

Motor Drives, Electric Motor Spindle Drives and Accessories



WE GET IDEAS MOVING

ideas beyond the familiar has made us into a pioneering company over more than 185 years.

The spirit of innovation and a sense of For a quarter of a century, we have been offering customized drive solutions for office and workplace workstations, as well as for shading systems and building technology.

Through our tradition of innovation, we have succeeded in establishing ourselves as a specialist and problem-solver in numerous areas.







Motor Drives	Page 04	3112 Motor drive
	Page 06	3121 Motor drive
	Page 08	3130 Motor drive
	Page 10	3133 Motor drive
	Page 12	3133.48 Motor drive
	Page 14	3143 DC-Motor drive
	Page 18	4773 Motor drive
	Page 20	4778 Motor drive for through going spindle
	Page 22	4779 Motor drive for through going spindle
Electric Motor	- 0 -	3062 Drive system for large umbrellas
Spindle Drives	Page 26	3120 Inline spindle drive
	Page 28	3120 Inline spindle drive heavy load
	Page 30	3122 Inline spindle drive
	Page 32	3146 Drive with throughgoing spindel
	Page 34	4114 Electric drive with synchronous telescopic spindle
	Page 38	4640 Electric spindle drive
	Page 40	4642 Electric spindle drive
	Page 42	4643 Electric spindle drive
Accessories	Page 44	Logic Data Control box Compact-e-3
	Page 46	Hand control and motor cables
	Page 48	Profile tubes - Profile rods

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Description

Compact 12 V DC motor with worm gear and through going hexagon socket. A cable with AMP plug and an integrated Hall sensor allows easy and secure control of the entire system. Easily adaptable via hexagon socket and anchor points.

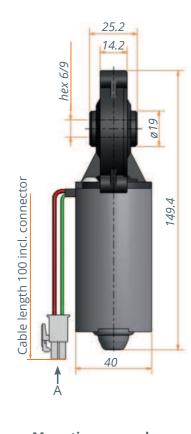
Special features

- Two integrated Hall sensors for measurement of the revolutions and direction of rotation
- Through going hexagon socket in wrench widths 6 mm and 9 mm
- Good self-locking properties
- 100 mm motor cable with connector included

Variant key

Variants are formed by different wrench widths.

39.9 25.7 ø5.2



Technical data

Model	3112.00-1009	3112.00-1006
Motor	DC motor 12 V	DC motor 12 V
Sensor/Power supply	Hall/5 V DC/0.3 A	Hall/5 V DC/0.3 A
Protection class	IP30	IP30
Idle running speed	120 rpm (12 V)	120 rpm (12 V)
Duty cycle idle speed	20% (at 5 min.)	20% (at 5 min.)
Duty cycle nominal load*	20 s ON/ 240 s OFF	20 s ON/ 240 s OFF
Rated torque*	2.8 Nm	2.8 Nm
Short term peak torque (<1s)	6 Nm	6 Nm
Input	hex 9 mm	hex 6 mm

^{*} Load determined for service life of 10,000 double strokes

Pin assignment

View A

- 1. Motor black 0,75 mm² 2. Motor blue + PIN type AMP170364

0,25 - 0,35 mm²

- 3. Hall sensor red +5V
- 4. Hall sensor violet, output 2

5. Hall sensor black - PIN type 6. Hall sensor green, output 1 AMP170363

Mounting example:

Screw M5x20 DIN 7380 (3x)

Technical notes

- The drive requires a suitable 12 V controller.
- The drive working range (nominal torque) is determined for a service life of 10,000 double strokes.
- By using a controller with a short-circuit brake the holding torque position of the drive can be increased.

Technical data for motor drive 3112 in combination with spindle unit 3130.14

3130.14-V21EXXXHXXX 3130.14-V22EXXXHXXX	3130.14-V11EXXXHXXX 3130.14-V12EXXXHXXX
TR14x3 RH	SG14x16P4 RH
90 s ON/ 540 s OFF	25 s ON/ 300 s OFF
900 N	400 N
500 N	400 N
150 kg	60 kg
	3130.14-V22EXXXHXXX TR14x3 RH 90 s ON/ 540 s OFF 900 N 500 N

^{*} Load determined for service life of 10,000 double strokes

3112.75-02/20250401 www.ketterer.de



Description

Powerful 24 V DC motor with 2-stage worm gear with through going hexagon socket on the output.

The motor cable with AMP plug and the integrated Hall sensors allow secure connection and exact positioning of the entire system.

Special features

- Two integrated Hall sensors for measurement of the revolutions and direction of rotation
- Through going hexagon socket in wrench widths 6 mm, 7 mm, 8 mm
- Good self-locking properties
- 220 mm motor cable with connector included
- Can be combined with most Ketterer spindle systems

Variant key

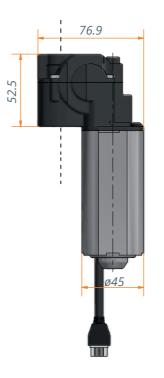
The variants are formed by the different wrench widths of the through going hexagon socket.

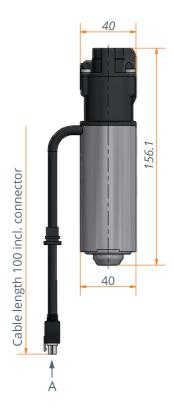
The design with fork head (see spindle drive 3120.00) is available upon request.

Technical data

Model	3121.00-2002	3121.00-2007	3121.00-2008
Motor	DC motor 24 V	DC motor 24 V	DC motor 24 V
Sensor/Power supply	Hall/5 V DC/0.3 A	Hall/5 V DC/0.3 A	Hall/5 V DC/0.3 A
Protection class	IP30	IP30	IP30
Idle running speed	150 rpm (24 V)	150 rpm (24 V)	150 rpm (24 V)
Duty cycle idle speed	20% (at 5 min.)	20% (at 5 min.)	20% (at 5 min.)
Rated torque*	3 Nm	3 Nm	3 Nm
Duty cycle nominal load*	20 s ON 240 s OFF	20 s ON 240 s OFF	20 s ON 240 s OFF
Short term peak torque (<1sec)	4.5 Nm	4.5 Nm	4.5 Nm
Input	hex 6 mm	hex 7 mm	hex 8 mm

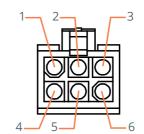
^{*} Load determined for service life of 10,000 double strokes





Pin assignment

View A

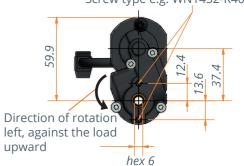


- 1. Motor black -2. Motor blue +
- Wire AWG18 PIN type AMP170364 or ALEX 7003T or HRB T 1020BS-2
- 3. Hall sensor red +5V
- 4. Hall sensor violet, output 2
- 5. Hall sensor black -
- 6. Hall sensor green, output 1

Wire AWG 26 PIN type AMP170363 or ALEX 7003T or HRB T 1020BS-2A

Installation position/mounting

Mounting holes for plastic mold screws Tightening torque 1.8 Nm Screw type e.g. WN1452-K40xXX



Technical notes

- Please note the correct installation position of the drive! The drive is correctly mounted when it turns counterclockwise under load (see installation position/mounting).
- The drive working range (nominal torque) is determined for a service life of 10,000 double strokes.
- * In combination with LogicData control box Compact-3

• Through the controller* the system is regulated such that the speed in the entire drive working

range is kept as constant as possible.

 By using a controller with a short-circuit brake the holding torque position of the drive can be increased.

3121.75-02/20250324 www.ketterer.de



Description

Compact 24 V DC motor with worm gear and continuous hexagon socket. Optimized sound characteristics due to elastic coupling and vibration damping fastening elements.

Although the drive was developed for ergonomic table applications, it can be used in many other fields.

The drive is designed and tested for axial pressure load. A cable with AMP plug and an integrated Hall sensor allows easy and secure control of the entire system.

Special features

- Vibration and sound-damped design through mechanical decoupling of the spindle system
- Two integrated Hall sensors for measurement of the revolutions and direction of rotation
- Through going hexagon socket in wrench widths 6 mm and 7 mm
- Good self-locking properties
- 100 mm motor cable with connector included
- Can be combined with most Ketterer spindle systems

Variant key

The variants are formed by the different wrench widths and by fastening variants with and without fastening plate (Variant A or Variant B).

