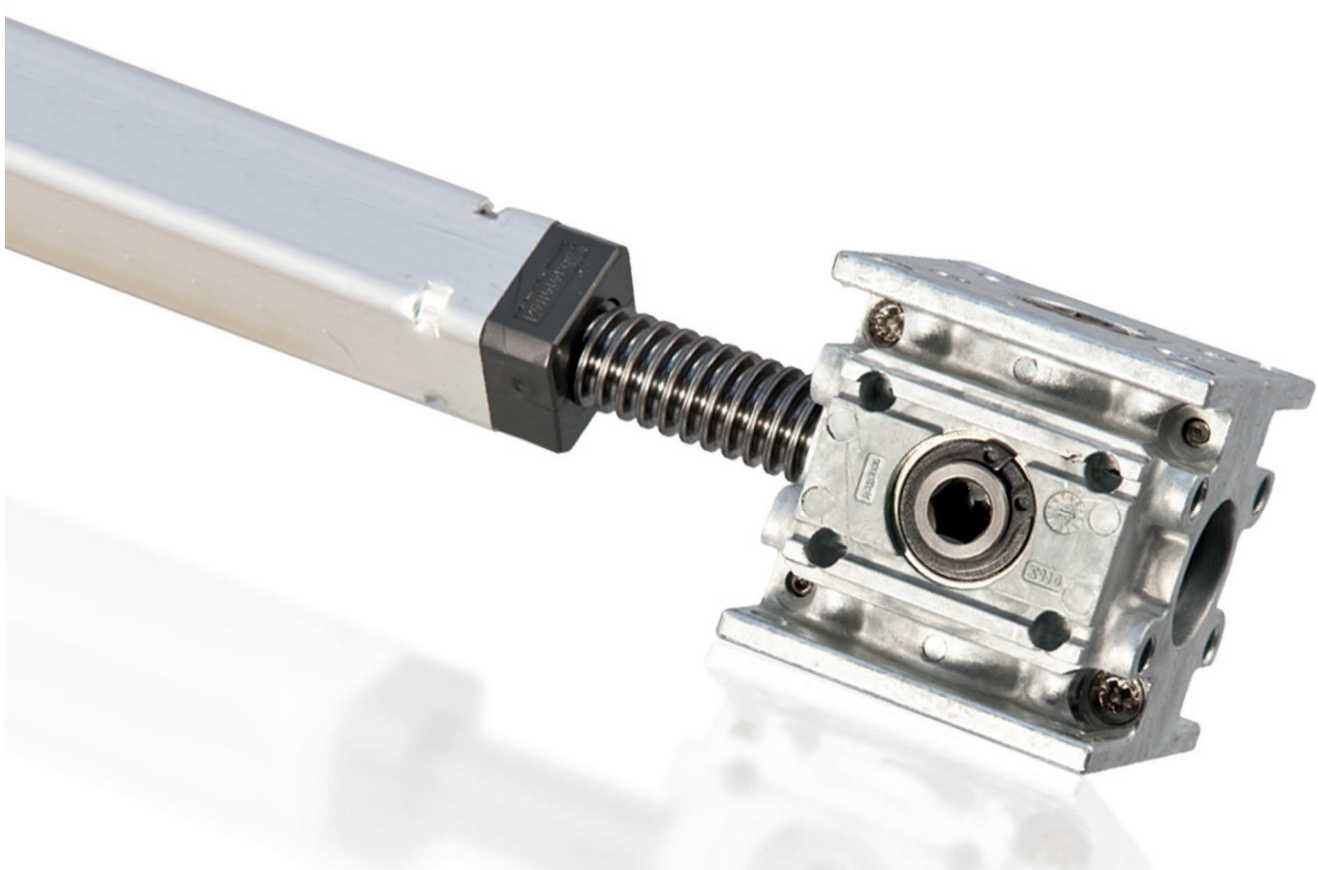
Ketterer
DRIVES

Lifting Units and Accessories



WE GET IDEAS MOVING

The spirit of innovation and a sense of ideas beyond the familiar has made us into a pioneering company over more than 185 years.

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.

Over 185 years' experience

More than 60 standard solutions for four different market segments

100% Made in Black Forest

THE RIGHT PRODUCT FOR EACH APPLICATION

Liftung Units

Accessories

Bevel gear with spindle unit 3010/3011

Description

Universally applicable lifting unit with bevel gear head for linear drive solutions. Possible applications are height adjustable tables, various adjustment functions for furniture items as well as all manner of linear adjustment in residential and office fields.
Simple screw fastenings enable a simple system structure and an uncomplicated assembly.

Special features

- Maintenance-free
- Ratio in direction of spindle 1.3:1
- Drive torque on gear head for application with several spindle units: max. 3 Nm
- Housing made of glass fiber reinforced plastic
- Hardened steel bevel wheels with robust, reinforced toothing
- Designed for the manual operation
- Variable number of bevel gears for deflection of movement and freely selectable drive position
- Upon request other spindle types can be supplied

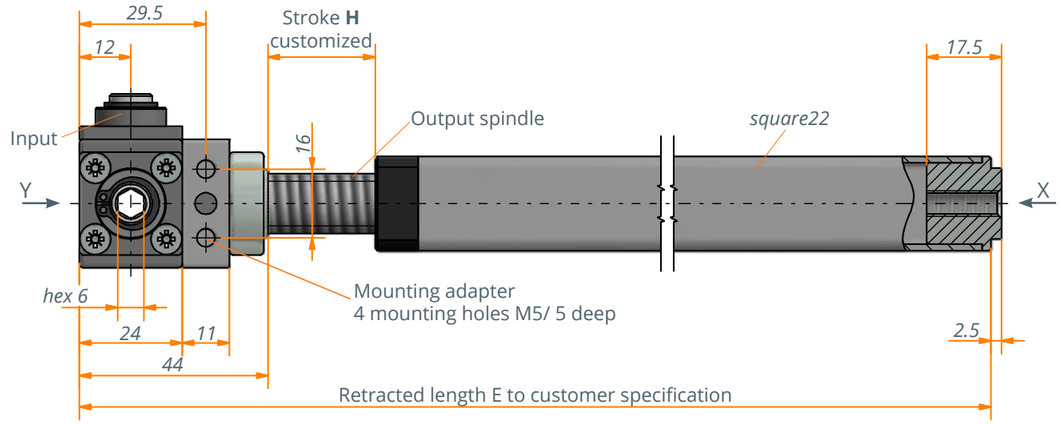
Variant key

- 3010: variants with right rotating spindles
- 3011: variants with left rotating spindles

Technical data

Model	3010	3011
Ratio in direction of spindle	1.3:1	1.3:1
Ratio in direction of deflection	1:1	1:1
Input	hex 6 mm	hex 6 mm
Number of bevel wheels	max. 5	max. 5
Type of spindle	TR14x3 RH	TR14x3 LH
Travel path	2.3 mm/rotation	2.3 mm/rotation
Max. Stroke	retracted length -99 mm	retracted length -99 mm
Max. lifting force	1200 N	1200 N
Required drive torque	1.7 Nm	1.7 Nm
Max. drive torque gear head for several spindle units*	3 Nm	3 Nm

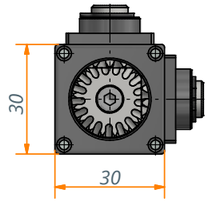
* See technical notes

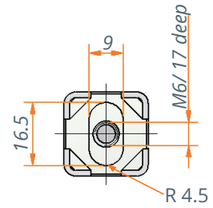


View Y

View X
(Rotation stop)

Number of bevel gears for deflection of movement and the drive position are customer specific

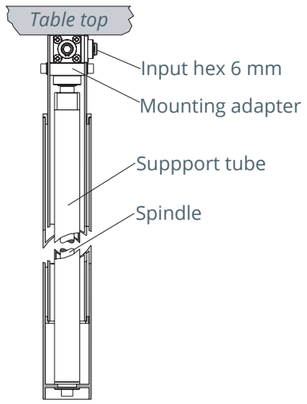




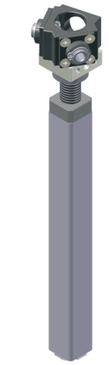
Technical notes

- The lifting units must be protected against lateral forces by a separate guide system.
- Attention: The spindle systems with a spindle pitch ≥ 3mm may not be self-locking. Check the self-locking effect in the application.
- The lifting unit is only pressure loadable.
- If several lifting units are being used simultaneously in the application, note the max. drive torque on gear head of 3 Nm!
- Incorrect dimensioning of the guide system can damage the lifting unit: Please note the design and safety instructions for spindle drives. You will find them at: https://www.ketterer.de/en/downloads/instructions

Application example



Bevel gear with spindle unit 3014

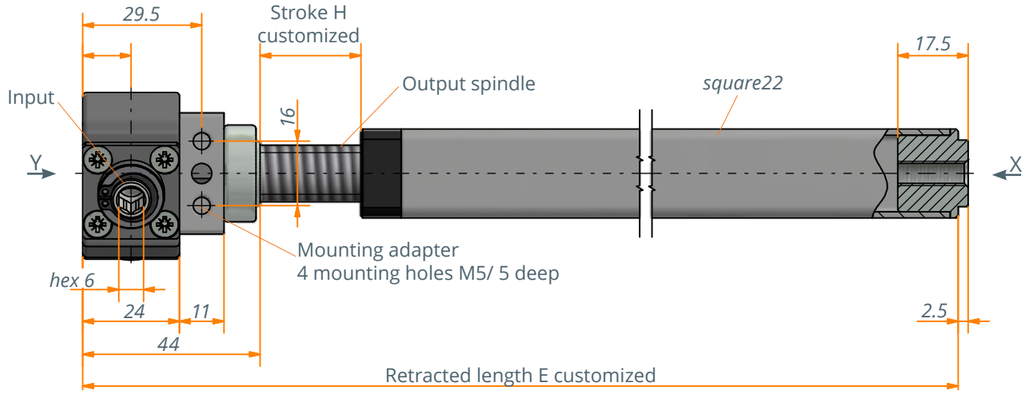


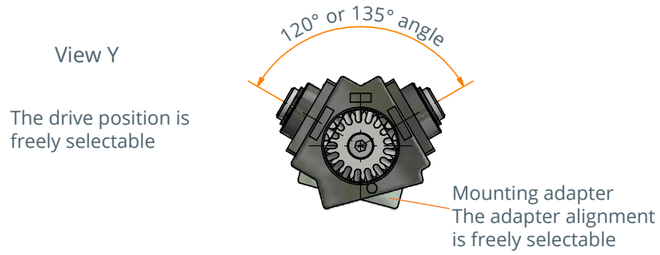
Description

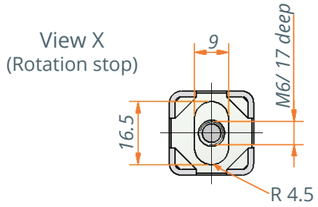
Universally applicable lifting unit with bevel gear head for linear drive solutions. Possible applications are height adjustable tables, various adjustment functions for furniture items as well as all manner of linear adjustment in residential and office fields.
Simple screw fastenings enable a simple system structure and an uncomplicated assembly.

Special features

- Maintenance-free
- Deflection angle: 120° or 135°, i = 1:1
- Ratio in direction of spindle 1.3:1
- Drive torque on gear head for application with several spindle units: max. 3 Nm
- Hardened steel bevel wheels with robust, reinforced toothing
- Designed for the manual operation
- Upon request other spindle types can be supplied







Technical data

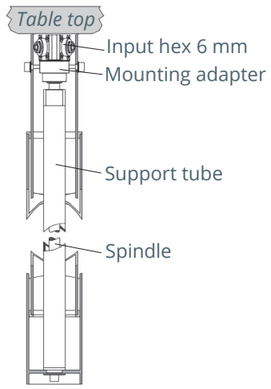
Model	3014
Ratio in direction of spindle	1.3:1
Ratio in direction of deflection	1:1
Input	hex 6 mm
Number of bevel wheels	3
Type of spindle	TR14x3 RH
Travel path	2.3 mm/rotation
Max. stroke	retracted length -99 mm
Max. lifting force	1200 N
Required drive torque	1.7 Nm
Max. drive torque gear head for several spindle units*	3 Nm

* See technical notes

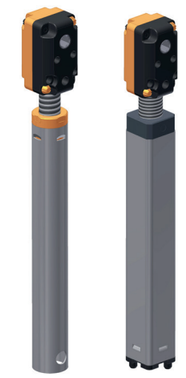
Technical notes

- The lifting units must be protected against lateral forces by a separate guide system.
- Attention: The spindle systems with a spindle pitch ≥ 3mm may not be self-locking. Check the self-locking effect in the application.
- The lifting unit is only pressure loadable.
- If several lifting units are being used simultaneously in the application, note the max. drive torque on gear head of 3 Nm!
- Incorrect dimensioning of the guide system can damage the lifting unit: Please note the design and safety instructions for spindle drives. You will find them at: https://www.ketterer.de/en/downloads/instructions

Application example



Bevel gear with spindle unit 3034



Description

Universally applicable lifting unit with bevel gear head for linear drive solutions. Possible applications are height adjustable tables, various adjustment functions for furniture items as well as all manner of linear adjustment in residential, mobile home or industrial fields.
A simple screw fastening and a hexagonal bolt enable a simple system structure and an uncomplicated assembly.

