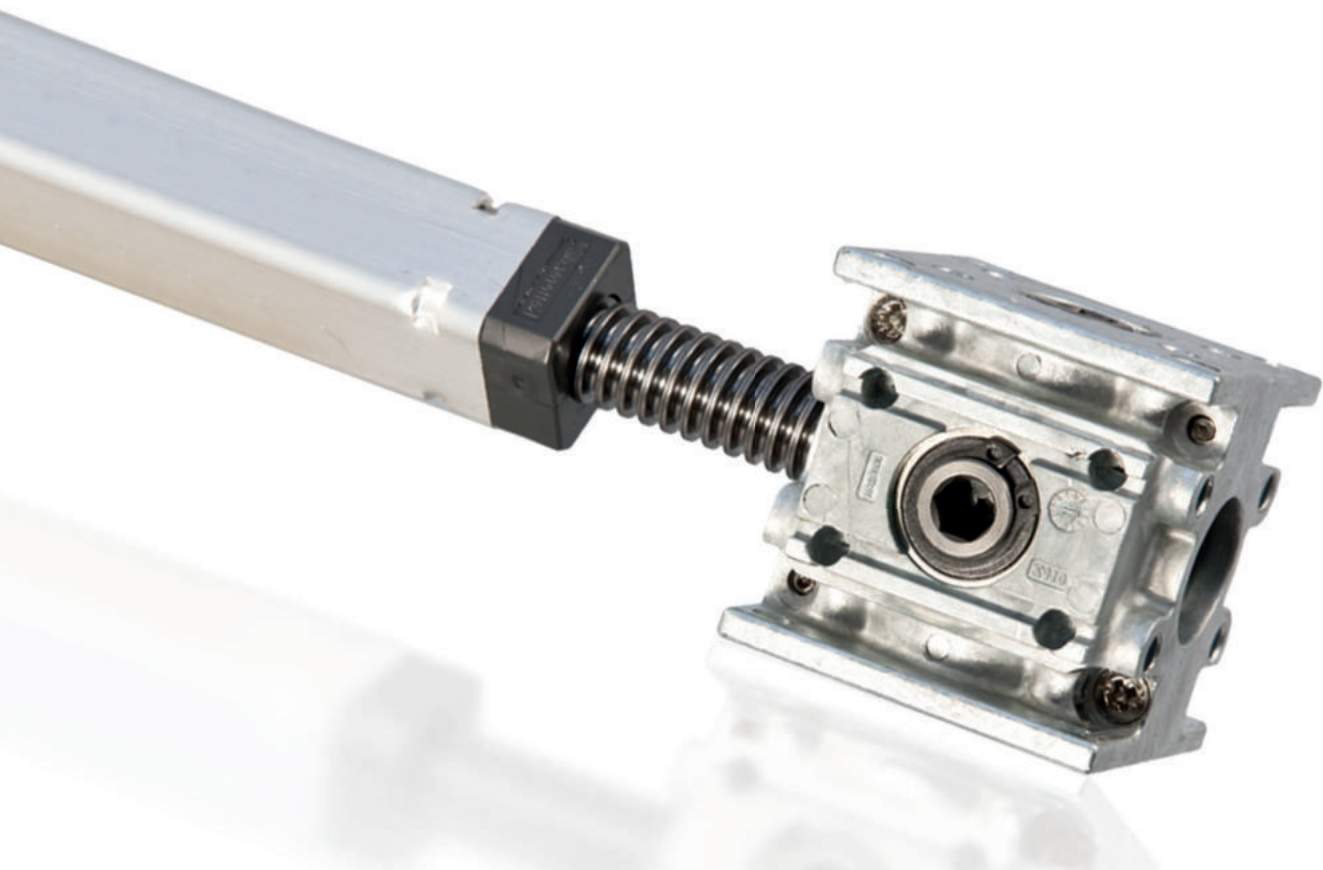


Lifting Units and Accessories

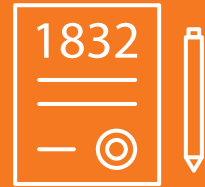


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For a quarter of a century, we have been offering customized drive solutions for office and workplace workstations, as well as for shading systems and building technology.

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Liftung Units

- Page 04 3010 Bevel gear with spindle unit
- Page 06 3011 Bevel gear with spindle unit
- Page 08 3014 Bevel gear with spindle unit
- Page 10 3034 Bevel gear with spindle unit
- Page 12 3035 Bevel gear with spindle unit
- Page 14 3039 Bevel gear with spindle unit
- Page 16 3042 Bevel gear with spindle unit
- Page 18 3045 Bevel gear with spindle unit
- Page 20 3070 Bevel gear with spindle unit
- Page 22 3130.14 Spindle unit with motoradapter
- Page 26 3824 Bevel gear with spindle unit
- Page 28 4115.00 Bevel gear with synchronous telescopic spindle
- Page 32 4115.14 Synchronous telescopic spindle unit

Accessories

- Page 36 3052.09 Brake unit
- Page 38 Crank handles - Crank body steel
- Page 40 5180 Crank-handle
- Page 42 5186 Crank-handle
- Page 44 5187 Crank-handle
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Bevel gear with spindle unit (right-turning) 3010 RH

Description

Universally applicable lifting unit with bevel gear head and right-turning spindle 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.

Special features

- Maintenance-free
- Drive torque on gear head for application with several spindle units: max. 3 Nm
- Tailor-made solutions thanks to different gear head designs, spindle types and individual dimensioning



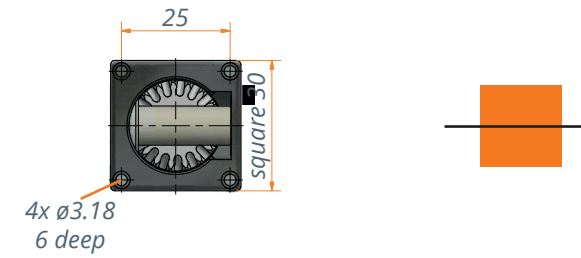
Variant key

3010.00	Type of gear unit			
	I	Bevel gear with through axel		
	T	Bevel gear with input wheel and through axel		
	L	Bevel gear with input wheel and output wheel 90°		
	Type of spindle			
	1	14x3 RH		
	2	12x6 RH		
	Connection			
	0	Standard= see drawing		
	Retracted length			
	E300	XXX in mm		
	Stroke length			
	H200	XXX in mm		
3010.00-	I	1	0	E300 H200 : Example

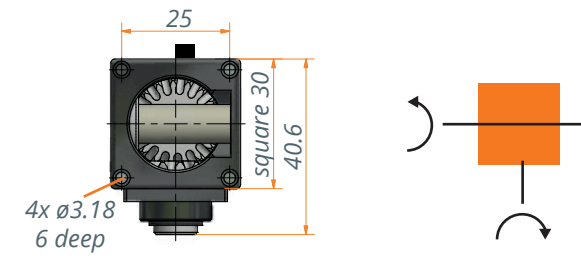
Model	3010.00-X10EXXXHXXX Type of spindle 1	3010.00-X20EXXXHXXX Type of spindle 2
Type of spindle	TR14x3 RH	SG12x6 RH
Travel path	2.3 mm/U	4.6 mm/U
Required drive torque	1.2 Nm	1.6 Nm
Max. lifting force	1200 N	
Max. drive torque gear head for several spindle units*	3 Nm	
Max. Stroke	retracted length -99 mm	
Ratio in direction of spindle	1.3:1	
Ratio in direction of deflection	1:1	
Input	6ktSW6	

* See technical notes

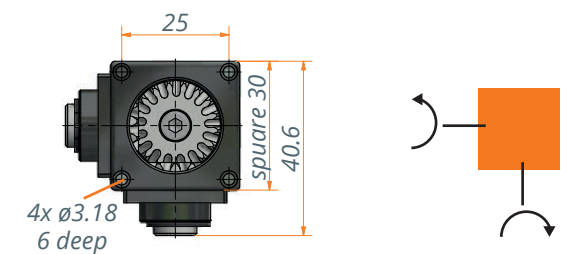
3011.00-IXXEXXXHXXX: Type of gear unit I



3011.00-TXXEXXXHXXX: Type of gear unit T



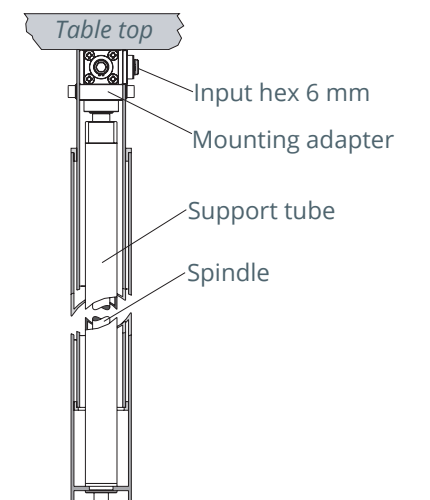
3011.00-LXXEXXXHXXX: Type of gear unit L



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 the first 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 (left turning) 3011 LH

Description

Universally applicable lifting unit with bevel gear head and left-turning spindle 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.

Special features

- Maintenance-free
- Drive torque on gear head for application with several spindle units: max. 3 Nm
- Tailor-made solutions thanks to different gear head designs, spindle types and individual dimensioning



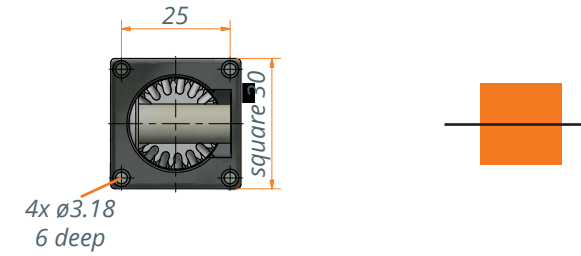
Variant key

3011.00	Type of gear unit		Type of spindle		Connection		Retracted length		Stroke length	
	I	Bevel gear with through axel	1	14x3 RH	0	Standard= see drawing	EXXX		HXXX	
	T	Bevel gear with input wheel and through axel	2	12x6 RH			XXX in mm		XXX in mm	
	L	Bevel gear with input wheel and output wheel 90°								
3011.00-	I	1	0	E300	H200	Example				

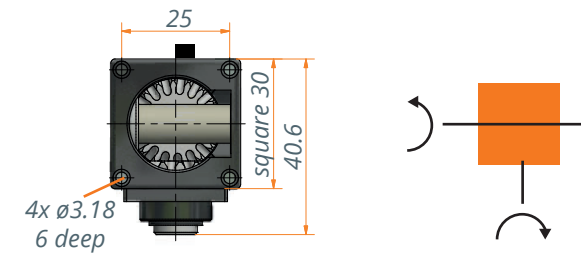
Model	3011.00-X10EXXXHXXX Type of spindle 1	3011.00-X20EXXXHXXX Type of spindle 2
Type of spindle	TR14x3 LH	SG12x6 LH
Travel path	2.3 mm/U	4.6 mm/U
Required drive torque	1.2 Nm	1.6 Nm
Max. lifting force	1200 N	
Max. drive torque gear head for several spindle units*	3 Nm	
Max. Stroke	retracted length -99 mm	
Ratio in direction of spindle	1.3:1	
Ratio in direction of deflection	1:1	
Input	6ktSW6	

* See technical notes

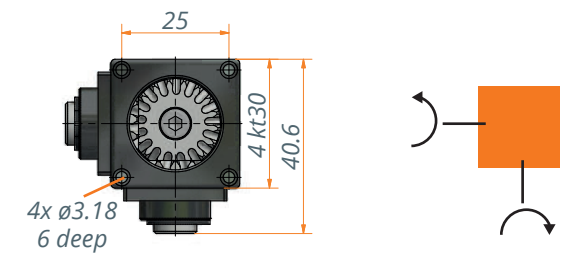
3011.00-IXXEXXXHXXX: Type of gear unit I



3011.00-TXXEXXXHXXX: Type of gear unit T



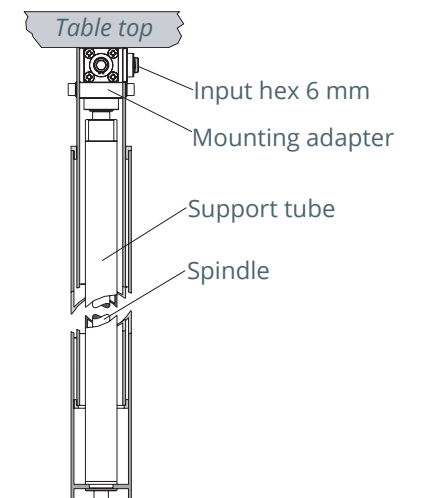
3011.00-LXXEXXXHXXX: Type of gear unit L



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 the first 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



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

- Deflection angle: 120° or 135°, $i = 1:1$
- Drive torque on gear head for application with several spindle units: Max. 3 Nm
- Maintenance-free
- Tailor-made solutions thanks to different gear head designs, spindle types and individual dimensioning



