# BELT GEARLESS RANGE OVERVIEW

MDG45

MDG45-FG

MDG63

MDG100

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GEARLESS&GEARBOX
TRACTION MACHINES

MORE ON
OUR WEBSITE

**static load**
2000 kg

**load**
450 kg

**speed**
up to 1 m/s

**sheave**
100 mm

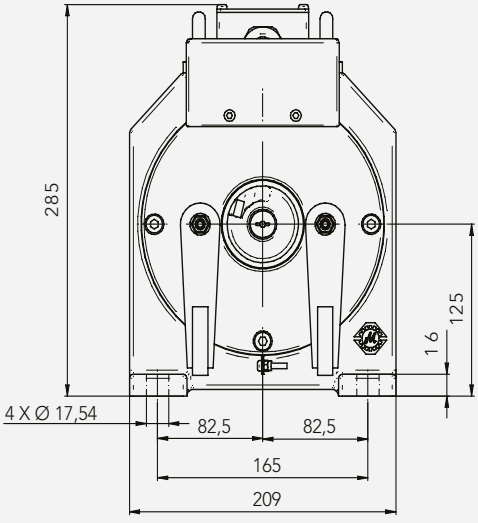
**weight**
90 kg

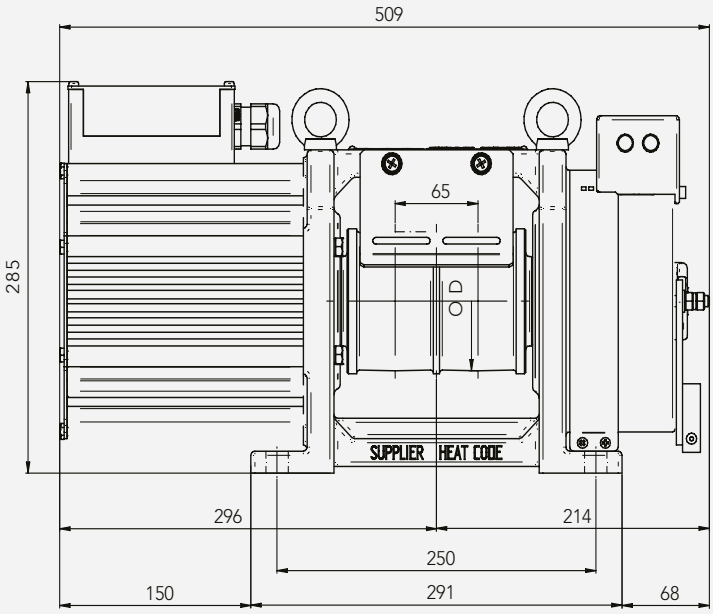
**Short circuit Torque**
90 Nm

| Encoder | Poles | **Nominal Torque** | IP Code | **BELT** | | |
|---|---|---|---|---|---|---|
| | | | | Width | min - max | Pitch |
| | | **Nm** | | mm | n° | mm |
| ECN 1313 ERN 1387 | 16 | **74 S5 - 25% ED 180 s/h** | IP41 | 60 | 2 | 65 |
| **Brake** | | | | | | |
| EMFR DC110V/1.4A[2X125Nm] EMFS125 2XDC110V/2X0.76A[2X135N.m] CE Certified | | | | | | |

