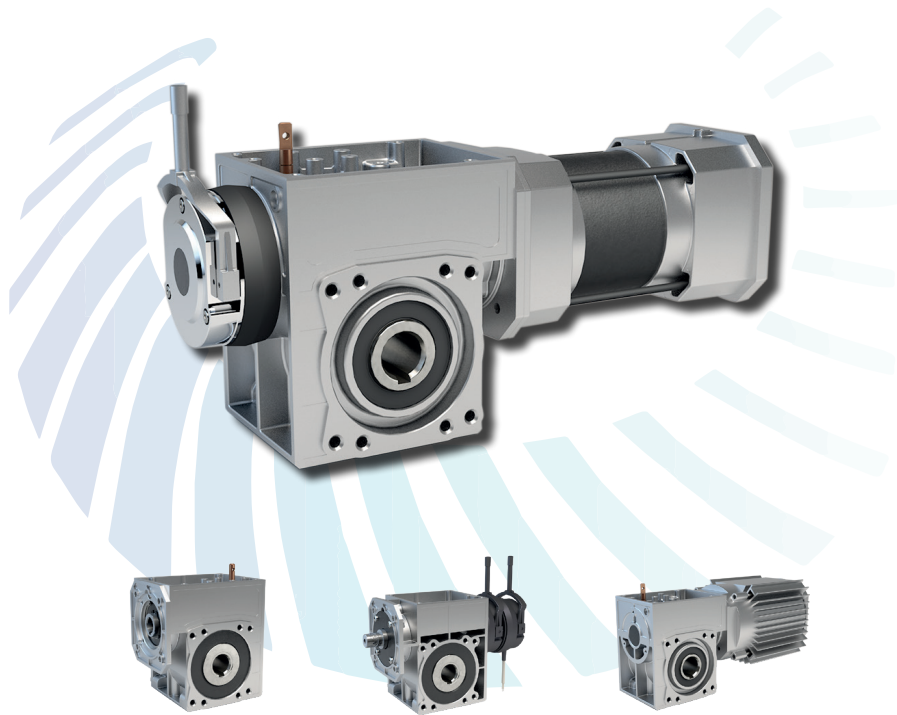


Gear Motors TD 1.5



Applications

Accessibility / Lift Industry

- Platform Lifts
- Passenger Lifts
- Goods & Service lifts

Theatre & Stage Machinery

- Rigging
- Scenery hoists & Winches
- Flying, Curtain track Systems
- Turntables and platforms

Industrial Door Automation

- Sectional, High-Speed doors
- Rolling Shutters
- Sliding Gates

Industrial Applications

- Mechanical Engineering
- Conveyor & Crane
- Printing and Textile

Benefits

- High Operation Reliability
- High Flexibility and Efficiency
- High Modularity
- Compact Design
- Lifetime lubrication
- Excellent mechanical strength and particularly lightweight

Features

- Output Speed: max. 290 rpm
- Output Torque max. 160 Nm
- Motor Power max. 1,5 kW
- Gear Ratios from 9,76 to 76
- Fitted with different motor combinations
 - “Integrated” using Tornado Motors
 - “Combined” with standard IEC Motors (CE, UL/CSA...)
- Operating Voltage: 1x230V/AC, 3x230V/400V/AC (50Hz / 60Hz)

Options

- Safety Feature Built-in TÜV-certified Safety Catch or Anti-Drop Protection (TDA Version)
- Brake Assembly: Motor or gearbox side
- Frequency Converter: Yes
- Gearbox Flange: B14 mounting up to IEC90 motors
- Shafts: Single and Double Shaft, extended Input Shafts (Encoder)
- Emergency Operation Hand crank / Chain hoist mechanisms / Disengaging / Coupling System (TDK Version)
- Limit Switch: 3 gear ratios (i=15, i=20, i=40) / Mechanical / digital (Single-Turn / Multi-turn)

Gear Motors TD 1.5

Specifications



Performance (2 pole)

