
HGL-900-16P-175	1088	1.75	320	8 x 8 Ø	11.0	28.0	510	34.8	209	80
HGL-900-16P-200	1088	2.00	320	8 x 8 Ø	13.0	35.0	510	39.8	239	80
HGL-900-20P-125	1360	1.25	320	8 x 8 Ø	10.0	27.0	640	24.8	149	80
HGL-900-20P-150	1360	1.50	320	8 x 8 Ø	12.0	32.0	640	29.8	180	80
HGL-900-20P-175	1360	1.75	320	8 x 8 Ø	14.0	37.0	640	34.8	209	80
HGL-900-20P-200	1360	2.00	320	8 x 8 Ø	16.0	42.0	640	39.8	239	80
HGL-900-22P-065	1500	0.65	320	8 x 8 Ø	6.0	17.0	720	12.9	78	80
HGL-900-22P-100	1500	1.00	320	8 x 8 Ø	9.0	24.0	720	20.0	119	80
HGL-900-22P-125	1500	1.25	320	8 x 8 Ø	11.0	28.0	720	24.8	149	80
HGL-900-22P-150	1500	1.50	320	8 x 8 Ø	13.5	36.0	720	29.8	180	80
HGL-900-22P-175	1500	1.75	320	8 x 8 Ø	15.5	40.0	720	34.8	209	80
HGL-900-22P-200	1500	2.00	320	8 x 8 Ø	18.0	48.0	720	39.8	239	80

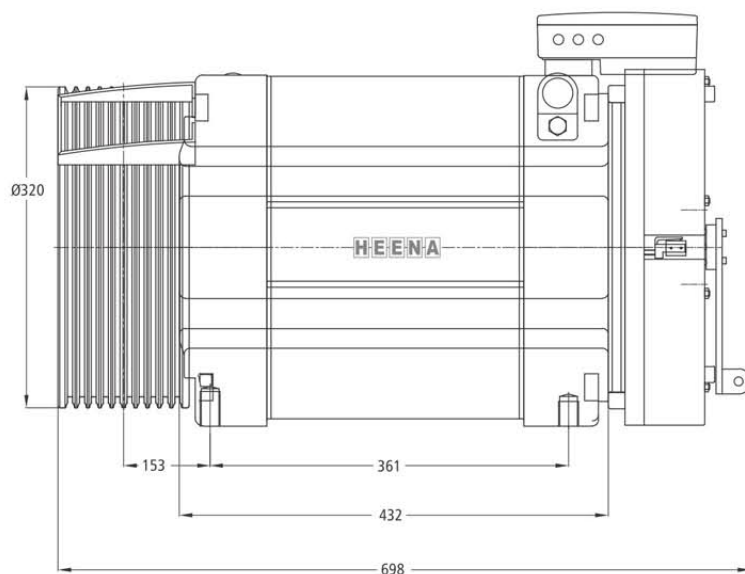
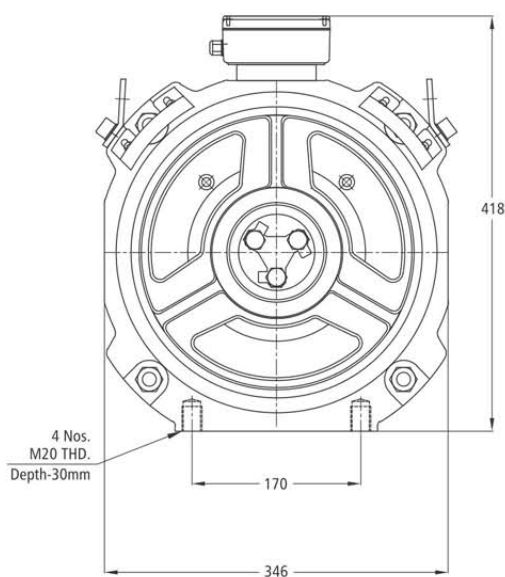
HGL PM Gearless M/c.

1000



HGL - 1000

Max. Static Load	: 5000 Kg
Brake	: DC 110V, 2.3 A
Brake Type	: Disc
Pole	: 20
Volts	: 380 V
Rating	: IP 41
Weight	: 370 Kg



Ropping : 2:1

Type	Load [In kg]	Car Speed [In m/sec]	Sheave [In mm]	Rope [In mm] [Pitch 12mm]	Power [KW]	Rated Current [A]	Rated Torque [Nm.]	Frequency [Hz]	Speed [RPM]	Travel Height [Mtrs]
HGL-1000-26P-065	1768	0.65	320	10 x 8 Ø	7.0	20.0	840	12.9	78	80
HGL-1000-26P-100	1768	1.00	320	10 x 8 Ø	10.5	28.0	840	20.0	119	80
HGL-1000-26P-125	1768	1.25	320	10 x 8 Ø	13.25	35.0	840	24.0	149	80
HGL-1000-26P-150	1768	1.50	320	10 x 8 Ø	16.0	42.0	840	29.8	180	80
HGL-1000-26P-175	1768	1.75	320	10 x 8 Ø	18.5	50.0	840	34.8	209	80
HGL-1000-26P-200	1768	2.00	320	10 x 8 Ø	21.0	55.0	840	39.8	239	80
HGL-1000-30P-065	2040	0.65	320	10 x 8 Ø	8.0	22.0	960	12.9	78	80
HGL-1000-30P-100	2040	1.00	320	10 x 8 Ø	12.0	32.0	960	20.0	119	80
HGL-1000-30P-125	2040	1.25	320	10 x 8 Ø	15.0	39.0	960	24.0	149	80
HGL-1000-30P-150	2040	1.50	320	10 x 8 Ø	18.0	48.0	960	29.8	180	80
HGL-1000-30P-175	2040	1.75	320	10 x 8 Ø	21.0	55.0	960	34.8	209	80
HGL-1000-30P-200	2040	2.00	320	10 x 8 Ø	24.0	63.0	960	39.8	239	80

HGL PM Gearless M/c. 1100

HEENA®



HGL - 1100

Max. Static Load : 5600 Kg

Brake : DC 110V, 2.7 A

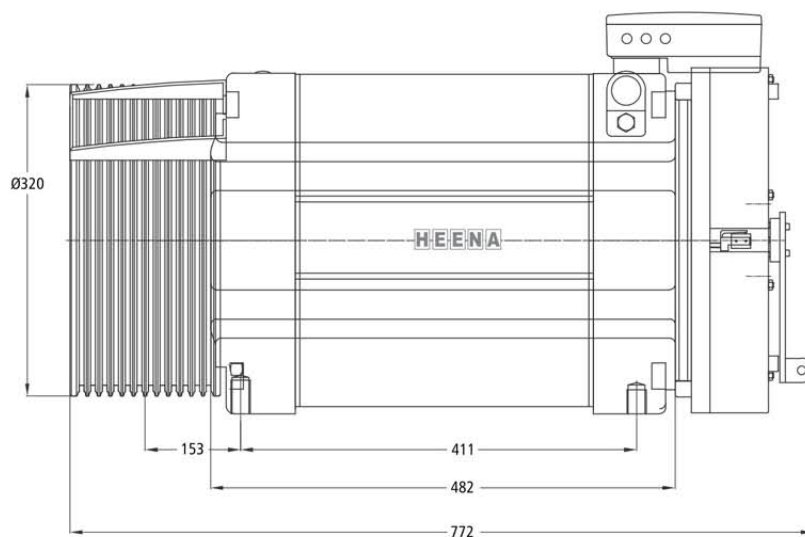
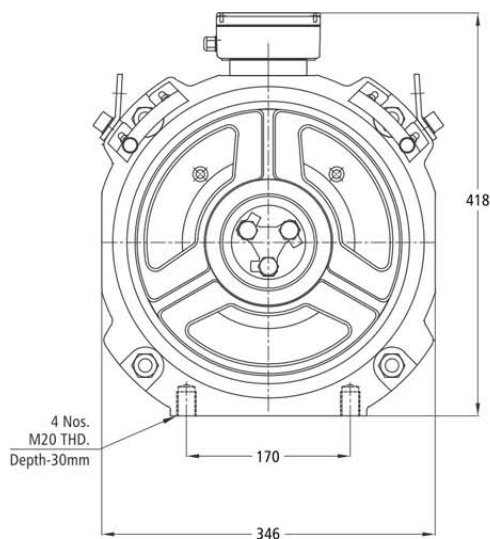
Brake Type : Disc

Pole : 20

Volts : 380 V

Rating : IP 41

Weight : 420 Kg



Ropping : 2:1

Type	Load [In kg]	Car Speed [In m/sec]	Sheave [In mm]	Rope [In mm] [Pitch 12mm]	Power [KW]	Rated Current [A]	Rated Torque [Nm.]	Frequency [Hz]	Speed [RPM]	Travel Height [Mtrs]
HGL-1100-37P-065	2500	0.65	320	12 x 8 Ø	10.0	27.0	1190	12.9	78	80
HGL-1100-37P-100	2500	1.00	320	12 x 8 Ø	15.0	39.0	1190	20.0	119	80
HGL-1100-37P-125	2500	1.25	320	12 x 8 Ø	18.8	50.0	1190	24.8	149	80
HGL-1100-37P-150	2500	1.50	320	12 x 8 Ø	22.5	58.0	1190	29.8	180	80
HGL-1100-37P-200	2500	2.00	320	12 x 8 Ø	30.0	65.0	1190	39.8	239	80
HGL-1100-44P-065	3000	0.65	320	12 x 8 Ø	12.0	32.0	1440	12.9	78	80
HGL-1100-44P-100	3000	1.00	320	12 x 8 Ø	18.0	48.0	1440	20.0	119	80
HGL-1100-44P-125	3000	1.25	320	12 x 8 Ø	22.5	58.0	1440	24.8	149	80
HGL-1100-44P-150	3000	1.50	320	12 x 8 Ø	27.0	60.0	1440	29.8	180	80

• All dimension are in mm • Subject to change without notice !

HGL PM Gearless M/c.

1-408



HGL - 1-408

Max. Static Load : 2000 Kg

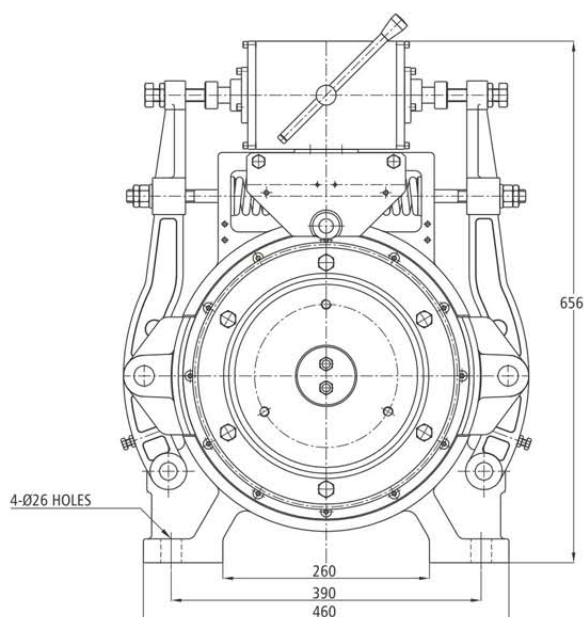
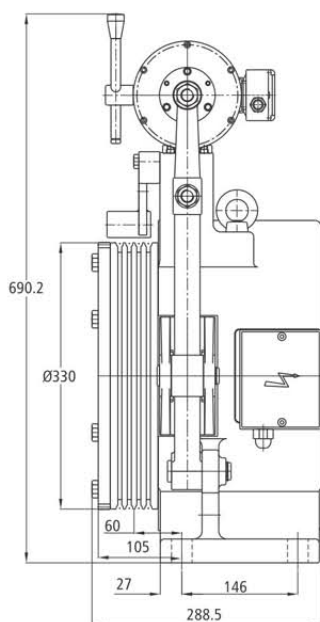
Brake : DC 110V, 2.0 A

Brake Type : Drum

Pole : 20

Volts : 380 V

Weight : 220 Kg

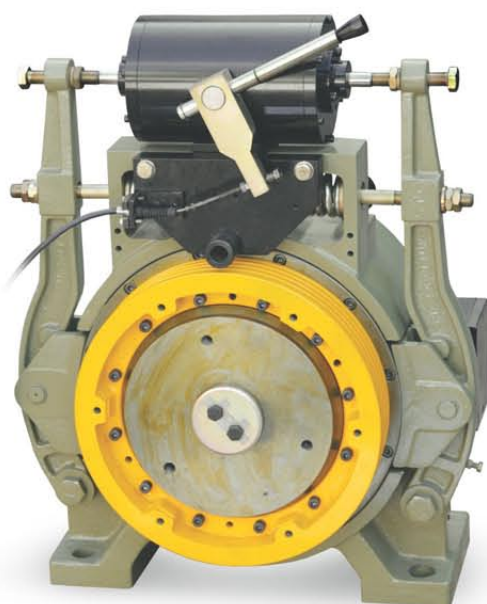


Ropping : 2:1

Type	Load [In kg]	Car Speed [In m/sec]	Sheave [In mm]	Rope [In mm] [Pitch 12mm]	Power [KW]	Rated Current [A]	Rated Torque [Nm.]	Frequency [Hz]	Speed [RPM]	Travel Height [Mtrs]
HGL-1-408-065	408	0.65	330	4 x 8mm	1.7	6	215	12.7	76	45
HGL-1-408-100	408	1.00	330	4 x 8mm	2.8	8	233	19.3	116	45
HGL-1-408-150	408	1.50	330	4 x 8mm	4.2	12.8	233	28.9	174	45

• All dimension are in mm • Subject to change without notice !