Technical data

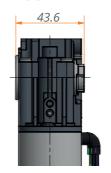
Model	3130.00-1002 Variant B	3130.00-1003 Variant B	3130.00-2002 Variant A	3130.00-2003 Variant A
Motor	DC Motor 24 V			
Sensor/Power supply	Hall/5 V DC/0.3 A			
Protection class	IP30	IP30	IP30	IP30
Idle running speed	120 rpm (24 V)			
Duty cycle idle speed	20% (at 5 min.)			
Rated torque*	3.5 Nm	3.5 Nm	3.5 Nm	3.5 Nm
Duty cycle nominal load	20 s ON 240 s OFF			
Short term peak torque (<1s)	6 Nm	6 Nm	6 Nm	6 Nm
Input	hex 6 mm	hex 7 mm	hex 6 mm	hex 7 mm

^{*} Load determined for service life of 10,000 double strokes

Variant A with mounting plate



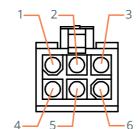
Variant B without mounting plate



43.9

Pin assignment

View A



- 1. Motor black -2. Motor blue +
 - Wire AWG18 PIN type AMP170364 or ALEX 7003T or HRB T 1020BS-2
- 3. Hall sensor red +5V
- 4. Hall sensor violet, output 2
- 5. Hall sensor black -6. Hall sensor green, output 1

Wire AWG 26 PIN type or ALEX 7003T

Technical notes

- The drive working range (nominal torque) is determined for a service life of 10,000 double strokes.
- Through the controller* the system is regulated such that the speed in the entire drive working range is kept as constant as possible.
- * In combination with LogicData control box Compact-3
- By using a controller with a short-circuit brake the holding torque position of the drive can be increased.

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Motor drive 3133.00



Description

Compact 24 V DC motor with worm gear and continuous hexagon socket. Although the drive was developed for ergonomic table applications, it can be used in many other fields. A cable with AMP plug and an integrated Hall sensor allows easy and secure control of the entire system.

Special features

- Two integrated Hall sensors for measurement of the revolutions and direction of rotation
- Through going hexagon socket in wrench widths 6 mm, 7 mm, 9 mm
- Good self-locking properties
- Low noise
- 1000 mm motor cable with connector included
- Can be combined with all Ketterer spindle systems

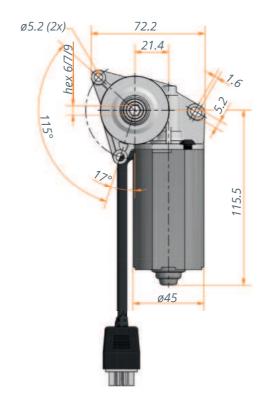
Variant key

The variants are formed by the different wrench widths.

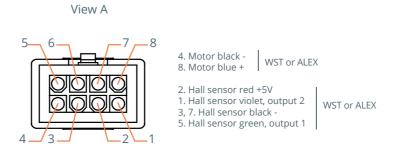
Technical data

Model	3133.00-0016	3133.00-0017	3133.00-0011
Motor	DC motor 24 V	DC motor 24 V	DC Motor 24 V
Sensor/Power supply	Hall/5 V DC/0.3 A	Hall/5 V DC/0.3 A	Hall/5 V DC/0.3 A
Protection class	IP30	IP30	IP30
Idle running speed	120 rpm (24 V)	120 rpm (24 V)	120 rpm (24 V)
Duty cycle idle speed	20% (at 5 min.)	20% (at 5 min.)	20% (at 5 min.)
Rated torque*	3.5 Nm	3.5 Nm	3.5 Nm
Duty cycle nominal load	20 s ON 4 min OFF	20 s ON 4 min OFF	20 s ON 4 min OFF
Short term peak torque (<1sec)	5 Nm	5 Nm	5 Nm
Input	hex 6 mm	hex 7 mm	hex 9 mm

^{*} Determined at full load for service life of 10,000 double strokes

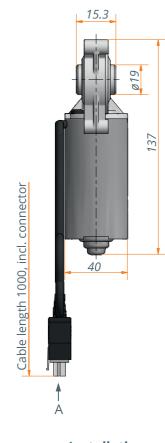


Pin assignment



Technical notes

- To ensure secure operation the motor must be operated in the predefined installation position (see installation position/mounting).
- The drive working range (nominal torque) is determined for a service life of 10,000 double strokes.
- The connection position of the drive in the entire system with vibration damping elements can be beneficial. However, the functional reliability position of the drive in the application should be tested.



Installation position/Mounting



- Through the controller* the system is regulated such that the speed in the entire drive working range is kept as constant as possible.
- By using a controller with a short-circuit brake the holding torque position of the drive can be increased.

3133.75-02/20200204 www.ketterer.de

^{*} In combination with LogicData control box Compact-3

Motor drive 3133.48



Description

Compact 24 V DC motor with worm gear and through going hexagon socket. Although the drive was developed for ergonomic table applications, it can be used in many other fields. A cable with AMP plug and an integrated Hall sensor allows easy and secure control of the entire system.

Special features

- Two integrated Hall sensors for measurement of the revolutions and direction of rotation
- Through going hexagon socket in wrench widths 6 mm and 9 mm
- High torque with minimum construction size
- Good self-locking properties
- Low noise
- 100 mm motor cable with connector included
- Can be combined with all Ketterer spindle systems

Variant key

The variants are formed by the different wrench widths.



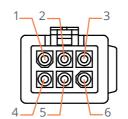
Technical data

Model	3133.48-0009	3133.48-0016
Motor	DC motor 24 V	DC motor 24 V
Sensor/Power supply	Hall/5 V DC/0.3 A	Hall/5 V DC/0.3 A
Protection class	IP30	IP30
Duty cycle idle speed	20% (at 5 min.)	20% (at 5 min.)
Idle running speed	100 rpm (24 V)	100 rpm (24 V)
Rated torque*	5 Nm	5 Nm
Duty cycle nominal load	20 s ON/ 240 s OFF	20 s ON/ 240 s OFF
Short term peak torque (<1sec)	8 Nm	8 Nm
Input	hex 9 mm	hex 6 mm

^{*} Load determined for service life of 10,000 double strokes

Pin assignment

View A



- 1. Motor black -2. Motor blue +
- Wire AWG18 PIN type AMP170364 or ALEX 7003T
- 3. Hall sensor red +5V 4. Hall sensor violet, output 2
- 5. Hall sensor black -
- 6. Hall sensor green, output 1

or HRB T 1020BS-2A

Installation position/Mounting

Screw M5x20 DIN 7380 (3x)



Technical notes

- The drive working range (nominal torque) is determined for a service life of 10,000 double strokes.
- Through the controller* the system is regulated such that the speed in the entire work area position of the drive is kept as constant as possible.
- * In combination with LogicData control box Compact-3

• By using a controller with a short-circuit brake the holding torque position of the drive can be increased.

3133.75-04/20190705 www.ketterer.de 12

DC-Motor drive 3143



Description

Powerful 24 V DC motor with worm gear and through going hexagon socket. Although the drive was developed for ergonomic table applications, it can be used in many other fields. A cable with connector and an integrated Hall sensor allows easy and secure control of the entire system.

Special features

- Two integrated Hall sensors for measurement of the revolutions and direction of rotation
- Through going hexagon socket in wrench widths 6 mm, 7 mm, 9 mm
- Available as "power package" or as "high speed" variant
- Depending on variant: 1.2 m (variants: V01 / V02) or
 0.1 m (variant V03) Motor cable with plug included
- Good self-locking properties
- Can be combined with all Ketterer spindle systems

Technical data

	Drive va	ariant			
3143.00		Idle runn	ing speed	d Rate	d torque
	V01	120 U/mi	า	5 Nm	
	V02	240 U/mi	า	2.8 N	lm
	V03	180 U/mi	า	5 Nm	1
		Mechan	ical con	nection	
		A06	hex 6 mr	n	
		A07	A07 hex 7 mm		
		A09 hex 9 mm			
			Cable + connector		
			KS	Standard:	1.2 m with 8-pin Molex connector (for V01 and V02)
			K1 0.1 m with 6 pin AMP connector (for V03)		
		Modification			
			MS Standard: No modification		
3143.00-	V01	A06	KS	MS	Example