Variant key

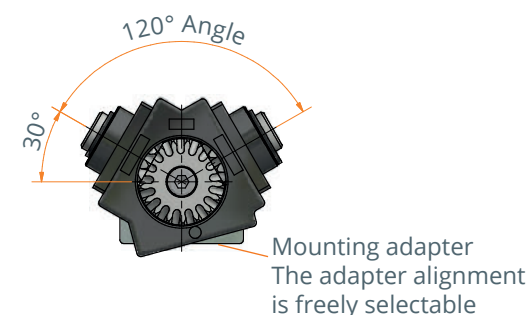
3014.00	Type of gear unit	
	B	Bevel gear input-output in 120° angle
	C	Bevel gear input-output in 135° angle
	Type of spindle	
	1	14x3 LH
	2	14x3 RH
	3	12x6 LH
	Connection	
	0	Standard= see drawing
	Retracted length	
	E300	XXX in mm
	Stroke length	
	H200	XXX in mm
3014.00-	B	1 0 E300 H200 : Example

Model	3014.00-X10EXXXHXXX 3014.00-X20EXXXHXXX Type of spindle 1 and 2	3014.00-X30EXXXHXXX Type of spindle 3
Type of spindle	TR14x3 RH/ LH	SG12x6 LH
Travel path	2.3 mm/U	4.6 mm/U
Required drive torque	1.2 Nm	1.6 Nm
Max. lifting force	1200 N	
Max. drive torque gear head for several spindle units*	3 Nm	
Max. stroke	retracted length -99 mm	
Ratio in direction of spindle	1.3:1	
Ratio in direction of deflection	1:1	
Input	hex 6	

* See technical notes

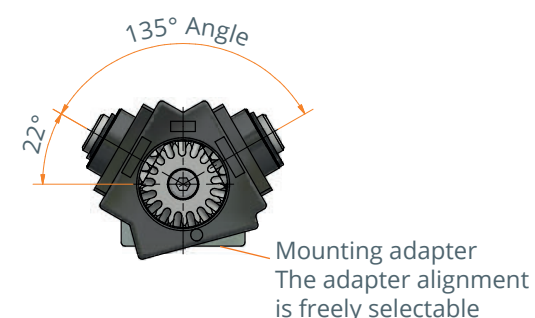
3014.00-BX0EXXXHXXX: Type of gear unit B 120° Angle

The drive position is freely selectable



3014.00-CX0EXXXHXXX: Type of gear unit C 135° Angle

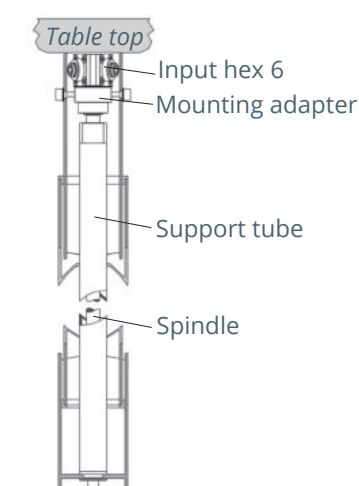
The drive position is freely selectable



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 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: Max. 3.5 Nm
- Housing made of glass fiber reinforced plastic
- Hardened steel bevel wheels with robust, reinforced toothing
- Support tube round \varnothing 20 mm or square 22 mm
- Suitable for manual use as well as for the electromotive drive

Variant key

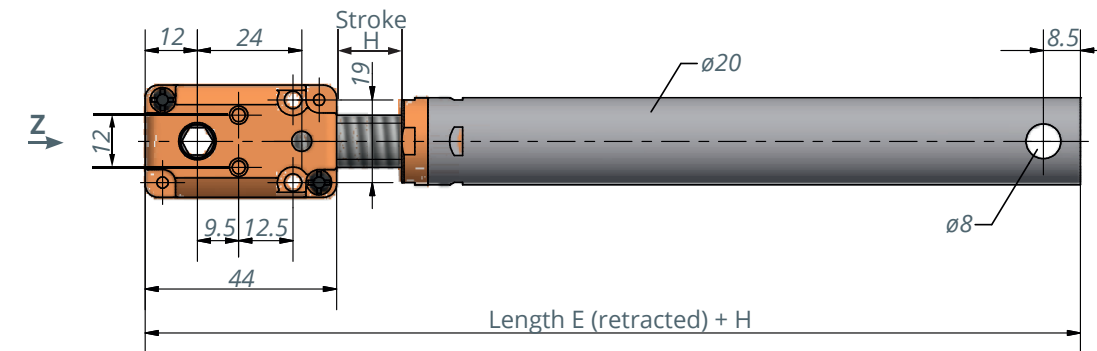
3034.00-V01: spindle SG12x16P4 RH with a round support tube
 V02: spindle SG14x16P4 RH with a square support tube
 V03: spindle Tr14x3 RH with a square support tube

Technical data

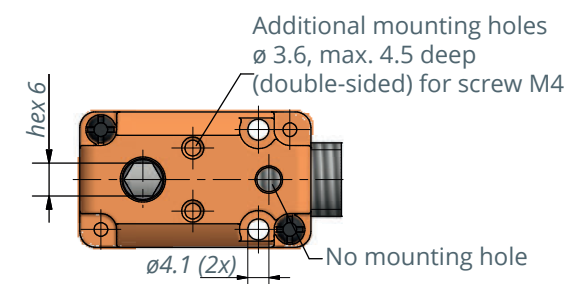
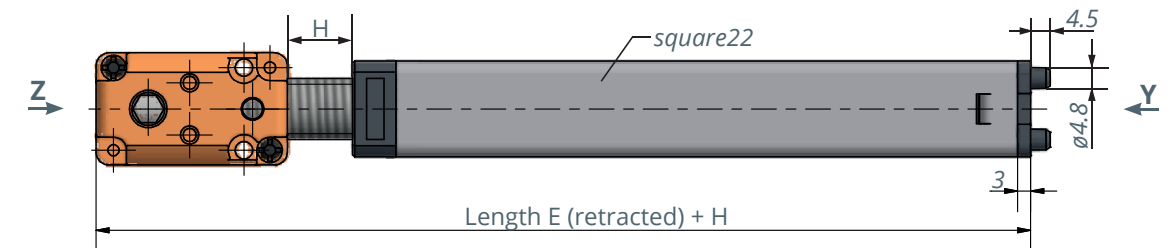
Model	3034.00-V01EXXXHXXX	3034.00-V02EXXXHXXX	3034.00-V03EXXXHXXX
Preferred variant	3034.00-V01E600H500	3034.00-V02E630H530	3034.00-V03E300H200
Ratio	1:1	1:1	1:1
Input	hex 6 mm	hex 6 mm	hex 6 mm
Type of spindle	SG12x16P4 RH	SG14x16P4 RH	TR14x3 RH
Travel path	16 mm/rotation	16 mm/rotation	3 mm/rotation
Traverse speed *	32 mm/s	32 mm/s	6 mm/s
Support tube	round \varnothing 20 mm	square 22 mm	square 22 mm
Max. stroke	retracted length - 90 mm	retracted length - 100 mm	retracted length - 100 mm
Max. lifting force	700 N	700 N	700 N
Required drive torque	3.2 Nm	3.2 Nm	1 Nm

* In combination with LogicData control box Compact-3

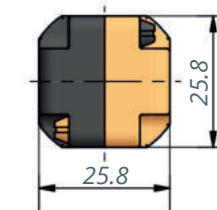
3034.00-V01



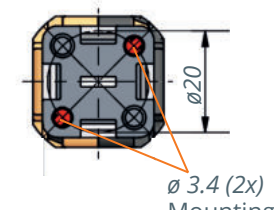
3034.00-V02/ 3034.00-V03



View Z



View Y

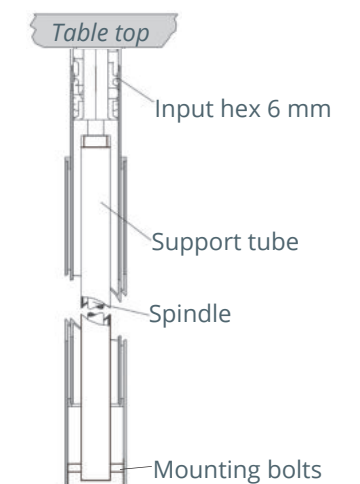


\varnothing 3.4 (2x)
 Mounting holes
 WN1452 K40x16
 tightening torque
 1.8 Nm

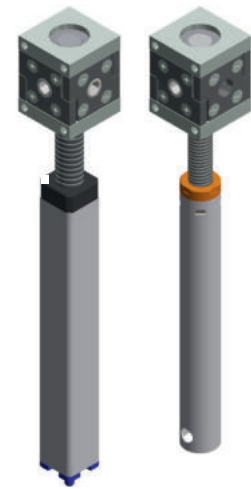
Technical notes

- The lifting units must be protected against lateral forces by a separate guide system.
- Attention: The spindle systems with a spindle pitch \geq 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 \varnothing 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 \varnothing 3.6 mm for M4 requires top side support.

Application example



Bevel gearbox with spindle unit 3035 / 3036



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 the residential, mobile home or industrial area. A simple screw fastening and a through hexagonal enable a simple system structure and an uncomplicated assembly.

Special features

- Size 35 mm x 35 mm
- Drive torque on gear head max. 4 Nm
- Housing made of zinc and glass fiber reinforced plastic
- Hardened steel bevel wheels with robust, reinforced toothing
- Maintenance-free
- Support tube round Ø20 mm or square 22 mm

Variant key

- 3035.00-V01: Spindle Tr14x3 RH and square support tube
- 3035.00-V02: Spindle Tr14x3 LH and square support tube
- 3036.00-V02: Spindle Tr14x3 RH and square support tube
- 3036.00-V04: Spindle SG12x16P4 RH and round support tube

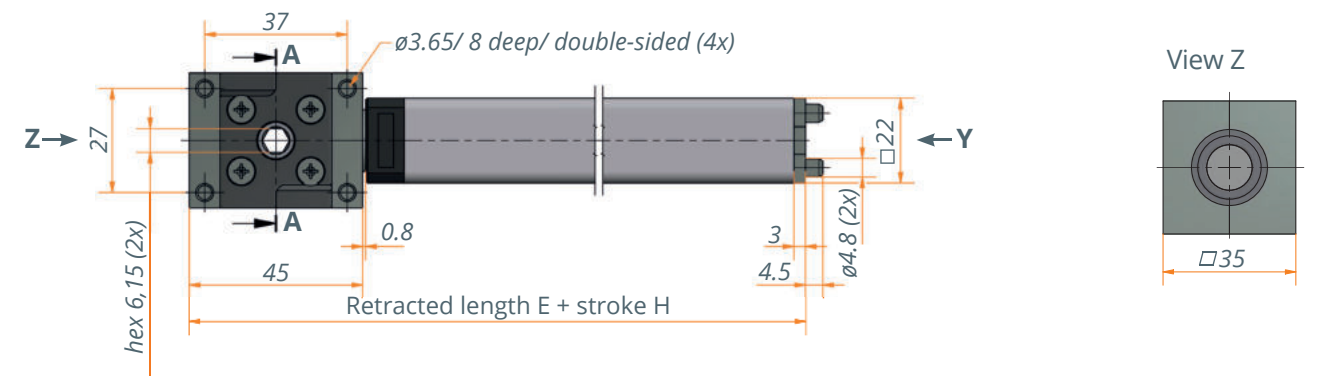


Technical data

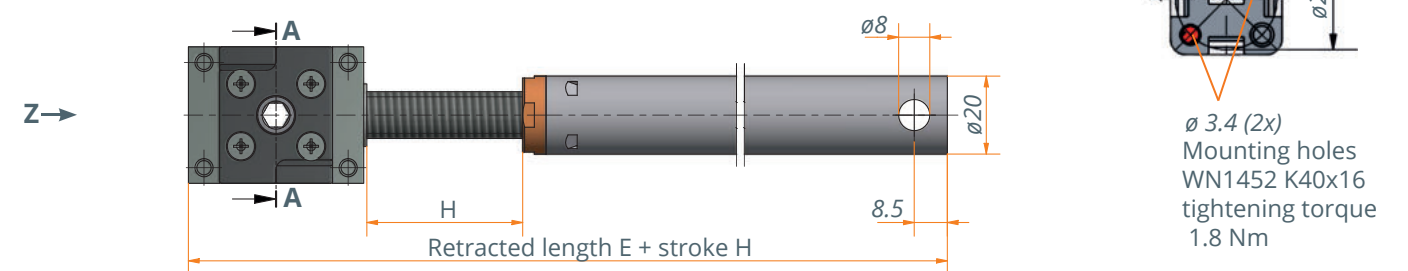
Model	3035.00-V01E ¹ XXXXHXXX	3035.00-V02E ¹ XXXXHXXX	3036.00-V02E ¹ XXXXHXXX	3036.00-V04E ¹ XXXXHXXX
Structure gearhead (cut A-A)				
Preferred variant	3035.00-V01E580H200	3035.00-V02E580H200	3036.00-V02E580H200	3036.00-V04E580H500
Ratio in direction of spindle	1.5:1	1.5:1	1:1	1:1
Input	hex 6 mm	hex 6 mm	hex 6 mm	hex 6 mm
Type of spindle	TR14x3 RH clockwise	TR14x3 LH counterclockwise	TR14x3 RH clockwise	SG12x16P4 RH clockwise
Travel path	2 mm/rotation	2 mm/rotation	3 mm/rotation	16 mm/rotation
Traverse speed*	4 mm/s	4 mm/s	6 mm/s	32 mm/s
Support tube	square 22 mm	square 22 mm	square 22 mm	round Ø 20 mm
Max. stroke H	retraced length -100 mm	retraced length -100 mm	retraced length -100 mm	retraced length -80 mm
Max. lifting force	1200 N	1200 N	1200 N	1200 N
Required drive torque	1 Nm	1 Nm	1.3 Nm	3.2 Nm