| | Load | | Sheave | | | | Torque | Power | RPM | Freq. | **Current 380V** | **Current 220V** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Ø | Width | n | Pitch | | | | | | |
| | kg | m/s | mm | mm | | mm | Nm | kW | RPM | Hz | A | A |
| **2:1** | 260 | 0,30 | 100 | 60 | 2 | 65 | 43 | 0,5 | 115 | 15,3 | 2,7 | 4,3 |
| | | 0,40 | | | | | | 0,7 | 153 | 20,4 | 2,7 | 4,3 |
| | | 0,50 | | | | | | 0,9 | 191 | 25,5 | 2,7 | 5,5 |
| | | 0,63 | | | | | | 1,1 | 241 | 32,1 | 2,7 | 5,5 |
| | | 1,00 | | | | | | 1,7 | 382 | 50,9 | 4,3 | 7,9 |
| | 320 | 0,30 | | | | | 53 | 0,6 | 115 | 15,3 | 3,4 | 5,3 |
| | | 0,40 | | | | | | 0,8 | 153 | 20,4 | 3,4 | 5,3 |
| | | 0,50 | | | | | | 1,1 | 191 | 25,5 | 3,4 | 6,8 |
| | | 0,63 | | | | | | 1,3 | 241 | 32,1 | 3,4 | 6,8 |
| | | 1,00 | | | | | | 2,1 | 382 | 50,9 | 5,3 | 9,8 |
| | 400 | 0,30 | | | | | 66 | 0,8 | 115 | 15,3 | 4,2 | 6,6 |
| | | 0,40 | | | | | | 1,1 | 153 | 20,4 | 4,2 | 6,6 |
| | | 0,50 | | | | | | 1,3 | 191 | 25,5 | 4,2 | 8,5 |
| | | 0,63 | | | | | | 1,7 | 241 | 32,1 | 4,2 | 8,5 |
| | | 1,00 | | | | | | 2,6 | 382 | 50,9 | 6,6 | 12,2 |
| | 450 | 0,30 | | | | | 74 | 0,9 | 115 | 15,3 | 4,8 | 7,4 |
| | | 0,40 | | | | | | 1,2 | 153 | 20,4 | 4,8 | 7,4 |
| | | 0,50 | | | | | | 1,5 | 191 | 25,5 | 4,8 | 9,5 |
| | | 0,63 | | | | | | 1,9 | 241 | 32,1 | 4,8 | 9,5 |
| | | 1,00 | | | | | | 3,0 | 382 | 50,9 | 7,4 | 13,7 |

1 - The values are obtained considering system balanced at the 45%
2 - Data are subject to change without prior notice



# MDG45-FG

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MORE ON
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**static load**
2000 kg

**load**
450 kg

**speed**
up to 1 m/s

**Short circuit Torque**
90 Nm

**sheave**
100 mm

**weight**
95 kg

| Encoder | Poles | **Nominal Torque** | IP Code | **BELT** | | |
|---|---|---|---|---|---|---|
| | | | | Width | min - max | Pitch |
| | | **Nm** | | mm | n° | mm |
| ECN 1313 ERN 1387 | 16 | **74 S5 - 25% ED 180 s/h** | IP41 | 60 | 2 | 260 |
| **Brake** | | | | | | |
| EMFR DC110V/1.4A[2X125Nm] EMFS125 2XDC110V/2X0.76A[2X135N.m] CE Certified | | | | | | |

| | Load | | Sheave | | | | Torque | Power | RPM | Freq. | Current 380V | Current 220V |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Ø | Width | n | Pitch | | | | | | |
| | kg | m/s | mm | mm | | mm | Nm | kW | RPM | Hz | A | A |
| 2:1 | 260 | 0,30 | 100 | 60 | 2 | 65 | 43 | 0,5 | 115 | 15,3 | 2,7 | 4,3 |
| | | 0,40 | | | | | | 0,7 | 153 | 20,4 | 2,7 | 4,3 |
| | | 0,50 | | | | | | 0,9 | 191 | 25,5 | 2,7 | 5,5 |
| | | 0,63 | | | | | | 1,1 | 241 | 32,1 | 2,7 | 5,5 |
| | | 1,00 | | | | | | 1,7 | 382 | 50,9 | 4,3 | 7,9 |
| | 320 | 0,30 | | | | | 53 | 0,6 | 115 | 15,3 | 3,4 | 5,3 |
| | | 0,40 | | | | | | 0,8 | 153 | 20,4 | 3,4 | 5,3 |
| | | 0,50 | | | | | | 1,1 | 191 | 25,5 | 3,4 | 6,8 |
| | | 0,63 | | | | | | 1,3 | 241 | 32,1 | 3,4 | 6,8 |
| | | 1,00 | | | | | | 2,1 | 382 | 50,9 | 5,3 | 9,8 |
| | 400 | 0,30 | | | | | 66 | 0,8 | 115 | 15,3 | 4,2 | 6,6 |
| | | 0,40 | | | | | | 1,1 | 153 | 20,4 | 4,2 | 6,6 |
| | | 0,50 | | | | | | 1,3 | 191 | 25,5 | 4,2 | 8,5 |
| | | 0,63 | | | | | | 1,7 | 241 | 32,1 | 4,2 | 8,5 |
| | | 1,00 | | | | | | 2,6 | 382 | 50,9 | 6,6 | 12,2 |
| | 450 | 0,30 | | | | | 74 | 0,9 | 115 | 15,3 | 4,8 | 7,4 |
| | | 0,40 | | | | | | 1,2 | 153 | 20,4 | 4,8 | 7,4 |
| | | 0,50 | | | | | | 1,5 | 191 | 25,5 | 4,8 | 9,5 |
| | | 0,63 | | | | | | 1,9 | 241 | 32,1 | 4,8 | 9,5 |
| | | 1,00 | | | | | | 3,0 | 382 | 50,9 | 7,4 | 13,7 |