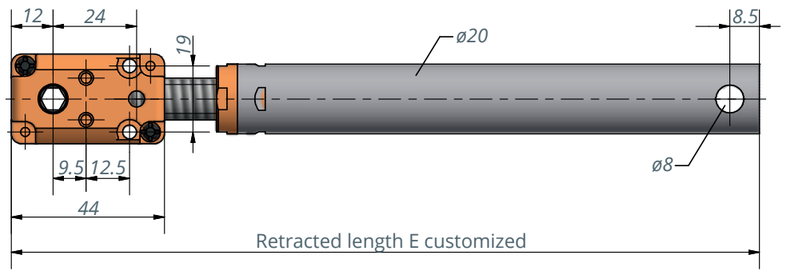
Special features

- Maintenance-free
- Very slim size 25.8 mm x 25.8 mm
- Drive torque on gear head for application with several spindle units: max. 3.5 Nm
- Housing made of glass fiber reinforced plastic
- Hardened steel bevel wheels with robust, reinforced toothing
- Support tube round Ø 20 mm or square 22 mm
- Suitable for manual use as well as for the electromotive drive

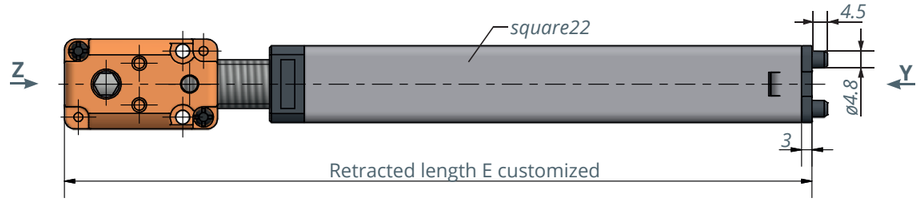
Variant key

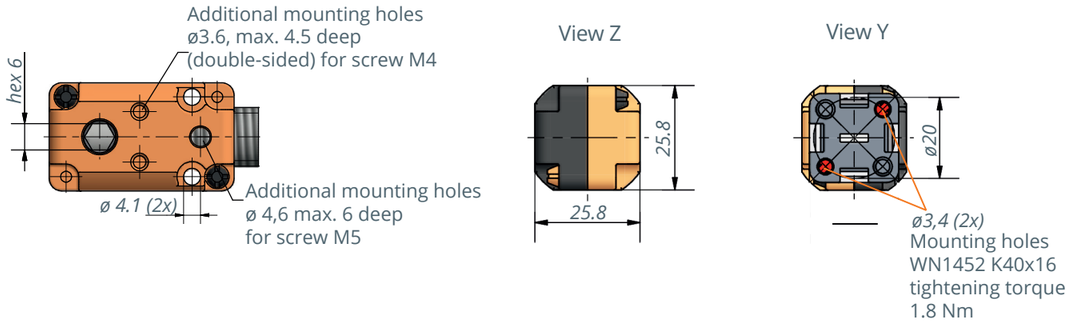
3034.00-V01: spindle SG12x16P4 RH with a round support tube
3034.00-V02: spindle SG12x16P4 RH with a square support tube
3034.00-V03: spindle Tr14x3 RH with a square support tube
3034.00-V04: spindle SG14x16P4 RH with a square support tube

3034.00-V01



3034.00-V02, 3034.00-V03, 3034.00-V04





Technical data

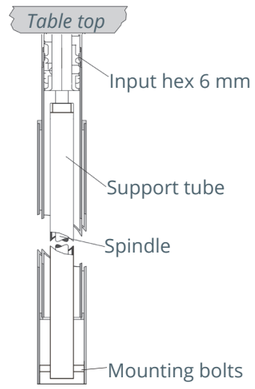
Model	3034.00-V01EXXXHXXX	3034.00-V02EXXXHXXX	3034.00-V03EXXXHXXX	3034.00-V04EXXXHXXX
Ratio	1:1	1:1	1:1	1:1
Input	hex 6 mm	hex 6 mm	hex 6 mm	hex 6 mm
Type of spindle	SG12x16P4 RH	SG12x16P4 RH	TR14x3 RH	SG14x16P4 RH
Travel path	16 mm/rotation	16 mm/rotation	3 mm/rotation	16 mm/rotation
Traverse speed *	32 mm/s	32 mm/s	6 mm/s	32 mm/s
Support tube	round ø 20 mm	square 22 mm	square 22 mm	square 22 mm
Max. stroke	retracted length 90 mm	retracted length 100 mm	retracted length 100 mm	retracted length 100 mm
Max. lifting force	700 N	700 N	700 N	700 N
Required drive torque	3.2 Nm	3.2 Nm	1 Nm	3 Nm

* In combination with LogicData control box Compact-3

Technical notes

- The lifting units must be protected against lateral forces by a separate guide system.
- Attention: The spindle systems with a spindle pitch ≥ 3mm may not be self-locking. Check the self-locking effect in the application.
- The lifting unit is only pressure loadable.
- Incorrect dimensioning of the guide system can damage the lifting unit: Please note the design and safety instructions for spindle drives. You will find them at: https:// www.ketterer.de/en/downloads/instructions
- Installation instructions: use at least 2 M4 screws when fastening. Using bore holes ø 4.1 mm (2x) when doing so, preferable the lifting unit should be supported above on the top side. Connection by means of additional mounting holes ø 3.6 mm for M4 and ø 4.6 for M5 requires top side support.

Application example



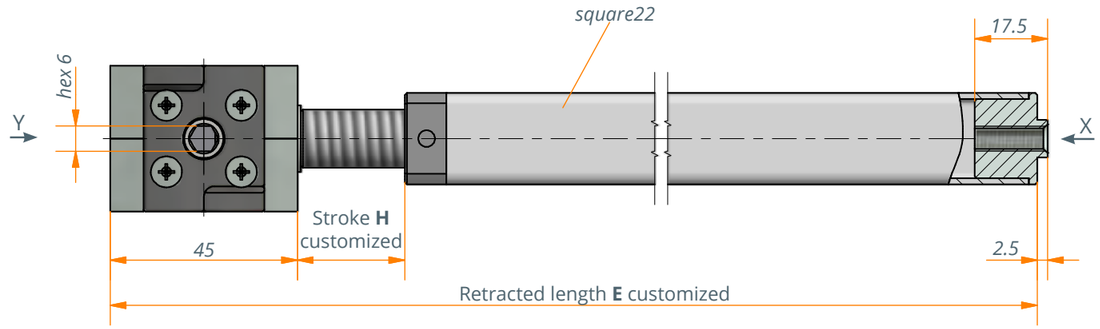
Bevel gear with spindle unit 3035/ 3036

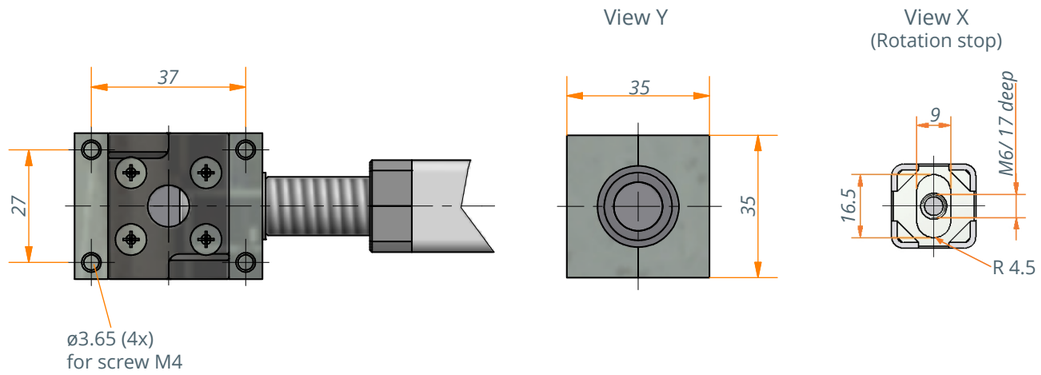
Description

Universally applicable lifting unit with bevel gear head for linear drive solutions. Possible applications are height adjustable tables, various adjustment functions for furniture items as well as all manner of linear adjustment in residential, mobile home or industrial fields.
A simple screw fastening and a hexagonal bolt enable a simple system structure and an uncomplicated assembly.

Special features

- Maintenance-free
- Ratio in direction of spindle: 1:1 oder 1.5:1
- Very slim size 35 mm x 35 mm
- Drive torque on gear head for application with several spindle units: max. 4 Nm
- Housing made of glass fiber reinforced plastic
- Hardened steel bevel wheels with robust, reinforced toothing
- Support tube round Ø 20 mm or square 22 mm
- Suitable for manual use as well as for electromotive drives





Technical data

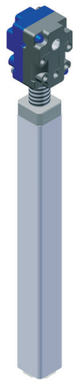
Model	*3035*	*3036*
Ratio in direction of spindle	1.5:1	1:1
Input	hex 6 mm	hex 6 mm
Type of spindle	Tr14x3 RH	Tr14x3 RH
Travel path	2 mm/rotation	3 mm/rotation
Traverse speed*	4 mm/s	6 mm/s
Max. stroke	retraced length -105 mm	retracted length -105 mm
Max. lifting force	1000 N	1000 N
Required drive torque	1 Nm	1.3 Nm
Max. drive torque gear ahead for several spindle units **	4 Nm	4 Nm

* In combination with LogicData control box Compact-3
** See technical data

Technical notes

- The lifting units must be protected against lateral forces by a separate guide system.
- Attention: The spindle systems with a spindle pitch ≥ 3 mm may not be self-locking. Check the self-locking effect in the application.
- The lifting unit is only pressure loadable.
- Incorrect dimensioning of the guide system can damage the lifting unit: Please note the design and safety instructions for spindle drives. You will find them at: https:// www.ketterer.de/en/downloads/ instructions

Bevel gear with spindle unit 3039



Description

Universally applicable lifting unit with bevel gear head for linear drive solutions. Possible applications are height adjustable tables, various adjustment functions for furniture items as well as all manner of linear adjustment in residential, mobile home or industrial fields.
A simple screw fastening and a hexagonal bolt enable a simple system structure and an uncomplicated assembly.

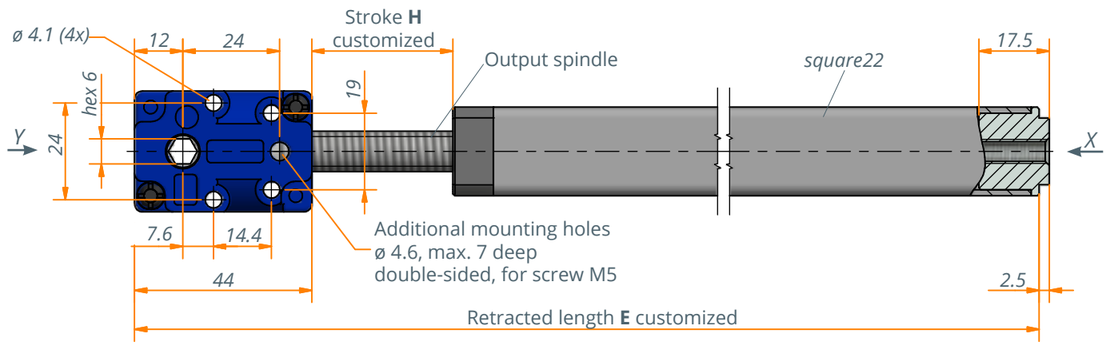
Special features

- Maintenance-free
- Ratio 1:1
- Max. drive torque on gear head depending on spindle pitch: max. 4 Nm
- Housing made of glass fiber reinforced plastic
- Hardened steel bevel wheels with robust, reinforced toothing
- Suitable for manual use as well as for electromotive drives

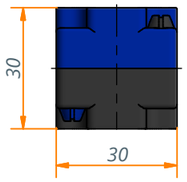
Variant key

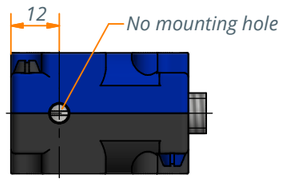
3039.00-	V0	X	E	XXX	H	XXX

- **Stroke XXX in mm**
- **Retracted length XXX in mm**
- **Type of spindle X**:
  - **1:** Tr14x3 RH
  - **2:** SG14x16P4 RH

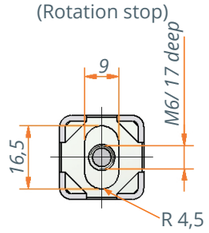


View Y





View X
(Rotation stop)



Technical data

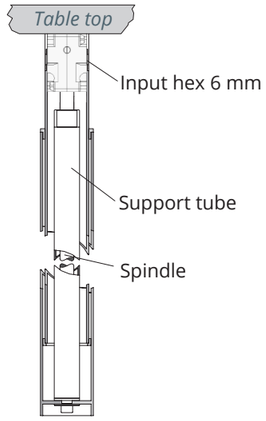
Model	*3039.00-V01EXXXHXXX*	*3039.00-V02EXXXHXXX*
Ratio	1:1	1:1
Input	hex 6 mm	hex 6 mm
Type o spindle	Tr14x3 RH	SG14x16P4 RH
Travel path	3 mm/rotation	16 mm/rotation
Traverse speed*	7.5 mm/s	40 mm/s
Max. stroke	retracted length -99 mm	retracted length -99 mm
Max. lifting force	1200 N	800 N
Required drive torque	1.7 Nm	3.5 Nm

* In combination with LogicData control box Compact-3

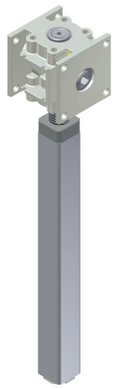
Technical notes

- The lifting units must be protected against lateral forces by a separate guide system.
- Attention: The spindle systems with a spindle pitch ≥ 3mm may not be self-locking. Check the self-locking effect in the application.
- The lifting unit is only pressure loadable.
- Incorrect dimensioning of the guide system can damage the lifting unit: Please note the design and safety instructions for spindle drives. You will find them at: https://www.ketterer.de/en/downloads/instructions
- Installation instructions: Use at least 2 M4 screws when fastening using upper boreholes ø 4.1 (4x). When doing so, preferably the lifting unit should be supported above on the top side. Connection by means of additional mounting holes ø 4.6 mm for M5 requires top side support.