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

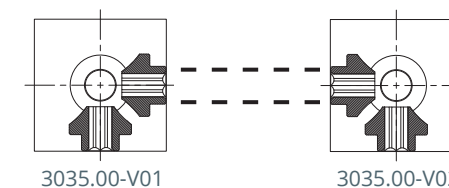
Variant with square support tube: 3035.00-V01 / 3035.00-V02 und 3036.00-V02



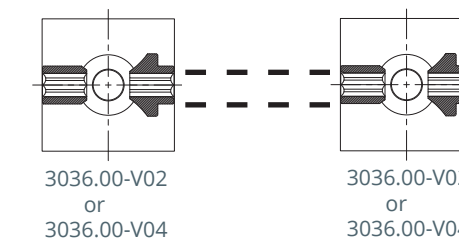
Variant with round support tube: 3036.00-V04



Example: Lifting system with 3035



Example: Lifting system with 3036



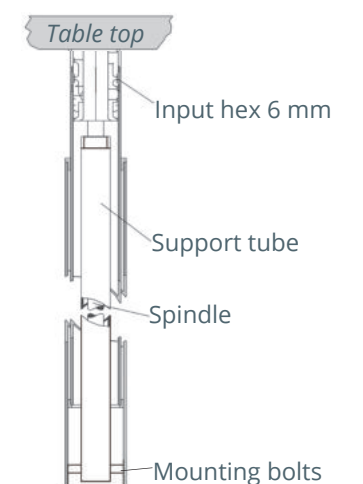
Technical notes

- 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.

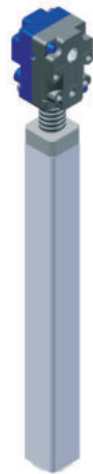
You will find them at:

<https://www.ketterer.de/en/downloads/instructions>

Application example



Bevel gear with spindle unit 3039



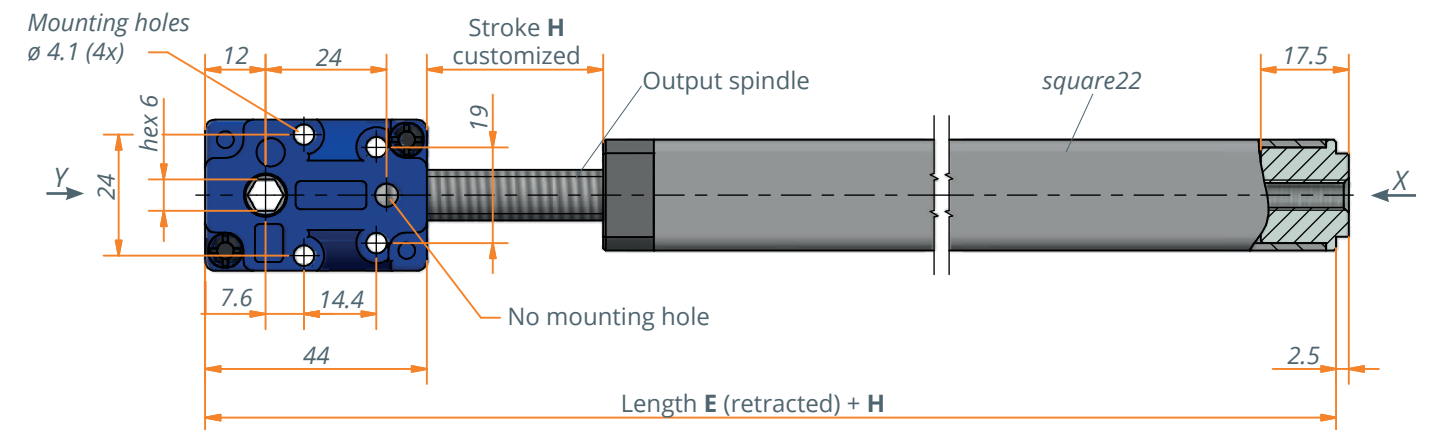
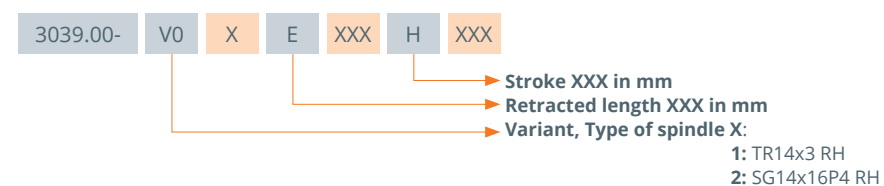
Description

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

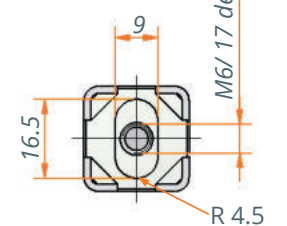
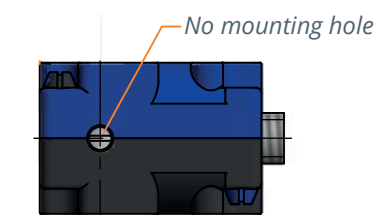
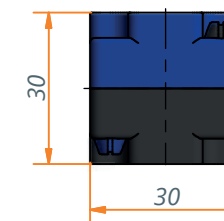
- Maintenance-free
- Ratio 1:1
- Max. drive torque on gear head depending on spindle pitch: max. 4 Nm
- Housing made of glass fiber reinforced plastic
- Hardened steel bevel wheels with robust, reinforced toothing
- Suitable for manual use as well as for electromotive drives

Variant key



View Y

View X
(Rotation stop)



Technical data

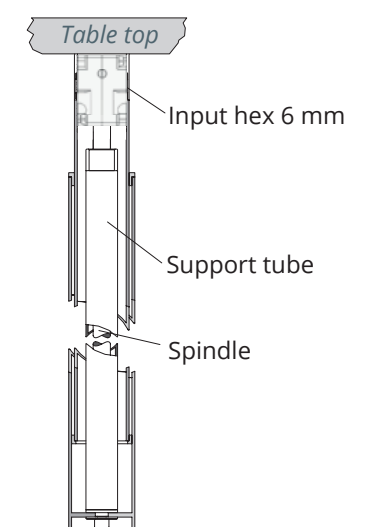
Model	3039.00-V01EXXXHXXX	3039.00-V02EXXXHXXX
Ratio	1:1	1:1
Input	hex 6 mm	hex 6 mm
Type o spindle	TR14x3 RH	SG14x16P4 RH
Travel path	3 mm/rotation	16 mm/rotation
Traverse speed*	7.5 mm/s	40 mm/s
Max. stroke H	retracted length -99 mm	retracted length -99 mm
Max. lifting force	1200 N	800 N
Required drive torque	1.7 Nm	3.5 Nm

* In combination with drive 3130.00 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>
- Installation instructions: Use at least 2 M4 screws when fastening using through going boreholes $\varnothing 4.1$ (4x). When doing so, preferably the lifting unit should be supported above on the top side.

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 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 construction lengths and spindle pitches

Variant key

3042: variants with right-turning spindles

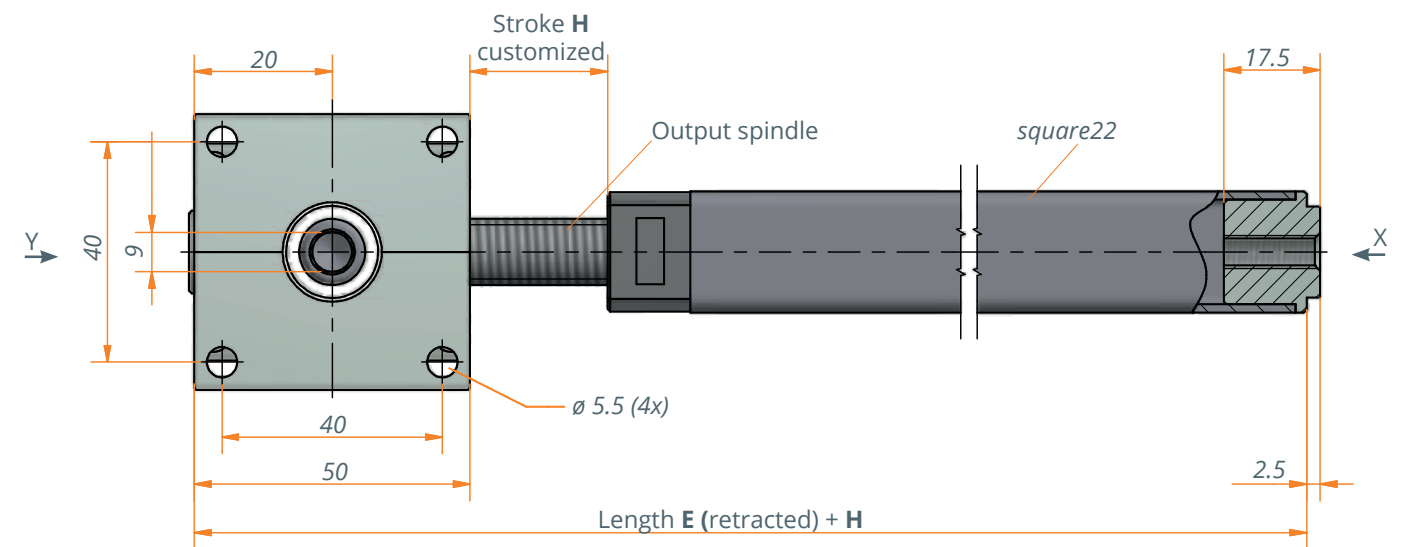
3043: variants with left-turning spindles

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 H	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-V0X and LogicData control box Compact-3

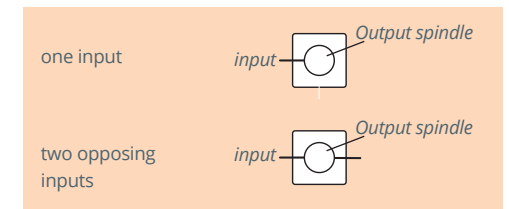
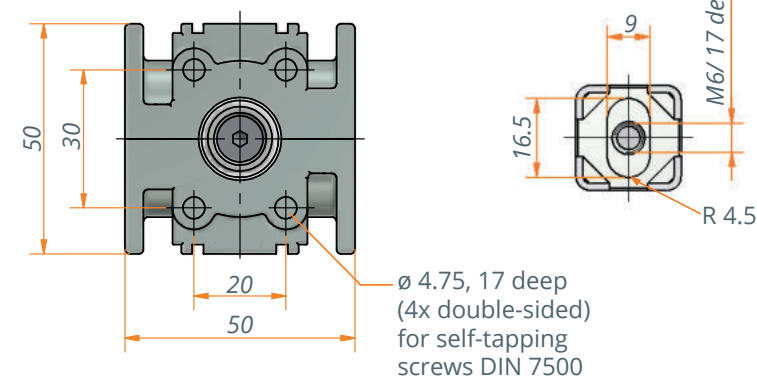
** See technical notes



View Y

View X
(Rotation stop)

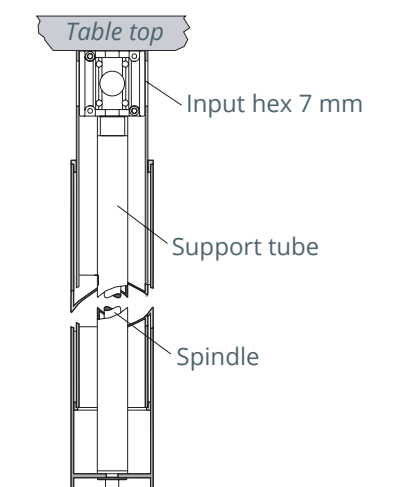
Variants:



Technical notes

- The lifting units must be protected against lateral forces by a separate guide system.
- Attention: The spindle systems with a spindle pitch ≥ 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