Technical data

Model	3143.00-V01A06KSMS 3143.00-V01A07KSMS 3143.00-V01A09KSMS	3143.00-V02A06KSMS 3143.00-V02A07KSMS 3143.00-V02A09KSMS	3143.00-V03A06K1MS 3143.00-V03A07K1MS 3143.00-V03A09K1MS
Drive motor	DC motor 24 V	DC motor 24 V	DC motor 24 V
Voltage range	12 V -32 V	12 V -32 V	12 V -32 V
Sensor/Supply	Hall/5 V DC/0.3 A	Hall/5 V DC/0.3 A	Hall/5 V DC/0.3 A
Type of protection	IP30	IP30	IP30
Idle speed	115 rpm (24 V) 120 rpm *	230 rpm (24 V) 240 rpm *	180 rpm
Duty cycle in idle mode	20% (at 5 min.)	20% (at 5 min.)	20% (at 5 min.)
Rated torque**	5 Nm	2.8 Nm	5 Nm
Rated current	3.9 A at 5 Nm	4 A at 2.8 Nm	8.2 A at 5 Nm
Rated speed*	105 rpm (24 V)	210 rpm (24 V)	150 rpm
Duty cycle at rated load**	20 s ON 240 s OFF	20 s ON 240 s OFF	20 s ON 240 s OFF
Short-term peak torque (<1s)	9 Nm	5 Nm	9 Nm
Drive	A06: hex 6 mm A07: hex 7 mm A09: hex 9 mm	A06: hex 6 mm A07: hex 7 mm A09: hex 9 mm	A06: hex 6 mm A07: hex 7 mm A09: hex 9 mm
Suitable control unit*** (Control 2 drives synchronously)	LogicData Compact-3 EU: 1000.49-02 US: 1000.49-12		LogicData Compact-3 EU: 1000.49-29 US: 1000.49-39

^{*} In combination with LogicData control box Compact-3

Technical notes

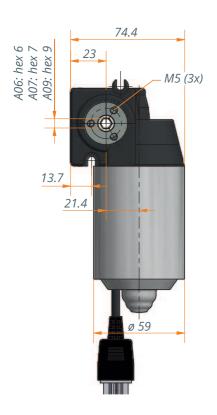
- The drive working range (rated torque) is determined for a service life of 10,000 double strokes in table applications
- By using a controller with a short-circuit brake the holding torque position of the drive can be increased
- Through the controller (in combination with LogicData control box Compact-3) the system is regulated such that the speed in the entire drive working range is kept as constant as possible

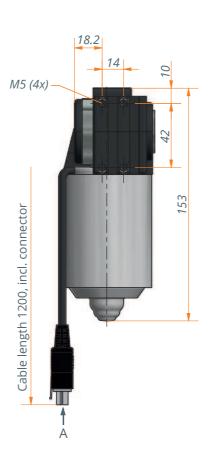
3143.75-02/20250324 www.ketterer.de

^{**} Load determined for service life of 10,000 double strokes (in table applications)

^{***} For further variants see chapter accessories / controls

Variants 3143.00-V01 and 3143.00-V02

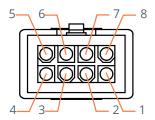




Pin assignment

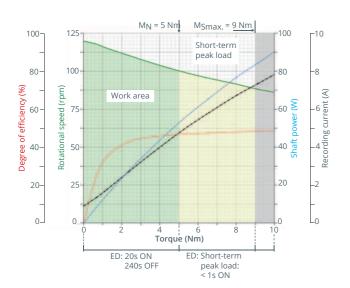
View A

16

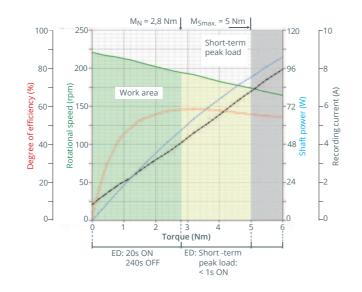


- 4. Motor black -Molex 39-01-2085 8. Motor blue +
- 2. Hall sensor red +5V
- 1. Hall sensor violet, output 1 3., 7. Hall sensor black -
- 5. Hall sensor green, output 2

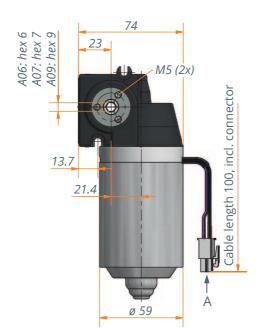
Motor characteristics V01 @24 V

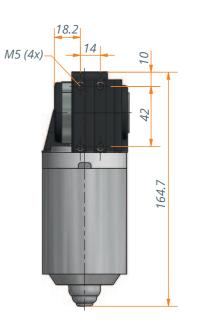


Motor characteristics V02 @24 V



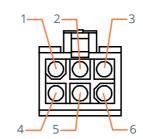
Variant 3143.00-V03





Pin assignment

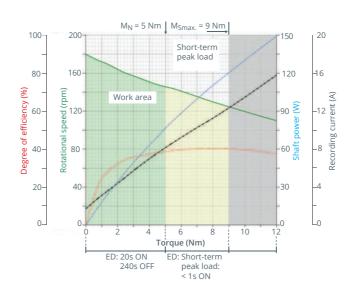
View A



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- 1. Motor black -AMP 172168-1 2. Motor blue +
- 3. Hall sensor red +5V
- 4. Hall sensor violet, output 2
- 5. Hall sensor black -
- 6. Hall sensor green, output 1

Motor characteristics V03 @24 V





Description

Powerful 24 V DC motor with two worm gears and a planetary gear. High reduction ratio makes precise control and position setting possible.

Special features

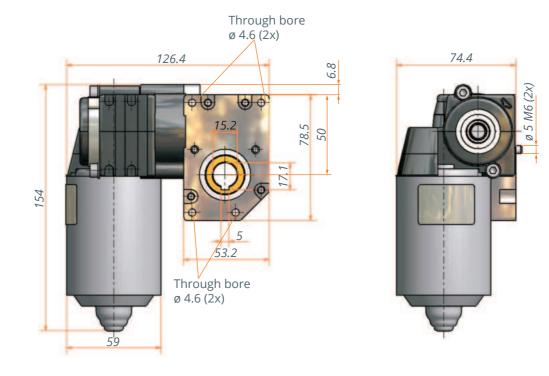
- Compact, precise gears for sophisticated position adjustment
- High reduction ratio
- High drive torque
- Two integrated Hall sensors for measurement of the revolutions and direction of rotation
- Low noise

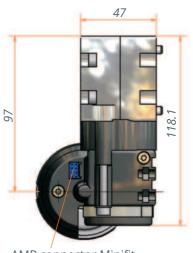
Do

Technical data

Model	4773.00-0002
Motor	DC motor 18 V
Sensor/Power supply	Hall/5 V DC/0.3 A
Protection class	IP30
Duty cycle idle speed	20% (at 5 min.)
Idle running speed	1 rpm (24 V) 1.5 rpm (32 V)
Max. drive torque*	40 Nm
Input	bore hole with keyway

^{*} Load determined for service life of 10,000 double strokes





AMP connector Minifit line HE 14

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Motor drive for through going spindle 4778



Description

Powerful 24 V DC motor with worm gear, designed for non-rotating through going spindle for pushing and pulling movements. A cable with AMP plug and an integrated Hall sensor allows easy and secure control of the entire system.

Special features

- Two integrated Hall sensors for measurement of the revolutions and direction of rotation
- Different type of internal thread for through going spindles
- Good self-locking properties
- Fast and powerful
- Order spindle separately

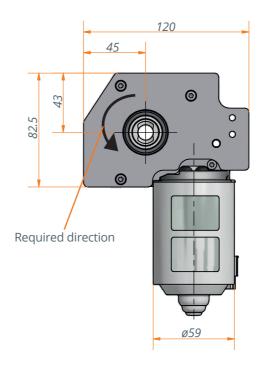
Variant key

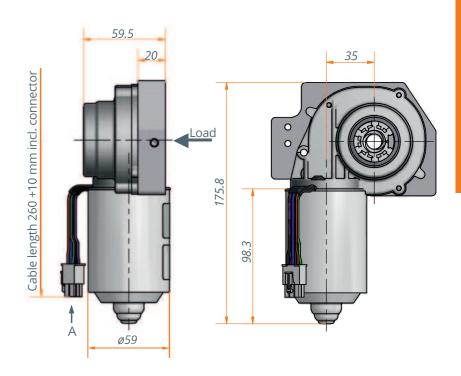
The variants are formed by different internal thread types for connecting the spindles.