HGL PM Gearless M/c. 1-544



HGL - 1-544

Max. Static Load : 2300 Kg

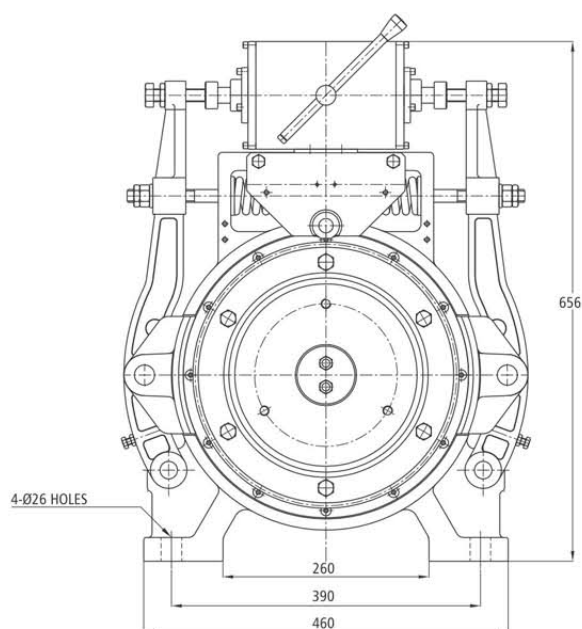
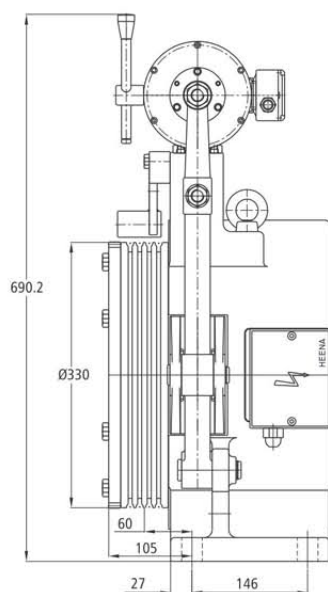
Brake : DC 110V, 2.0 A

Brake Type : Drum

Pole : 20

Volts : 380 V

Weight : 250 Kg



Ropping : 2:1

Type	Load [In kg]	Car Speed [In m/sec]	Sheave [In mm]	Rope [In mm] [Pitch 12mm]	Power [KW]	Rated Current [A]	Rated Torque [Nm.]	Frequency [Hz]	Speed [RPM]	Travel Height [Mtrs]
HGL-1-544-065	544	0.65	330	4 x 8mm	2.8	8	356	12.7	76	45
HGL-1-544-100	544	1.00	330	4 x 8mm	3.8	9	312	19.3	116	45
HGL-1-544-150	544	1.50	330	4 x 8mm	5.6	14.5	307	28.9	174	45

• All dimension are in mm • Subject to change without notice !

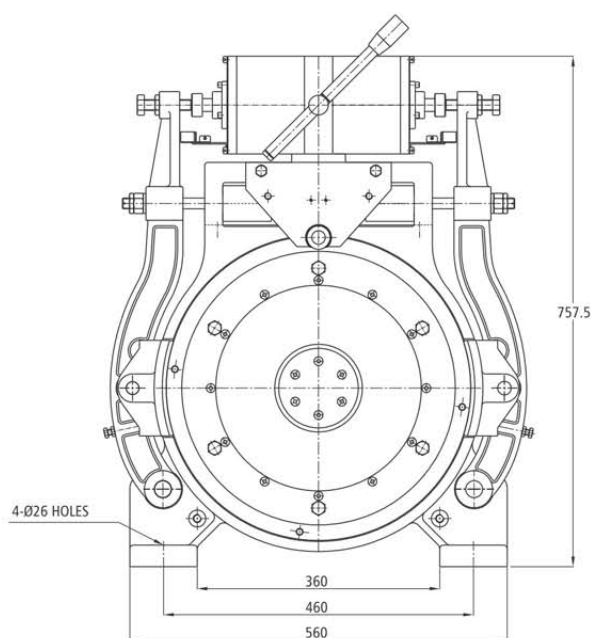
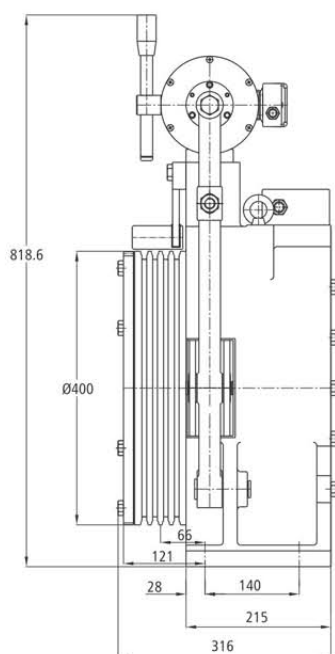
HGL PM Gearless M/c.

1-680



HGL - 1-680

Max. Static Load	: 3000 Kg
Brake	: DC 110V, 2.0 A
Brake Type	: Drum
Pole	: 24
Volts	: 380 V
Weight	: 320 Kg



Ropping : 2:1

Type	Load [In kg]	Car Speed [In m/sec]	Sheave [In mm]	Rope [In mm] [Pitch 15mm]	Power [KW]	Rated Current [A]	Rated Torque [Nm.]	Frequency [Hz]	Speed [RPM]	Travel Height [Mtrs]
HGL-1-680-065	680	0.65	400	4 x 10mm	3.6	9	554	12.4	62	80
HGL-1-680-100	680	1.00	400	4 x 10mm	4.6	12	462	19	95	80
HGL-1-680-150	680	1.50	400	4 x 10mm	7	18	462	28.62	143	80
HGL-1-680-175	680	1.75	400	4 x 10mm	8.2	18	462	33.39	167	80

PM Gearless Machine Selection Chart



Ropping : 2:1

Sr. No.	Model	Type	Load [In Kg]	Car Speed [In m/sec]	Shave [In mm]	Rope [In mm] [Pitch 12mm]	Max. Static Load [kg]	Volts	Power [kw]	Rated Current [A]	Rated Torque [Nm.]	Frequency [Hz]	Speed [RPM]	POLE	Travel Height [Mtr]
1	HGL-400H	HGL-400H-4P-050	272	0.5	200	4 x 8Ø	2050	220	0.7	5.5	70	15.92	95.0	20	12
2	HGL-400H	HGL-400H-4P-050	272	0.5	200	4 x 8Ø	2050	380	0.7	3.5	70	15.92	95.0	20	12
3	HGL-400	HGL-400-4P-050	272	0.5	320	4 x 8Ø	2050	220	1.5	8	240	10.0	60	20	12
4	HGL-400	HGL-400-6P-050	408	0.5	200	4 x 8Ø	2050	220	1.5	7.5	150	15.92	95	20	12
5	HGL-400	HGL-400-6P-050	408	0.5	200	4 x 8Ø	2050	380	1.1	3.5	110	15.92	95	20	30
6	HGL-400	HGL-400-6P-065	408	0.65	320	4 x 8Ø	2050	380	1.75	5.0	214	12.9	78	20	30
7	HGL-400	HGL-400-6P-100	408	1.00	320	4 x 8Ø	2050	380	2.7	8.0	214	20.0	119	20	30
8	HGL-400	HGL-400-6P-125	408	1.25	320	4 x 8Ø	2050	380	3.0	8.5	200	24.8	149	20	30
9	HGL-500	HGL-500-6P-150	408	1.5	320	4 x 8Ø	2300	380	3.5	9.0	190	29.8	180	20	60
10	HGL-500	HGL-500-6P-175	408	1.75	320	4 x 8Ø	2300	380	4.7	12.5	215	34.8	209	20	60
11	HGL-500	HGL-500-6P-200	408	2.00	320	4 x 8Ø	2300	380	5.4	14.5	215	39.8	239	20	60
12	HGL-1-408	HGL-1-408-065	408	0.65	330	4 x 8mm	2000	380	1.7	6	215	12.7	76	20	45
13	HGL-1-408	HGL-1-408-100	408	1.00	330	4 x 8mm	2000	380	2.8	8	233	19.3	116	20	45
14	HGL-1-408	HGL-1-408-150	408	1.50	330	4 x 8mm	2000	380	4.2	12.8	233	28.9	174	20	45
15	HGL-500	HGL-500-8P-065	544	0.65	320	4 x 8Ø	2300	380	2.1	7.0	257	12.9	78	20	30
16	HGL-500	HGL-500-8P-100	544	1.00	320	4 x 8Ø	2300	380	3.2	9.7	257	20.0	119	20	30
17	HGL-500	HGL-500-8P-125	544	1.25	320	4 x 8Ø	2300	380	4.0	13.0	257	24.8	149	20	30
18	HGL-600	HGL-600-8P-150	544	1.50	320	5 x 8 Ø	2500	380	4.8	13.0	257	29.8	180	20	60
19	HGL-600	HGL-600-8P-175	544	1.75	320	5 x 8 Ø	2500	380	5.5	14.5	257	34.8	209	20	60
20	HGL-600	HGL-600-8P-200	544	2.00	320	5 x 8 Ø	2500	380	6.5	20.0	257	39.8	239	20	60
21	HGL-1-544	HGL-1-544-065	544	0.65	330	4 x 8mm	2300	380	2.8	8	356	12.7	76	20	45
22	HGL-1-544	HGL-1-544-100	544	1.00	330	4 x 8mm	2300	380	3.8	9	312	19.3	116	20	45
23	HGL-1-544	HGL-1-544-150	544	1.50	330	4 x 8mm	2300	380	5.6	14.5	307	28.9	174	20	45
24	HGL-600	HGL-600-10P-065	680	0.65	320	5 x 8 Ø	2500	380	2.7	8.0	320	12.9	78	20	60
25	HGL-600	HGL-600-10P-100	680	1.00	320	5 x 8 Ø	2500	380	4.0	11.0	320	20.0	119	20	60
26	HGL-600	HGL-600-10P-125	680	1.25	320	5 x 8 Ø	2500	380	5.0	15.0	320	24.8	149	20	60
27	HGL-700	HGL-700-10P-150	680	1.50	320	6 x 8 Ø	3000	380	6.0	17.0	320	29.8	180	20	80
28	HGL-700	HGL-700-10P-175	680	1.75	320	6 x 8 Ø	3000	380	7.0	18.0	320	34.8	209	20	80
29	HGL-700	HGL-700-10P-200	680	2.00	320	6 x 8 Ø	3000	380	8.0	24.0	320	39.8	239	20	80
30	HGL-1-680	HGL-1-680-065	680	0.65	400	4 x 10mm [Pitch 15mm]	3000	380	3.6	9	554	12.4	62	24	80
31	HGL-1-680	HGL-1-680-100	680	1.00	400	4 x 10mm [Pitch 15mm]	3000	380	4.6	12	462	19	95	24	80
32	HGL-1-680	HGL-1-680-150	680	1.50	400	4 x 10mm [Pitch 15mm]	3000	380	7	18	462	28.62	143	24	80
33	HGL-1-680	HGL-1-680-175	680	1.75	400	4 x 10mm [Pitch 15mm]	3000	380	8.2	18	462	33.39	167	24	80
34	HGL-700	HGL-700-13P-065	884	0.65	320	6 x 8 Ø	3000	380	3.5	10.0	425	12.9	78	20	60
35	HGL-700	HGL-700-13P-100	884	1.00	320	6 x 8 Ø	3000	380	5.1	13.5	410	20.0	119	20	60
36	HGL-700	HGL-700-13P-100	884	1.00	400	4 x 10 Ø [Pitch 15mm]	3000	380	5.1	13.5	512	15.9	95	20	60
37	HGL-700	HGL-700-13P-125	884	1.25	320	6 x 8 Ø	3000	380	6.5	20.0	415	24.8	149	20	60
38	HGL-800	HGL-800-13P-150	884	1.50	320	8 x 8 Ø	3500	380	7.6	20.0	415	29.8	180	20	80
39	HGL-800	HGL-800-13P-175	884	1.75	320	8 x 8 Ø	3500	380	9.0	22.0	415	34.8	209	20	80
40	HGL-800	HGL-800-13P-200	884	2.00	320	8 x 8 Ø	3500	380	10.2	27.0	415	39.8	239	20	80