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 $i = 1:1$

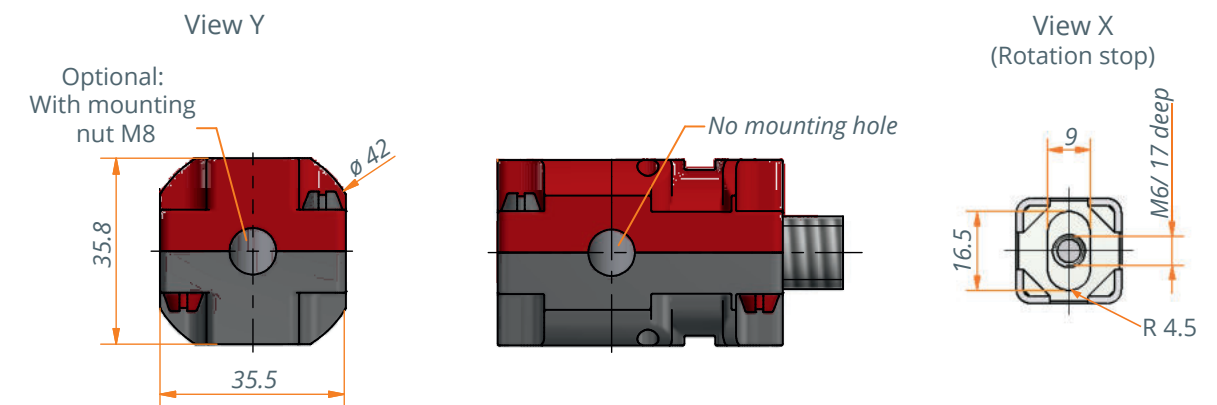
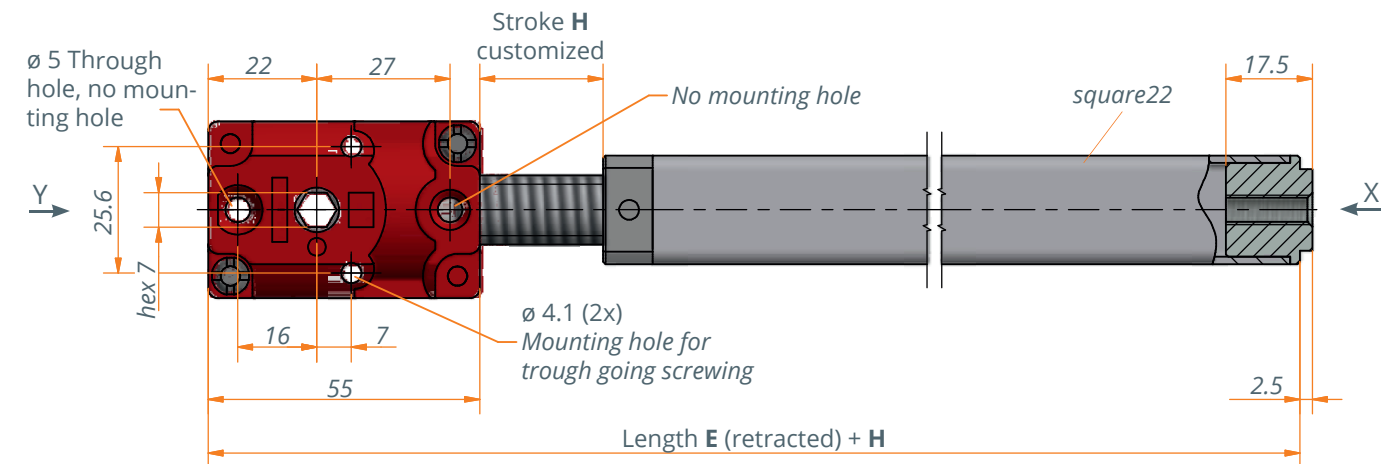
V03: Spindle Tr14x3 RH and $i = 1:2$

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	SG14x16P4 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 H	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

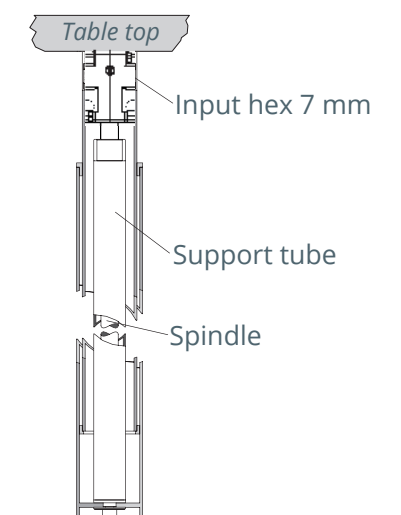
* In combination with motor drive 3143.00-200X and LogicData control box Compact-3



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>
- Installation note: When fixing by means of $\varnothing 4.1$ bore holes, 2 through going M4 screws must be used. The lifting unit should preferably be supported at the top at the front.
- Optionally, the gear unit can be fitted with M8 nut at the top face, which can be used for fixing.

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 tooting
- Drive torque on gear head for application with several spindle units: max. 10 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 construction lengths

Variant key

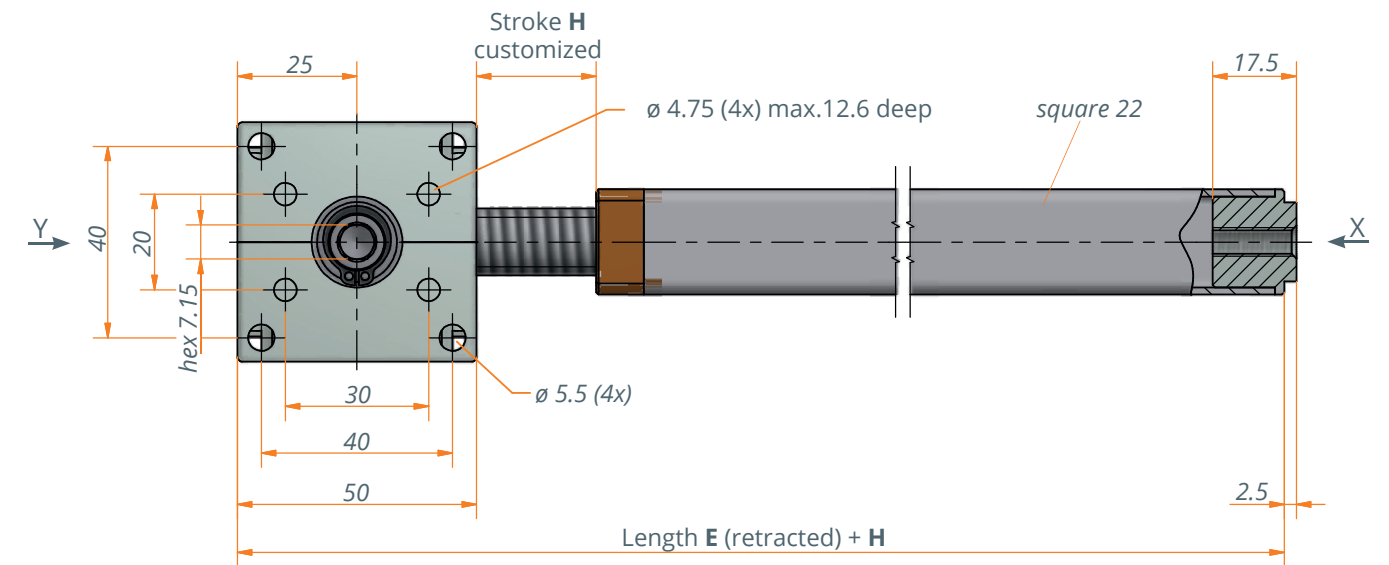
3070: variants with right-turning spindles

3071: variants with left-turning spindles

Technical data

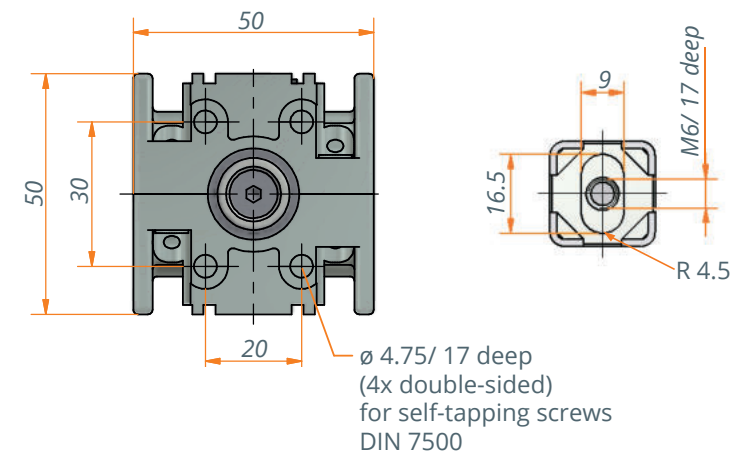
Model	3070	3071
Ratio in direction of spindle	1.83:1	1.83:1
Input	hex 7 mm	hex 7 mm
Number of Inputs	max. 5	max. 5
Type of spindle	SG12x12P4 RH clockwise	SG12x12P4 RH counter-clockwise
Travel path	6.6 mm/rotation	6.6 mm/rotation
Traverse speed*	13 mm/s	13 mm/s
Max. stroke H	retracted length -105 mm	retracted 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-V0X and LogicData control box Compact-3

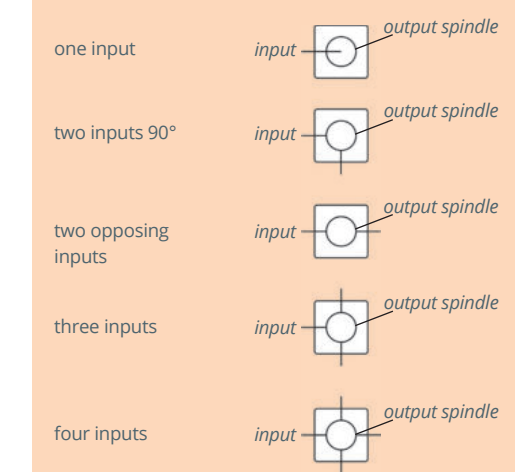


View Y

View X
(Rotation stop)



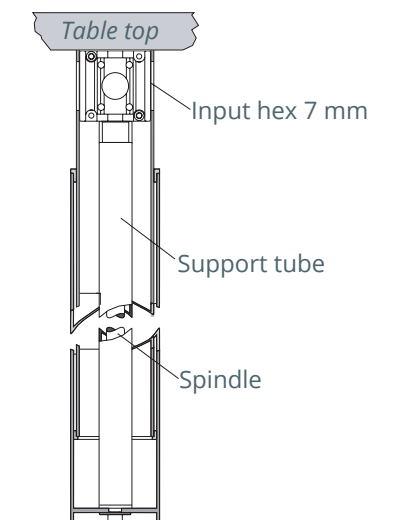
Variants:



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](https://www.ketterer.de/en/downloads/instructions)

Application example



Spindle unit with motoradapter 3130.14

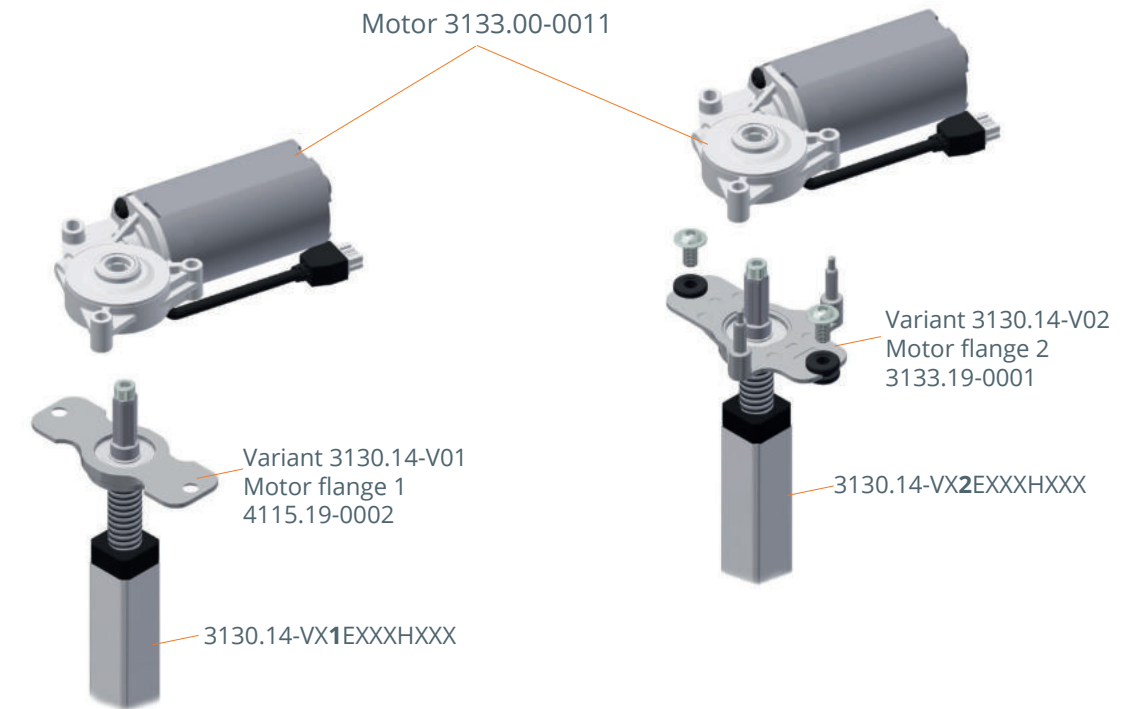
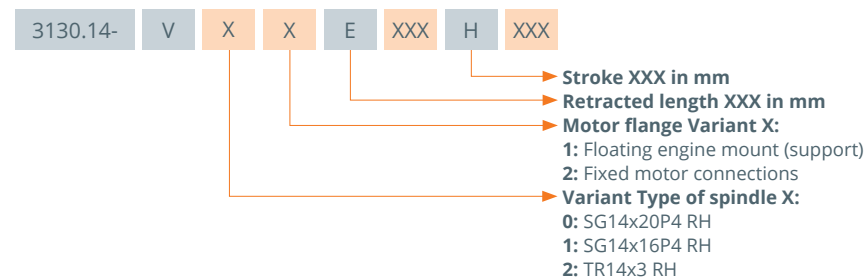
Description

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 construction lengths and can be combined with most Ketterer drives.