Technical data

Model	4778.00-0002 4778.00-0004		4778.00-0006
Motor	DC motor 24 V	DC motor 24 V	DC motor 24 V
Sensor/Power supply	Hall/5 V DC/0.3 A	Hall/5 V DC/0.3 A	Hall/5 V DC/0.3 A
Protection class	IP30	IP30	IP30
Operating temperature	0° to +30°	0° to +30°	0° to +30°
Electric current (I _N) at max. load	8 A	8 A	8 A
Idle running speed	270 rpm	270 rpm	270 rpm
Duty cycle idle speed	20% (at 5 min.)	20% (at 5 min.)	20% (at 5 min.)
Duty cycle at max. load	10 s ON 240 s OFF	13 s ON 240 s OFF	8 s ON 240 s OFF
Max. lifting force*	1900 N	3700 N	950 N
Traverse speed (constant from F= 0 bis F _{max.})**	24 mm/s	12 mm/s	45 mm/s
Static Self locking ***	200 kg	380 kg	200 kg
Output (Inner thread)	SG16x8P4 RH	Tr16x4 RH	SG14x16P4 RH

^{*} Determined for service life of 10,000 double strokes





Pin assignment

View A

PIN assignment:

- 1. Motor black -2. Motor blue +
 - PIN type AMP170364
- 3. Hall sensor red +5V4. Hall sensor violet, output 25. Hall sensor black -
- 6. Hall sensor green, output 1
- PIN type AMP170363



Installation position/Mounting

Technical notes

- Spindle is not included; must be ordered se-
- Achtung: Note correct installation position (see installation example/position).
- The drive must be protected against lateral forces by a guide system.
- The drive working range (nominal torque) is determined for a service life of 10,000 double
- By using a controller with a short-circuit brake the holding torque position of the drive can be increased.

4778.75-02/20250318 www.ketterer.de

^{**} The controller regulates the system in such a way that the travel speed in the entire drive working range is kept as constant as possible

^{***} In combination with controller, which has a short circuit brake

Motor drive for through going spindle 4779



Description

Powerful 24 V DC motor with worm gear, designed for an axis parallel through going spindle. Ideal for integration in a lift column.

The drive is only suitable for axial pressure load.

A cable with standard connector and integrated Hall sensor technology permit simple and secure control of the entire system.

Special features

- Two integrated Hall sensors for measurement of the revolutions and direction of rotation
- Different type of internal thread for through going spindles
- Good self-locking properties
- Fast and powerful
- Order spindle separately

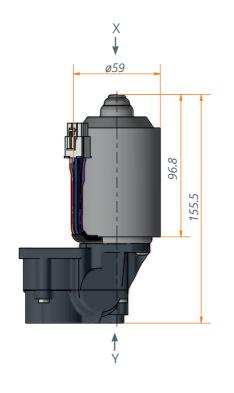
Variant key

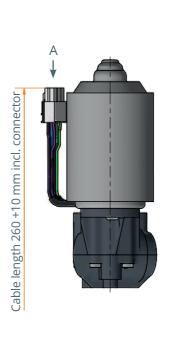
The variants are formed by different internal thread types for connecting

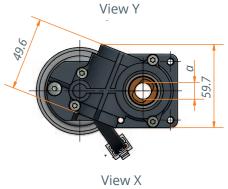
Technical data

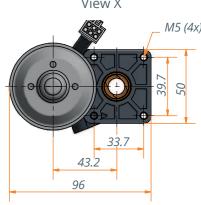
Model	4779.00-0001	4779.00-0002	4779.00-0003
Motor	DC motor 24 V	DC motor 24 V	DC motor 24 V
Sensor/Power supply	Hall/5 V DC/0.3 A	Hall/5 V DC/0.3 A	Hall/5 V DC/0.3 A
Protection class	IP30	IP30	IP30
Operating temperature	0° to +30°	0° to +30°	0° to +30°
Electric current (I _N) at max. load	6,3 A	7 A	7 A
Idle running speed	133 rpm	133 rpm	133 rpm
Duty cycle idle speed	20% (at 5 min.)	20% (at 5 min.)	20% (at 5 min.)
Duty cycle nominal load*	20 s ON 240 s OFF	33 s ON 240 s OFF	16 s ON 240 s OFF
Max. lifting force	1800 N	2200 N	1500 N
Traverse speed (constant from $F=0$ to F_{max} .)	17 mm/s	12 mm/s	24 mm/s
Static Self locking **	180 kg	220 kg	150 kg
Output a (Inner thread)	SG12x12P4 RH	Tr16x8P4 RH	SG14x16P4 RH

Load determined for service life of 10,000 double strokes



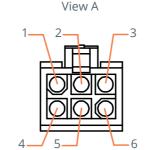






Installation position/Mounting

Pin assignment



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

Adaptor plate customer specific, not included

Technical notes

- Spindle not included; must be ordered separately
- Attention: The drive is only suitable for axial pressure load. Note correct installation position (see installation example)
- The drive must be protected against lateral forces by a guide system
- The drive working range (nominal torque) is determined for a service life of 10,000 double strokes
- * In combination with LogicData control box Compact-3

- By using a controller with a short-circuit brake the holding torque position of the drive can be increased
- The controller* regulates the system in such a way that the travel speed in the entire drive working range is kept as constant as possible

4779.75-02/20250324 www.ketterer.de

^{**} In combination with controller, which has a short circuit brake

Electric motor drive system for large umbrellas 3062



Electric motor drive system for integration into the telescopic tubing system, consisting of motor, controller, gear and operating elements.

The drivetrain is designed for high push and pull forces and opens/closes the large umbrella effortlessly at the push of a button. The set also includes a hand crank for emergency operation as well as a single-channel remote central.

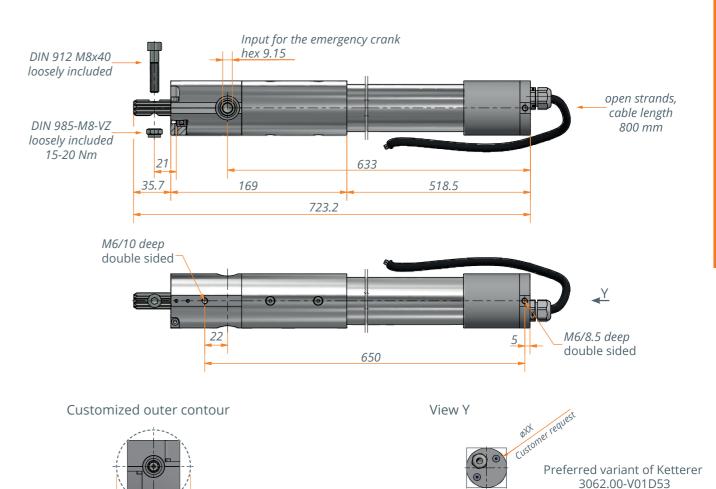
The system can be adapted to the pole tube inner diameter (DXX > 53mm), if required by the customer.

Special features

- Electric motor spindle drive, completely integrable in the pole tube
- Transmission ratio of drivetrain, electric drive spindle i = 1:1
- Transmission ratio of drivetrain, crank spindle i = 1:4
- Maintenance-free
- Flexibly adaptable to the customer needs:
 Outer contour (min. 53 mm / max. 73 mm)

	3062.00-V01DXX	
Voltage	230 V~/50 Hz	
Electric current	1.0 A	
Switch-on current (factor)	x 1.2	
Motor power consumption	220 W	
Drive output power	approx. 60 W	
Rated torque / Nominal torque / peak torque	5 Nm / 7 Nm short time	
Idle running speed	134 RPM	
Rated speed	120 RPM @ 5 Nm	
Mode of operation	2,5 min on, 45 min off	
Ambient temperature / humidity	Operation: T = -10 °C to +60 °C / H max. 90% Storage: T = -15 °C to +70 °C / dry, non-condensing	
Operating temperature, motor	Overheating protection with switch-off at approx. 110 °C	
Protection class	IP 44	
Transmission ratio i drivetrain electric drive - spindle	1:1	
External diameter D	XX mm (Preferred variant 53 mm)	
Speed of travel under nominal load	8 mm/s*	
Max load peaks tensile-/compressive forces static	10,000 N	

^{*} in combination with spindle 25x4



Outer contour of the drive can be realized customer-specific (DXX or QXX)

DXX max. round = \emptyset 73 mm DXX min. round = \emptyset 53 mm OXX max. square = \square 52 mm

Technical notes

- If installed vertically, it is essential to protect the drive against dripping water from above.
- The hand crank may only be used as an emergency hand crank; the drive must be disconnected from the power supply system. The planetary gear of the motor can be damaged if the hand crank is moved too quickly.
- Attention: Spindle systems with a spindle pitch of > 3 mm are no longer self-locking.
 Check the self-locking effect in the application!