1 - The values are obtained considering system balanced at the 45%
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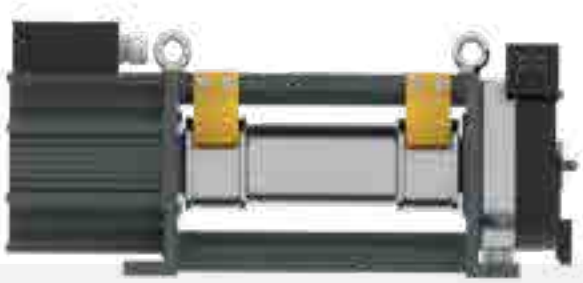

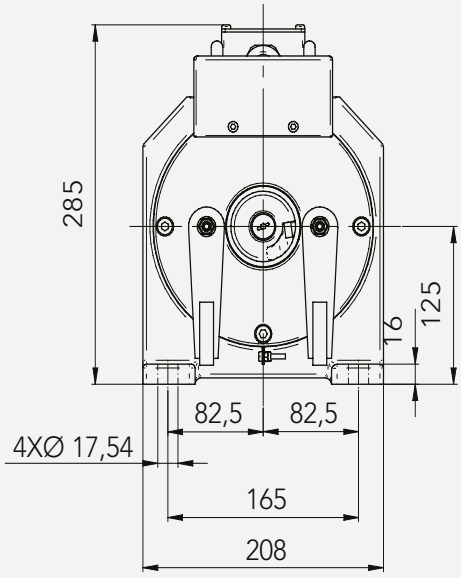


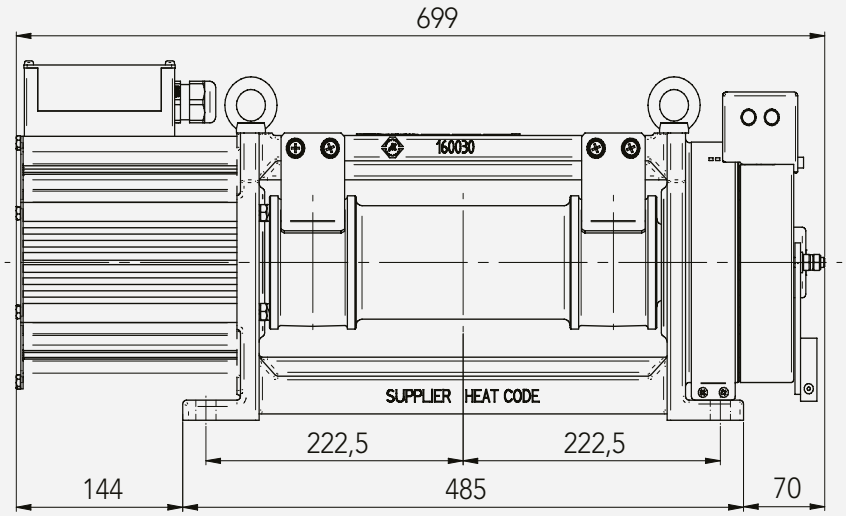

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**static load**
2000 kg

**load**
630 kg

**speed**
up to 1 m/s

**sheave**
100 mm

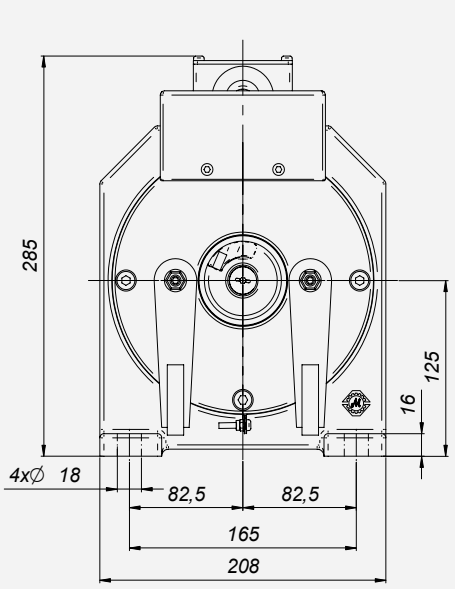
**weight**
120 kg

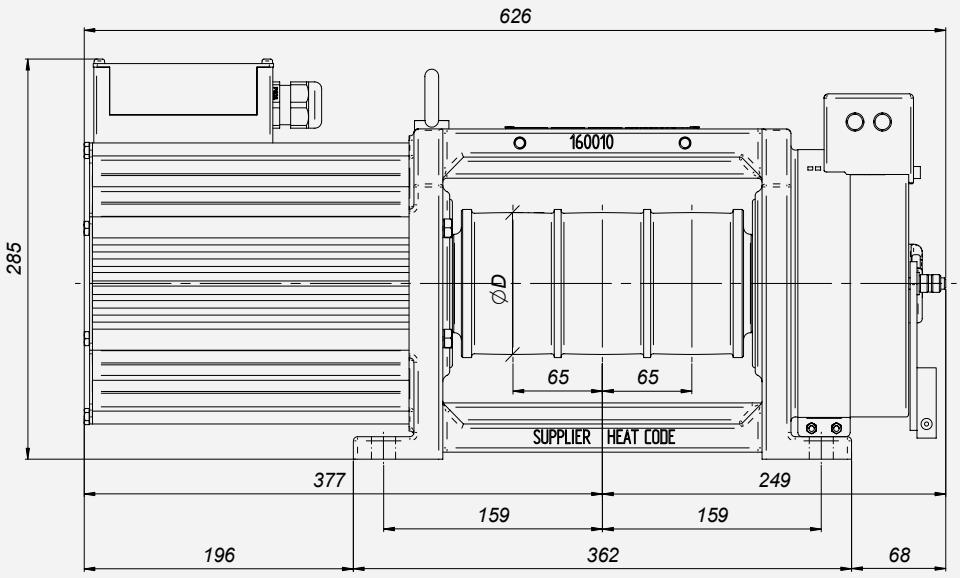
**Short circuit Torque**
104 Nm

| Encoder | Poles | **Nominal Torque** | IP Code | **BELT** | | |
|---|---|---|---|---|---|---|
| | | | | Width | min - max | Pitch |
| | | **Nm** | | mm | n° | mm |
| ECN 1313 ERN 1387 | 16 | **104 S5 - 40% ED 180 s/h** | IP41 | 60 | 3 | 65 |
| **Brake** | | | | | | |
| EMFR 1XDC110V/1X1.4A[2X125N.m] EMFS125 2XDC110V/2X0.76A[2X135N.m] CE Certified | | | | | | |

| | Load | | Sheave | | | | Torque | Power | RPM | Freq. | **Current 380V** | **Current 220V** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Ø | Width | n | Pitch | | | | | | |
| | kg | m/s | mm | mm | | mm | Nm | kW | RPM | Hz | A | A |
| **2:1** | 630 | 0,30 | 100 | 60 | 3 | 65 | 104 | 1,2 | 115 | 15,3 | 5,0 | 8,7 |
| | | 0,40 | | | | | | 1,7 | 153 | 20,4 | 5,0 | 8,7 |
| | | 0,50 | | | | | | 2,1 | 191 | 25,5 | 7,0 | 11,9 |
| | | 0,63 | | | | | | 2,6 | 241 | 32,1 | 7,0 | 11,9 |
| | | 0,75 | | | | | | 3,1 | 286 | 38,2 | 8,7 | 16,9 |
| | | 1,00 | | | | | | 4,1 | 382 | 50,9 | 8,7 | 16,9 |

1 - The values are obtained considering system balanced at the 45%
2 - Data are subject to change without prior notice