PM Gearless Machine Selection Chart

Sr. No.	Model	Type	Load [In Kg]	Car Speed [In m/sec]	Shave [In mm]	Rope [In mm] [Pitch 12mm]	Max. Static Load [kg]	Volts	Power [kw]	Rated Current [A]	Rated Torque [Nm.]	Frequency [Hz]	Speed [RPM]	POLE	Travel Height [Mtr]
41	HGL-700	HGL-700-16P-065	1088	0.65	320	8 x 8 Ø	3000	380	4.3	13.0	525	12.9	78	20	30
42	HGL-700	HGL-700-16P-100	1088	1.00	320	8 x 8 Ø	3000	380	6.5	17.0	520	20.0	119	20	30
43	HGL-800	HGL-800-16P-100	1088	1.00	320	8 x 8 Ø	3500	380	6.5	17.0	520	20.0	119	20	60
44	HGL-800	HGL-800-16P-100	1088	1.00	400	5 x 10 Ø [Pitch 15mm]	3500	380	6.5	17.0	650	15.9	95	20	60
45	HGL-800	HGL-800-16P-125	1088	1.25	320	8 x 8 Ø	3500	380	8.0	24.0	510	24.8	149	20	60
46	HGL-800	HGL-800-16P-150	1088	1.50	320	8 x 8 Ø	3500	380	9.5	25.0	510	29.8	180	20	60
47	HGL-900	HGL-900-16P-175	1088	1.75	320	8 x 8 Ø	4500	380	11.0	28.0	510	34.8	209	20	80
48	HGL-900	HGL-900-16P-200	1088	2.00	320	8 x 8 Ø	4500	380	13.0	35.0	510	39.8	239	20	80
49	HGL-800	HGL-800-20P-065	1360	0.65	320	8 x 8 Ø	3500	380	5.2	15.0	640	12.9	78	20	60
50	HGL-800	HGL-800-20P-100	1360	1.00	320	8 x 8 Ø	3500	380	8.0	24.0	640	20.0	119	20	60
51	HGL-900	HGL-900-20P-125	1360	1.25	320	8 x 8 Ø	4500	380	10.0	27.0	640	24.8	149	20	80
52	HGL-900	HGL-900-20P-150	1360	1.50	320	8 x 8 Ø	4500	380	12.0	32.0	640	29.8	180	20	80
53	HGL-900	HGL-900-20P-175	1360	1.75	320	8 x 8 Ø	4500	380	14.0	37.0	640	34.8	209	20	80
54	HGL-900	HGL-900-20P-200	1360	2.00	320	8 x 8 Ø	4500	380	16.0	42.0	640	39.8	239	20	80
55	HGL-900	HGL-900-22P-065	1500	0.65	320	8 x 8 Ø	4500	380	6.0	17.0	720	12.9	78	20	80
56	HGL-900	HGL-900-22P-100	1500	1.00	320	8 x 8 Ø	4500	380	9.0	24.0	720	20.0	119	20	80
57	HGL-900	HGL-900-22P-125	1500	1.25	320	8 x 8 Ø	4500	380	11.0	28.0	720	24.8	149	20	80
58	HGL-900	HGL-900-22P-150	1500	1.50	320	8 x 8 Ø	4500	380	13.5	36.0	720	29.8	180	20	80
59	HGL-900	HGL-900-22P-175	1500	1.75	320	8 x 8 Ø	4500	380	15.5	40.0	720	34.8	209	20	80
60	HGL-900	HGL-900-22P-200	1500	2.00	320	8 x 8 Ø	4500	380	18.0	48.0	720	39.8	239	20	80
61	HGL-1000	HGL-1000-26P-065	1768	0.65	320	10 x 8 Ø	5000	380	7.0	20.0	840	12.9	78	20	80
62	HGL-1000	HGL-1000-26P-100	1768	1.00	320	10 x 8 Ø	5000	380	10.5	28.0	840	20.0	119	20	80
62	HGL-1000	HGL-1000-26P-125	1768	1.25	320	10 x 8 Ø	5000	380	13.25	35.0	840	24.0	149	20	80
64	HGL-1000	HGL-1000-26P-150	1768	1.50	320	10 x 8 Ø	5000	380	16.0	42.0	840	29.8	180	20	80
65	HGL-1000	HGL-1000-26P-175	1768	1.75	320	10 x 8 Ø	5000	380	18.5	50.0	840	34.8	209	20	80
66	HGL-1000	HGL-1000-26P-200	1768	2.00	320	10 x 8 Ø	5000	380	21.0	55.0	840	39.8	239	20	80
67	HGL-1000	HGL-1000-30P-065	2040	0.65	320	10 x 8 Ø	5000	380	8.0	22.0	960	12.9	78	20	80
68	HGL-1000	HGL-1000-30P-100	2040	1.00	320	10 x 8 Ø	5000	380	12.0	32.0	960	20.0	119	20	80
69	HGL-1000	HGL-1000-30P-125	2040	1.25	320	10 x 8 Ø	5000	380	15.0	39.0	960	24.0	149	20	80
70	HGL-1000	HGL-1000-30P-150	2040	1.50	320	10 x 8 Ø	5000	380	18.0	48.0	960	29.8	180	20	80
71	HGL-1000	HGL-1000-30P-175	2040	1.75	320	10 x 8 Ø	5000	380	21.0	55.0	960	34.8	209	20	80
72	HGL-1000	HGL-1000-30P-200	2040	2.00	320	10 x 8 Ø	5000	380	24.0	63.0	960	39.8	239	20	80
73	HGL-1100	HGL-1100-37P-065	2500	0.65	320	12 x 8 Ø	5600	380	10.0	27.0	1190	12.9	78	20	80
74	HGL-1100	HGL-1100-37P-100	2500	1.00	320	12 x 8 Ø	5600	380	15.0	39.0	1190	20.0	119	20	80
75	HGL-1100	HGL-1100-37P-125	2500	1.25	320	12 x 8 Ø	5600	380	18.8	50.0	1190	24.8	149	20	80
76	HGL-1100	HGL-1100-37P-150	2500	1.50	320	12 x 8 Ø	5600	380	22.5	58.0	1190	29.8	180	20	80
77	HGL-1100	HGL-1100-37P-200	2500	2.00	320	12 x 8 Ø	5600	380	30.0	65.0	1190	39.8	239	20	80
78	HGL-1100	HGL-1100-44P-065	3000	0.65	320	12 x 8 Ø	5600	380	12.0	32.0	1440	12.9	78	20	80
79	HGL-1100	HGL-1100-44P-100	3000	1.00	320	12 x 8 Ø	5600	380	18.0	48.0	1440	20.0	119	20	80
80	HGL-1100	HGL-1100-44P-125	3000	1.25	320	12 x 8 Ø	5600	380	22.5	58.0	1440	24.8	149	20	80
81	HGL-1100	HGL-1100-44P-150	3000	1.50	320	12 x 8 Ø	5600	380	27.0	60.0	1440	29.8	180	20	80

GEARED

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Geared Series

Strong and Powerful

When you need to move a lot of people in a little time – economically, comfortably and reliably - you need a traction machine.

Ideal for high and medium-rise buildings. Traction machine delivers smooth, quick acceleration, energy efficiency and attractive cost for high-rise buildings. Especially, these machine impress with their versatility, power and speed.

A superior combination of flexibility and performance. To create the highest quality traction machine, our designers and engineers put their technological creativity to its full potential. Our traction machine combine the latest digital technology with world-renowned construction to achieve a new level of precision, energy efficiency, safety and reliability.

- The traction machine system is the most popular due to its flexibility.
- The geared traction machine is composed of 2 parts : the gear box and the electric motor.
- The machinery may be located at the top of the building, or in the basement.
- If you need a high-speed machine in high-rise building, a traction machine is your only choice.
- Capitalizing on advances in motion control technology (Variable Voltage Variable Frequency), a frequency inverter smoothes the starts and stops of the cabin and conserves energy.

High quality gear machines performance is of the highest standard.



It purifies the power
grid environment



It improves the machine
room temperature

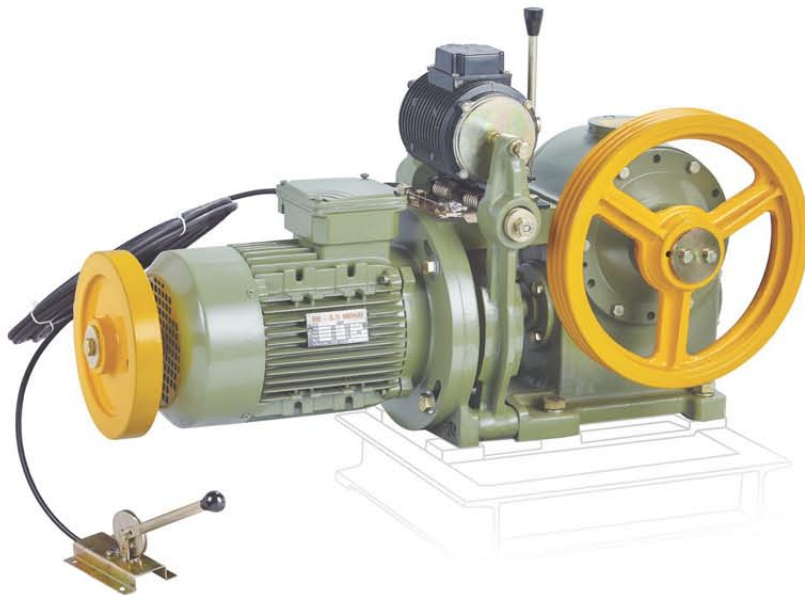


Above 30% of
energy-saving



HE-3.5 Bottom Traction Unit

MRL & MR



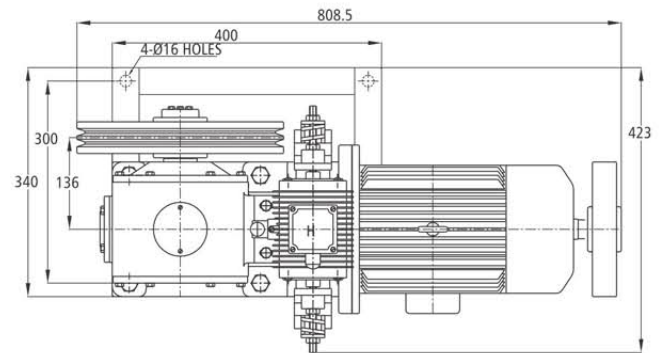
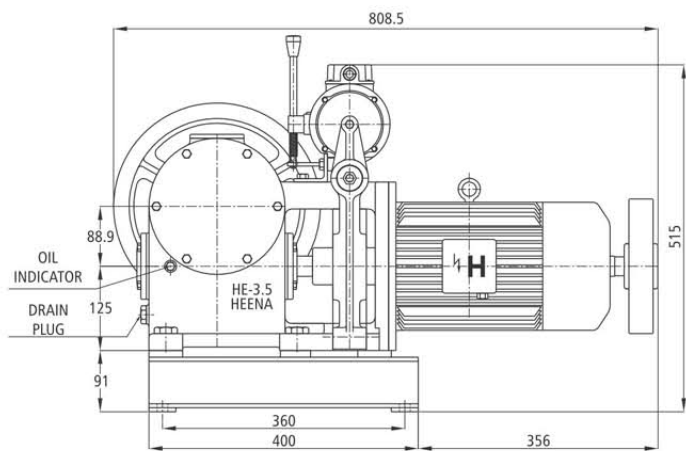
HE-3.5 Mono

Max. Static Load : 800 Kg

Brake : DC 110V, 1.0 A

Weight : 130 Kg

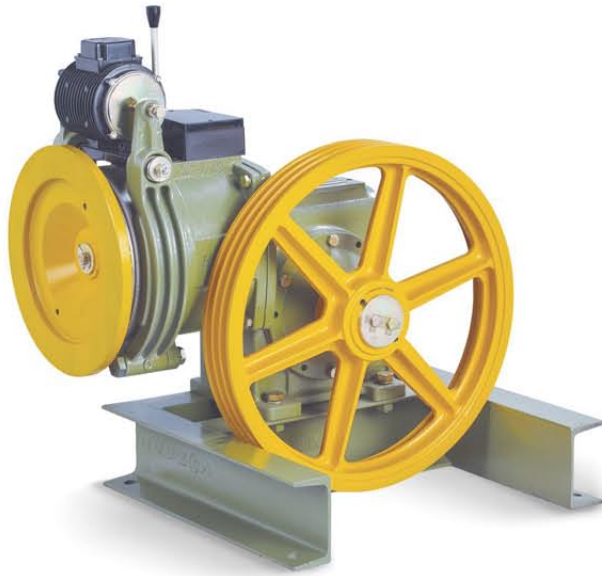
Manual Brake Releaser is (Optional) For MRL.



Model	Load [In kg]	Speed [In m/sec]	Gear Ratio	Sheave [In mm]	Rope [In mm] [Pitch 12m.m.]	Ropping	Power [KW]	Power [HP]	Pole	Travel / Height [Mtrs.]
HE - 3.5	150	0.32	50/1	305	2/3 X 8	1 : 1	1.5	2	6 P	15
HE - 3.5	250	0.32	50/1	305	2/3 X 8	1 : 1	2.2	3	6 P	10
HE - 3.5	250	0.45	50/1	305	3 X 8	1 : 1	2.2	3	4 P	10
HE - 3.5	272	0.38	30/1	305	3 X 8	2 : 1	2.2	3	4 P	15

• All dimension are in mm • Subject to change without notice !