Scope of delivery

- 1 x electric motor spindle drive, consisting of motor incl. controller and gear
- 1 x emergency hand crank with integrated ejection mechanism
- 1 x single-channel remote control



Attention: Spindle and spindle nut must be designed individually and ordered separately

3062.75-02/20250320 www.ketterer.de 22

Inline spindle drive 3120



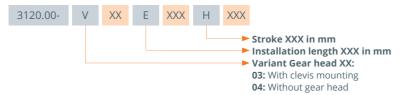
Description

Motorized solution for the individual sit-stand workplace. Stepless height adjustment to customer specific stroke. A slender design allows to integrate the complete inline actuator into the tube of a table leg.

Special features

- Simple mounting
- Integrated position measuring system
- Single telescopic function
- Various spindle lengths and different spindle pitches are possible

Variant key

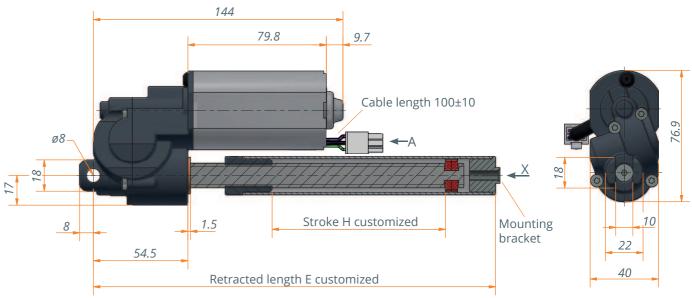


Technical data

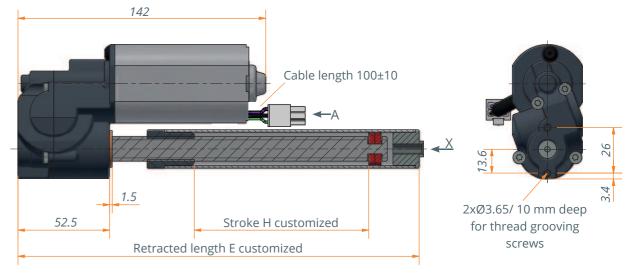
Model	3120.00-V03EXXXHXXX	3120.00-V04EXXXHXXX
Motor	DC Motor 24 V	DC Motor 24 V
Sensor/Power supply	Hall/5 V DC/0.3 A	Hall/5 V DC/0.3 A
Protection class	IP30	IP30
Cable	0.1 m/ 6 pin	0.1 m/ 6 pin
Duty cycle	20% (at 5 min.)	20% (at 5 min.)
Idle running speed	100 rpm (24 V) 150 rpm *	100 rpm (24 V) 150 rpm *
Max. stroke	Retracted length -111 mm	Retracted length -109 mm
Type of spindle	SG14x16P4 RH **	SG14x16P4 RH **
Max. lifting force	800 N	800 N
Max. drive torque	3 Nm	3 Nm
Movement speed	43 mm/s	43 mm/s

^{*} In combination with LogicData control box Compact-3

Variant 3120.00-V03

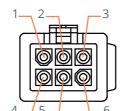


Variant 3120.00-V04



Pin assignment

View A



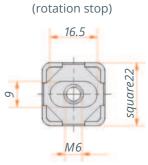
- 1. Motor black -
- 2. Motor blue +
- 3. Hall sensor red +5V
- 4. Hall sensor violet, output 2
- 5. Hall sensor black -
- 6. Hall sensor green, output 1

Technical notes

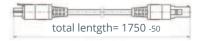
www.ketterer.de

 Depending on the the spindle pitch, the system could back-drive.

View X



Extension cable 3122.53-02



^{**} Further types of spindles on request

Inline spindle drive 3120 Heavy load

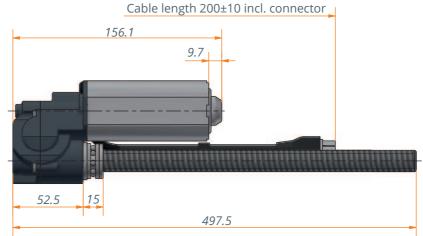


Description

Electric motorized spindle drive with matching spindle nut for stepless stroke adjustment with customized stroke height. Thanks to its slim design, it fits easily into narrow guideways and can move loads of up to 250 kg.

Special features

- Slim inline design
- Integrated position measuring system
- Spindle nut made of POM-C included
- Customized spindle length possible
- Spindle and spindle nut can be modified according to customer specifications (spindle type, material, geometry)



for self-tapping Suitable motor cable: 3122.53-02 screws for plastic

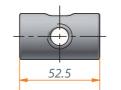


Technical data

Model	3120.00-1000	
Motor	DC Motor 24 V	
Sensor/Power supply	Hall/5 V DC/0.3 A	
Protection class	IP30	
Duty cycle	20% (at 5 min.)	
Idle running speed	100 rpm (24 V) 150 rpm *	
Stroke	430 mm	
Type of spindle	Tr16x4RH	
Max. lifting force	2500 N	
Max. drive torque	5 Nm	
Movement speed	10 mm/s	
Cabel	0.2 m, connector AMP 6 Pin	

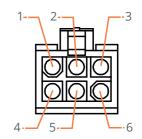
^{*} In combination with LogicData control box Compact-3

Spindle nut





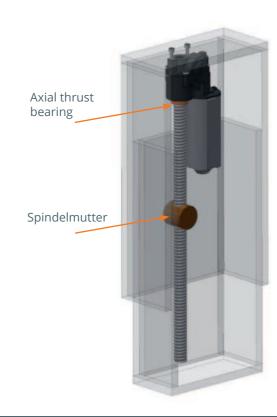
Pin assignment



- 1. Motor black -AMP 172168-1 2. Motor blue +
- 4. Hall sensor violet, output 2
- 5. Hall sensor black -
- 6. Hall sensor green, output 1

Technical notes

- Depending on the spindle pitch, the system could back-drive
- The spindle nut must be screwed directly to the wall of the frame/guide
- For a safe load support an axial thrust bearing is installed between drive and spindle
- Suitable motor cable: 3122.53-02



3120 S.75-01/20240409 www.ketterer.de

^{**} Further types of spindles on request

Inline spindle drive 3122



Description

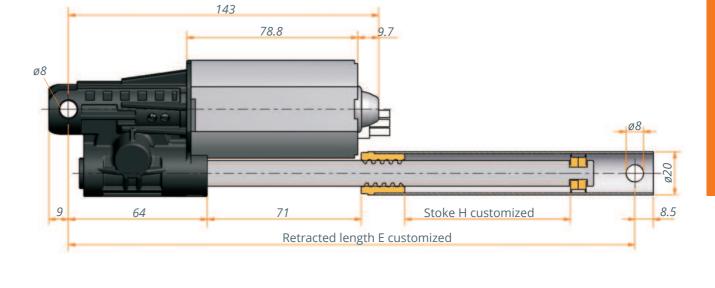
Motorized solution for the individual sit-stand workplace. Stepless height adjustment to customer specific stroke.

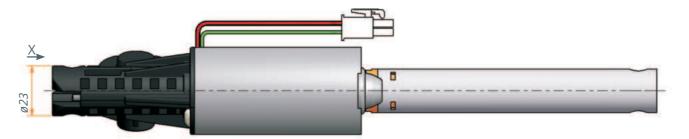
A slender design allows to integrate the complete inline actuator into the tube of a table leg.

Special features

- Simple mounting
- Integrated position measuring system
- Single telescopic function
- Various spindle lengths and different spindle pitches are possible







Technical data

Model	3122.00-V01EXXXHXXX	
Motor	DC Motor 24 V	
Sensor/Power supply	Hall/5 V DC/0.3 A	
Protection class	IP30	
Duty cycle	20% (at 5 min.)	
Idle running speed	180 rpm (24 V) 180 rpm *	
Max. stroke	Retracted length -171 mm	
Type of spindle	SG12x16P4 RH **	
Max. lifting force	600 N	
Max. drive torque	2.5 Nm	
Movement speed	48 mm/s	

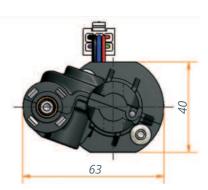
^{*} In combination with LogicData control box Compact-3

Technical notes

www.ketterer.de

 Depending on the the spindle pitch, the system could back-drive





^{**} Further types of spindles on request

Drive with throughgoing spindel 3146

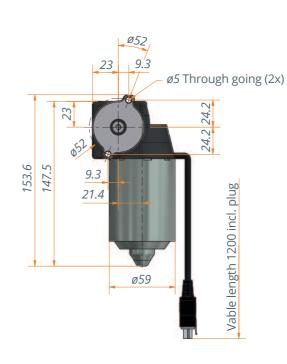


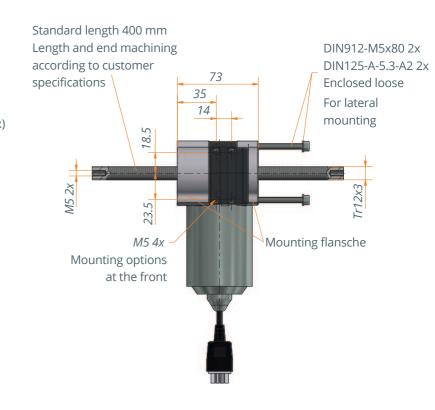
Description

Direct current motor with worm gear and through-going not rotating spindle for push and pull movements.