Application example



Bevel gear with spindle unit 3042/ 3043



Description

Universally applicable lifting unit with bevel gear head for linear drive solutions. Possible applications are height adjustable tables, various adjustment functions for furniture items as well as all manner of linear adjustment in residential, mobile home or industrial fields.
A simple screw fastening and a hexagonal bolt enable a simple system structure and an uncomplicated assembly.

Special features

- Maintenance-free
- Housing made of die-cast zinc
- Hardened steel bevel wheels with robust, reinforced toothing
- Ratio 1:1
- Drive torque on gear head for application with several spindle units: max. 10 Nm
- Perfect suitable for electromotive drives
- More flexibility through variable number of bevel gears for deflection of movement
- Available in various spindle lengths and pitches

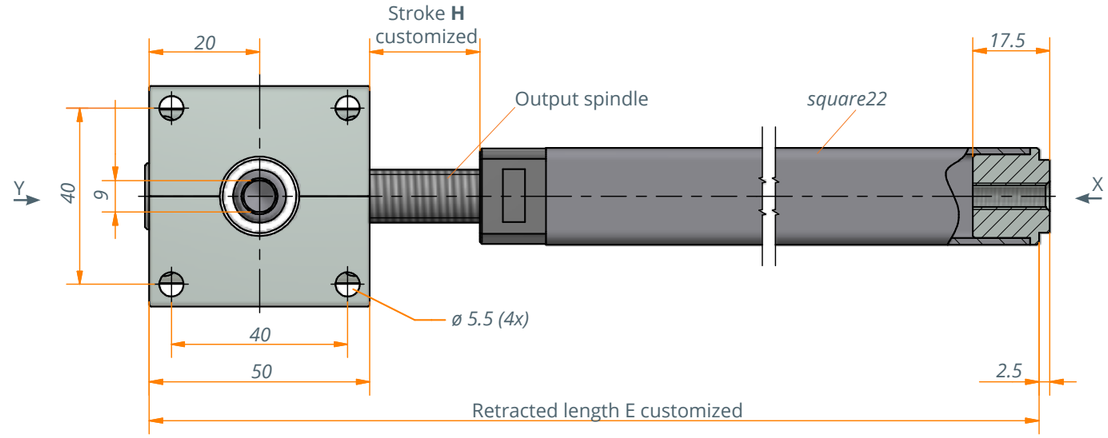
Variant key

3042: variants with right rotating spindles
3043: variants with left rotating spindles

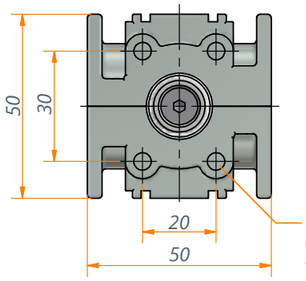
Technical data

Model	3042	3043
Ratio	1:1	1:1
Input	hex 7 mm	hex 7 mm
Number of bevel wheels	max. 3	max. 3
Type of spindle	SG12x12P4 RH clockwise	SG12x12P4 RH counter-clockwise
Travel path	12 mm/rotation	12 mm/rotation
Traverse speed*	24 mm/s	24 mm/s
Max. stroke	retracted length -105 mm	retracted length -105mm
Max. lifting force	1200 N	1200 N
Required drive torque	2.6 Nm	2.6 Nm
Max. drive torque gear ahead for several spindle units**	10 Nm	10 Nm

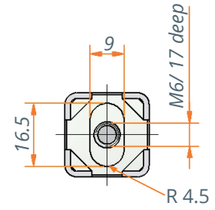
* In combination with motor drives 3143.00-200X and LogicData control box Compact-3
** See technical notes



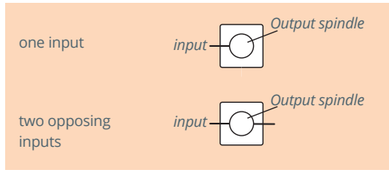
View Y



View X
(Rotation stop)



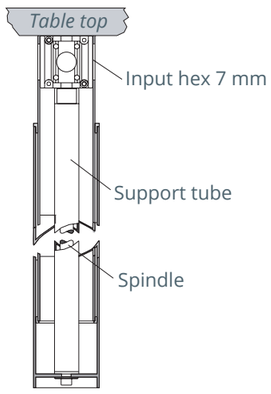
Variants:



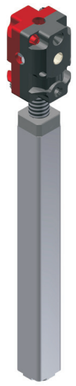
Technical notes

- The lifting units must be protected against lateral forces by a separate guide system.
- Attention: The spindle systems with a spindle pitch ≥ 3mm may not be self-locking. Check the self-locking effect in the application.
- The lifting unit is only pressure loadable.
- If several lifting units are being used simultaneously in the application, note the max. drive torque on gear head of 10 Nm!
- Incorrect dimensioning of the guide system can damage the lifting unit: Please note the design and safety instructions for spindle drives. You will find them at: https://www.ketterer.de/en/downloads/instructions

Application example



Bevel gear with spindle unit 3045



Description

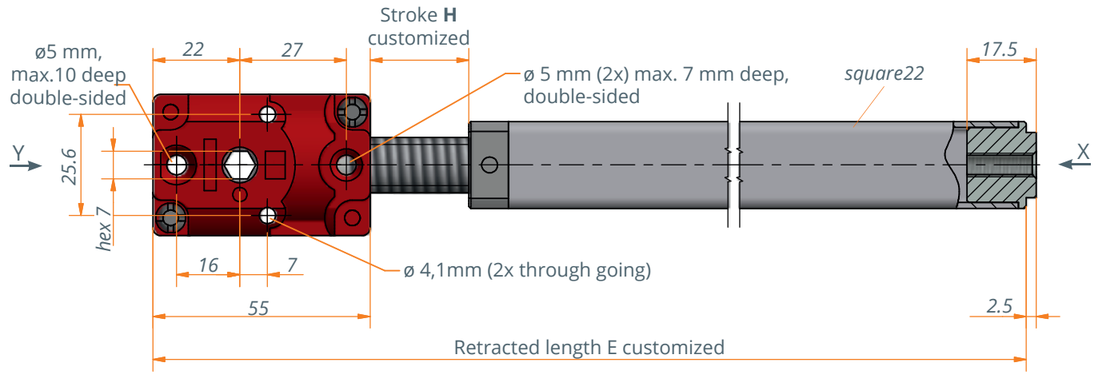
Universally applicable lifting unit with bevel gear head for linear drive solutions. Possible applications are height adjustable tables, various adjustment functions for furniture items as well as all manner of linear adjustment in residential, mobile home or industrial fields.
A simple screw fastening and a hexagonal bolt enable a simple system structure and an uncomplicated assembly.

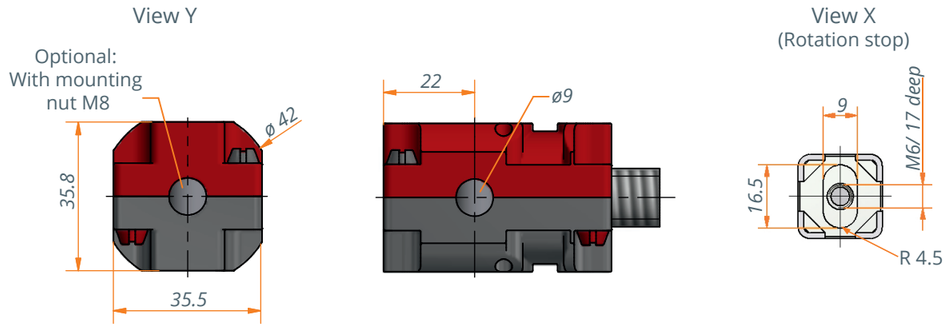
Special features

- Maintenance-free
- Ratio 1:1 and 1:2
- Drive torque on gear head for application with several spindle units: max. 5.5 Nm
- Housing made of glass fiber reinforced plastic
- Hardened steel bevel wheels with robust, reinforced toothing
- Suitable for manual use as well as for electromotive drives
- Ideal for the high performance drive 3143.00

Variant key

3045.00-V01: Spindle SG14x16P4 RH and i= 1:1
V02: Spindle Tr14x3 RH and i= 1:1
V03: Spindle Tr14x3 RH and i= 1:2
Stroke HXXX and retracted length EXXX are customized





Technical data

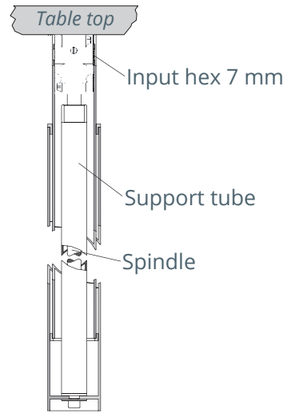
Model	*3045.00-V01EXXXHXXX*	*3045.00-V02EXXXHXXX*	*3045.00-V03EXXXHXXX*
Ratio	1:1	1:1	1:2
Input	hex 7 mm	hex 7 mm	hex 7 mm
Type of spindle	SG12x16P4 RH	Tr14x3 RH	TR14x3 RH
Travel path	16 mm/rotation	3 mm/rotation	6 mm/rotation
Traverse speed*	32 mm/s	6 mm/s	12 mm/s
Max. stroke	retracted length -110 mm	retracted length -110 mm	retracted length -110 mm
Max. lifting force	1200 N	1200 N	1200 N
Required drive torque	4.5 Nm	1.7 Nm	3.5 Nm

* In combination with motor drive 3143.00-200X and LogicData control box Compact-3

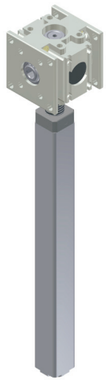
Technical notes

- The lifting units must be protected against lateral forces by a separate guide system.
- Attention: The spindle systems with a spindle pitch ≥ 3 mm may not be self-locking. Check the self-locking effect in the application.
- The lifting unit is only pressure loadable.
- Incorrect dimensioning of the guide system can damage the lifting unit: Please note the design and safety instructions for spindle drives. You will find them at: https:// www.ketterer.de/en/downloads/instructions

Application example



Bevel gear with spindle unit 3070/ 3071



Description

Universally applicable lifting unit with bevel gear head for linear drive solutions. Possible applications are various adjustment functions for furniture items as well as all manner of linear adjustment in residential, mobile home or industrial fields. Particularly appropriate as a component for “heavy load solutions” for office furniture and workplace applications. The designs with up to four drive wheels offer broad application opportunities for the lifting unit and high flexibility in system design.