HE-4 Upper Traction Unit MONO

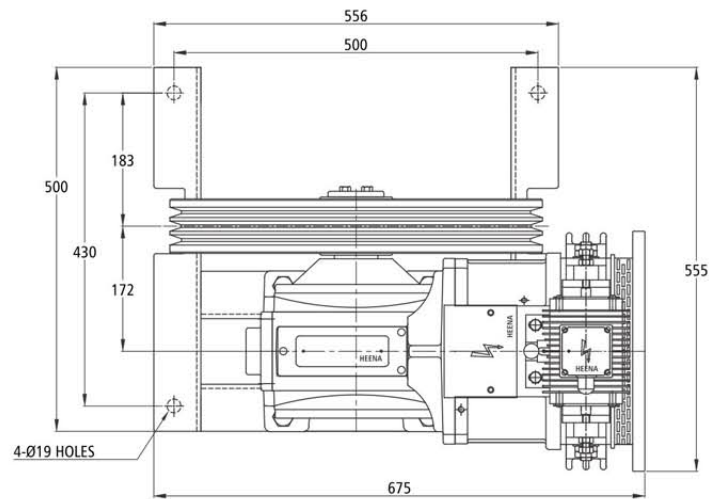
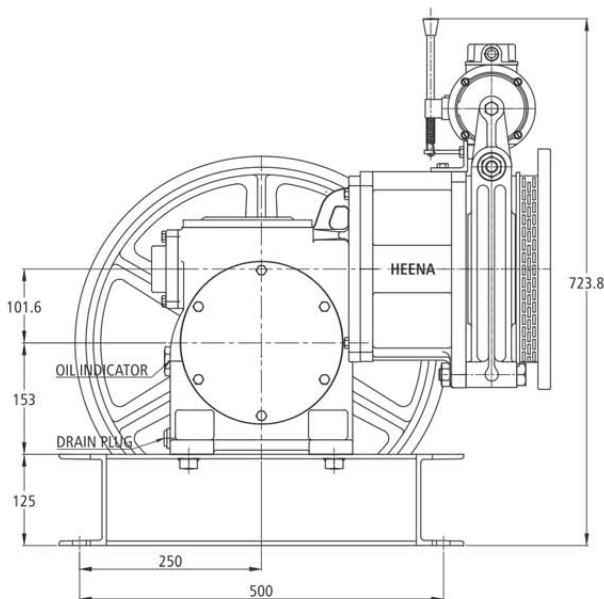


HE-4 Mono

Max. Static Load : 2500 Kg

Brake : DC 110V, 1.0 A

Weight : 210 Kg



Model	Load [In kg]	Speed [In m/sec]	Gear Ratio	Sheave [In mm]	Rope [In mm] [Pitch 19m.m.]	Ropping	Power [KW]	Power [HP]	Pole	Travel / Height [Mtrs.]
HE - 4	272	0.62	40:1	510	3 X 10 / 13	1 : 1	3	4	6P	26
HE - 4	340	0.62	40:1	510	3 X 10 / 13	1 : 1	3.75	5	6P	26
HE - 4	408	0.62	40:1	510	3X10/13	1 : 1	3.75	5	6P	23
HE - 4	544	0.32	40:1	510	3X13	2 : 1	3.75	5	6P	23

• All dimension are in mm • Subject to change without notice !

HE-5 Upper Traction Unit MONO



HE-5 Mono

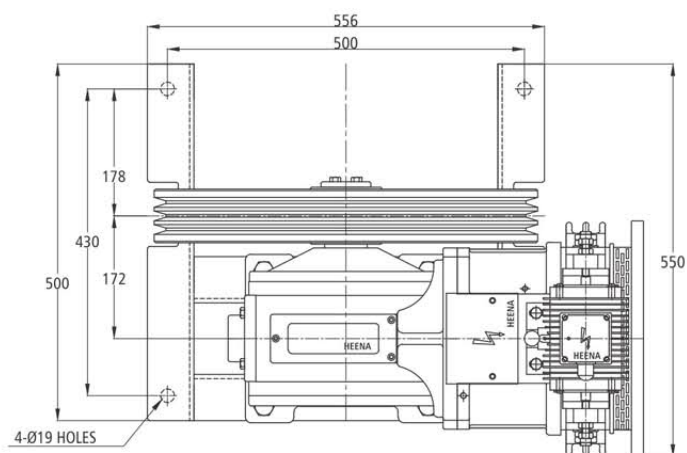
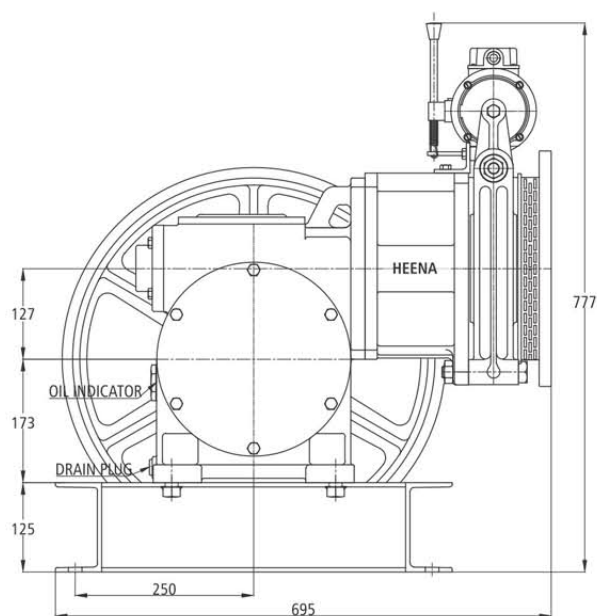
Max. Static Load : 3050 Kg

Brake : DC 110V, 1.0 A

Weight : 240 Kg

HE-5 EL Mono

Max. Static Load : 3800 Kg

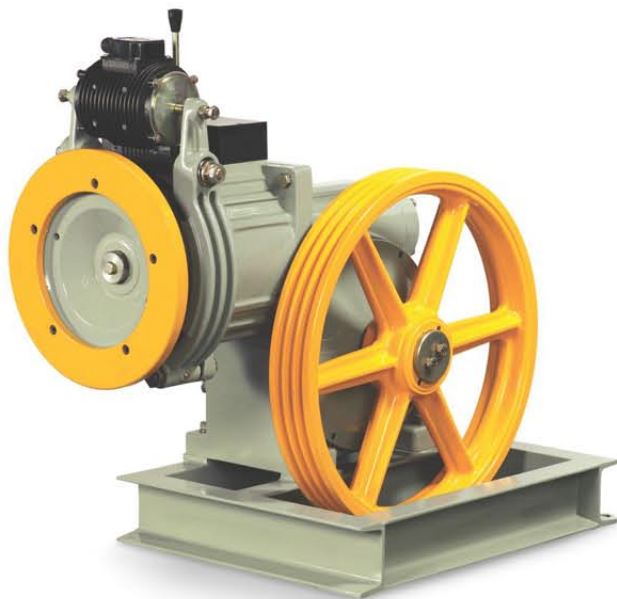


Model	Load [In kg]	Speed [In m/sec]	Gear Ratio	Sheave [In mm]	Rope [In mm] [Pitch 19/15m.m.]	Ropping	Power [KW]	Power [HP]	Pole	Travel / Height [Mtrs.]
HE - 5	408	0.65	40/1	530	3X10/13	1:1	3.75	5	6 P	30
HE - 5 - EL	408	0.65	40/1	530	3X13	1:1	4.5	6	6 P	40
HE - 5 - EL	544	0.65	40/1	530	3X13 / 4X10	1:1	4.5	6	6 P	23
HE - 5 - EL	544	1.00	40/1	530	3X13 / 4X10	1:1	5.6	7.5	4 P	23
HE - 5	408	1.00	40/1	530	3X13	1:1	4.5	6	4 P	30
HE - 5 - EL	408	1.00	40/1	530	3X13 / 4X10	1:1	5.6	7.5	4 P	40
HE - 5	800	0.32	40/1	530	3X13	2:1	4.5	6	6 P	26
HE - 5 - EL	1000	0.5	40/1	530	3X13 / 4X10	2:1	5.6	7.5	4 P	23

• All dimension are in mm • Subject to change without notice !

HE-6 Upper Traction Unit MONO

HEENA®



HE-6 Mono

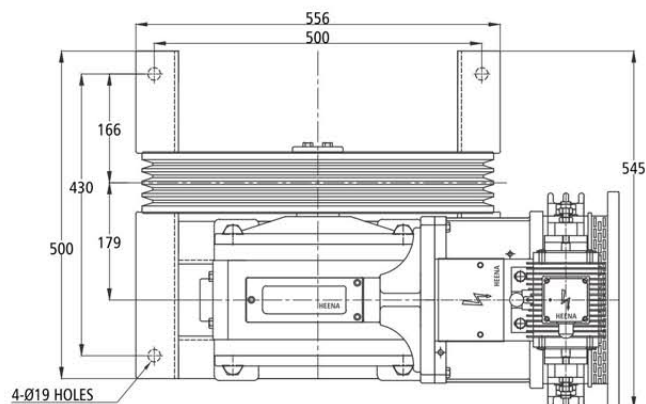
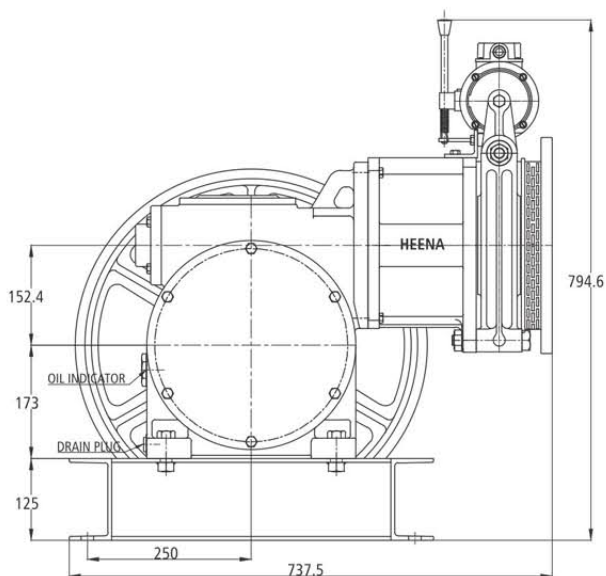
Max. Static Load : 4500 Kg

Brake : DC 110V, 1.0 A

Weight : 280 Kg

HE-6 EL Mono

Max. Static Load : 4800 Kg



Model	Load [In kg]	Speed [In m/sec]	Gear Ratio	Sheave [In mm]	Rope [In mm] [Pitch 19/15m.m.]	Ropping	Power [KW]	Power [HP]	Pole	Travel / Height [Mtrs.]
HE - 6	544	0.65	40/1	530	4X13	1:1	6.75	9	6 P	50
HE - 6	544	1.00	40/1	530	4X13	1:1	7.5	10	4 P	50
HE - 6	544	1.00	50/2	610	3X13 / 4X10	2:1	5.6	7.5	4 P	50
HE - 6	1000	0.32	40/1	530	4X13	2:1	6.75	9	6 P	40
HE - 6	1000	0.50	40/1	530	4X13	2:1	7.5	10	4 P	40
HE - 6 - EL	544	1.00	40/1	530	4X13	1:1	7.5	10	4 P	56
HE - 6 - EL	680	0.65	40/1	530	4X13	1:1	7.5	10	6 P	30
HE - 6 - EL	1500	0.30	40/1	530	4X13	2:1	6.75	9	6 P	26
HEL - 65	544	1.00	40/1	530	4X13	1:1	9	12	4 P	60
HEL - 65	680	1.00	40/1	530	4X13	1:1	9	12	4 P	30
HEL - 65	884	0.75	40/1	410	5X10	1:1	7.5	10	4 P	20
HEL - 65	1500	0.50	40/1	530	4X13	2:1	7.5	10	4 P	30

HE-130 Universal Roomless M/c.