Special features

- Two integrated Hall sensors for detecting the rotations and the direction of rotation
- With through-going spindle TR12x3 as standard
- Other spindle types available on request
- Spindle material, finishing and length of the spindle according to customer specifications





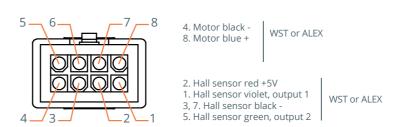
Technical data

Model	3146.00-0003	
Drive motor	DC Motor 24 V	
Sensor/Power supply	Hall/5 V DC/0.3 A	
Protection class	IP30	
Duty cycle	20% (at 5 min.)	
Idle running speed	115 rpm (24 V) 120 rpm *	
Type of spindle	Tr12x3 RH	
Spindle length	in standard 400 mm Customized lengths possible	
Max. drive torque	1200 N	
Movement speed	6 mm/s	

^{*} in combination with LogicData Compact-3 control box

Pin assignment

View A



Technical notes

- Depending on the the spindle pitch, the system could back-drive
- Attention: The mounting flange are only plugged together on the motor housing. When
 installing them in the system, the mounting holes on the side should be used and screwed
 on with the screws supplied loose. If side mounting is not required, the mounting flange
 can simply be omitted
- The drive can be installed both horizontally and vertically

3146.75-02/20240306 www.ketterer.de

Electric drive with synchronous telescopic spindle 4114

Description

Electric motor solution for the individual sit-stand workplace. Smooth running stepless height adjustment.

Special features

- Simple mounting
- Integrated position measuring system
- Twice telescopable
- Electronic synchronisation with up to 24 actuators
- Synchronous movement of the spindle units, double stroke speed

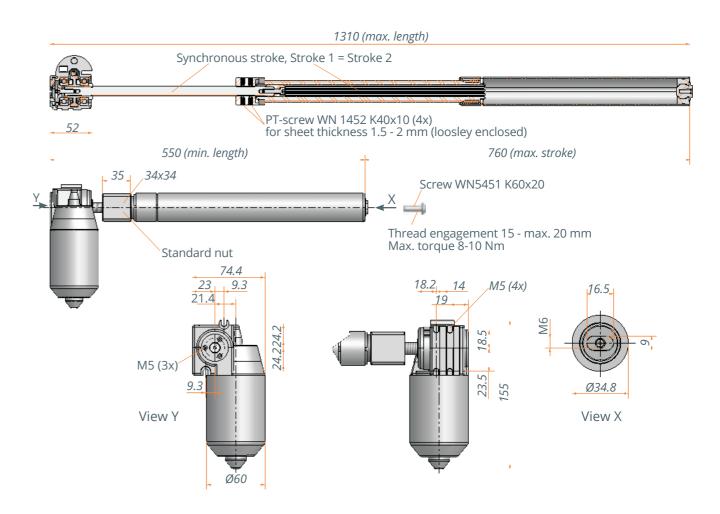




Technical data

Model	4114	
Motor	DC Motor 24 V	
Sensor/Power supply	Hall/5 V DC/0.3 A	
Protection class	IP30	
Duty cycle	20% (at 5 min.)	
Idle running speed	100 rpm (24 V) 150 rpm*	
Max. stroke	Retracted length -170 mm x2	
Type of spindle	SG25x12P6 RH**, SG12x12P4 RH	
Max. lifting force	800 N	
Max. drive torque	5 Nm	
Movement speed	50 mm/s*	

^{*} In combination with LogicData control box Compact-3



Technical notes

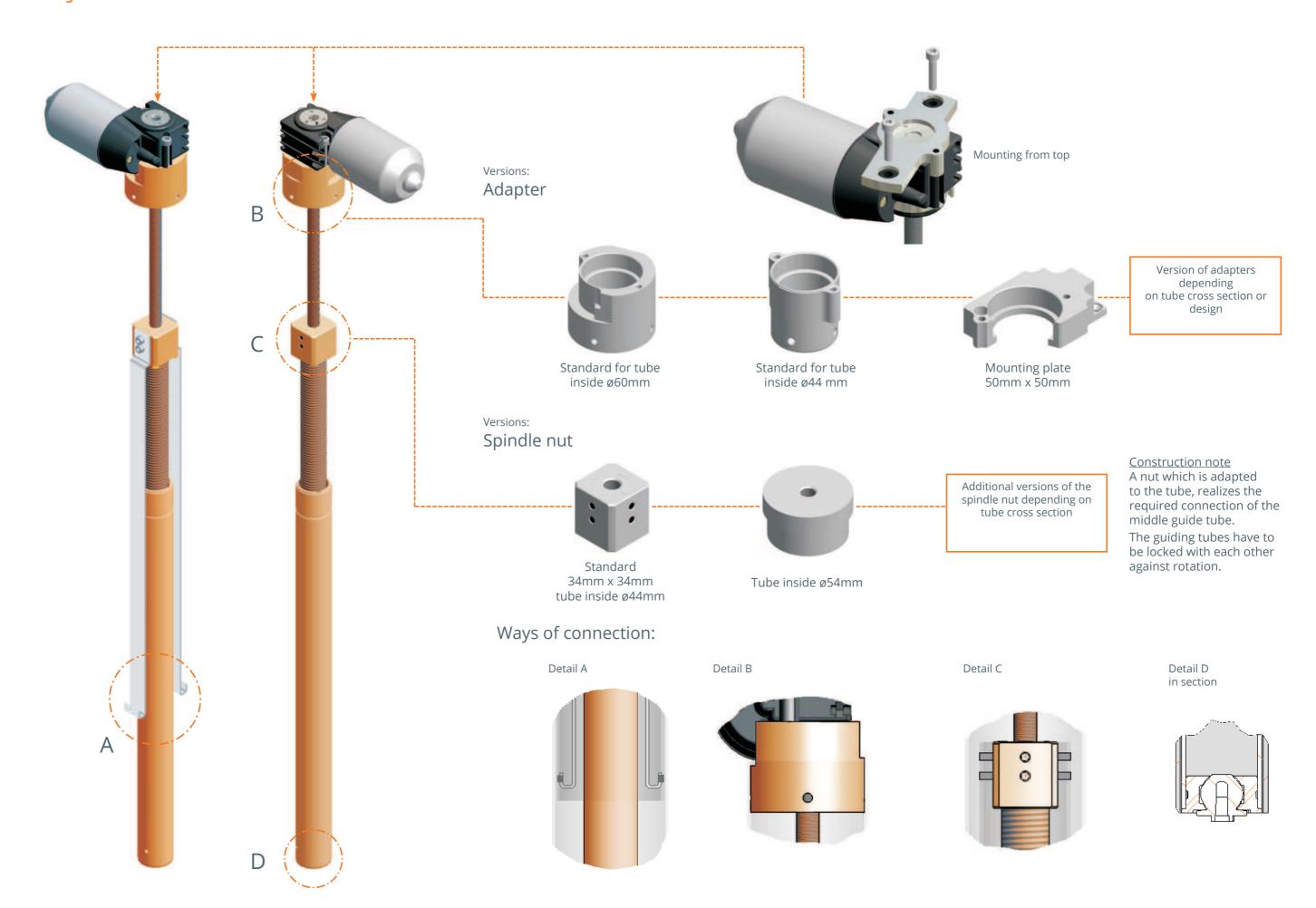
 Depending on the the spindle pitch, the system could back-drive.

Application example



^{**} Further types of spindles on request

Ways of installation



Electric spindle drive 4640



Description

Motorized solution for sit-stand workplace. Stepless height adjustment to customer specific travel distance.