Special features

- Maintenance-free
- Ratio in direction of spindle 1.83:1
- Housing made of die-cast-zinc
- Hardened steel bevel wheels with robust, reinforced toothing
- Drive torque on gear head for application with several spindle units: max. 6 Nm
- Suitable for electromotive drives
- High flexibility through variable number of drive wheels for deflection of movement
- Available in different spindle pitches and with customer specific spindle lengths

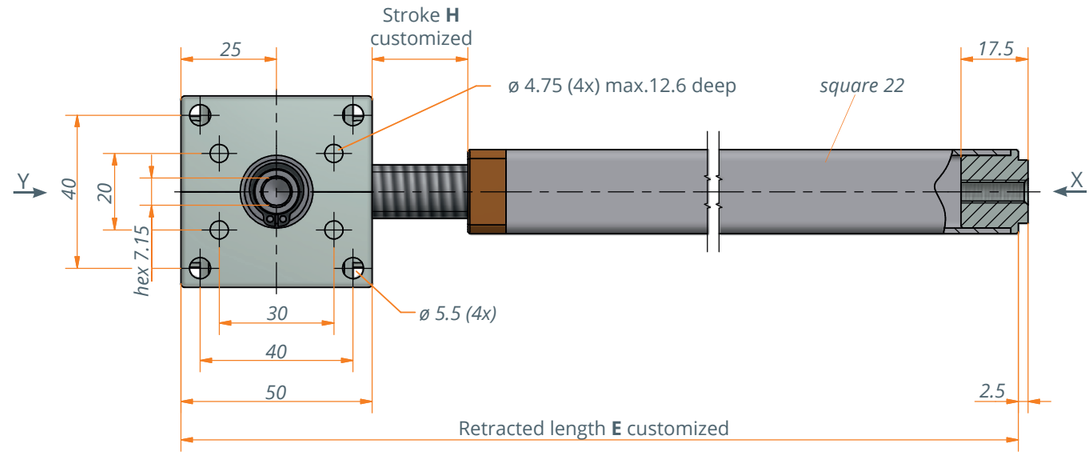
Variant key

3070: variants with right rotating spindles
3071: variants with left rotating spindles

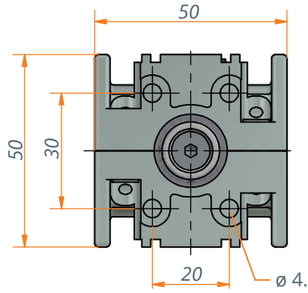
Technical data

Model	*3070*	*3071*
Ratio in direction of spindle	1.83:1	1.83:1
Input	hex 7 mm	hex 7 mm
Number of Inputs	max. 5	max. 5
Type of spindle	SG12x12P4 RH clockwise	SG12x12P4 RH counter-clockwise
Travel path	6.6 mm/rotation	6.6 mm/rotation
Traverse speed*	13 mm/s	13 mm/s
Max. stroke	retracted length -105 mm	retracted length -105mm
Max. lifting force	1200 N	1200 N
Required drive torque	2 Nm	2 Nm
Max. drive torque gear head for several spindle units	10 Nm	10 Nm

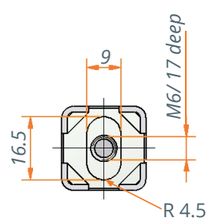
* In combination with motor drive 3143.00-200X and LogicData control box Compact-3



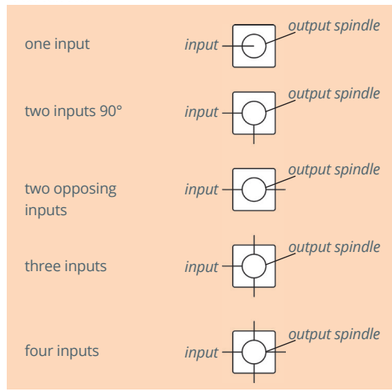
View Y



View X
(Rotation stop)



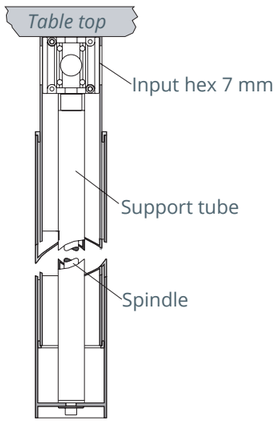
Variants:



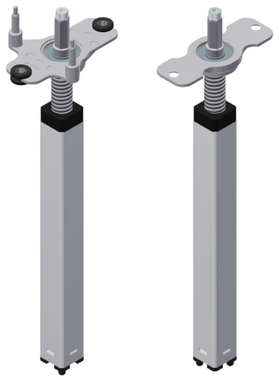
Technical notes

- The lifting units must be protected against lateral forces by a separate guide system.
- Attention: The spindle systems with a spindle pitch ≥ 3 mm may not be self-locking. Check the self-locking effect in the application.
- The lifting unit is only pressure loadable.
- If several lifting units are being used simultaneously in the application, note the max. drive torque on gear head of 10 Nm!
- Incorrect dimensioning of the guide system can damage the lifting unit: Please note the design and safety instructions for spindle drives. You will find them at: https:// www.ketterer.de/en/downloads/instructions

Application example



Spindle unit with motoradapter 3130.14



Description

Universally applicable lifting unit with bevel gear head for linear drive solutions. Possible applications are height adjustable tables, various adjustment functions for furniture items as well as all manner of linear adjustment in residential, mobile home or industrial fields.

The lifting unit is available in different spindle pitches with customer specific spindle lengths and can be combined with most Ketterer drives.

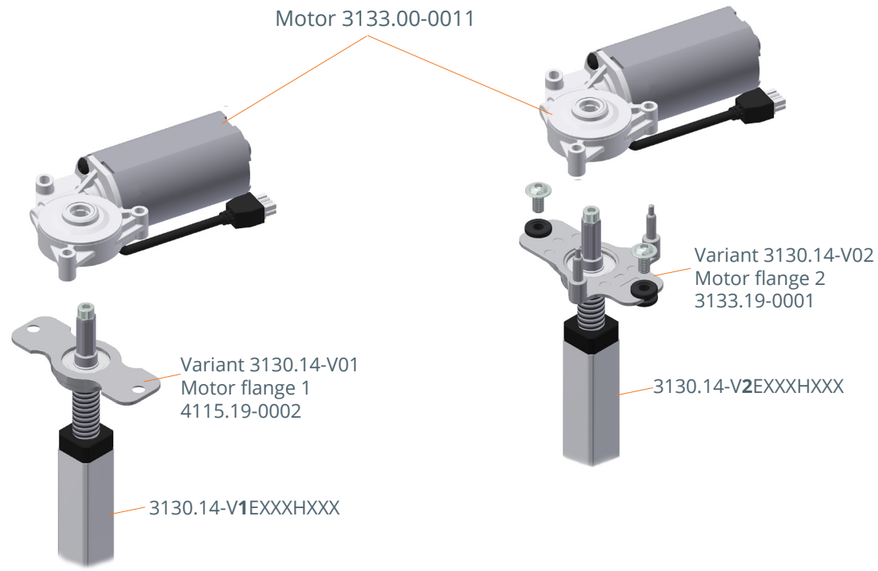
Special features

- Ideal for the drives: 3312.00/ 3133.00 / 3133.48 /3130.00
- Available in customized spindle lengths
- Simple mounting
- Connection to the drive hex 9 mm

Variant key

3130.14-V	0	X	E	XXX	H	XXX

- **Stroke XXX in mm**
- **Retracted length XXX in mm**
- **Motor flange 1:** Floating engine mount (support)
  2: Fixed motor connections
- **Type of spindle 0:** SG14x20P4 RH
  1: SG14x16P4 RH
  2: TR14x3 RH



Technical data

Model	*3130.14-V01EXXXHXXX 3130.14-V02EXXXHXXX*	*3130.14-V11EXXXHXXX 3130.14-V12EXXXHXXX*	*3130.14-V21EXXXHXXX 3130.14-V22EXXXHXXX*
Type of spindle	SG14x20P4 RH	SG14x16P4 RH	TR14x3 RH
Travel path	20 mm/rotation	16 mm/rotation	3 mm/rotation
Traverse speed*	40 mm/s*	32 mm/s*	6 mm/s*
Max. stroke	retracted length -64 mm	retracted length -64 mm	retracted length -64 mm
Max. lifting force	900 N	900 N**	900 N**
Required drive torque	3.5 Nm	3.4 Nm	1.1 Nm

* In combination with motor 3133 and LogicData control box Compact-3
** Max. lifting force is defined by maximum breaking point of the weakest components

Technical notes

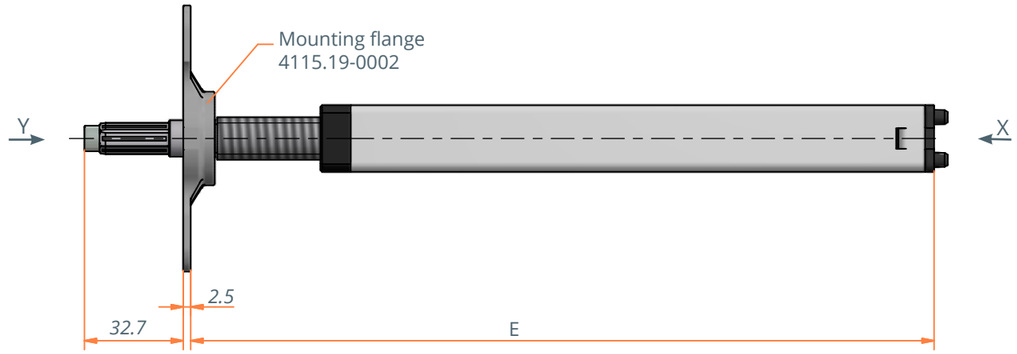
- The lifting units must be protected against lateral forces by a separate guide system.
- Attention: The spindle systems with a spindle pitch ≥ 3mm may not be self-locking. Check the self-locking effect in the application.
- The lifting unit is only pressure loadable.
- Incorrect dimensioning of the guide system can damage the lifting unit: Please note the design and safety instructions for spindle drives. You will find them at: https:// www.ketterer.de/en/downloads/instructions

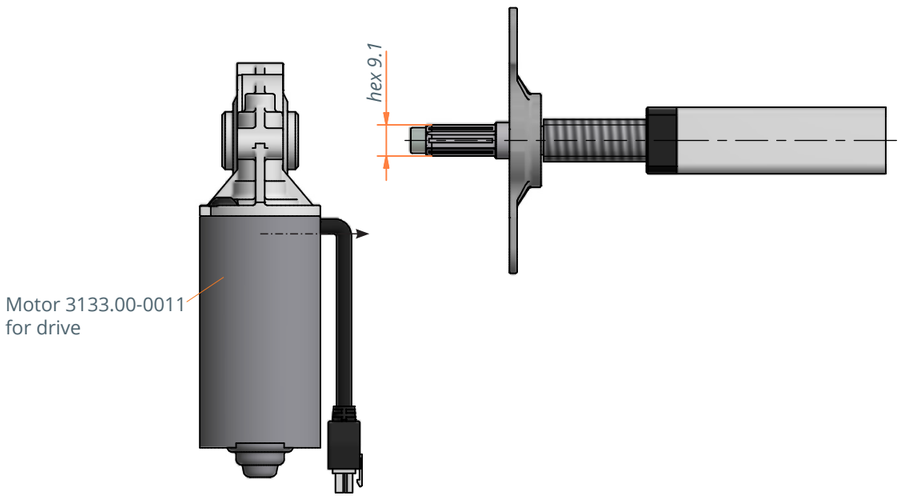
Dynamic self-locking limits* of current Ketterer drives with lifting unit 3130.14

	3130.14-V0X.. SG14x20P4	*3130.14-V1X.. SG14x16P4*	*3130.14-V2X.. Tr14x3*
with 3133.00	900 N	900 N	900 N
with 3133.48	700 N	900 N	900 N
with 3130.00 *(with felt brake)*	900 N	900 N	900 N (also a variant without a brake)
mit 3112.00-1XXX	-	400 N	900 N

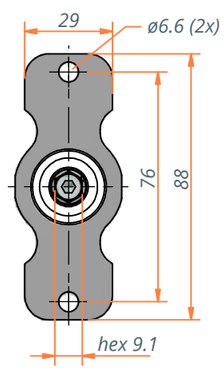
* The limits are determined in combination with LogicData control box Compact-3