Special features

- Ideal for the drives: 3112.00/ 3133.00 / 3133.48 /3130.00
- Available in customized construction lengths
- Simple mounting
- Connection to the drive hex 9 mm

Variant key



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 ≥ 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>

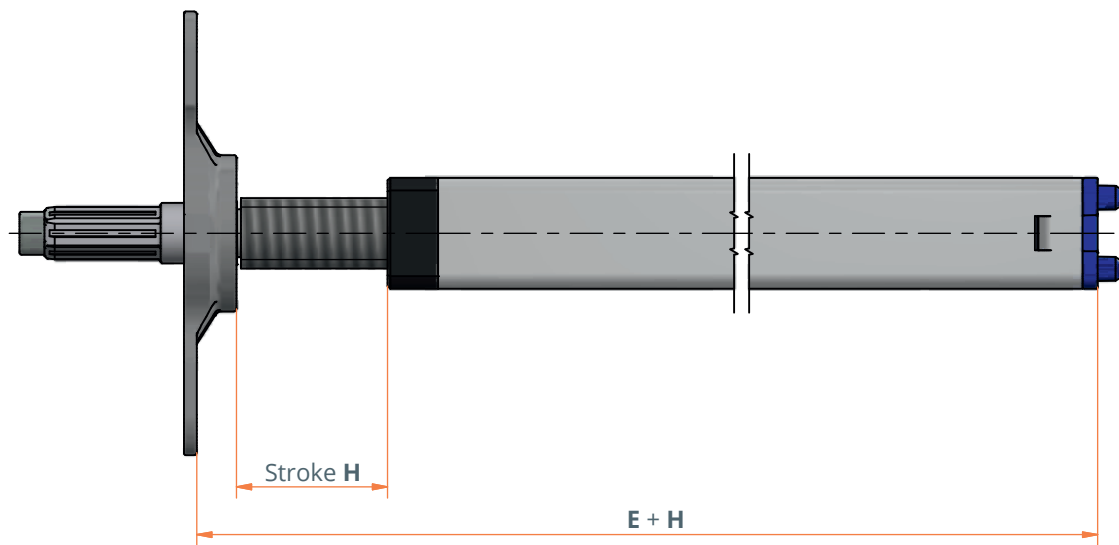
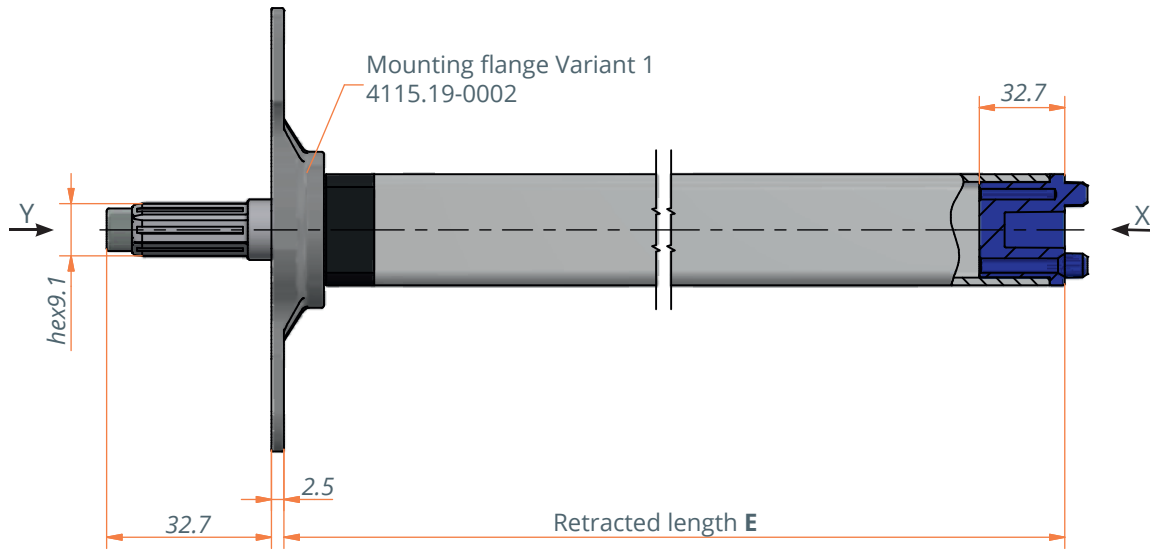
Dynamic self-locking limits* of current Ketterer drives with lifting unit 3130.14

	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

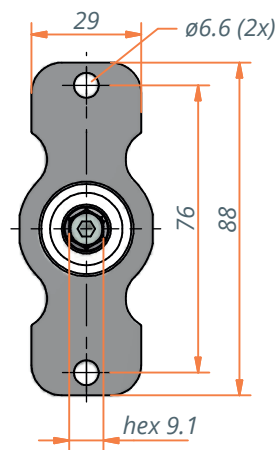
* The limits are determined in combination with LogicData control box Compact-3

** The combination with the lifting units 3130.14-VX2 (variant motor flange 2) is not possible. Special flange on request

Variants
 3130.14-V01EXXXHXXX
 3130.14-V11EXXXHXXX
 3130.14-V21EXXXHXXX

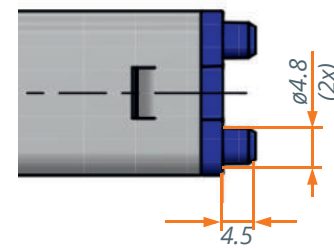
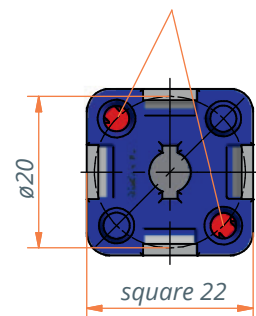


View Y
Mounting flange 1

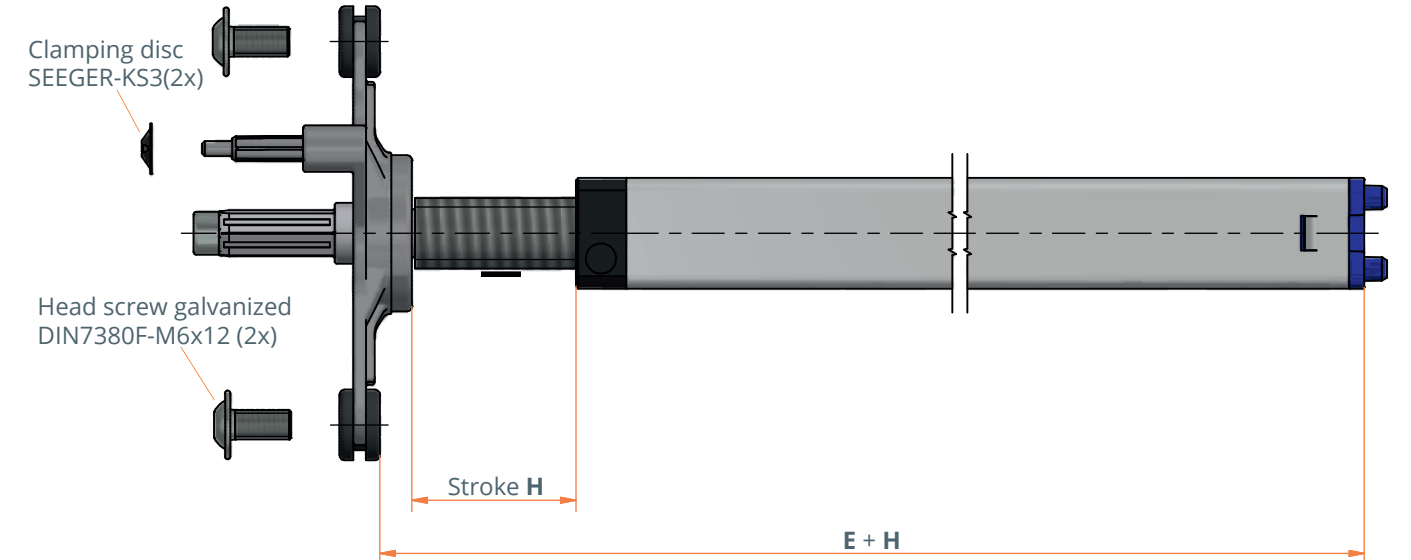
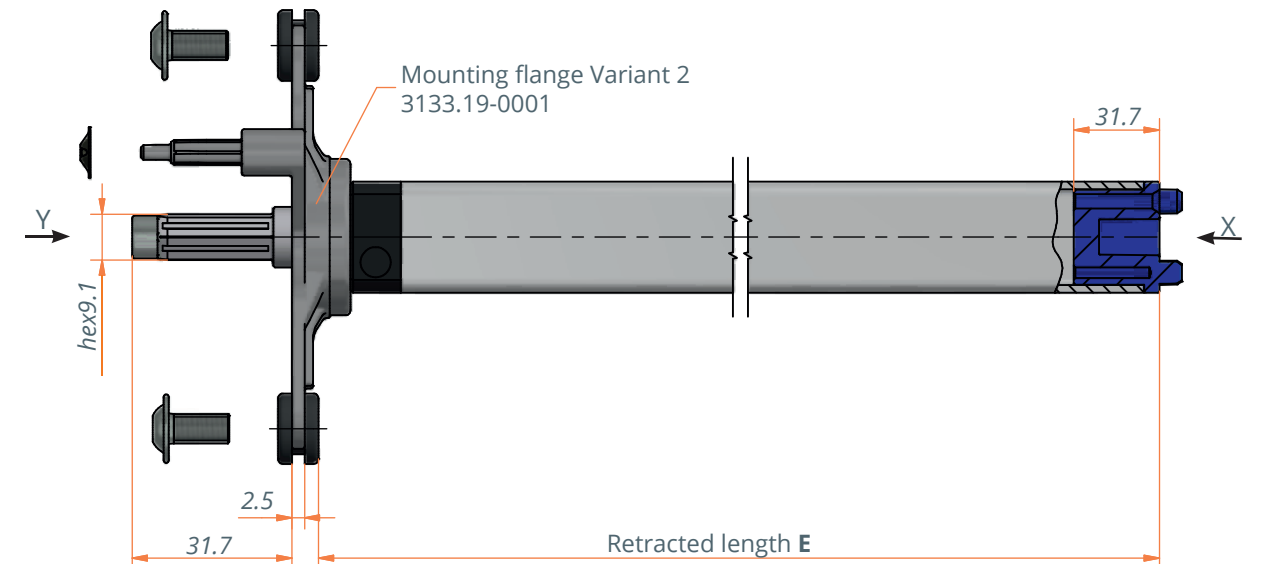


View X

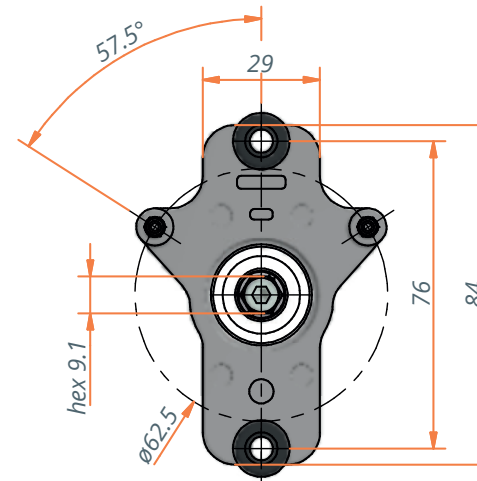
ø3.4 (2x) mounting holes
for screw WN1452 K40x16
tightening torque 1.8 Nm



Variants
 3130.14-V02EXXXHXXX
 3130.14-V12EXXXHXXX
 3130.14-V22EXXXHXXX

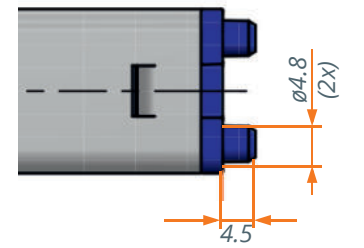
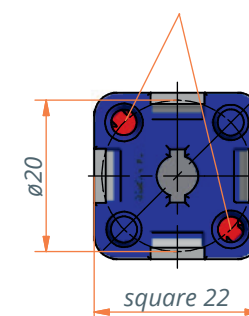


View Y
Mounting flange 2



View X

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



Bevel gear with spindle unit 3824



Description

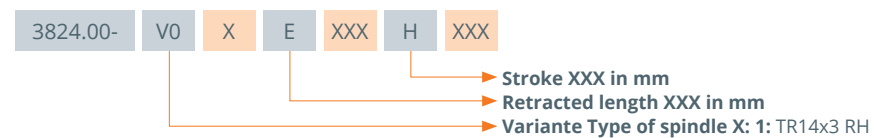
Lifting unit with bevel gear head for linear drive solutions. The gear is ideal for installation in round tubes with inside diameter of 31 mm. Possible applications are height adjustable tables as well as various adjustment functions for other furniture items.