MRL & MR

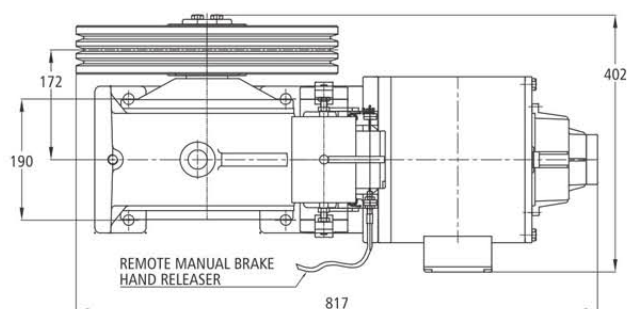
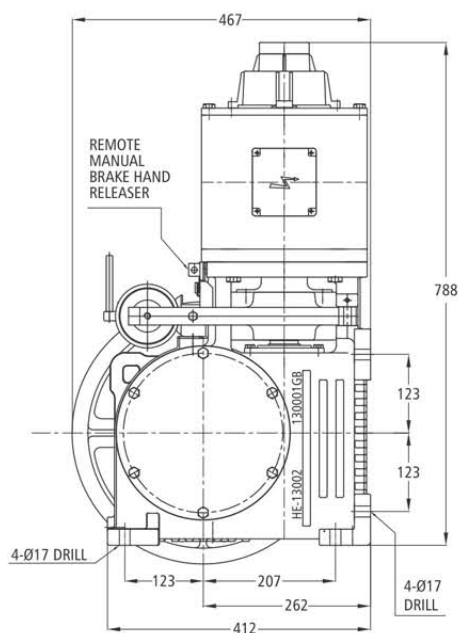
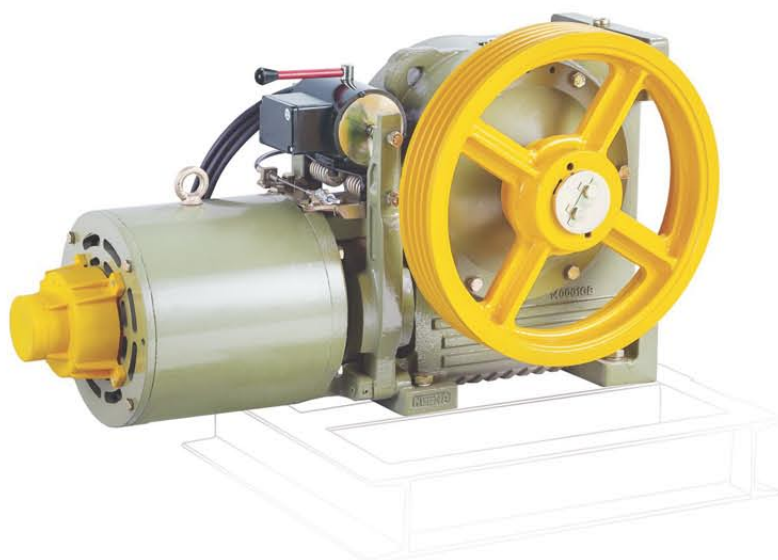
H E-130 MRL & MR

Max. Static Load : 3050 Kg

Brake : DC 110V, 1.0 A

Weight : 280 Kg

Can be Installed Vertically
Manual Brake Releaser is (Optional) For MRL.



Model	Load [In kg]	Speed [In m/sec]	Gear Ratio	Sheave [In mm]	Rope [In mm] [Pitch 19/15m.m.]	Ropping	Power [KW]	Power [HP]	Pole	Travel / Height [Mtrs.]
HE-130	408	0.50	40\1	410	3 x 10	1:1	3.75	5	6P	30
HE-130	408	0.75	40\1	410	3 x 10	1:1	3.75	5	4P	30
HE-130	408	1.00	40\1	530	3 x 13	1:1	4.5	6	4P	30
HE-130	408	0.65	50\2	410	3 x 10	2:1	3.75	5	4P	30
HE-130	544	0.65	50\2	410	3 x 10	2:1	3.75	5	4P	30
HE-130	680	0.65	50\2	410	3 x 10	2:1	4.5	6	4P	26
HE-130 EL	408	1.00	40\1	530	3x13 / 4x10	1:1	5.6	7.5	4P	40
HE-130 EL	544	0.65	40\1	530	3x13 / 4x10	1:1	4.5	6	6P	23
HE-130 EL	884	0.65	50\2	410	4 x10	2:1	5.6	7.5	4P	26
HE-130 EL	1000	0.32	40\1	530	3x13 / 4x10	2:1	5.6	7.5	6P	26
HEL-130	544	1.00	40\1	530	3x13 / 4x10	1:1	5.6	7.5	4P	30
HEL-130	680	1.00	40\1	530	4x10	1:1	7.5	10	4P	23
HEL-130	1000	0.50	40\1	530	3x13 / 4x10	2:1	5.6	7.5	4P	26

HE-140 Universal Roomless M/c. MRL & MR

HEENA®

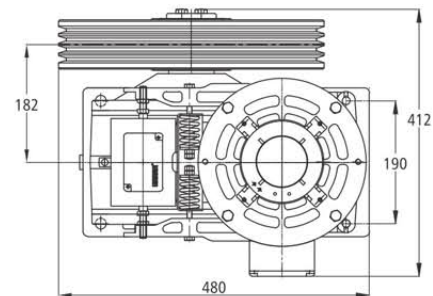
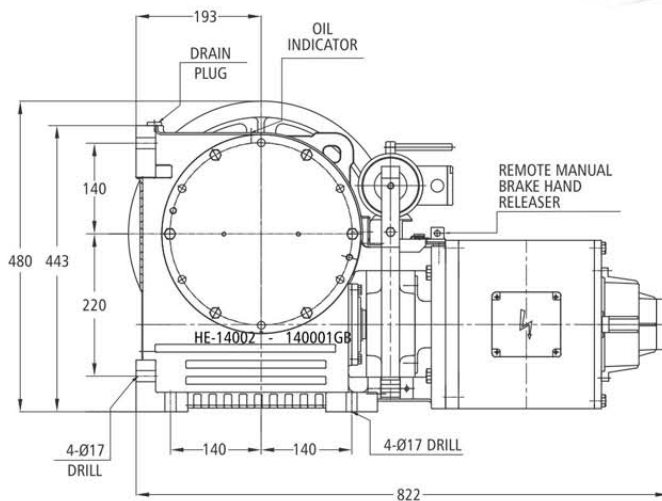
HE-140 MRL & MR

Max. Static Load : 4300 Kg

Brake : DC 110V, 1.0 A

Weight : 300 Kg

Can be Installed Horizontally
Manual Brake Releaser is (Optional) For MRL.



Model	Load [In kg]	Speed [In m/sec]	Gear Ratio	Sheave [In mm]	Rope [In mm] [Pitch 19/15m.m.]	Ropping	Power [KW]	Power [HP]	Pole	Travel / Height [Mtrs.]
HE - 140	408	0.65	40/1	530	3X13 / 4X10	1 : 1	4.5	6	6 P	50
HE - 140	408	0.75	40/1	410	4X10	1 : 1	4.5	6	4 P	50
HE - 140	408	1.00	40/1	530	4X13	1 : 1	5.6	7.5	4 P	50
HE - 140	408	1.50	50/2	530	4X13	1 : 1	6.75	9	4 P	50
HE - 140	544	0.65	40/1	530	3X13 / 4X10	1 : 1	5.6	7.5	6 P	40
HE - 140	544	0.75	40/1	410	4X10	1 : 1	5.6	7.5	4 P	40
HE - 140	544	1.00	40/1	530	4X13 / 4X10	1 : 1	6.75	9	4 P	40
HE - 140	544	1.00	50/2	610	3X13 / 4X10	2 : 1	5.6	7.5	4 P	40
HE - 140	1000	0.32	40/1	530	4X13	2 : 1	5.6	7.5	6 P	30
HE - 140	1000	0.5	40/1	530	4X13	2 : 1	6.75	9	4 P	30
HE - 140	1000	0.65	50/2	410	5X10	2 : 1	7.5	10	4 P	30

• All dimension are in mm • Subject to change without notice !

HE-165 Universal Roomless M/c.

MRL & MR



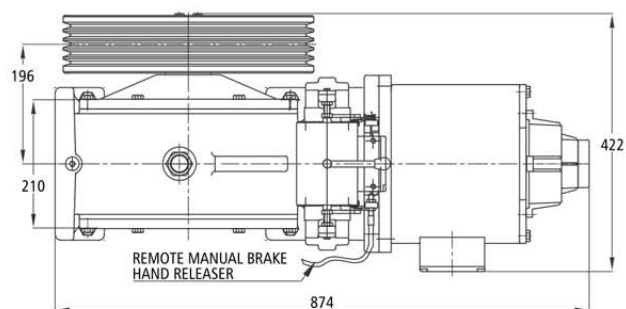
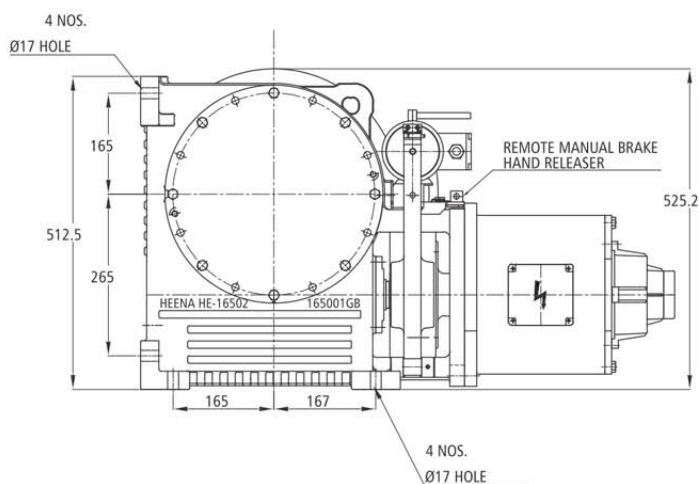
H E-165 MRL & MR

Max. Static Load : 5200 Kg

Brake : DC 110V, 1.0 A

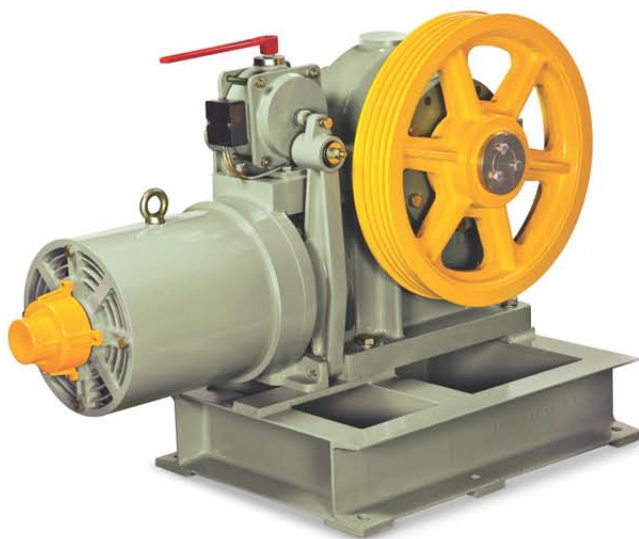
Weight : 350 Kg

Can be Installed Vertically
Manual Brake Releaser is (Optional) For MRL



Model	Load [In kg]	Speed [In m/sec]	Gear Ratio	Sheave [In mm]	Rope [In mm] [Pitch 19/15m.m.]	Ropping	Power [KW]	Power [HP]	Pole	Travel / Height [Mtrs.]
HE-165	544	0.65	50/2	410	4 X 10	2 : 1	5.6	7.5	4 P	60
HE-165	544	0.75	40/1	410	5 X 10	1 : 1	7.5	10	4 P	60
HE-165	544	1.50	50/2	530	4 X 13	1 : 1	9	12	4 P	60
HE-165	680	0.65	50/2	410	4 X 10	2 : 1	5.6	7.5	4 P	40
HE-165	680	0.75	40/1	410	5 X 10	1 : 1	7.5	10	4 P	40
HE-165	680	1.00	40/1	530	4 X 13	1 : 1	9	12	4 P	30
HE-165	884	0.65	40/1	530	4 X 13	1 : 1	9	12	6 P	26
HE-165	884	1.00	50/2	610	3 X 13 / 4 X 10	2 : 1	9	12	4 P	30
HE-165	1000	0.75	50/2	530	4 X 13	2 : 1	9	12	4 P	30
HE-165	1360	0.65	50/2	410	5 X 10	2 : 1	9	12	4 P	30
HE-165	1500	0.50	40/1	530	4 X 13	2 : 1	7.5	10	4 P	30
HE-165	2000	0.30	40/1	530	4 X 13	2 : 1	9	12	6 P	20

HE-7 Bottom Traction Unit MONO

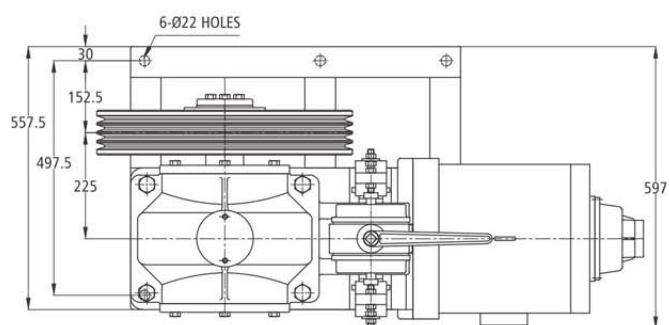
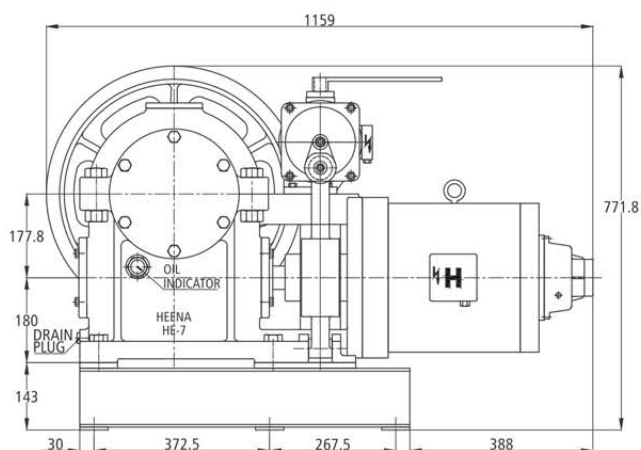