Variants
3130.14-V0**1**EXXXHXXX
3130.14-V1**1**EXXXHXXX
3130.14-V2**1**EXXXHXXX

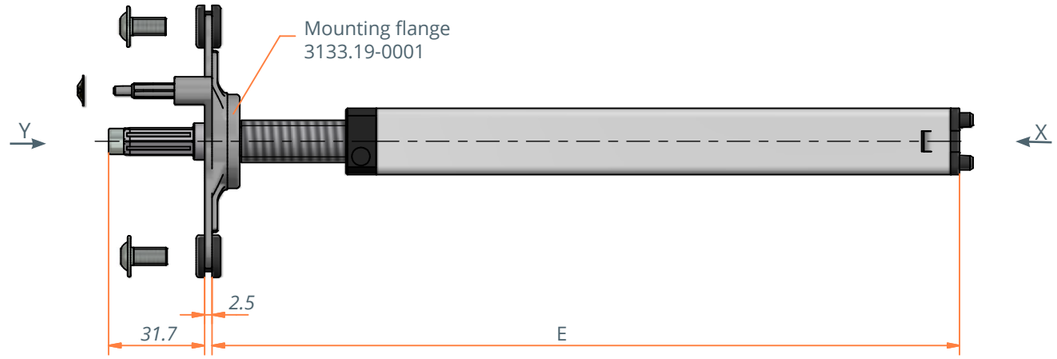


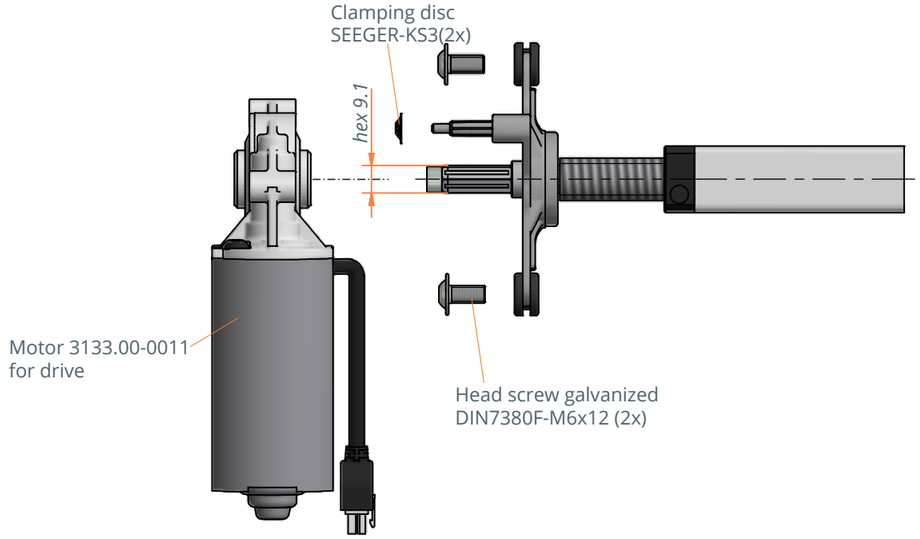


View Y

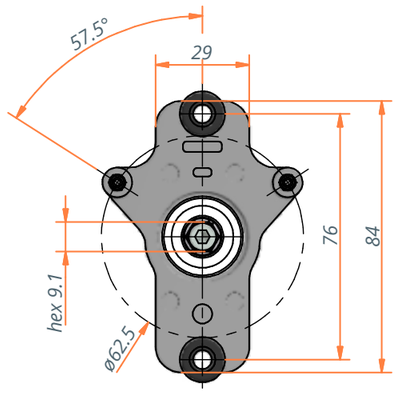


Variants
3130.14-V0**2**EXXXHXXX
3130.14-V1**2**EXXXHXXX
3130.14-V2**2**EXXXHXXX



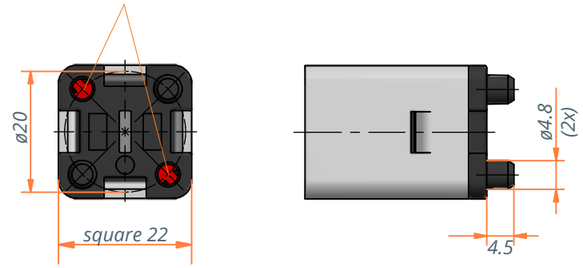


View Y



View X

ø3.4 (2x) mounting holes
for screw WN1452 K40x16
tightening torque 1.8 Nm



Bevel gear with spindle unit 3824

Description

Lifting unit with bevel gear head for linear drive solutions. The gear is ideal for installation in round tubes with inside diameter of 31 mm. For other tube dimensions the housing can be adapted where appropriate quantities are required.
Possible applications are height adjustable tables as well as various adjustment functions for other furniture items

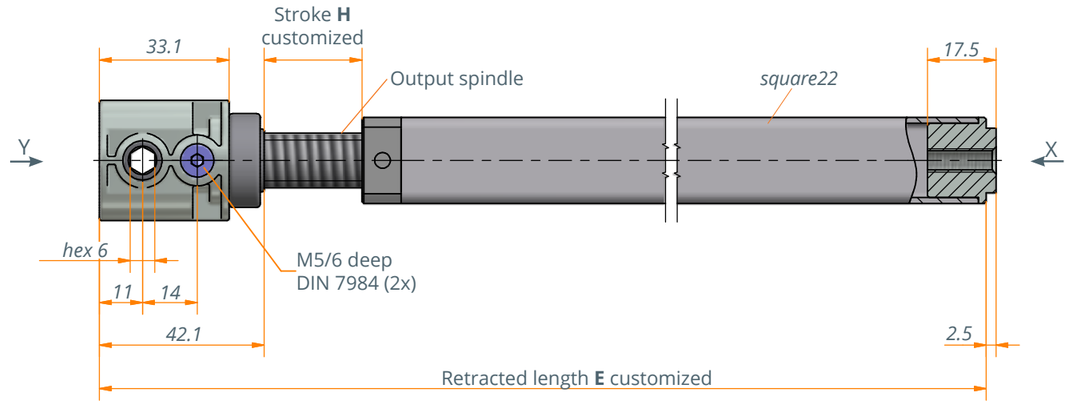
Special features

- Maintenance-free
- Ratio 1:1
- Drive torque on gear head for application with several spindle units: max. 3 Nm
- Housing made of die-cast-zinc
- Hardened steel bevel wheels with robust, reinforced toothing
- Suitable for manual use as well as for the electromotive drive
- Various spindle length and spindle pitches available

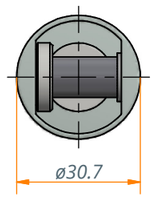
Variant key

3824.00-	V0	X	E	XXX	H	XXX

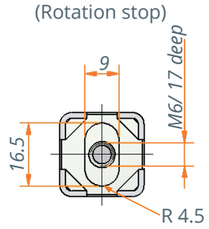
Stroke XXX in mm
Retracted length XXX in mm
Type of spindle 1: TR14x3 RH



View Y



View X
(Rotation stop)



Technical data

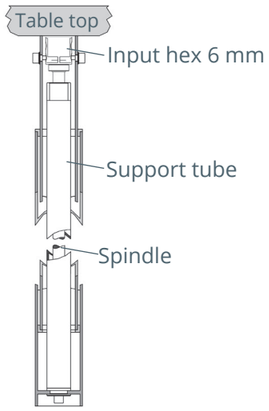
Model	*3824.00-V01EXXXHXXX*
Ratio	1:1
Input	hex 6 mm
Type of spindle	TR14x3 RH
Travel path	3 mm/rotation
Traverse speed*	6 mm/ s
Max. stroke	retracted length -98 mm
Max. lifting force	1200 N
Required drive torque	2 Nm

* In connection with motor 3143.00 - 200X and LogicData control box Compact-3

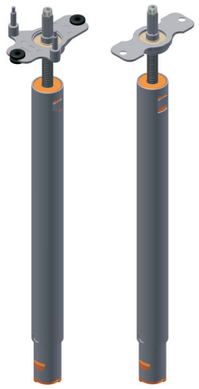
Technical notes

- The lifting units must be protected against lateral forces by a separate guide system.
- Attention: The spindle systems with a spindle pitch ≥ 3mm may not be self-locking. Check the self-locking effect in the application.
- The lifting unit is only pressure loadable.
- Incorrect dimensioning of the guide system can damage the lifting unit: Please note the design and safety instructions for spindle drives. You will find them at: https:// www.ketterer.de/en/downloads/instructions

Application example



Synchronous telescopic spindle unit 4115.14



Description

Twofold telescopic lifting unit with bevel gear head for various linear drive solutions. Ideal for electromotive sit-stand workplace applications or wherever an infinite linear adjustment is required at a high speed, maximum stroke with a minimum installation dimension.
The lifting unit is available in different spindle lengths.

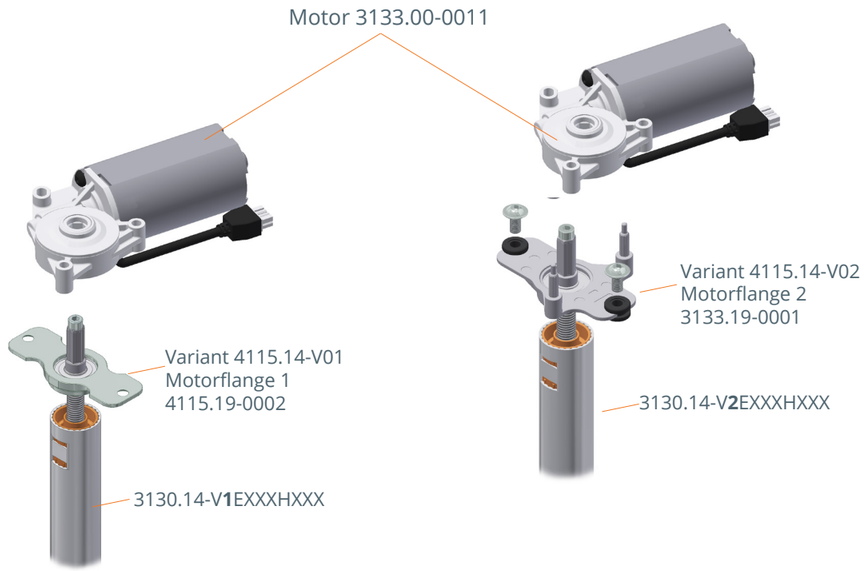
Special features

- Double speed through synchronous telescope design
- Maximum stroke with minimum installation dimension
- Ideal for electromotive drives
- Available in different spindle lengths

Variant key

3130.14-V	0	X	E	XXX	M	XXX

- **Custom middle tube connection XXX in mm**
- **Retracted length XXX in mm**
- **Motorflange** **1:** Floating engine mount (support)
  2: Fixed motor connections
- **Type of spindle 0:** SG20x10P2 RH and SG10x10P2 RH



Technical data

Model	*4115.14-V02EXXXMXXX*	*4115.14-V01EXXXMXXX*
Type of spindle	SG20x10P2 RH SG10x10P2 RH	SG20x10P2 RH SG10x10P2 RH
Travel path	20 mm/rotation synchronous spindle movement	20 mm/rotation synchronous spindle movement
Traverse speed*	40 mm/s*	40 mm/s*
Retracted length E	customized min. 476 mm, max. 560 mm	customized min. 476 mm, max. 560 mm
Stroke H**	720 mm	720 mm
Max. lifting force	dyn. 900 N stat. 900 N	dyn. 900 N stat. 900 N
Required max. drive torque	3.3 Nm	3.3 Nm

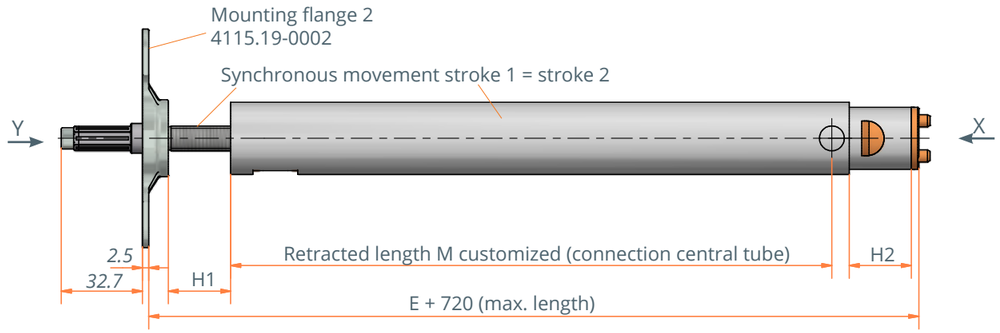
* In combination with motor 3133 and the LogicData controll box Compact-3

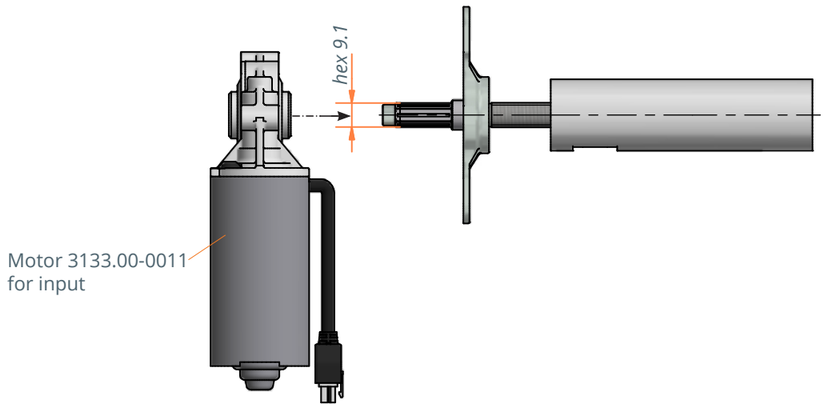
** Stroke length of 720 mm is constant at installation dimension between 476 mm and 560 mm