# MDG100

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**static load**
2100 kg

**load**
1000 kg

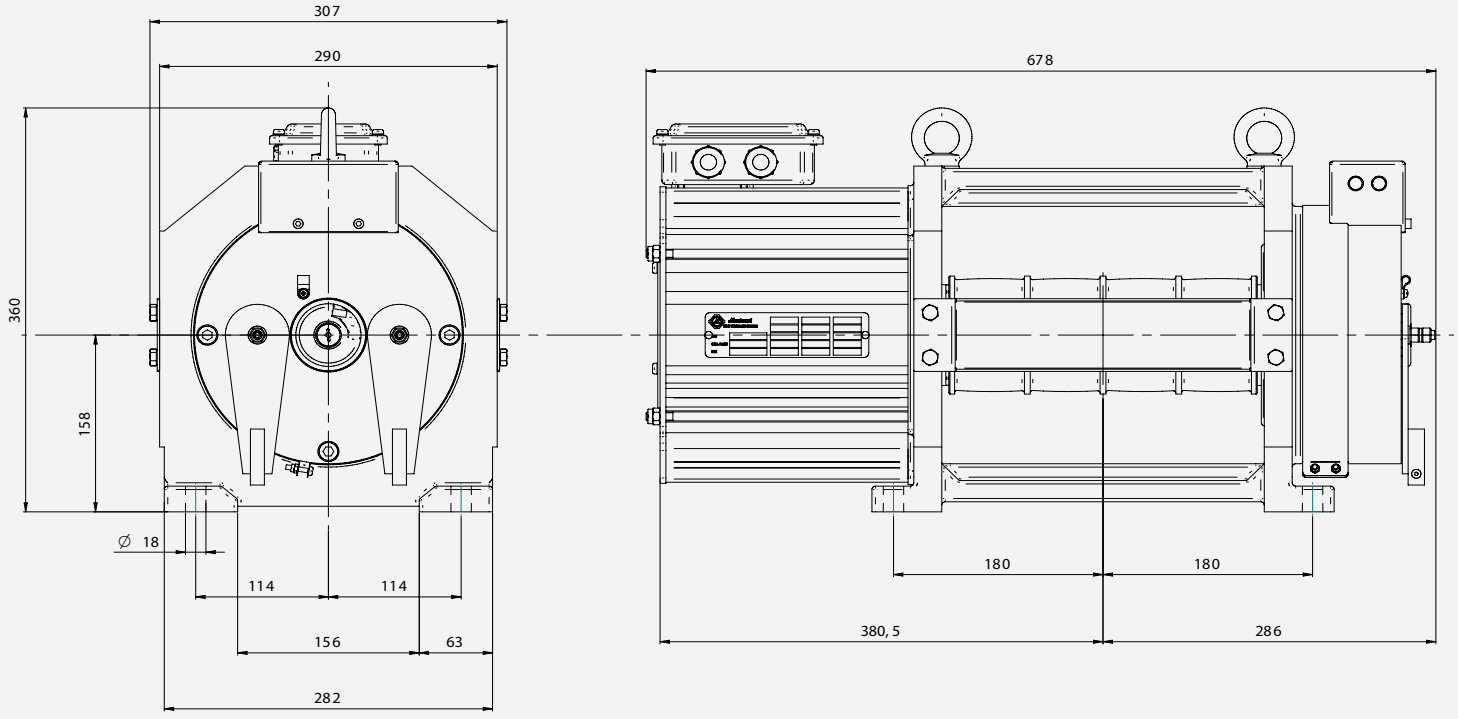
**speed**
up to 1 m/s

**sheave**
100 mm

**weight**
140 kg

**Short circuit Torque**
300 Nm

| Encoder | Poles | **Nominal Torque** | IP Code | **BELT** | | |
|---|---|---|---|---|---|---|
| | | | | Width | min - max | Pitch |
| | | **Nm** | | mm | n° | mm |
| ECN 1313<br>ERN 1387 | 16 | **164**<br>**S5 - 40% ED**<br>**180 s/h** | IP41 | 60 | 4 | 65 |
| **Brake** | | | | | | |
| EMFR DC110V/1.9A[2X200Nm] | | | | | | |

| | Load | | Sheave | | | | Torque | Power | RPM | Freq. | Current 380V | Current 220V |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Ø | Width | n | Pitch | | | | | | |
| | kg | m/s | mm | mm | | mm | Nm | kW | RPM | Hz | A | A |
| 2:1 | 800 | 0,4 | 100 | 60 | 4 | 65 | 131 | 2,03 | 153 | 20,4 | 9,3 | 5,9 |
| | | 0,5 | | | | | | 2,54 | 191 | 25,5 | 14,7 | 7,4 |
| | | 1,0 | | | | | | 5,08 | 382 | 50,9 | 19,3 | 9,3 |
| | 1000 | 0,4 | | | | | 164 | 2,54 | 153 | 20,4 | 11,6 | 6,8 |
| | | 0,5 | | | | | | 3,17 | 191 | 25,5 | 18,4 | 9,2 |
| | | 1,0 | | | | | | 6,35 | 382 | 50,9 | 24,3 | 11,6 |

1 - The values are obtained considering system balanced at the 45%
2 - Data are subject to change without prior notice