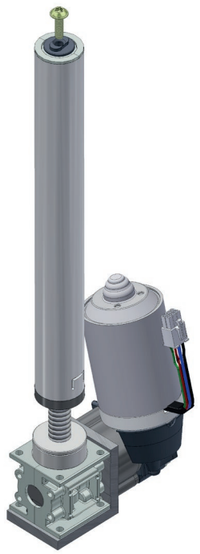
Inline spindle drive 4645 Heavy load



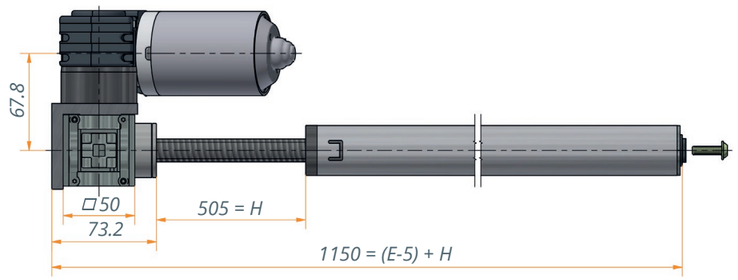
Description

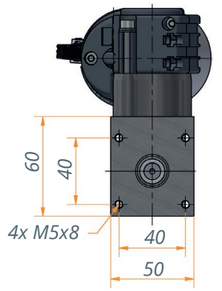
A powerful spindle drive that enables stepless stroke adjustment of heavy loads up to 220 kg with an outstanding travel speed of up to 25 mm/s.
Thanks to its slim design, the drive can be seamlessly integrated into guideways.

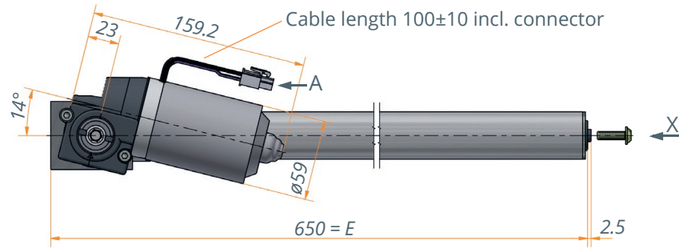
Special features

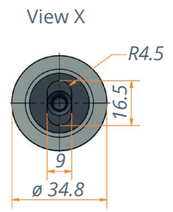
- Outstanding load - travel speed characteristics
- Installation space requirement 80 mm x 126 mm
- Integrated stroke measuring system
- With pendulum mount (also available without, on request)
- For loads > 150 kg with thrust bearing
- Max. stroke 500 mm
- Stroke and installation dimensions can be adapted to customer specifications
- Customized connection possible on the gearbox side

4645.00-0010/11









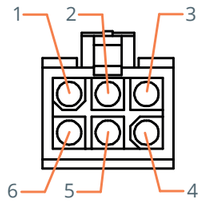
Technical data

Model	4645.00-0010	4645.00-0011
Motor	DC Motor 24 V	
Sensor/Power supply	Hall 5 V DC / 0.3 A	
Protection class	IP30	
Idle running speed	150 rpm (24 V) 190 rpm *	
Max. stroke	500 mm**	
Installation dimension	650 mm	
Duty cycle in idle mode	20% at 5 min	
Duty cycle at max. load	5% at 7 min	5% at 9 min
Type of spindle	SG16x8 P4 RH	TR16x4 RH
Max. lifting force	1500 N	2200 N
Movement speed	25 mm/s	13 mm/s
Static self-locking	200 kg	400 kg

* In combination with LogicData control box Compact-3
** It is essential to consider the buckling forces in the system

Pin assignment

View A



PIN assignment:

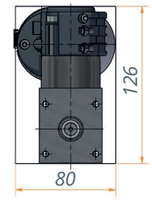
1. Motor black -
2. Motor blue +

PIN type AMP170364

3. Hall sensor red +5V
4. Hall sensor violet, output 2
5. Hall sensor black -
6. Hall sensor green, output 1

PIN type AMP170363

Space requirement



Technical notes

- The operating range of the drive (rated torque) is determined for the service life of 10,000 double strokes in table applications
- The holding torque of the drive can be significantly increased by using a control unit with a short-circuit brake
- The control unit (in combination with LogicData Compact-3 control unit) regulates the system in such a way that the speed is kept as constant as possible over the entire operating range of the drive