Special features

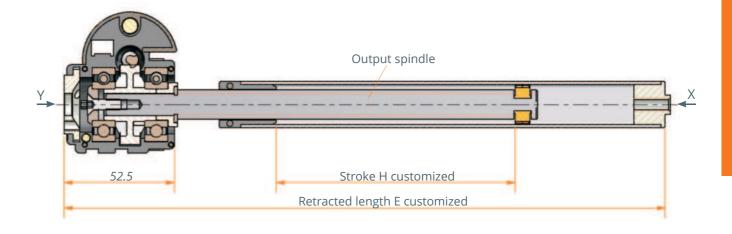
- Simple mounting
- Integrated position measuring system
- Single telescopic function
- Various spindle lengths and different spindle pitches are possible

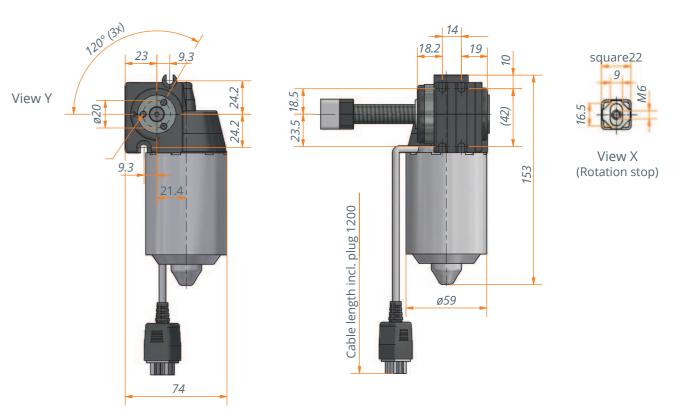


Technical data

Model	4640.00-V01EXXXHXXX	
Motor	DC Motor 24 V	
Sensor/Power supply	Hall/5 V DC/0.3 A	
Protection class	IP30	
Duty cycle	20% (at 5 min.)	
Idle running speed	100 rpm (24 V) 150 rpm *	
Max. stroke	Retracted length -109 mm	
Type of spindle	SG14x16P4 RH **	
Max. lifting force	800 N	
Max. drive torque	5 Nm	
Movement speed	40 mm/s	

^{*} In combination with LogicData control box Compact-3





Technical notes

 Depending on the the spindle pitch, the system could back-drive.

Application example



4640.75-02/20240313 www.ketterer.de

^{**} Further types of spindles on request

Electric spindle drive 4642



Description

Motorized solution for sit-stand workplaces. Stepless height adjustment to customer specific travel distance.

Special features

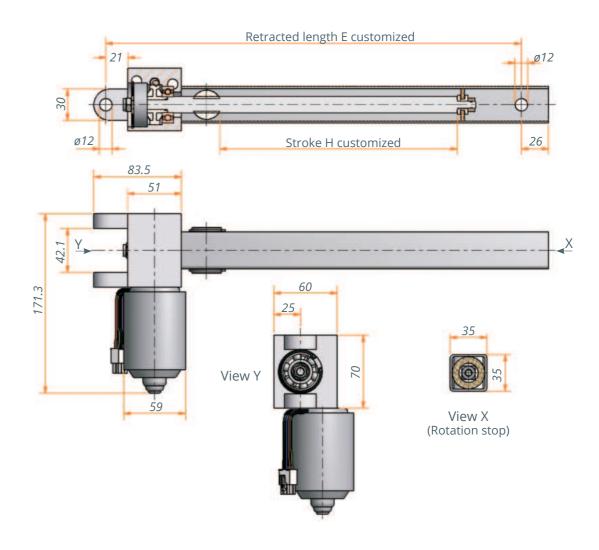
- Simple mounting
- Integrated position measuring system
- Single telescopic function
- Synchronization with up multiple actuators
- Two spindle pitches are available
- Installation length and stroke are customizable

DS

Technical data

Model	4642.00-V01EXXXHXXX	4642.00-V02EXXXHXXX
Motor	DC Motor 18 V	DC Motor 18 V
Sensor/Power supply	Hall/5 V DC/0.3 A	Hall/5 V DC/0.3 A
Protection class	IP30	IP30
Duty cycle	20% (at 5 min.)	20% (at 5 min.)
Idle running speed	100 rpm (24 V), 150 rpm *	100 rpm (24 V), 150 rpm *
Max. stroke	Retracted length -135 mm	Retracted length -135 mm
Type of spindle	Tr16x8P4 RH**	SG14x16P4 RH **
Max. lifting force	1500 N	800 N
Max. drive torque	5 Nm	5 Nm
Movement speed	20 mm/s	40 mm/s

^{*} In combination with LogicData control box Compact-3



Technical notes

• Depending on the the spindle pitch, the system could back-drive.

4642.75-02/20190117 www.ketterer.de

^{**} Further types of spindles on request

Electric spindle drive 4643



Description

Powerful motorized drive unit with push-pull spindle and electromechanical end-switches. Stroke to customer demands. By simplified control function, an additional distance measuring system is not required.

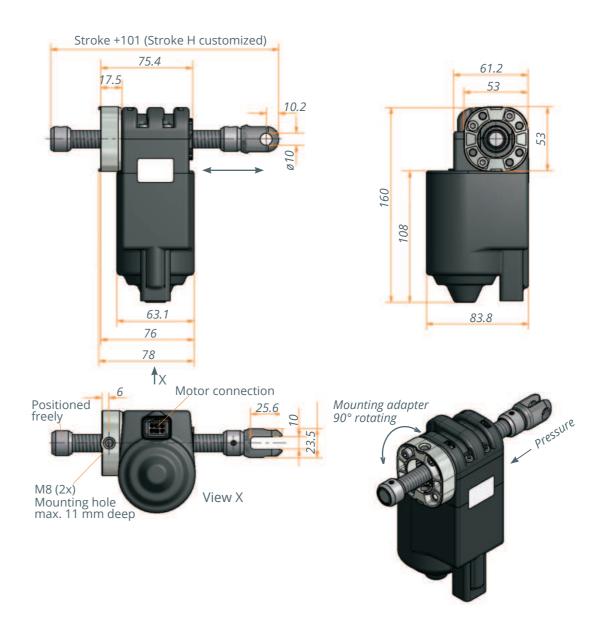
Special features

- Very powerful
- For very high holding torques
- Simple installation
- Two electromechanical end-switches
- Can be adapted easily by fork crown and mounting adapter flange

Technical data

Model	4643.00-V01EXXXHXXX	
Motor	DC Motor 18 V	
Sensor/Powerd supply	Hall/5 V DC/0.3 A	
Protection class	IP30	
Duty cycle	20% (at 5 min.)	
Type of spindle	Tr14x3 RH	
Max. pressure force	3000 N	
Movement speed	4 mm/s*	

^{*} In combination with LogicData control box Compact-3



Technical notes

• Depending on the the spindle pitch, the system could back-drive.

^{**} Further types of spindles on request

Logic Data Control box Compact-e-3



Description

Compact is the control unit for hight adjustable workstations and is matched to all Ketterer drives.

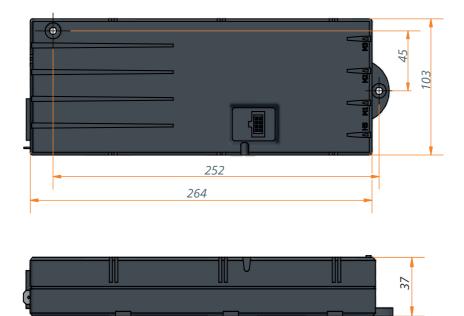
With one control unit can be controlled:

- up to three drives in parallel structure (one or two drives follow the master drive)
- two drives synchronously (drives are individually controlled)

Special features

- Control box Compacteco, Firmware-Version 1.9
- Voltage supply variants: 230 V and 110 V
- Freely stroke with hand switch with display (HSU-MDF-4M2-LD or TOUCHfx) programmable
- Ketterer can preprogram a desired stroke
- Duty cycle 2 min. ON/ 18 min. OFF
- Power cable has to be ordered separately