HE-7 Mono

Max. Static Load : 6500 Kg

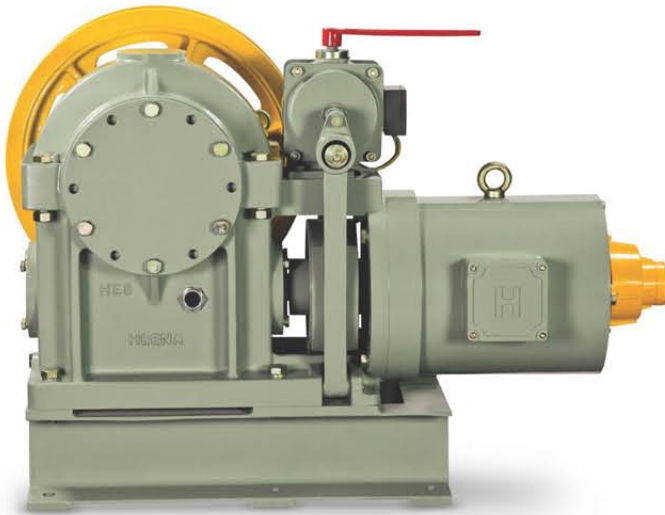
Brake : DC 110V, 1.0 A

Weight : 520 Kg



Model	Load [In kg]	Speed [In m/sec]	Gear Ratio	Sheave [In mm]	Rope [In mm] [Pitch 19m.m.]	Ropping	Power [KW]	Power [HP]	Pole	Travel / Height [Mtrs.]
HE - 7	680	1.00	80/2	530	4X13	1:1	9	12	4 P	80
HE - 7	680	1.50	53/2	530	4X13	1:1	11	15	4 P	80
HE - 7	884	0.65	80/2	530	4X13	1:1	9	12	6 P	60
HE - 7	884	1.00	80/2	530	4X13	1:1	9	12	4 P	50
HE - 7	1020	0.65	80/2	530	4X13	1:1	11	15	6 P	30
HE - 7	1020	1.00	80/2	530	4X13	1:1	13	17.5	4 P	30
HE - 7	1020	1.00	53/2	710	4X13	2:1	7.5	10	4 P	40
HE - 7	1300	1.00	53/2	710	4X13	2:1	9	12	4 P	40
HE - 7	1500	0.50	80/2	530	4X13	2:1	9	12	4 P	50
HE - 7	1500	0.75	53/2	530	4X13	2:1	9	12	4 P	50
HE - 7	2000	0.32	80/2	530	4X13	2:1	9	12	6 P	30
HE - 7	2000	0.50	80/2	530	4X13	2:1	11	15	4 P	26

HE-8 Bottom Traction Unit MONO

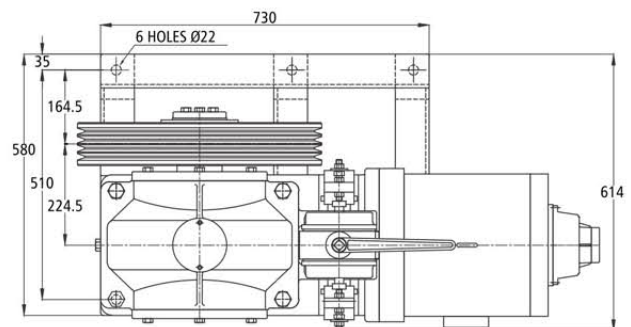
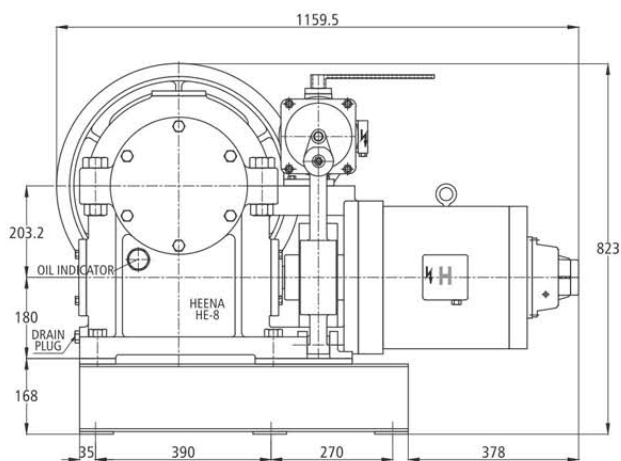


H E-8 Mono

Max. Static Load : 7800 Kg

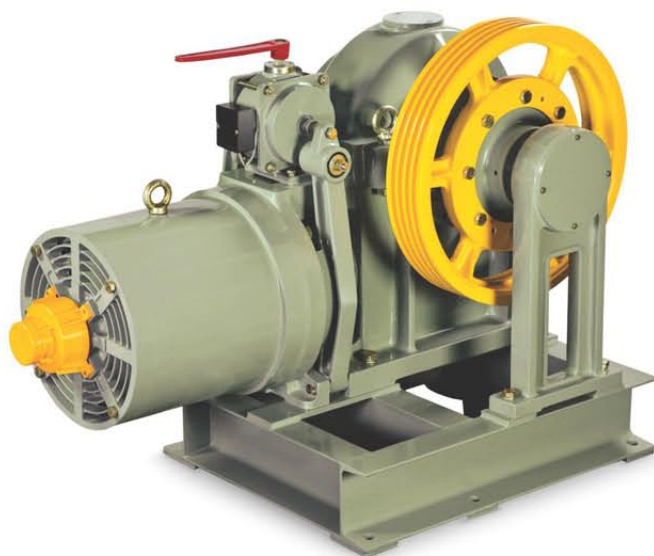
Brake : DC 110V, 1.0 A

Weight : 600 Kg



Model	Load [In kg]	Speed [In m/sec]	Gear Ratio	Sheave [In mm]	Rope [In mm] [Pitch 19m.m.]	Ropping	Power [KW]	Power [HP]	Pole	Travel / Height [Mtrs.]
HE - 8	884	0.65	80/2	530	4X13	1:1	9	12	6 P	80
HE - 8	884	1.00	80/2	530	4X13	1:1	11	15	4 P	80
HE - 8	884	1.50	53/2	530	5X13	1:1	13	17.5	4 P	80
HE - 8	1020	0.65	80/2	530	4X13	1:1	11	15	6 P	60
HE - 8	1020	1.00	80/2	530	4X13	1:1	13	17.5	4 P	60
HE - 8	1020	1.50	53/2	530	5X13	1:1	15	20	4 P	50
HE - 8	1360	0.65	80/2	530	4X13	1:1	11	15	6 P	30
HE - 8	1360	1.00	80/2	530	5X13	1:1	15	20	4 P	30
HE - 8	1500	1.00	53/2	710	5X13	2:1	11	15	4 P	30
HE - 8	2000	0.30	80/2	530	4X13	2:1	9	12	6 P	40
HE - 8	2000	0.50	80/2	530	4X13	2:1	11	15	4 P	40
HE - 8	2500	0.30	80/2	530	4X13	2:1	11	15	6 P	30
HE - 8	2500	0.50	80/2	530	5X13	2:1	13	17.5	4 P	30
HE - 8	3000	0.30	50/1	530	5X13	2:1	13	17.5	6 P	23

HE-9 Bottom Traction Unit MONO

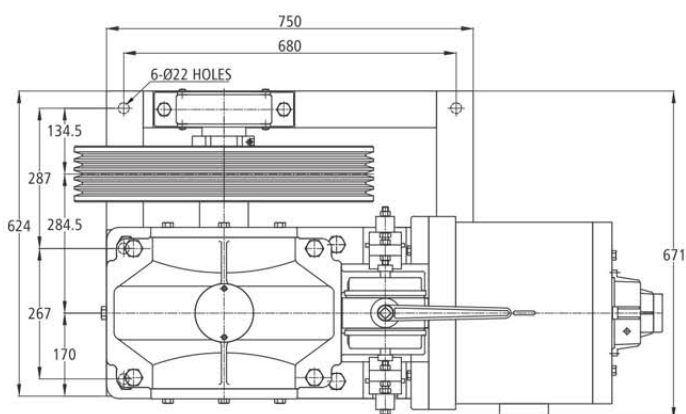
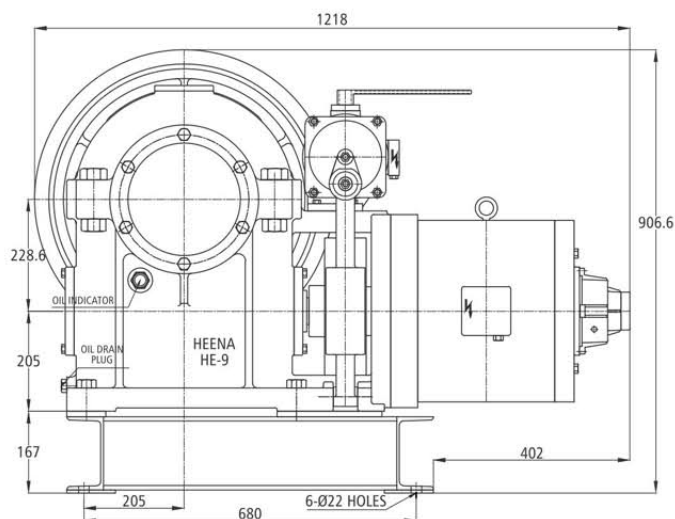


HE-9 Mono

Max. Static Load : 9000 Kg

Brake : DC 110V, 1.0 A

Weight : 780 Kg



Model	Load [In kg]	Speed [In m/sec]	Gear Ratio	Sheave [In mm]	Rope [In mm] [Pitch 19m.m.]	Ropping	Power [KW]	Power [HP]	Pole	Travel / Height [Mtrs.]
HE - 9	1020	1.00	60/2	610	5 x 13	1:1	15	20	6 P	100
HE - 9	1020	1.50	60/2	610	6 x 13	1:1	17	22.5	4 P	100
HE - 9	1360	1.00	60/2	610	5 x 13	1:1	17	22.5	6 P	80
HE - 9	1360	1.50	60/2	610	6 x 13	1:1	18.75	25	4 P	80
HE - 9	1500	0.65	50/1	610	5 x 13	1:1	17	22.5	6 P	80
HE - 9	1500	1.00	60/2	610	6 x 13	1:1	18.75	25	6 P	80
HE - 9	1500	1.50	60/2	610	6 x 13	1:1	22.5	30	4 P	60
HE - 9	1700	1.00	60/2	610	6 x 13	1:1	18.75	25	6 P	50
HE - 9	1700	1.50	60/2	610	6 x 13	1:1	22.5	30	4 P	50
HE - 9	1800	1.00	60/2	710	6 x 13	2:1	17	22.5	4 P	30
HE - 9	3000	0.30	50/1	610	5 x 13	2:1	15	20	6 P	50
HE - 9	3000	0.50	60/2	610	6 x 13	2:1	17	22.5	6 P	40
HE - 9	3500	0.30	50/1	610	6 x 13	2:1	17	22.5	6 P	30

HE-10.5 Bottom Traction Unit MONO

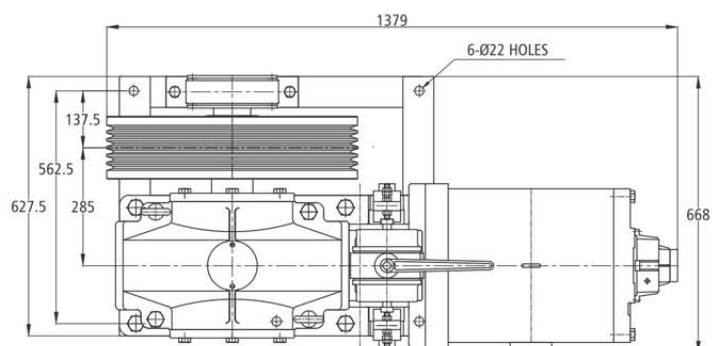
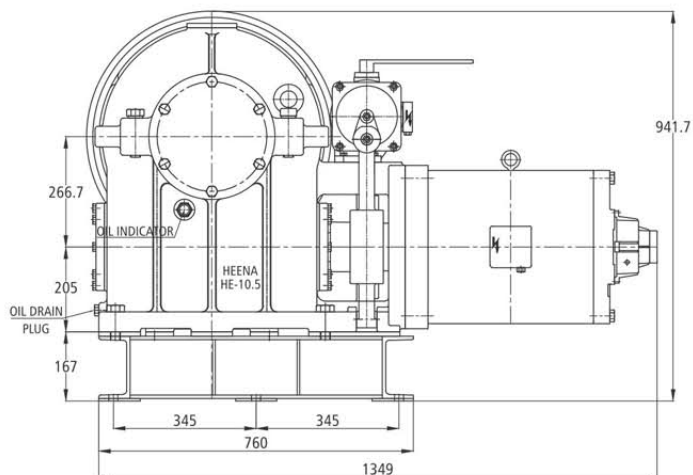