Technical notes

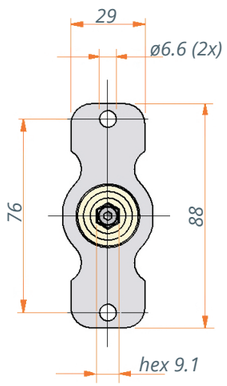
- The lifting units must be protected against lateral forces by a separate guide system.
- Attention: The spindle systems with a spindle pitch ≥ 3mm may not be self-locking. Check the self-locking effect in the application.
- The lifting unit is only pressure loadable.
- Customer specific stroke and installation lengths available upon request.
- Incorrect dimensioning of the guide system can damage the lifting unit: Please note the design and safety instructions for spindle drives. You will find them at:
  https:// www.ketterer.de/en/downloads/instructions

Variants 3130.14-V0**1**EXXXHXXX

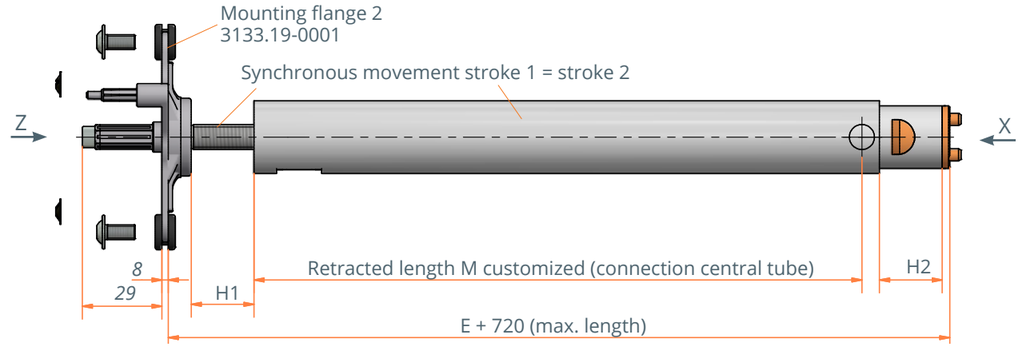


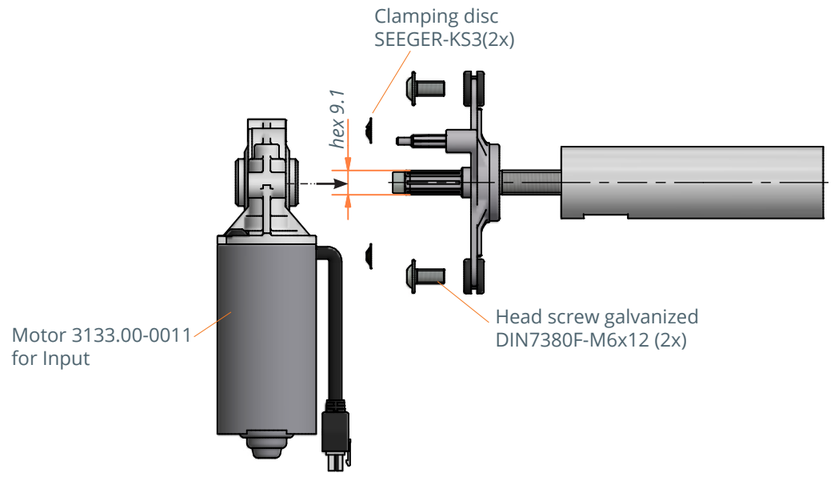


View Y

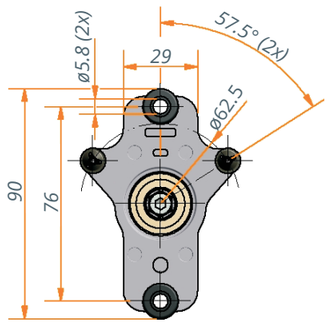


Variants 4115.14-V0**2**EXXXMXXX

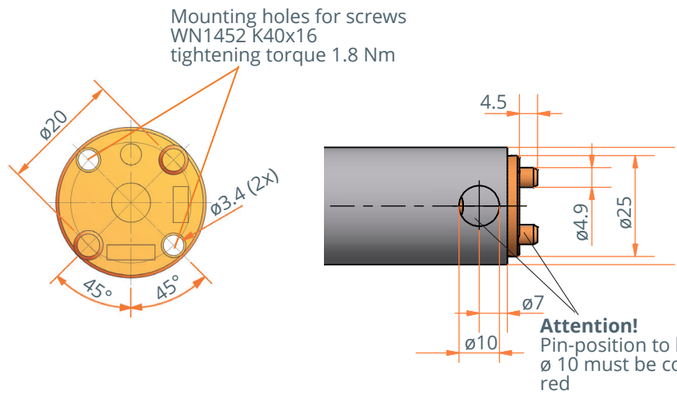




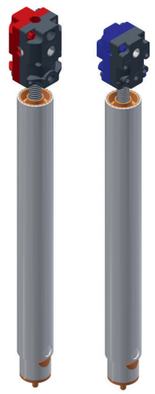
View Z



View X



Bevel gear with syncronous telescopic-spindle 4115.00



Description

Twofold telescopic lifting unit with bevel gear head for various linear drive solutions. Ideal for electromotive sit-stand workplace applications or wherever an infinite linear adjustment is required at a high speed, maximum stroke with a minimum installation dimension.
The lifting unit is available in customized spindle lengths.

Special features

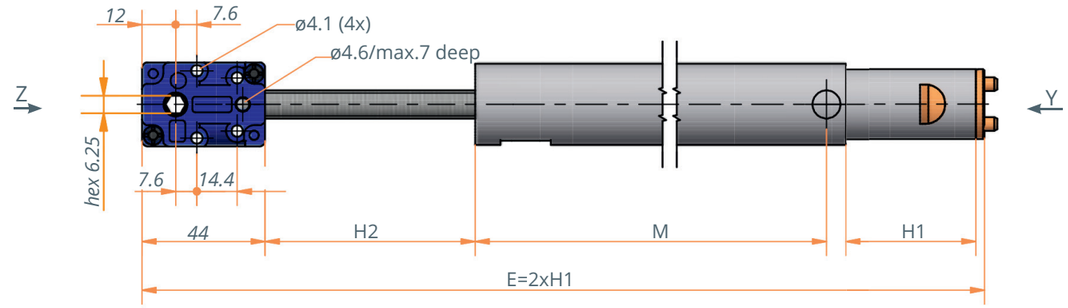
- Double speed through synchronous telescope design
- Maximum stroke with minimum installation dimension
- With gear head 3039 or 3045
- Ratio 1:1
- Drive torque on gear head : max. 4 Nm or 5.5 Nm
- Hardened steel bevel wheels with robust, reinforced toothing
- Ideal for electromotive drives
- Available in different spindle lengths

Technical data

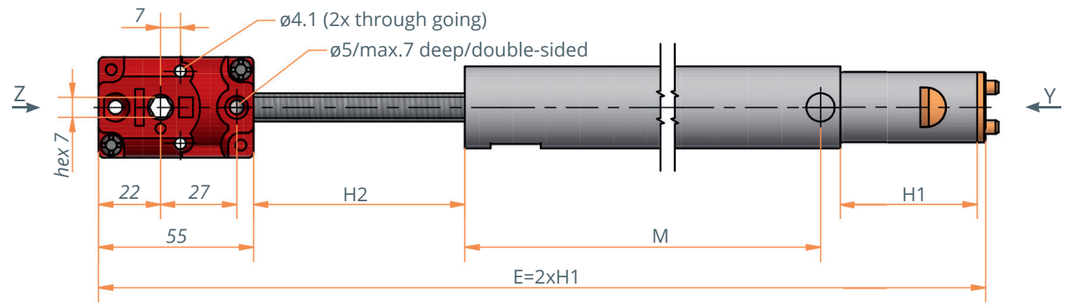
Model	4115.00-V01EXXXMXXX	4115.00-V02EXXXMXXX
Gear head	3039	3045
Ratio	i= 1:1	i= 1:1
Input	hex 6 mm	hex 7 mm
Type of spindle	SG20x10P2 RH SG10x10P2 RH	SG20x10P2 RH SG10x10P2 RH
Travel path	20 mm/rotation synchronous spindle movement	20 mm/rotation synchronous spindle movement
Traverse speed*	40 mm/s	40 mm/s
Retracted length E	customized min. 485 mm, max. 560 mm	customized min. 485 mm, max. 560 mm
Stroke*	656 mm	656 mm
Max. lifting force	dynamic 800 N static 900 N	dynamic 900 N static 900 N
Required drive torque	3.5 Nm	3.5 Nm

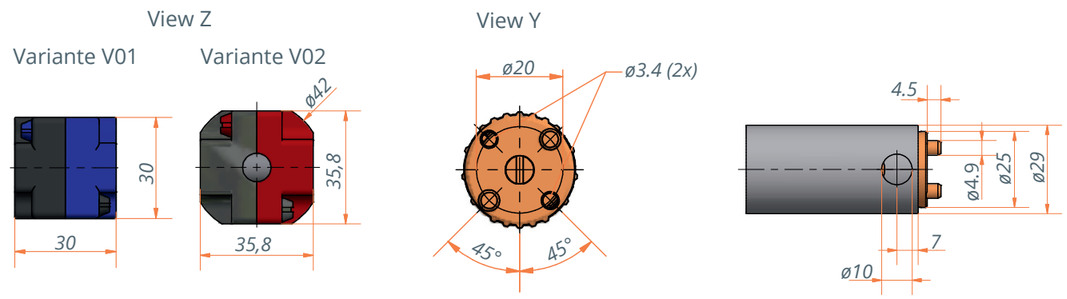
* In connection with motor 3143.00 - 200X and LogicData control box Compact-3

4115.00-V01EXXXHXXX



4115.00-V02EXXXHXXX

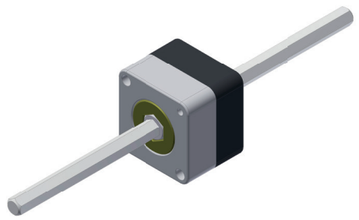




Technical notes

- The lifting units must be protected against lateral forces by a separate guide system.
- Attention: The spindle systems with a spindle pitch ≥ 3mm may not be self-locking. Check the self-locking effect in the application.
- The lifting unit is only pressure loadable.
- Incorrect dimensioning of the guide system can damage the lifting unit: Please note the design and safety instructions for spindle drives. You will find them at: https:// www.ketterer.de/en/downloads/instructions

Brake unit 3052.09



Description

Very slim, compact brake unit for manually adjustable applications.
Can be used flexibly, in combination with lifting gears.

Special features

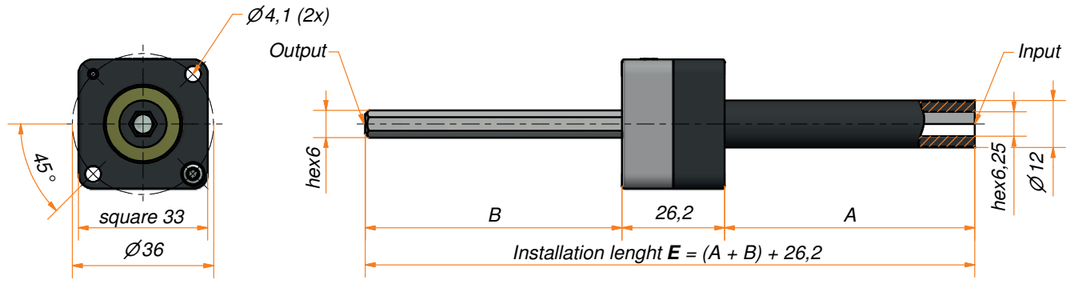
- Synthetic gear housing
- Simple mounting
- Input and output can be supplied in various lengths, based on customer requirements

Variant key

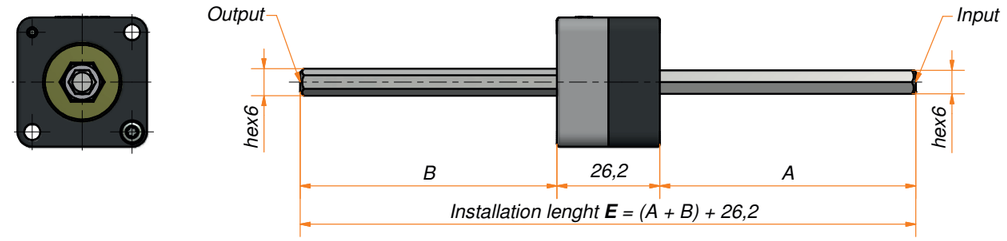
3052.09	V	XX	A	XXX	B	XXX

- **Length Input side:** XXX in mm
- **Length Output side:** XXX in mm
- **Performance Input side:** 02 Aluminium sleeve with Inner hex 6 mm
  03 Hexagonal shafts

3052.09-V02AXXXBXXX



3052.09-V03AXXXBXXX



Technical data

Model	*3052.09-V02AXXXBXXX*	*3052.09-V03AXXXBXXX*
Input	Inner hex 6 mm Length A customer specific	Hex 6 mm Length A customer specific
Output	Hex 6 mm Length B customer specific	Hex 6 mm Length B customer specific
Max. holding torque	10 Nm	10 Nm
Max. output torque	4 Nm	4 Nm
Application	Manual drives	Manual drives

Crank handles 5102/5159

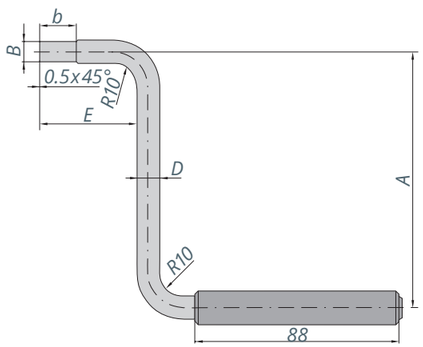
Description

Wire-flexured cranks in several measurements with crank grips made of synthetic material.