Technical data



further details under www.logicdata.at

Control box	Description	Drives for use with
1000.49-36 / Compact-e-3-KTS-4778-EU	one to three motors parallel	
1000.49-46 / Compact-e-3-KTS-4778-US	one to three motors parallel	S
1000.49-37 / Compact-e-3-KTS-4779-EU	one to three motors parallel	(4778, 4779)**
1000.49-47 / Compact-e-3-KTS-4779-US	one to three motors parallel	
1000.49-01 / Compact-e-3-KTS-4630-EU	one to three motors parallel	(3143.00-V01/V02)*
1000.49-02 / Compact-e-3-2-KTT-4630-EU	two motors synchronous	(4114, 4630, 4773) *
1000.49-11 / Compact-e-3-KTS-4630-US	one to three motors parallel	4643 **
1000.49-12 / Compact-e-3-2-KTT-4630-US	two motors synchronous	
1000.49-28 / Compact-e-3-KTS-3143.00-V03-EU	one to three motors parallel	
1000.49-29 / Compact-e-3-2-KTT-3143.00-V03-EU	two motors synchronous	
1000.49-38 / Compact-e-3-KTS-3143.00-V03-US	one to three motors parallel	3143.00-V03**
1000.49-39 / Compact-e-3-2-KTT-3143.00-V03-US	two motors synchronous	
1000.49-03 / Compact-e-3-KTS-3130-EU	one to three motors parallel	
1000.49-04 / Compact-e-3-2-KTT-3130-EU	two motors synchronous	
1000.49-13 / Compact-e-3-KTS-3130-US	one to three motors parallel	(3120, 3121, 3130)**
1000.49-14 / Compact-e-3-2-KTT-3130-US	two motors synchronous	
1000.49-05 / Compact-e-3-KTS-3122-EU	one to three motors parallel	
1000.49-06 / Compact-e-3-2-KTT-3122-EU	two motors synchronous	
1000.49-15 / Compact-e-3-KTS-3122-US	one to three motors parallel	3122 **
1000.49-16 / Compact-e-3-2-KTT-3122-US	two motors synchronous	
1000.49-09 / Compact-e-3-KTS-3133.00-EU	one to three motors parallel	
1000.49-10 / Compact-e-3-2-KTT-3133.00-EU	two motors synchronous	
1000.49-19 / Compact-e-3-KTS-3133.00-US	one to three motors parallel	3133.00
1000.49-20 / Compact-e-3-2-KTT-3133.00-US	two motors synchronous	
1000.49-07/ Compact-e-3-KTS-3133.48-EU	one to three motors parallel	
1000.49-08 / Compact-e-3-2-KTT-3133.48-EU	two motors synchronous	
1000.49-17 / Compact-e-3-KTS-3133.48-US	one to three motors parallel	3133.48 **
1000.49-18 / Compact-e-3-2-KTT-3133.48-US	two motors synchronous	

^{*} Motor cable 4138.53-01/ Length 1 m or 4138.53-02/ Length 2 m ** Motor cable 3122.53-02/ Length 1.75 m

Power cable	Connector	r
3143.53-22 / Power cable LOG-CBL-PWK	plug for control with 3-pin Schuko	- Europe
3143.53-23 / Power cable LOG-CBL-PWK-UK	for control with 3-pin plug	- UK
3143.53-24 / Power cable LOG-CBL-PWK-DK	for control with 3-pin plug	- Denmark
3143.53-25 / Power cable LOG-CBL-PWK-SW	for control with 3-pin plug	- Schweiz
3143.53-28 / Power cable LOG-CBL-PWK-USA	for control with 3-pin plug	- USA

Technical notes

- For stroke programming or changing on site a hand switch with display is always required (see hand control and motor cables)
- controller. If the operating times are exceeded
- the controller switches off automatically • Attention: Electric drives usually have a shorterduty cycle than controllers and are thus system-

• Please note the permissible duty cycle of the leading.

1010.75-04/20241209 www.ketterer.de

Hand control for controller Compact and motor cables



Ketterer's range of accessories offers a large selection of hand switches in various designs, with or without display, with simple or touch buttons and various motor cables to suit the respective Ketterer drives.

Special features

- Stepless adjustment
- User-defined and application-oriented control of your stepless adjustment
- Can be used with the Compact controller and all Ketterer motor drives

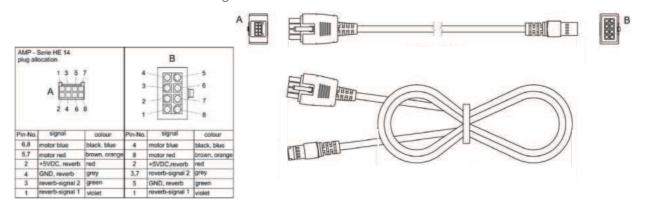
Technical data

Motor cable	For use with drives
4138.53-01/ Length 1 m 4138.53-02/ Length 2 m	4630, 4773
3122.53-02/ Length 1,75 m	4643, 3120, 3121, 3122, 3133.48

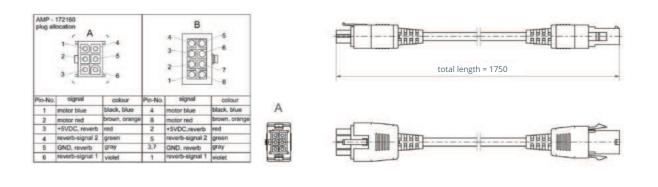
Hand switch	Description	
3143.47-50/ HSU-C-FL-SM-LD	Switch with display and four memory positions, stroke heights and two up-down buttons, free programmable	-
3143.47-48/ TOUCH-FX-MDF-KM-LD	Switch with display and four memory positions, with touch & click function	
3143.47-30/ HSM-OD-2-LD	Simple hand control, up-down	
3143.47-42/ TOUCH-Basic-UD-2-LD	Simple hand control up-down, with touch function	Alek
3143.47-0003/ Receiver, remote control	RF remote control consisting of RF receiver, remote control (including battery and mounting screws), and manual	10

^{*} Further details under http://www./logicdata.at

Motor cable 4138.53-01: 1 m long 4138.53-02: 2 m long



Motor cable 3122.53-02: 1.75 m long

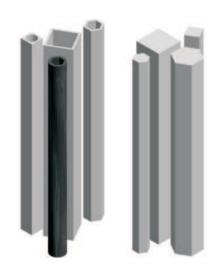


Technical notes

- Hand switches with touch function require the Compact controller with firmware Version 1.9
- For stroke programming or changing the travel on site a hand switch with display is always required

1010.75-02/20230329 www.ketterer.de

Profile tubes - Profile rods



Description

You get profile rods and profile tubes as rods in a length of 3 m.

Special features

- Profile rods are made of steel and drawn according to DIN EN 10278 (hexagon bars)
- Profile rods are made of steel and drawn according to DIN EN 10278 (square bars)
- Profile tubes are made of steel, brass or aluminium (black anodized) and drawn according to DIN EN 10305
- Further profile rods, profile tubes, special lengths and machining on request

Profil rods drawn according to DIN EN 10278 (hexagon and square bars)

Item number Steel version	Item number Brass version	Outer dimension
209S4.06.0	203V4.06.0	square 6mm
209S6.05.0		hex 5 mm
209S6.06.0		hex 6 mm
209S6.07.0		hex 7 mm
209\$6.08.0	203V6.08.0	hex 8 mm
209S6.09.0		hex 9 mm
209S6.12.0	203V6.12.0	hex 12 mm

Profile tubes drawn according to DIN EN 10305

Item number Steel version	Item number Brass version	Item number Aluminium black (anodised) Aluminium-tube DIN 17611 / quality E6	Outer dimension	Inner dimension
209R0.08.0-6kt5	-	-	Ø8	hex 5 mm
209R0.09.0-6kt6-SL	-	-	Ø9	hex 6 mm
209R0.10.0-6kt6	-	-	Ø10	hex 6 mm
209R0.10.0-6kt7	-	-	Ø10	hex 7 mm
209R0.12.0-4kt7	203R0.12.0-4kt7	-	Ø12	square 7 mm
-	203R0.12.0-4kt8	-	Ø12	square 8 mm
209R0.12.0-6kt6	-	201R0.12.0-6kt6SL*	Ø12	hex 6 mm
-	-	201R0.12.0-6kt7*	Ø12	hex 7 mm
-	-	201R0.12.0-6kt8*	Ø12	hex 8 mm
209R6.09.0-6kt6	-	-	hex 9 mm	hex 6 mm
209R6.12.0-6kt9	-	-	hex 12 mm	hex 9 mm

^{*} Due to the manufacturing process, the aluminium tubes with inner profile always have a slight twist. Therefore, it cannot be ruled out that a 6kt profile bar will jam when pushed through.

1060.75-02/20210322 www.ketterer.de 49

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