HE-10.5 Mono

Max. Static Load : 10000 Kg

Brake : DC 110V, 2.0 A

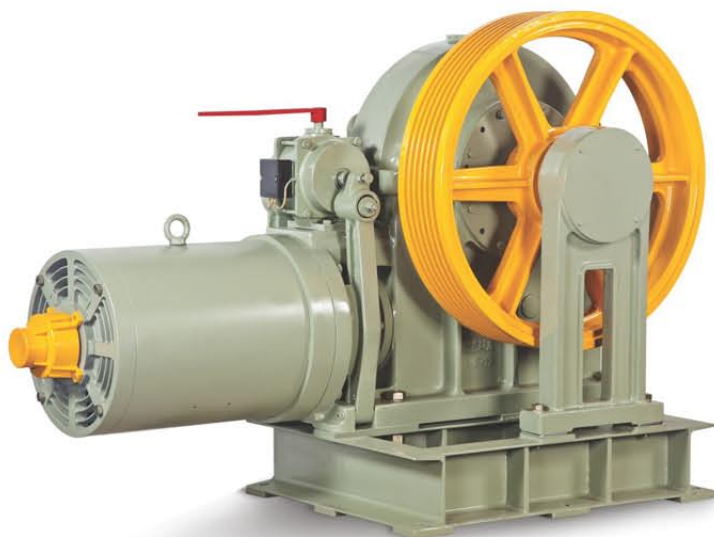
Weight : 1000 Kg



Model	Load [In kg]	Speed [In m/sec]	Gear Ratio	Sheave [In mm]	Rope [In mm] [Pitch 19m.m.]	Ropping	Power [KW]	Power [HP]	Pole	Travel / Height [Mtrs.]
HE - 10.5	1800	0.65	60/1	610	6 x 13	1:1	18.75	25	4 P	80
HE - 10.5	2000	0.50	60/1	610	6 x 13	1:1	22.5	30	6 P	40
HE - 10.5	2000	1.00	60/2	610	7 x 13	1:1	26.5	35	6 P	40
HE - 10.5	2000	1.00	60/2	710	6 x 13	2:1	17	22.5	4 P	40
HE - 10.5	2500	0.75	60/2	610	6 x 13	2:1	17	22.5	4 P	50
HE - 10.5	3000	0.75	60/2	610	7 x 13	2:1	20.5	27.5	4 P	50
HE - 10.5	3500	0.50	60/2	610	7 x 13	2:1	20.5	27.5	6 P	30
HE - 10.5	4000	0.30	60/1	610	7 x 13	2:1	22.5	30	6 P	50

• All dimension are in mm • Subject to change without notice !

HE-12 Bottom Traction Unit MONO

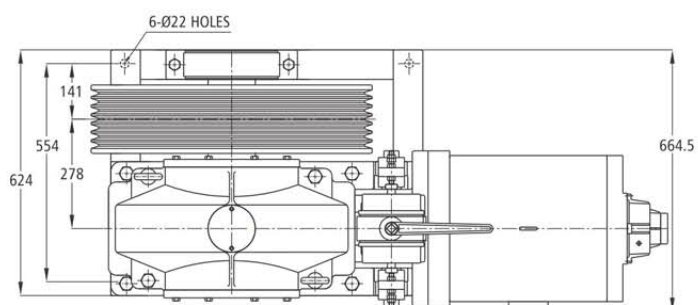
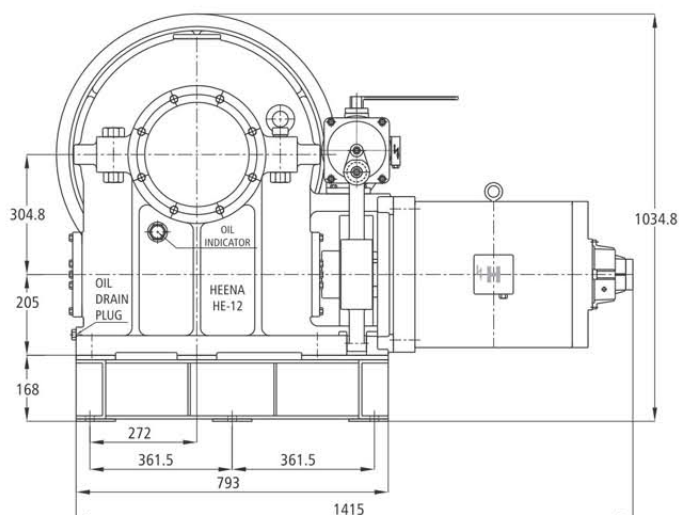


H E-12 Mono

Max. Static Load : 11000 Kg

Brake : DC 110V, 2.0 A

Weight : 1500 Kg



Model	Load [In kg]	Speed [In m/sec]	Gear Ratio	Sheave [In mm]	Rope [In mm] [PITCH 19M.M.]	Ropping	Power [KW]	Power [HP]	Pole	Travel / Height [Mtrs.]
HE - 12	2000	1.00	60/2	610	7 x 13	1:1	26.5	35	6 P	100
HE - 12	2000	1.50	60/2	610	7 x 13	1:1	30	40	4 P	100
HE - 12	2500	0.75	60/1	610	7 x 13	1:1	26.5	35	4 P	100
HE - 12	2500	1.00	60/2	610	7 x 13	1:1	30	40	6 P	100
HE - 12	2500	1.50	60/2	610	7 x 13	1:1	37.5	50	4 P	80
HE - 12	3000	0.50	60/1	610	7 x 13	1:1	30	40	6 P	80
HE - 12	3000	1.00	60/2	710	7 x 13	2:1	26.5	35	4 P	80
HE - 12	4000	0.50	60/2	610	7 x 13	2:1	26.5	35	6 P	50
HE - 12	4500	0.30	60/1	710	7 x 13	2:1	26.5	35	6 P	50
HE - 12	5000	0.30	60/1	710	7 x 13	2:1	30	40	6 P	50

• All dimension are in mm • Subject to change without notice !

Traction Machine Selection Chart

Sr. No	Rated Load [kg]	Model	Speed [m/s]	Height [m]	Car Weight [kg]	Max. Static Load [kg]	Gear Ratio	Sheave Dia [mm]	Rope [mm]	Power [kw]	Current [A]	Rated Speed [rpm]	Rooping
1	150	HE-3.5	0.32	15	180	800	50/1	305	2/3x8	1.5	3	940	1:1
2	250	HE-3.5	0.32	10	300	800	50/1	305	2/3x8	2.2	5	940	1:1
3	250	HE-3.5	0.45	10	300	800	50/1	305	3x8	2.2	4.5	1440	1:1
4	272	HE-3.5	0.38	15	330	800	30/1	305	3x8	2.2	4.5	1440	2:1
5	272	HE-4	0.62	26	330	2500	40/1	510	3x10/13	3	6.8	920	1:1
6	340	HE-4	0.62	26	410	2500	40/1	510	3x10/13	3.75	8.5	920	1:1
7	408	HE-4	0.62	23	490	2500	40/1	510	3x10/13	3.75	8.5	920	1:1
8	408	HE-5	0.65	30	490	3050	40/1	530	3x10/13	3.75	8.5	920	1:1
9	408	HE-5 EL	0.65	40	490	3800	40/1	530	3x13	4.5	10	920	1:1
10	408	HE-5	1.00	30	490	3050	40/1	530	3x13	4.5	9	1400	1:1
11	408	HE-5 EL	1.00	40	490	3800	40/1	530	3x13/4x10	5.6	11	1400	1:1
12	544	HE-4	0.32	23	650	2500	40/1	510	3x13	3.75	8.5	920	2:1
13	544	HE-5 EL	0.65	23	650	3800	40/1	530	3x13/4x10	4.5	10	920	1:1
14	544	HE-5 EL	1.00	23	650	3800	40/1	530	3x13/4x10	5.6	11	1400	1:1
15	544	HEL-55	0.65	40	650	4000	40/1	530	3x13/4x10	5.6	13	920	1:1
16	544	HE-6	0.65	50	650	4500	40/1	530	4x13	6.75	15	920	1:1
17	544	HEL-55	1.00	30	650	4000	40/1	530	3x13/4x10	5.6	11	1400	1:1
18	544	HE-6	1.00	50	650	4500	40/1	530	4x13	7.5	15	1400	1:1
19	544	HE-6	1.00	50	650	4500	50/2	610	3x13 / 4 x 10	5.6	11	1400	2:1
20	544	HE-6 EL	1.00	56	650	4800	40/1	530	4x13	7.5	15	1400	1:1
21	544	HEL-65	1.00	60	650	5100	40/1	530	4x13	9	18	1400	1:1
22	680	HEL-55	0.75	23	650	4000	40/1	410	4x10	5.6	11	1400	1:1
23	680	HE-6 EL	0.65	30	820	4800	40/1	530	4x13	7.5	17	920	1:1
24	680	HEL-65	1.00	30	820	5100	40/1	530	4x13	9	18	1400	1:1
25	680	HE-7	1.00	80	820	6500	80/2	530	4x13	9	18	1400	1:1
26	680	HE-7	1.50	80	820	6500	53/2	530	4x13	11	22.5	1400	1:1
27	800	HE-5	0.32	26	960	3050	40/1	530	3x13	4.5	9	920	2:1
28	884	HEL-65	0.75	20	1060	5100	40/1	410	5x10	7.5	15	1400	1:1
29	884	HE-7	0.65	60	1060	6500	80/2	530	4x13	9	20	920	1:1
30	884	HE-8	0.65	80	1060	7800	80/2	530	4x13	9	20	920	1:1
31	884	HE-7	1.00	50	1060	6500	80/2	530	4x13	9	18	1400	1:1
32	884	HE-8	1.00	80	1060	7800	80/2	530	4x13	11	22.5	1400	1:1
33	884	HE-8	1.50	80	1060	7800	53/2	530	5x13	13	26	1400	1:1
34	1000	HE-5 EL	0.50	23	1200	3800	40/1	530	3x13/4x10	5.6	11	1400	2:1
35	1000	HE-6	0.32	40	1200	4500	40/1	530	4x13	6.75	15	920	2:1
36	1000	HE-6	0.50	40	1200	4500	40/1	530	4x13	7.5	15	1400	2:1
37	1020	HE-7	0.65	30	1225	6500	80/2	530	4x13	11	25.5	920	1:1
38	1020	HE-8	0.65	60	1225	7800	80/2	530	4x13	11	25.5	920	1:1
39	1020	HE-7	1.00	30	1225	6500	80/2	530	4x13	13	26	1400	1:1
40	1020	HE-7	1.00	40	1225	6500	53/2	710	4x13	7.5	15	1400	2:1
41	1020	HE-8	1.00	60	1225	7800	80/2	530	4x13	13	26	1400	1:1
42	1020	HE-9	1.00	100	1225	9000	60/2	610	5x13	15	34	920	1:1