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
- Various construction lengths and spindle pitches available



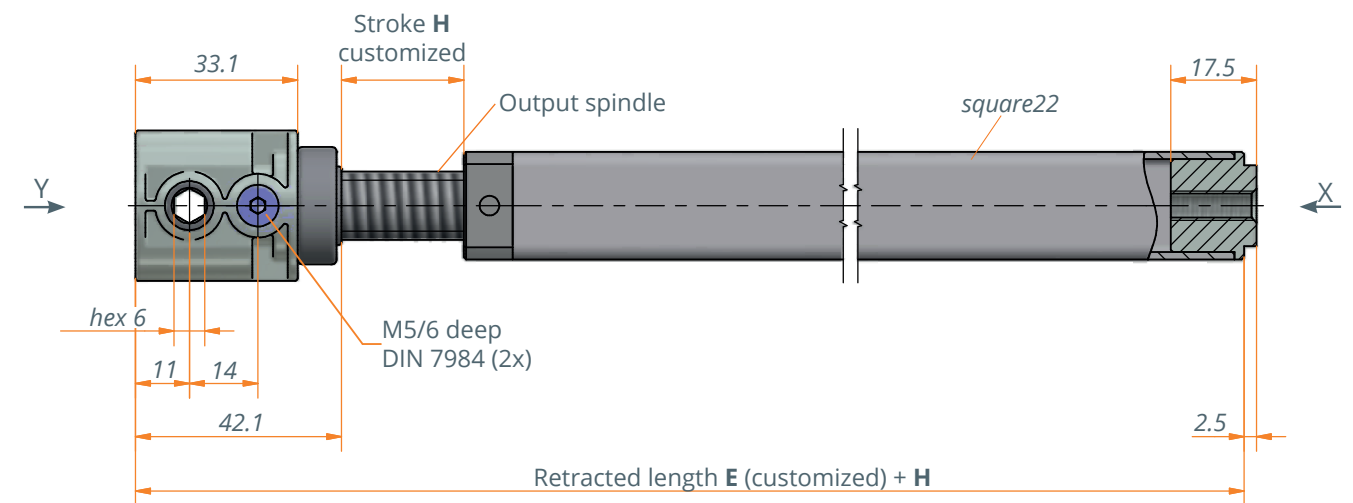
Variant key



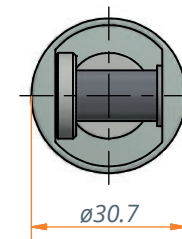
Technical data

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
Max. drive torque	3 Nm

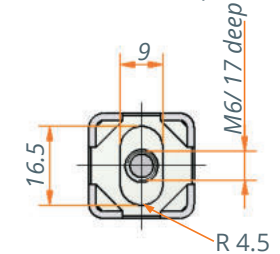
* In connection with motor 3143.00 - V0X and LogicData control box Compact-3



View Y



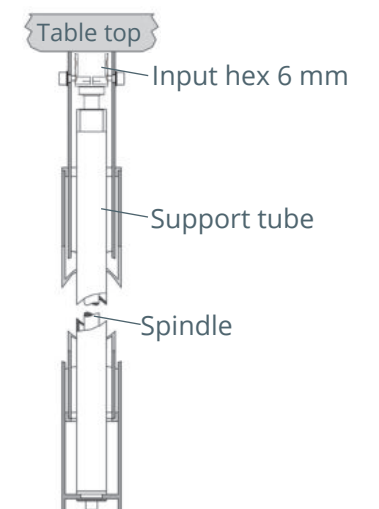
View X
(Rotation stop)



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](https://www.ketterer.de/en/downloads/instructions)

Application example



Bevel gear with synchronous 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 construction lengths.

Special features

- Double speed through synchronous telescope design
- Maximum stroke with minimum installation dimension
- With gear head 3039 or 3045
- Ratio 1:1 or 1:2
- Drive torque on gear head: 4 Nm or 5.5 Nm
- Hardened steel bevel wheels with robust, reinforced toothing
- Ideal for electromotive drives
- Available in different construction lengths
- On request the version without central pipe connection is possible

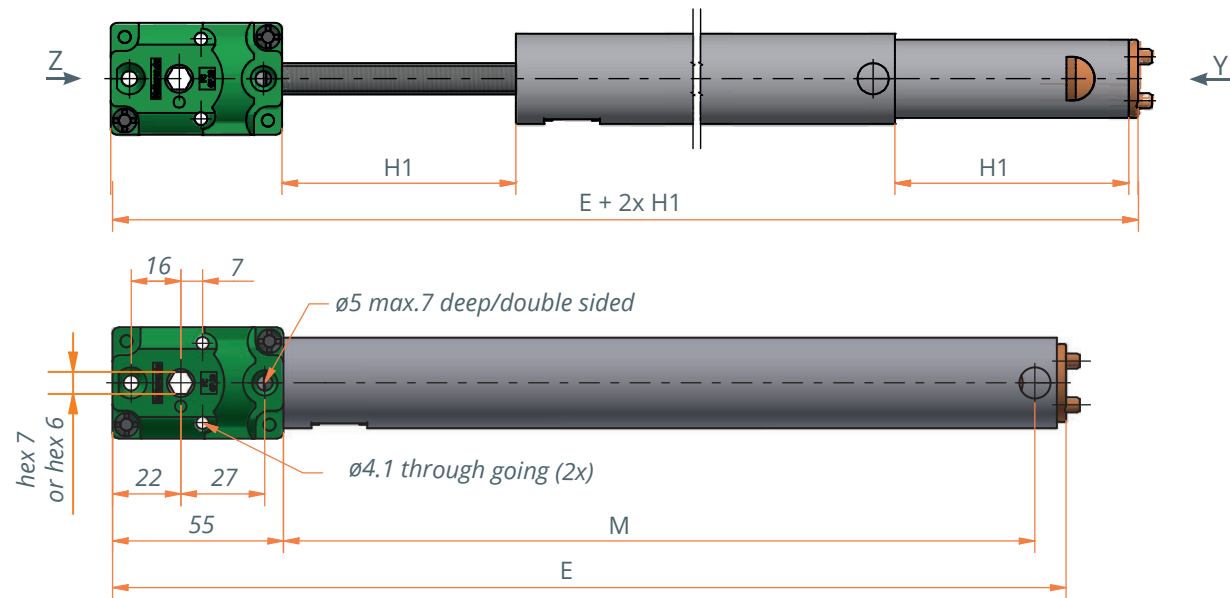
	Gear head variants		
	Vx1 and Vx4 4115.00-Vx1ExxxMxxx 4115.00-Vx4ExxxMxxx	Vx3 and Vx5 4115.00-Vx3ExxxMxxx 4115.00-Vx5ExxxMxxx	Vx2 4115.00-Vx2ExxxMxxx
Gear head	3045	3045	3039
Ratio	i= 1:1	i= 1:2	i= 1:1
Gearbox input	hex 6 mm or hex 7 mm	hex 6 mm or hex 7 mm	hex 6 mm
Installation length E (XXX) Special lengths on request	In the standard: min. 485 mm - max. 560 mm		In the standard: min. 485 mm - max. 560 mm
Stroke (485 mm ≤ E ≤ 560 mm)	656 mm Special stroke lengths on request		
Max. drive torque per gearbox	5.5 Nm	5.5 Nm	4 Nm

Variant key

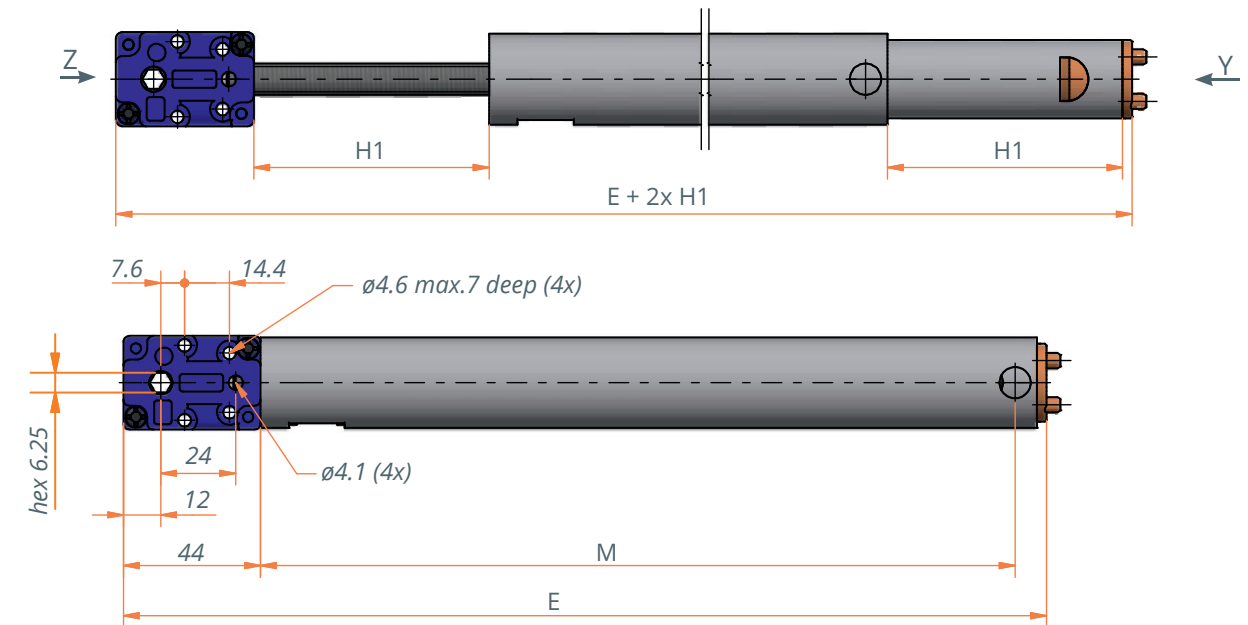
4115.00 Bevel gear with synchronous telescopic spindle				
Type of spindle				
V0	Spindle pitch 2x10 mm: SG20x10 P2 / SG10x10 P2			
V1	Spindle pitch 2x20 mm: SG20x20 P2 / SG10x20 P2			
Gear head variant				
	Type	Ratio	Gearbox input	
1	Gear head 3045	i=1:1	hex 7 mm	
3	Gear head 3045	i=1:2	hex 7 mm	
4	Gear head 3045	i=1:1	hex 6 mm	
5	Gear head 3045	i=1:2	hex 6 mm	
2	Gear head 3039	i=1:1	hex 6 mm	
Installation length E (s. drawing)				
Exxx	Length XXX in mm			
Dimension center tube connection M (s. drawing)				
Mxxx	Dimension XXX in mm			
4115.00-	V0	1	Exxx	Mxxx

Type of spindle V0: Spindle pitch 2 x 10 mm	Max. load	90 kg	40 kg	80 kg
	Required drive torque	4.5 Nm	4.5 Nm	4 Nm
	Travel distance / Revolution Synchronous spindle movement	20 mm/rotation	40 mm/rotation	20 mm/rotation
Type of spindle V1: Spindle pitch 2 x 20 mm	Max. load	50 kg	25 kg	40 kg
	Required drive torque	5.5 Nm	5.5 Nm	4 Nm
	Travel distance / Revolution Synchronous spindle movement	40 mm/rotation	80 mm/rotation	40 mm/rotation