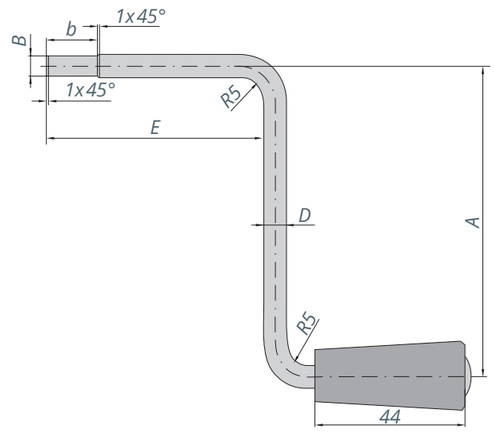
Special features

- Made of steel or stainless steel
- Customized production possible
- Customer spezific solutions can be realized rapidly at a competitive price, by use of a production method which does not depend on specific tools or designs

Grip 5101.11-01



Grip 5120.01-02



Crank-handles with grip 5101.11-01

Item-Number	A	B	D	E	b	Material
5108.00-00	100	Hex 9 mm	Ø10	62	15	Stainless steel
5104.00-00	110	Hex 9 mm	Ø10	60	15	Stainless steel
5109.00-00	110	Inner hex 6 mm	Ø10	60	12	Stainless steel
5102.00-00	110	Hex 9 mm	Ø10	42	16	Stainless steel

Crank-handles with grip 5120.01-02

Item-Number	A	B	D	E	b	Material
5147.00-00	65	Hex 5 mm	Ø7	53	15	Stainless steel
5132.00-00	90	Hex 5 mm	Ø7	110	15	Stainless steel
5153.00-00	90	Hex 5 mm	Ø7	63	15	Stainless steel
5156.00-13	90	Hex 6 mm	Ø7	33	20	Steel
5187.00-0003	110	Inner hex 6 mm	Ø7	325	300	
5183.00-0000	90	Hex 6 mm	Ø7	200	20	Stainless steel
5156.00-0011	115	Inner hex 6 mm	Ø7/ Ø12	503	480	
5156.00-10	90	Hex 6 mm	Ø7	33	20	Steel
5156.00-00	90	Hex 6 mm	Ø7	33	20	Stainless steel
5159.00-00	90	Hex 6 mm	Ø7	60	20	Stainless steel
5157.00-00	90	Hex 6 mm	Ø7	85	20	Stainless steel
5163.00-00	90	Hex 6 mm	Ø7	116.5	20	Stainless steel
5165.00-00	105	Hex 6 mm	Ø7	85.5	12	Stainless steel
5158.00-00	150	Hex 6 mm	Ø7	33	20	Stainless steel
5133.00-00	90	Hex 7 mm	Ø8	62	15	Stainless steel

Crank-handles oblique

Item-Number	A	B	D	E	b	Material
5121.00-00 (Angle = 10°)	134	Hex 6 mm	Hex 6 mm	64	64	Steel

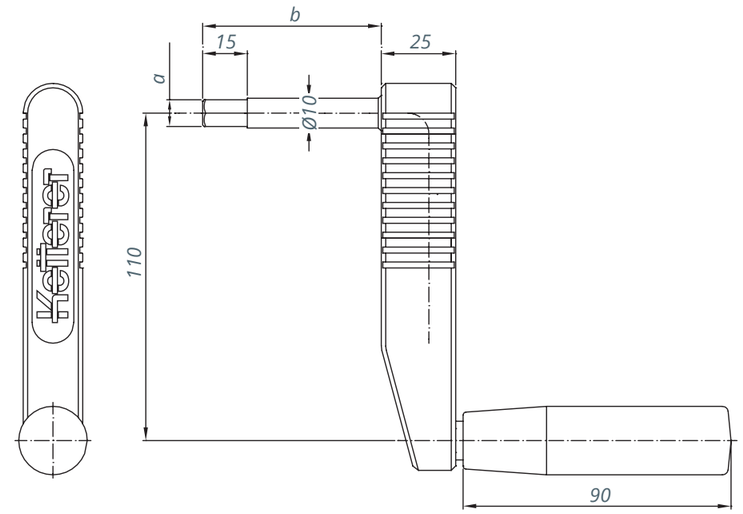
Crank-handle 5180

Description

Crank-handle grip and the crank extension are made of glass-fibre reinforced synthetic material.

Special features

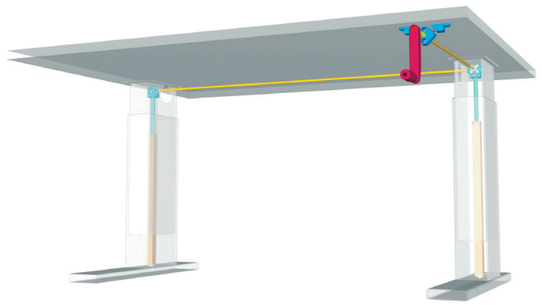
- Modern design
- On request, the type and length of the hexagonal bolt as well as the colour of the crank body can be produced to customer specification
- On request, an own logotype is possible



Technical data

Model	5180 Standard	5180 Customer specific
Measure a	Hex 9 mm	On request
Measure b	60 mm	On request
Type of hexagonal bolt	Hardened/Blank	On request
Colour (crank body and grip)	Black	On request
Logotype	Without	Your logotype

Application example



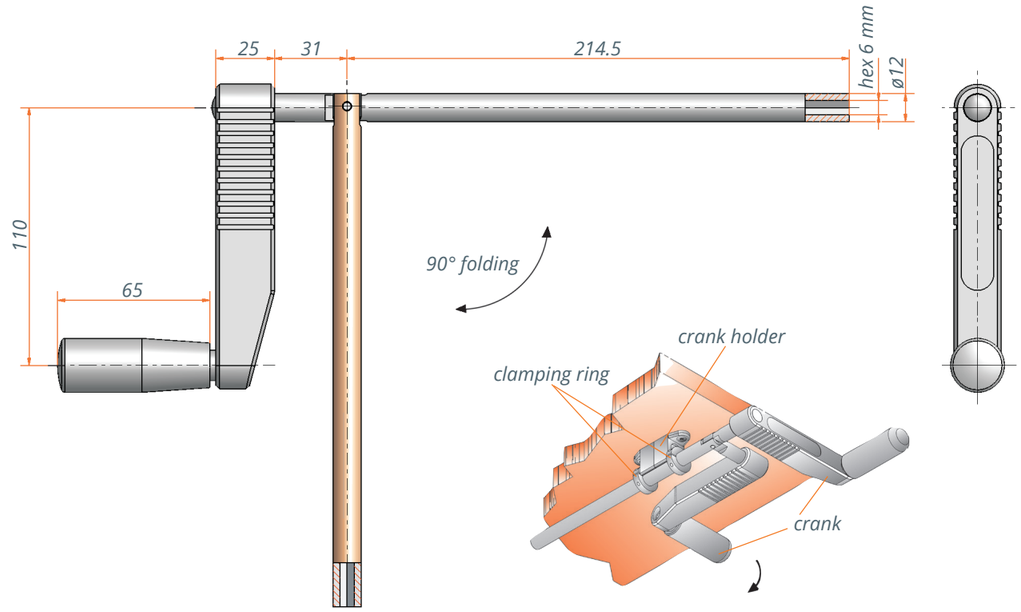
Crank-handle 5186

Description

Crank-handle grip and crank extension are made of glass-fibre reinforced synthetic material.

Special features

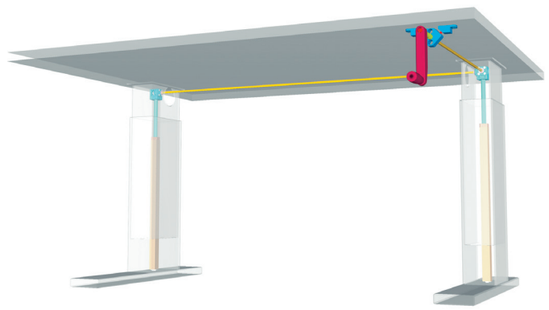
- Modern design
- Can be folded by 90°.
- On request, the type and the length of the hexagonal bolt as well as the colour of the crank body can be produced to customer specifications
- On request, an own logotype is possible



Technical data

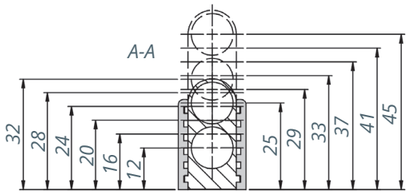
Model	5186
Crank extension	110 mm
Type of hexagonal bolt	Inner hex 6 mm
Dynamic torque	2 Nm

Application example

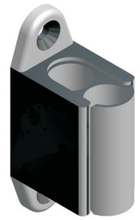


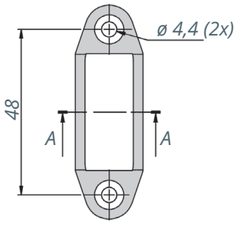
Technical notes

- Crank holder, made of black synthetic material, for a 12 mm diameter crank shaft. The holder can be adjusted from a height of 12 mm up to 45 mm.
- Clamping ring, made of black synthetic material, for shaft with diameter 12 mm. You need 2 clamping rings to secure the crank shaft on the crank holder. The fixing nut is enclosed.



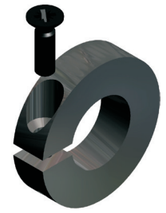
Possible adjustment heights

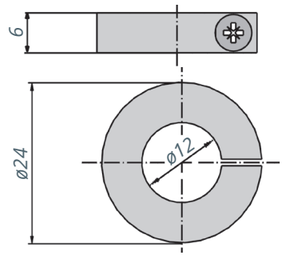




Crank holder
Order number 5186.19-0000

Clamping ring
Order number
5186.10-0001





Crank-handle 5187

Description

Crank-handle grip and crank extension are made of glass-fibre reinforced synthetic material.

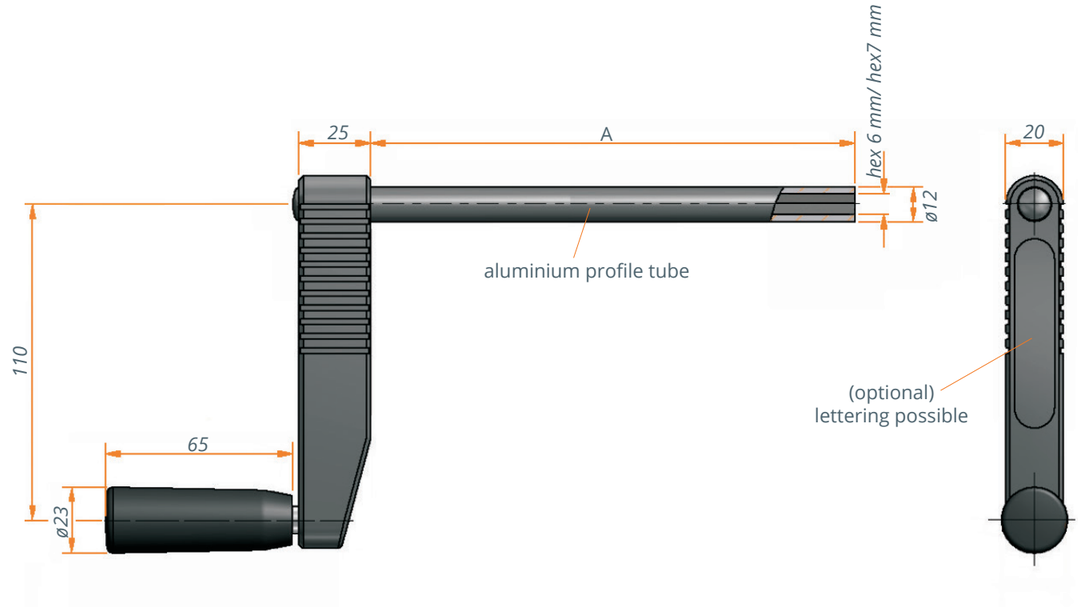
Special features

- Modern design
- On request, the type and the length of the hexagonal bolt as well as the colour of the crank body can be produced to customer specifications
- On request, an own logotype is possible