Traction Machine Selection Chart



Sr. No	Rated Load [kg]	Model	Speed [m/s]	Height [m]	Car Weight [kg]	Max. Static Load [kg]	Gear Ratio	Sheave Dia [mm]	Rope [mm]	Power [kw]	Current [A]	Rated Speed [rpm]	Rooping
43	1020	HE-8	1.50	50	1225	7800	53/2	530	5x13	15	30	1400	1:1
44	1020	HE-9	1.50	100	1225	9000	60/2	610	6x13	17	34	1400	1:1
45	1300	HE-7	1.00	40	1560	6500	53/2	710	4x13	9	18	1400	2:1
46	1360	HE-8	0.65	30	1635	7800	80/2	530	4x13	11	25.5	920	1:1
47	1360	HE-8	1.00	30	1635	7800	80/2	530	5x13	15	30	1400	1:1
48	1360	HE-9	1.00	80	1635	9000	60/2	610	5x13	17	38	920	1:1
49	1360	HE-9	1.50	80	1635	9000	60/2	610	6x13	18.75	37.5	1400	1:1
50	1500	HE-6EL	0.30	26	1800	4800	40/1	530	4x13	6.75	15	920	2:1
51	1500	HEL-65	0.50	30	1800	5100	40/1	530	4x13	7.5	15	1400	2:1
52	1500	HE-7	0.50	50	1800	6500	80/2	530	4x13	9	18	1400	2:1
53	1500	HE-9	0.65	80	1800	9000	50/1	610	5x13	17	38	920	1:1
54	1500	HE-7	0.75	50	1800	6500	53/2	530	4x13	9	18	1400	2:1
55	1500	HE-8	1.00	30	1800	7800	53/2	710	5x13	11	22.5	1400	2:1
56	1500	HE-9	1.00	80	1800	9000	60/2	610	6x13	18.75	42.5	920	1:1
57	1500	HE-9	1.50	60	1800	9000	60/2	610	6x13	22.5	45	1400	1:1
58	1700	HE-9	1.00	50	2040	9000	60/2	610	6x13	18.75	42.5	920	1:1
59	1700	HE-9	1.50	50	2040	9000	60/2	610	6x13	22.5	45	1400	1:1
60	1800	HE-10.5	0.65	80	2160	10000	60/1	610	6x13	18.75	37.5	1400	1:1
61	1800	HE-9	1.00	30	2160	9000	60/2	710	6x13	17	34	1400	2:1
62	2000	HE-165	0.30	20	2400	5200	40/1	530	4X13	9	20	920	2:1
63	2000	HE-7	0.32	30	2400	6500	80/2	530	4x13	9	20	920	2:1
64	2000	HE-8	0.30	40	2400	7800	80/2	530	4x13	9	20	920	2:1
65	2000	HE-7	0.50	26	2400	6500	80/2	530	4x13	11	22.5	1400	2:1
66	2000	HE-8	0.50	40	2400	7800	80/2	530	4x13	11	22.5	1400	2:1
67	2000	HE-10.5	0.50	40	2400	10000	60/1	610	6x13	22.5	51	920	1:1
68	2000	HE-10.5	1.00	40	2400	10000	60/2	610	7x13	26.5	59.5	920	1:1
69	2000	HE-10.5	1.00	40	2400	10000	60/2	710	6x13	17	34	1400	2:1
70	2000	HE-12	1.00	100	2400	11000	60/2	610	7x13	26.5	59.5	920	1:1
71	2000	HE-12	1.50	100	2400	11000	60/2	610	7x13	30	60	1400	1:1
72	2500	HE-8	0.30	30	3000	7800	80/2	530	4x13	11	25.5	920	2:1
73	2500	HE-8	0.50	30	3000	7800	80/2	530	5x13	13	26	1400	2:1
74	2500	HE-10.5	0.75	50	3000	10000	60/2	610	6x13	17	34	1400	2:1
75	2500	HE-12	0.75	100	3000	11000	60/1	610	7x13	26.5	52.5	1400	1:1
76	2500	HE-12	1.00	100	3000	11000	60/2	610	7x13	30	68	920	1:1
77	2500	HE-12	1.50	80	3000	11000	60/2	610	7x13	37.5	75	1400	1:1
78	3000	HE-8	0.30	23	3600	7800	50/1	530	5x13	13	30	920	2:1
79	3000	HE-9	0.30	50	3600	9000	50/1	610	5x13	15	34	920	2:1
80	3000	HE-9	0.50	40	3600	9000	60/2	610	6x13	17	38	920	2:1
81	3000	HE-12	0.50	80	3600	11000	60/1	610	7x13	30	68	920	1:1
82	3000	HE-10.5	0.75	50	3600	10000	60/2	610	7x13	20.5	41	1400	2:1
83	3000	HE-12	1.00	80	3600	11000	60/2	710	7x13	26.5	52.5	1400	2:1
84	3500	HE-9	0.30	30	4200	9000	50/1	610	6x13	17	38	920	2:1
85	3500	HE-10.5	0.50	30	4200	10000	60/2	610	7x13	20.5	46.75	920	2:1
86	4000	HE-10.5	0.30	50	4800	10000	60/1	610	7x13	22.5	51	920	2:1
87	4000	HE-12	0.50	50	4800	11000	60/2	610	7x13	26.5	59.5	920	2:1
88	4500	HE-12	0.30	50	5400	11000	60/1	710	7x13	26.5	59.5	920	2:1
89	5000	HE-12	0.30	50	6000	11000	60/1	710	7x13	30	68	920	2:1

REMARK 1. Car Weight is about 1.2 times of Rated load. 2. The table is just for reference to select our machine and you must calculate for your elevator. 3. Data are subject to change without prior notice.

Geared Traction Machine Selection Chart

MRL

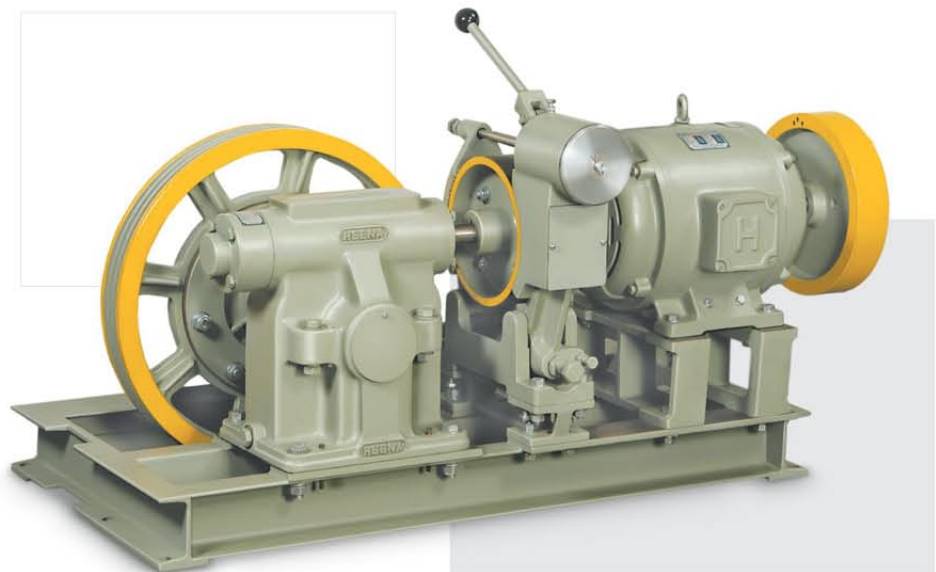
Sr. No	Rated Load [kg]	Model	Speed [m/s]	Height [m]	Car Weight [kg]	Max. Static Load [kg]	Gear Ratio	Sheave Dia [mm]	Rope [mm]	Power [kw]	Current [A]	Rated Speed [rpm]	Rooping
1	408	HE-130	0.50	30	490	3050	40/1	410	3x10	3.75	8.5	920	1:1
2	408	HE-130	0.65	30	490	3050	50/2	410	3x10	3.75	7.5	1400	2:1
3	408	HE-140	0.65	50	490	4300	40/1	530	3x13 / 4x10	4.5	10	920	1:1
4	408	HE-130	0.75	30	490	3050	40/1	410	3x10	3.75	7.5	1400	1:1
5	408	HE-140	0.75	50	490	4300	40/1	410	4x10	4.5	9	1400	1:1
6	408	HE-130	1.00	30	490	3050	40/1	530	3x13	4.5	9	1400	1:1
7	408	HE-130-EL	1.00	40	490	3800	40/1	530	3x13/4x10	5.6	11	1400	1:1
8	408	HE-140	1.00	50	490	4300	40/1	530	4x13	5.6	11	1400	1:1
9	408	HE-140	1.50	50	490	4300	50/2	530	4x13	6.75	13.5	1400	1:1
10	544	HE-130	0.65	30	650	3050	50/2	410	3x10	3.75	7.5	1400	2:1
11	544	HE-130-EL	0.65	23	650	3800	40/1	530	3x13/4x10	4.5	10	920	1:1
12	544	HE-140	0.65	40	650	4300	40/1	530	3x13/4x10	5.6	13	920	1:1
13	544	HE-165	0.65	60	650	5200	50/2	410	4x10	5.6	11	1400	2:1
14	544	HE-140	0.75	40	650	4300	40/1	410	4x10	5.6	11	1400	1:1
15	544	HE-165	0.75	60	650	5200	40/1	410	5x10	7.5	15	1400	1:1
16	544	HEL-130	1.00	30	650	4000	40/1	530	3x13/4 x10	5.6	11	1400	1:1
17	544	HE-140	1.00	40	650	4300	40/1	530	3x13/4x10	6.75	13.5	1400	1:1
18	544	HE-140	1.00	40	650	4300	50/2	610	3x13/4x10	5.6	11	1400	2:1
19	544	HE-165	1.50	60	650	5200	50/2	530	4x13	9	18	1400	1:1
20	680	HE-130	0.65	26	820	3050	50/2	410	3x10	4.5	9	1400	2:1
21	680	HEL-130	1.00	23	820	4000	40/1	530	4x10	7.5	15	1400	1:1
22	680	HE-165	0.65	40	820	5200	50/2	410	4x10	5.6	11	1400	2:1
23	680	HE-165	0.75	40	820	5200	40/1	410	5x10	7.5	15	1400	1:1
24	680	HE-165	1.00	30	820	5200	40/1	530	4x13	9	18	1400	1:1
25	884	HE-130-EL	0.65	26	1060	3800	50/2	410	4x10	5.6	11	1400	2:1
26	884	HE-165	0.65	26	1060	5200	40/1	530	4x13	9	20	920	1:1
27	884	HE-165	1.00	30	1060	5200	50/2	610	3x13/4x10	9	18	1400	2:1
28	1000	HE-130-EL	0.32	26	1200	3800	40/1	530	3x13/4x10	5.6	13	920	2:1
29	1000	HE-140	0.32	30	1200	4300	40/1	530	4x13	5.6	13	920	2:1
30	1000	HEL-130	0.50	26	1200	4000	40/1	530	4x13/4x10	5.6	11	1400	2:1
31	1000	HE-140	0.50	30	1200	4300	40/1	530	4x13	6.75	13.5	1400	2:1
32	1000	HE-140	0.65	30	1200	4300	50/2	410	5x10	7.5	15	1400	2:1
33	1000	HE-165	0.75	30	1200	5200	50/2	530	4x13	9	18	1400	2:1
34	1360	HE-165	0.65	30	1640	5200	50/2	410	5x10	9	18	1400	2:1
35	1500	HE-165	0.50	30	1800	5200	40/1	530	4x13	7.5	15	1400	2:1

REMARK

1. Car Weight is about 1.2 times of Rated load.
2. The table is just for reference to select our machine and you must calculate for your elevator.
3. Data are subject to change without prior notice.

HL Unit Upper Traction Unit

5,6,7 & 9



- HEENA Lift an Upper Traction Unit Machine are developed from worm reduction gear units. These units have been designed where in worm reduction gearbox - brake and electric drive are aligned for silence, smoothness and safety in a lift machine. Backless adjustment facility is provided which makes machine life longer.
- HL - 5/6/7/8/9 are available in [0.32, 0.50, 0.65 & 1.00 m/sec]

Model	Center [Inches]	Load [In kg]	Speed [In m/sec]	Gear Ratio	Sheave [mm]	Rope [mm]	Ropping	Power [HP]	Pole
HL-5	5	750	0.32	40/1	530	3 x 13	2:1	5	6
HL-5	5	408	0.65	40/1	530	3 x 13	1:1	5	6
HL-5	5	408	1.00	40/1	530	3 x 13	1:1	6	4
HL-6	6	1000	0.32	40/1	530	4 x 13	2:1	7.5	6
HL-6	6	544	0.65	40/1	530	3 x 13	1:1	7.5	6
HL-6	6	544	1.00	40/1	530	3 x 13	1:1	7.5	4
HL-7	7	1500	0.32	50/1	610	4 x 13	2:1	10	6
HL-7	7	680	0.65	50/1	610	4 x 13	1:1	10	6
HL-7	7	680	1.00	53/2	530	4 x 13	1:1	12	6
HL-8	8	2000	0.32	50/1	610	4 x 13	2:1	12	6
HL-8	8	1020	0.65	50/1	610	4 x 13	1:1	12	6
HL-8	8	1020	1.00	53/2	530	4 x 13	1:1	15	6
HL-9	9	2500	0.30	50/1	610	4 x 13	2:1	15	6
HL-9	9	3000	0.30	50/1	610	5 x 13	2:1	20	6
HL-9	9	1400	0.60	50/1	610	4 x 13	1:1	15	6
HL-9	9	1750	0.60	50/1	610	5 x 13	1:1	20	6
HL-9	9	1400	1.00	60/2	610	5 x 13	1:1	20	6
HL-9	9	1750	1.00	60/2	610	5 x 13	1:1	25	6

Believe in Success



Production Unit

➤ Gear Case



Gear case is made of close grain cast iron. It is completely oil tight & dust proof. The face and bores are perfect alignment & interchangeable & machining on fully automatic CNC Horizontal Machining Centers.



➤ Worm and Wheel Shaft



The wheel shaft is made of carbon steel and machined on fully automatic turning centers.



➤ Multi Axis Machines of New Era

The multi axes machines that possesses machining abilities beyond those offered by conventional machines. By combining new state of the art technologies, these can achieve unparallel high speed, high precision & high accuracy as well.



Speed Governor



Suitable for
[0.25, 0.32, 0.50, 0.65, 0.75 & 1.00 m/sec]



Suitable for
[1.00 & 1.50 m/sec]

Retiring Cam



Deflector Sheave



Sheave Dia [mm]	Grove & Rope [mm]	Grove & Rope [mm]	Grove & Rope [mm]	Grove & Rope [mm]	Grove & Rope [mm]	Grove & Rope [mm]
205	3 x 8	4 x 8				
240		4 x 8	5 x 8			
305	3 x 13	4 x 13	5 x 13	6 x 13		
320		4 x 8	5 x 8	6 x 8	7 x 8	8 x 8, 10 x 8, 12 x 8
410	3 x 13	4 x 13	5 x 13	6 x 13	7 x 13	9 x 13
460	3 x 13	4 x 13	5 x 13	6 x 13		
510	3 x 13	4 x 13	5 x 13	6 x 13	7 x 13	
560	3 x 13	4 x 13	5 x 13	6 x 13	7 x 13	8 x 13
710		4 x 13	5 x 13	6 x 13	7 x 13	

Ropes are available in 10 mm & 16mm



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“ Quality is Never an Accident;
It is Always the Result of
High Intention, Sincere Effort,
Intelligent Direction and
Skillfull Execution,
It Represents the Wise Choice
of Many Alternatives ”

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2023



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