| Gear Ratio | Input Speed | Output Speed | Gear Motors TD 1.5 - Performance (2-pole) torque range (Nm) | | | | | | | | | | |
|------------|--|--|---|---------|----|---------|----|---------|-----|------|-----|--------|-----|
| | | | Efficiency DIN3996:2012 | 0.37 kW | | 0.55 kW | | 0.75 kW | | 1 kW | | 1.5 kW | |
| | | | | Mn | Ma | Mn | Ma | Mn | Ma | Mn | Ma | Mn | Ma |
| i | n ₁ [min ⁻¹] | n ₂ [min ⁻¹] | | | | | | | | | | | |
| 9.67 | 2800 | 289 | 87% | 11 | 15 | 16 | 22 | 22 | 30 | 29 | 40 | 43 | 60 |
| 11.33 | 2800 | 247 | 84% | 12 | 17 | 18 | 25 | 24 | 34 | 32 | 45 | 49 | 68 |
| 14.5 | 2800 | 193 | 82% | 15 | 21 | 22 | 31 | 30 | 42 | 40 | 57 | 61 | 85 |
| 21.5 | 2800 | 130 | 76% | 21 | 29 | 31 | 43 | 42 | 59 | 56 | 78 | 84 | 117 |
| 34 | 2800 | 82 | 65% | 28 | 39 | 42 | 58 | 57 | 79 | 76 | 106 | 114 | 160 |
| 43 | 2800 | 65 | 62% | 34 | 47 | 50 | 70 | 68 | 96 | 91 | 128 | 137 | 160 |
| 47 | 2800 | 60 | 54% | 32 | 45 | 47 | 66 | 64 | 90 | 86 | 120 | 129 | 160 |
| 58 | 2800 | 48 | 43% | 32 | 44 | 47 | 66 | 64 | 90 | 86 | 120 | - | - |
| 76 | 2800 | 37 | 40% | 38 | 53 | 56 | 79 | 76 | 107 | 102 | 120 | - | - |

Performance (4 pole)

| Gear Ratio | Input Speed | Output Speed | Gear Motors TD 1.5 - Performance (4-pole) torque range (Nm) | | | | | | | | | | |
|------------|--|--|---|---------|-----|---------|-----|---------|-----|------|-----|--------|-----|
| | | | Efficiency DIN3996:2012 | 0.37 kW | | 0.55 kW | | 0.75 kW | | 1 kW | | 1.5 kW | |
| | | | | Mn | Ma | Mn | Ma | Mn | Ma | Mn | Ma | Mn | Ma |
| i | n ₁ [min ⁻¹] | n ₂ [min ⁻¹] | | | | | | | | | | | |
| 9,67 | 1370 | 142 | 87% | 22 | 30 | 30 | 40 | 45 | 65 | 60 | 85 | 90 | 125 |
| 11,33 | 1370 | 121 | 84% | 25 | 35 | 35 | 50 | 50 | 70 | 65 | 90 | 100 | 140 |
| 14,5 | 1370 | 94 | 82% | 30 | 45 | 45 | 60 | 60 | 85 | 85 | 120 | 125 | 160 |
| 21,5 | 1370 | 64 | 76% | 40 | 60 | 60 | 85 | 85 | 120 | 110 | 160 | - | - |
| 34 | 1370 | 41 | 65% | 55 | 80 | 85 | 120 | 115 | 160 | 150 | 160 | - | - |
| 43 | 1370 | 32 | 62% | 70 | 95 | 100 | 140 | 140 | 160 | - | - | - | - |
| 47 | 1370 | 30 | 54% | 65 | 90 | 95 | 130 | 130 | 160 | - | - | - | - |
| 58 | 1370 | 24 | 43% | 65 | 90 | 95 | 130 | - | - | - | - | - | - |
| 76 | 1370 | 18 | 40% | 80 | 110 | 115 | 120 | - | - | - | - | - | - |

Performance (6 pole)

| Gear Ratio | Input Speed | Output Speed | Gear Motors TD 1.5 - Performance (6-pole) torque range (Nm) | | | | | | | | | | |
|------------|--|--|---|---------|-----|---------|-----|---------|-----|------|-----|--------|-----|
| | | | Efficiency DIN3996:2012 | 0.37 kW | | 0.55 kW | | 0.75 kW | | 1 kW | | 1.5 kW | |
| | | | | Mn | Ma | Mn | Ma | Mn | Ma | Mn | Ma | Mn | Ma |
| i | n ₁ [min ⁻¹] | n ₂ [min ⁻¹] | | | | | | | | | | | |
| 9,67 | 920 | 95 | 87% | 30 | 40 | 50 | 70 | 65 | 90 | 85 | 120 | 130 | 160 |
| 11,33 | 920 | 81 | 84% | 35 | 50 | 55 | 75 | 75 | 105 | 100 | 140 | 150 | 160 |
| 14,5 | 920 | 63 | 82% | 45 | 65 | 65 | 90 | 90 | 125 | 125 | 160 | - | - |
| 21,5 | 920 | 43 | 76% | 60 | 85 | 90 | 125 | 125 | 160 | - | - | - | - |
| 34 | 920 | 27 | 65% | 85 | 120 | 125 | 160 | - | - | - | - | - | - |
| 43 | 920 | 21 | 62% | 105 | 150 | 155 | 160 | - | - | - | - | - | - |
| 47 | 920 | 20 | 54% | 95 | 135 | 140 | 160 | - | - | - | - | - | - |
| 58 | 920 | 16 | 43% | 95 | 135 | - | - | - | - | - | - | - | - |
| 76 | 920 | 12 | 40% | 115 | 120 | - | - | - | - | - | - | - | - |