Variant key

5187.00	V	XX	A	XXX

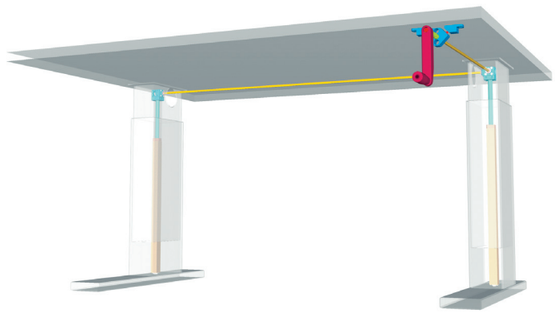
Length of crank extension: XXX in mm
Type of profile tube: 01 Inner hex 6 mm
02 Inner hex 7 mm



Technical data

Model	5187.00-V01AXXX	5187.00-V02AXXX
Crank extension	Customer specific	Customer specific
Type of profile tube	Inner hex 6 mm	Inner hex 6 mm
Material	Synthetic crank body and handle	Synthetic crank body and handle
Length A	Customer specific	Customer specific
Colour	Black (more colours available on request)	Black (more colours available on request)

Application example



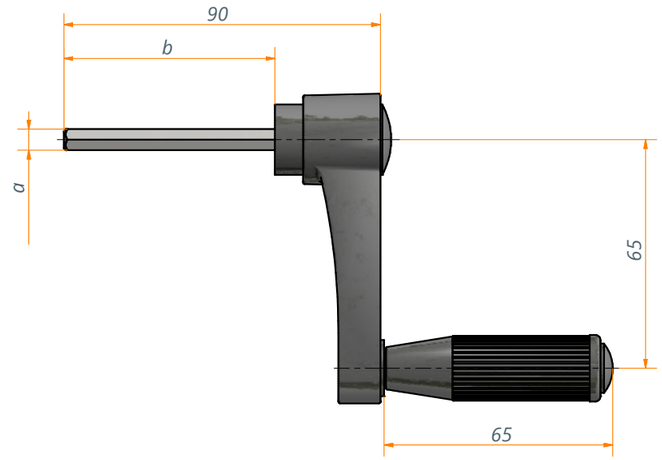
Crank-handle 5190

Description

Crank-handle grip and crank extension are made of glass-fibre reinforced synthetic material.

Special features

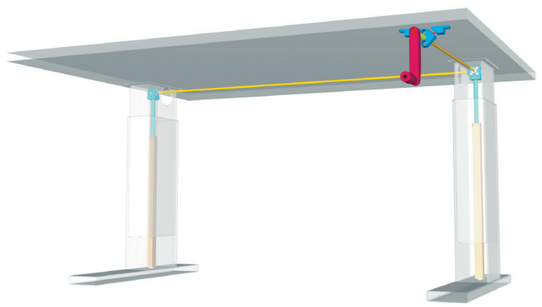
- Modern design
- On request, the type and the length of the hexagonal bolt as well as the colour of the crank body can be produced to customer specifications



Technical data

Model	5190.00-0000	5190 Customer specific
Measure a	Hex 6 mm	On request
Measure b	60 mm	On request
Type of hexagonal bolt	Alvanized	On request
Colour (Crank body and grip)	Black	On request

Application example

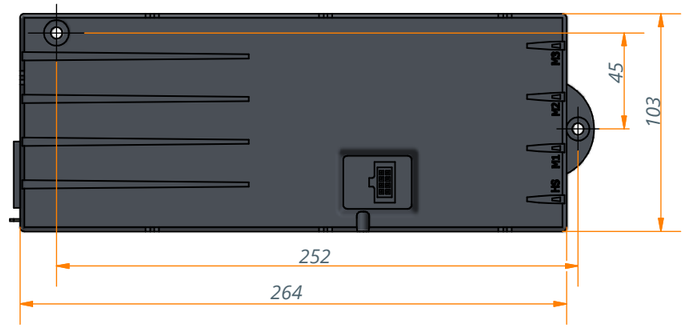


Control box Compact

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)



further details under
www.logicdata.at

Special features

- Control box Compact^{eco}, 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

Technical data

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**	
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**	
1000.49-02 / Compact-e-3-2-KTT-4630-EU	**two** motors **synchronous**	(3143, 4114, 4630, 4701, 4773) * 4643 **
1000.49-11 / Compact-e-3-KTS-4630-US	**one** to **three** motors **parallel**	
1000.49-12 / Compact-e-3-2-KTT-4630-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, 3131)**
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*	
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

- Power cable has to be ordered separately.
- For stroke programming or changing on site a hand switch with display is always required (see hand control and motor cables).
- Please note the permissible duty cycle of the 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-leading.

Hand control and motor cables

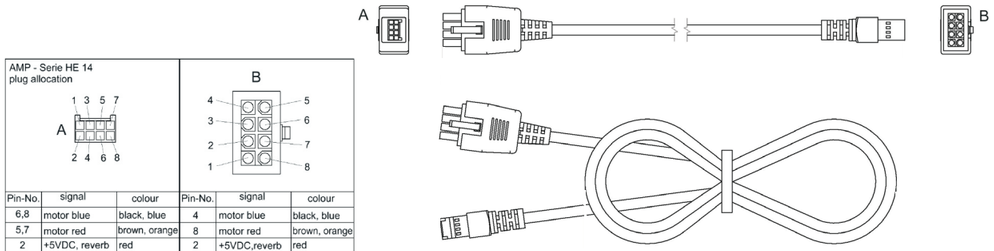
Description

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

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

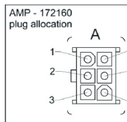


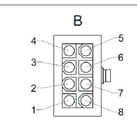
AMP - Serie HE 14
plug allocation

Pin-No.	signal	colour	Pin-No.	signal	colour
6,8	motor blue	black, blue	4	motor blue	black, blue
5,7	motor red	brown, orange	8	motor red	brown, orange
2	+5VDC, reverb	red	2	+5VDC,reverb	red
4	GND, reverb	grey	3,7	reverb-signal 2	grey
3	reverb-signal 2	green	5	GND, reverb	green
1	reverb-signal 1	violet	1	reverb-signal 1	violet

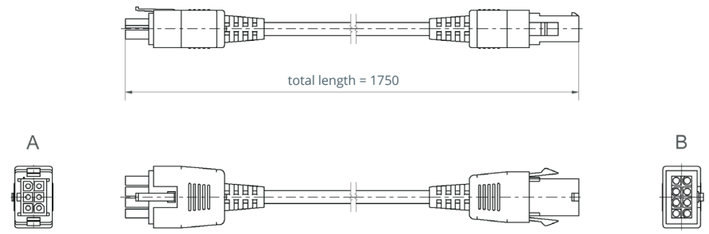
Motor cable 3122.53-02: 1.75 m long

AMP - 172160
plug allocation





Pin-No.	signal	colour	Pin-No.	signal	colour
1	motor blue	black, blue	4	motor blue	black, blue
2	motor red	brown, orange	8	motor red	brown, orange
3	+5VDC, reverb	red	2	+5VDC,reverb	red
4	reverb-signal 2	green	5	reverb-signal 2	green
5	GND, reverb	gray	3,7	GND, reverb	gray
6	reverb-signal 1	violet	1	reverb-signal 1	violet



Technical data

Motor cable	*For use with drives*
4138.53-01/ Length 1 m ***4138.53-02/ Length 2 m***	3143, 4114, 4630, 4701, 4773
3122.53-02/ Length 1,75 m	4643, 3120, 3121, 3131, 3122, 3133.00, 3133.48

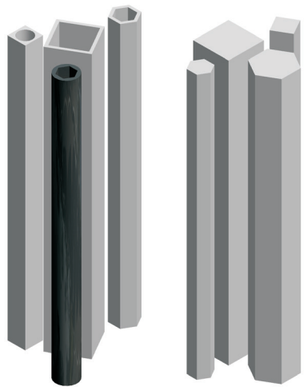
Hand switch	*Description*	
3143.47-05/ HSU-MDF-4M2-LD	Switch with display and four memory positions, stroke heights and two up-down buttons, free programmable	
3143.47-43/ TOUCH fx	Switch with display and four memory positions, with touch & click function	
3143.47-30/ HSM-OD-2-LD	Simple hand control, up-down	
3143.47-42/ TOUCH-basic-DN	Simple hand control up-down, with touch function	
3143.47-08/ IRR-DSK-SET-LIGHT	IR remote control consisting of, IR receiver, remote control (including battery) and manual	
3143.47-0001/ Receiver, remote control	RF remote control consisting of RF receiver, remote control (including battery), and manual	

* Further details under http://www./logicdata.at

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

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 176 (hexagon bars)
- Profile rods are made of steel and drawn according to DIN 178 (square bars)
- Profile tubes are made of steel and drawing to DIN 2391
- Further profile rods, profile tubes, special lengths and machining on request

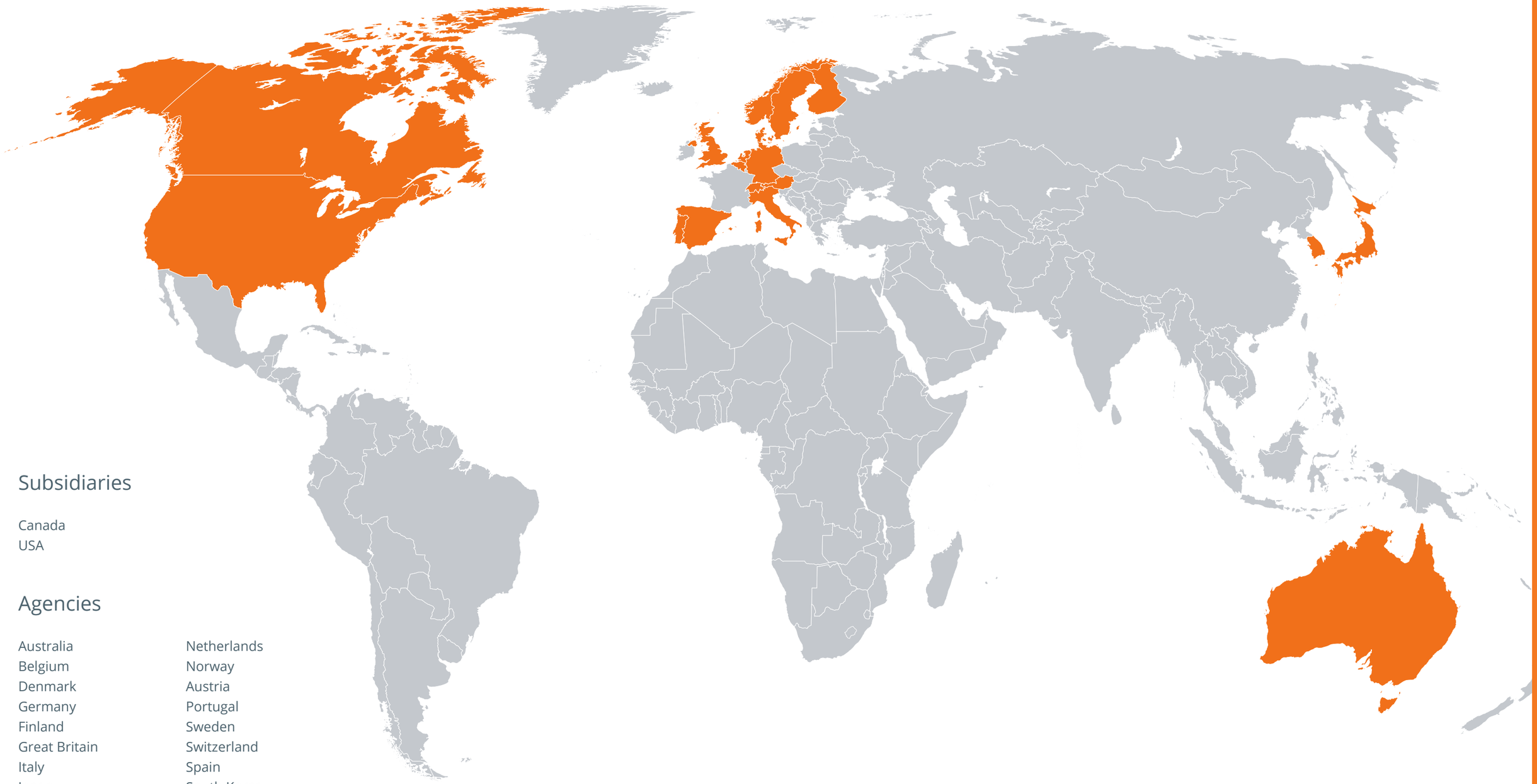
Profile tubes drawn according to DIN 2391

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

Profil rods drawn according to DIN 176 (hexagon bars) and according to DIN 178 (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
209S6.08.0	203V6.08.0	hex 8 mm
209S6.09.0		hex 9 mm
209S6.12.0	203V6.12.0	hex 12 mm

USED AROUND THE WORLD



Subsidiaries

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