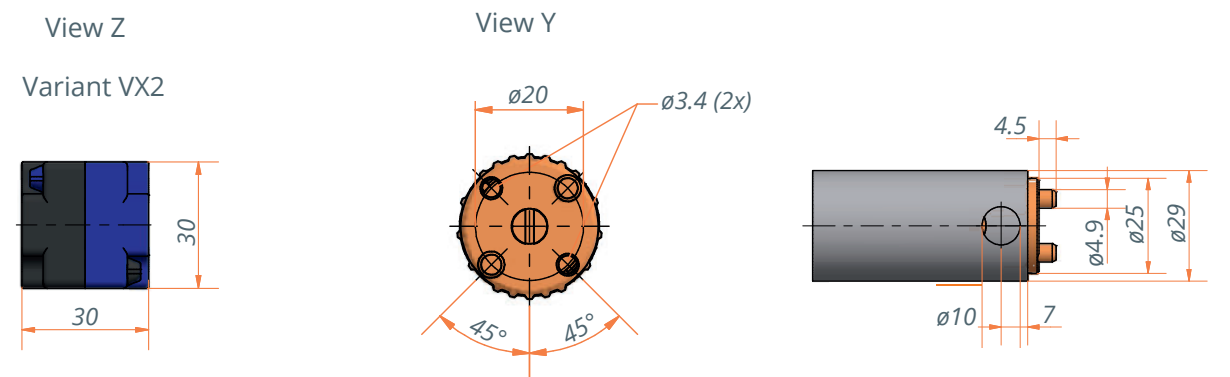
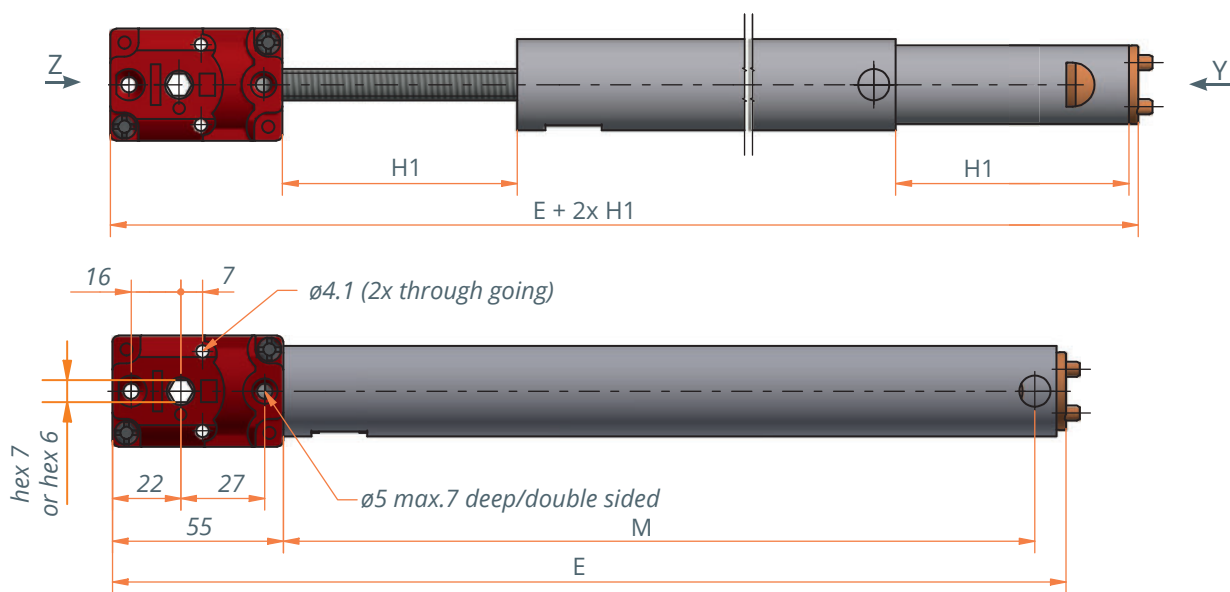
4115.00-VX3EXXXMXXX with gear head 3045 (i=1:2)
 4115.00-VX5EXXXMXXX with gear head 3045 (i=1:2)



4115.00-VX2EXXXMXXX with gear head 3039 (i= 1:1)



4115.00-VX1EXXXMXXX with gear head 3045 (i=1:1)
 4115.00-VX4EXXXMXXX with gear head 3045 (i=1:1)

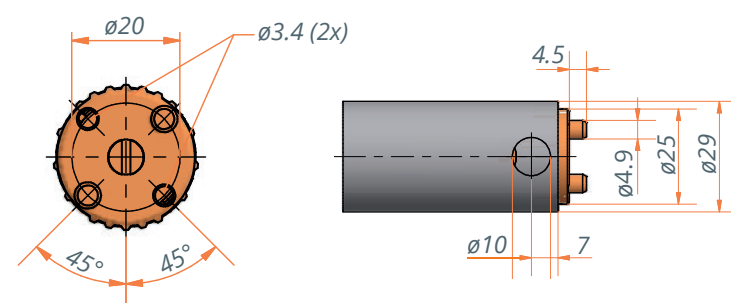
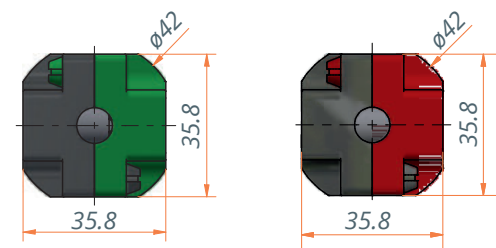


View Z

View Y

Variant VX3/VX5

Variant VX1/VX4



Technical notes

- The lifting units must be protected against lateral forces by a separate guide system.
- Attention: The spindle systems with a spindle pitch $\geq 3\text{mm}$ 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>

Synchronous telescopic spindle unit 4115.14



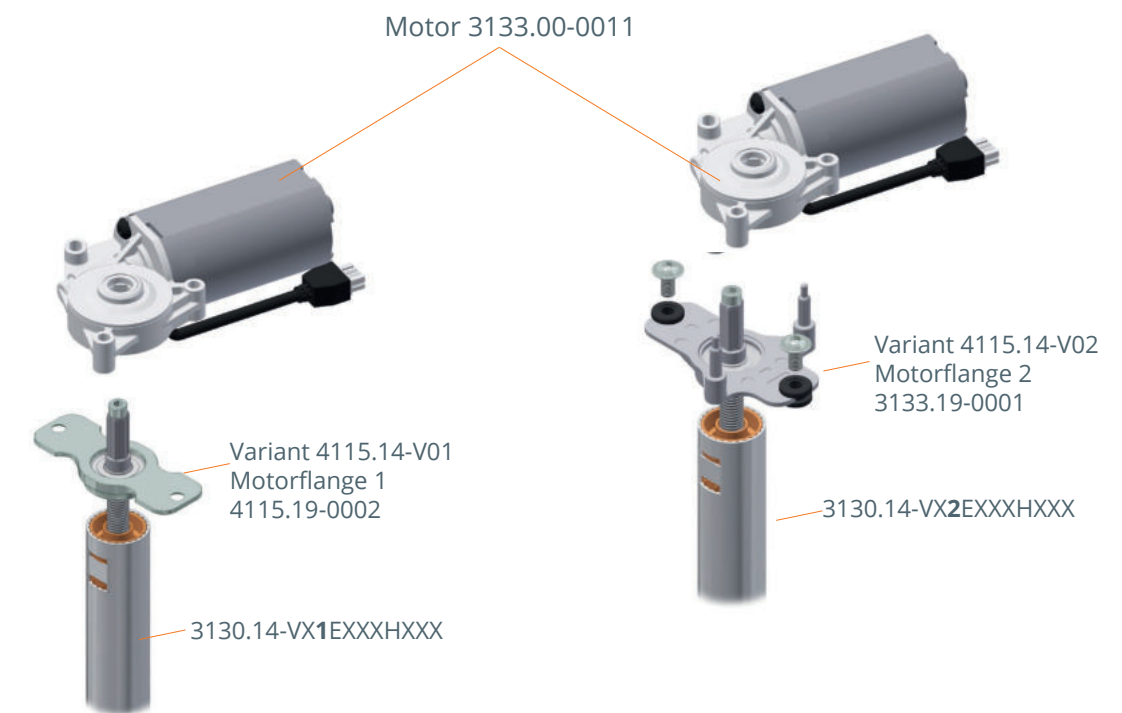
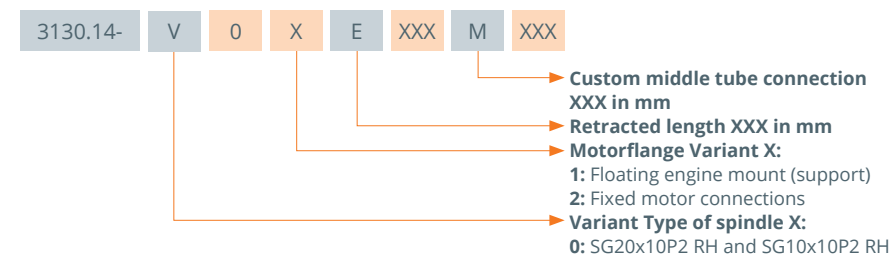
Description

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 construction lengths.

Special features

- Double speed through synchronous telescope design
- Maximum stroke with minimum installation dimension
- Ideal for electromotive drives
- Available in different construction lengths
- On request the version without central pipe connection is possible

Variant key



Technical data

Model	4115.14-V02EXXXMXXX V01EXXXMXXX
Type of spindle	SG20x10P2 RH SG10x10P2 RH
Travel path	20 mm/rotation synchronous spindle movement
Traverse speed*	40 mm/s*
Retracted length E	customized min. 476 mm, max. 560 mm
Max. Stroke H** (2x H1)	720 mm
Max. lifting force	dyn. 900 N stat. 900 N
Required drive torque	3.3 Nm

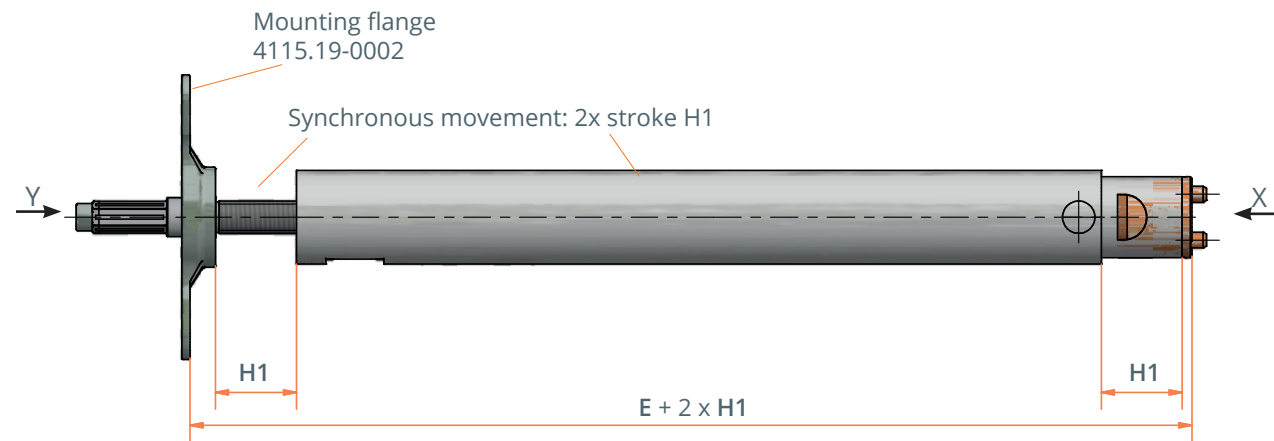
* In combination with motor 3133 and the LogicData controll box Compact-3

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

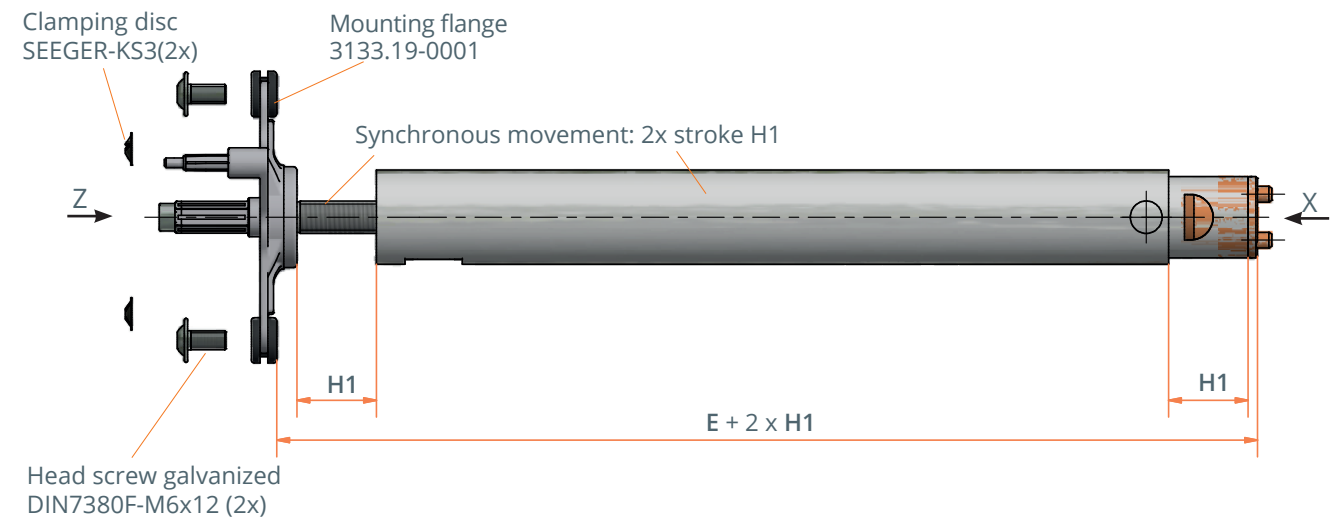
Technical notes

- The lifting units must be protected against lateral forces by a separate guide system.
- Attention: The spindle systems with a spindle pitch ≥ 3 mm 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>

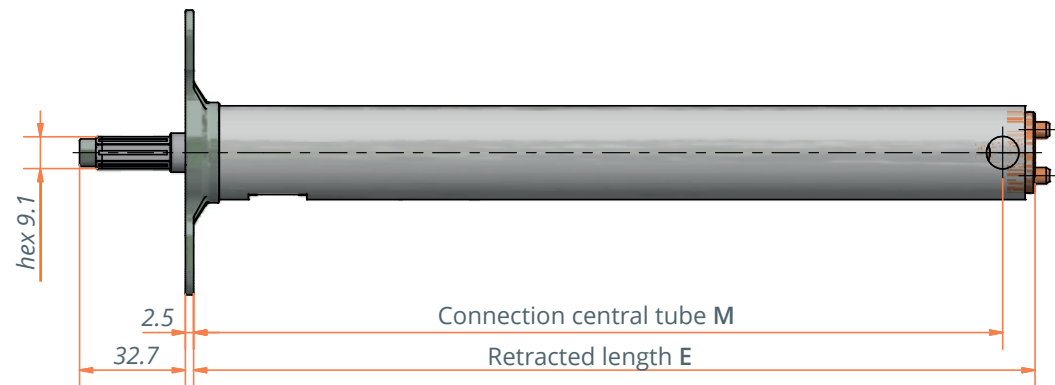
Variants 4115.14-V01EXXXMXXX
Lifting unit extended



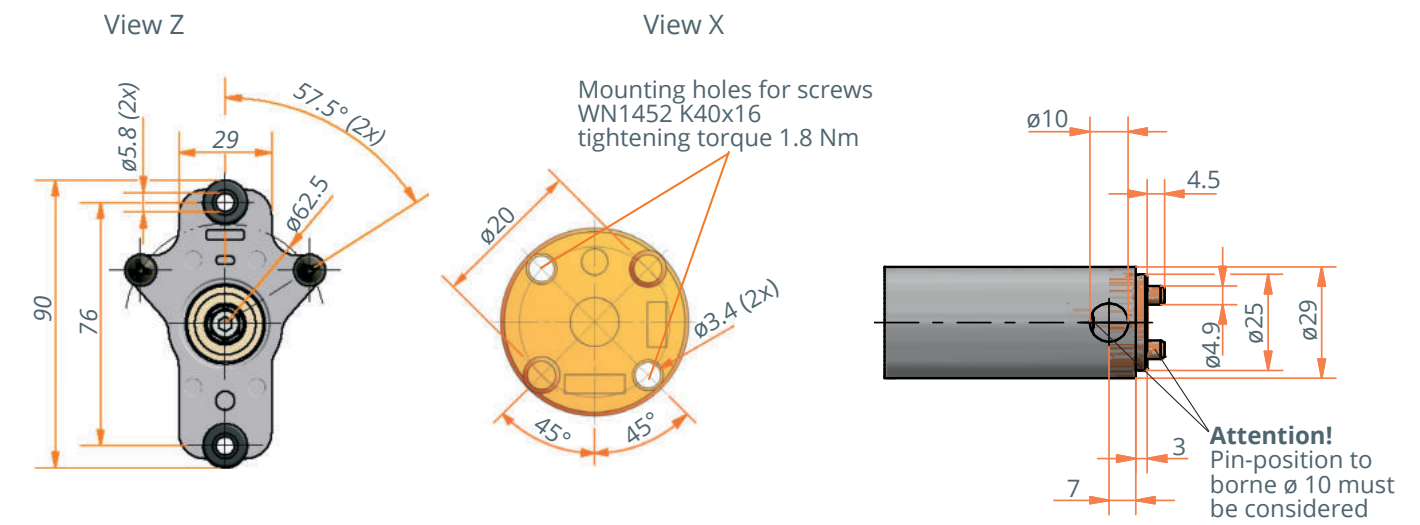
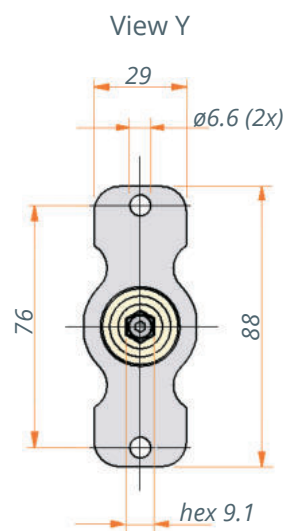
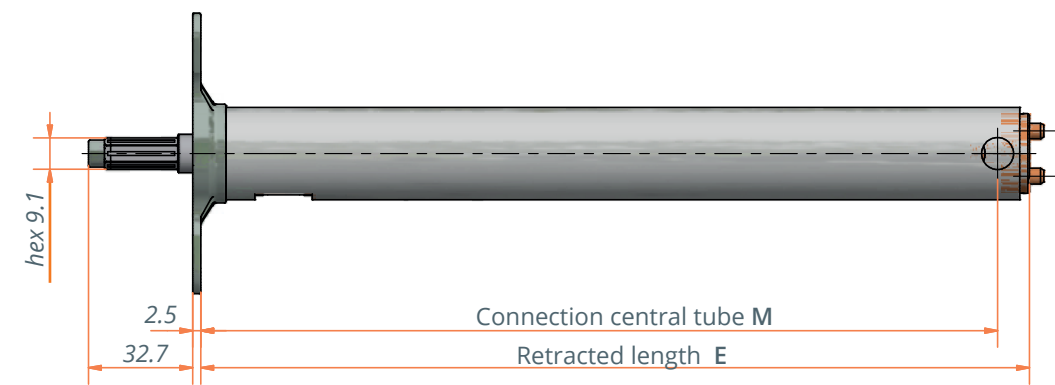
Variants 4115.14-V02EXXXMXXX
Lifting unit extended



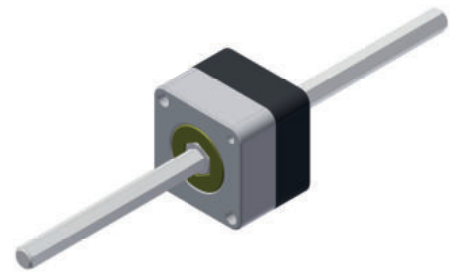
Lifting unit retracted



Lifting unit retracted



Brake unit 3052.09



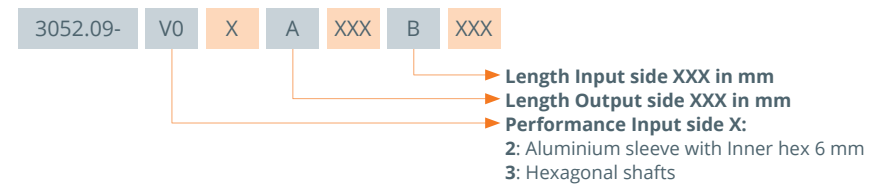
Description

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

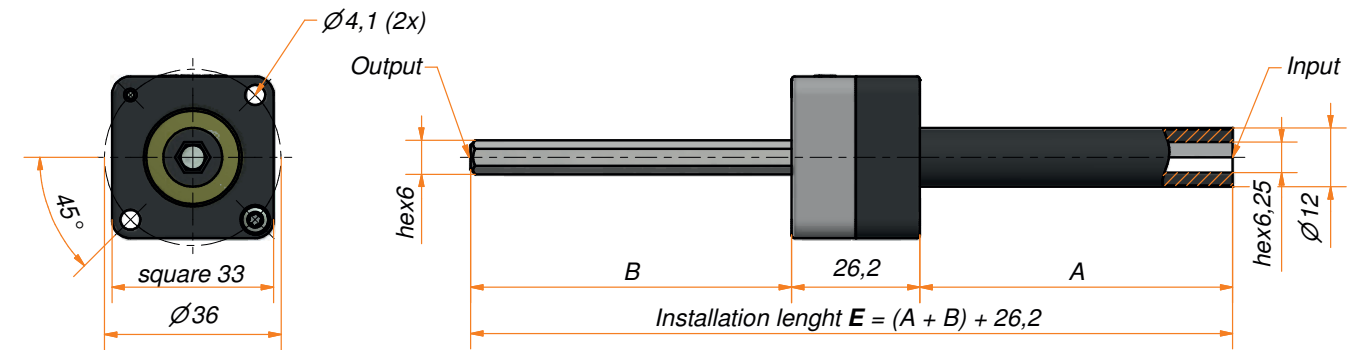
Special features

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

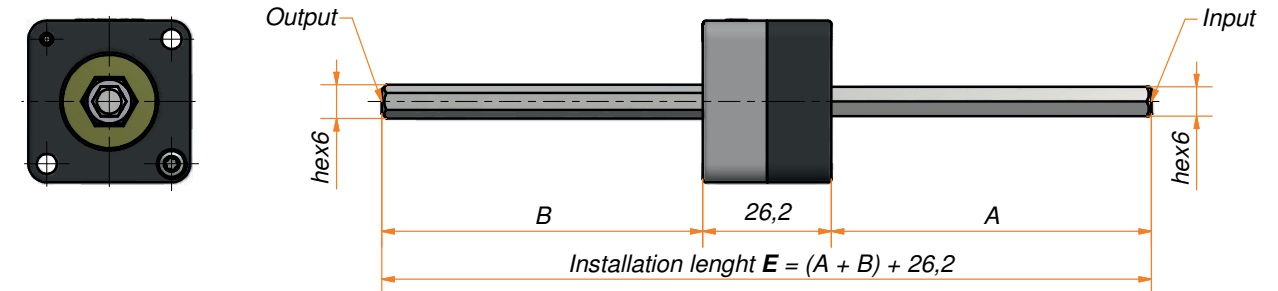
Variant key



3052.09-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: Crank body steel

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 specific solutions can be realized rapidly at a competitive price, by use of a production method which does not depend on specific tools or designs

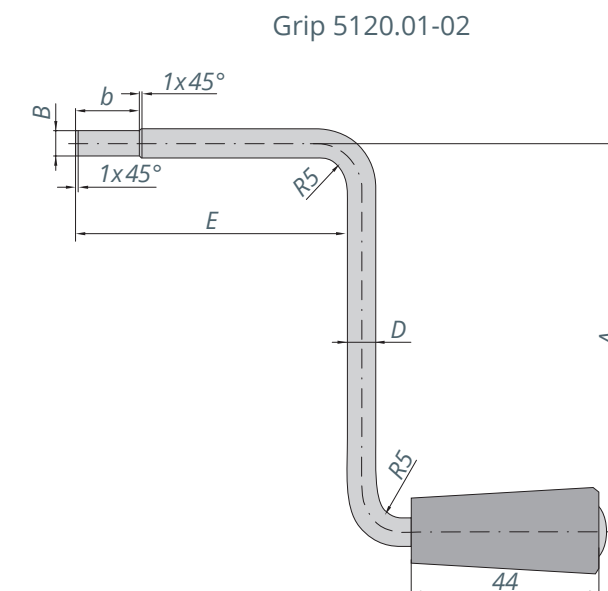
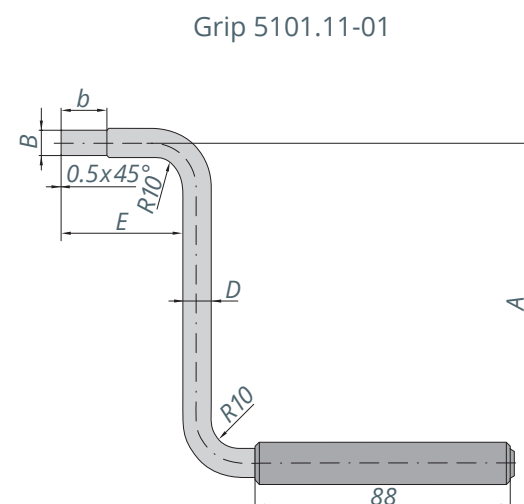


Crank-handles with grip 5101.11-01

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

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
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-handle 5180

Description

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

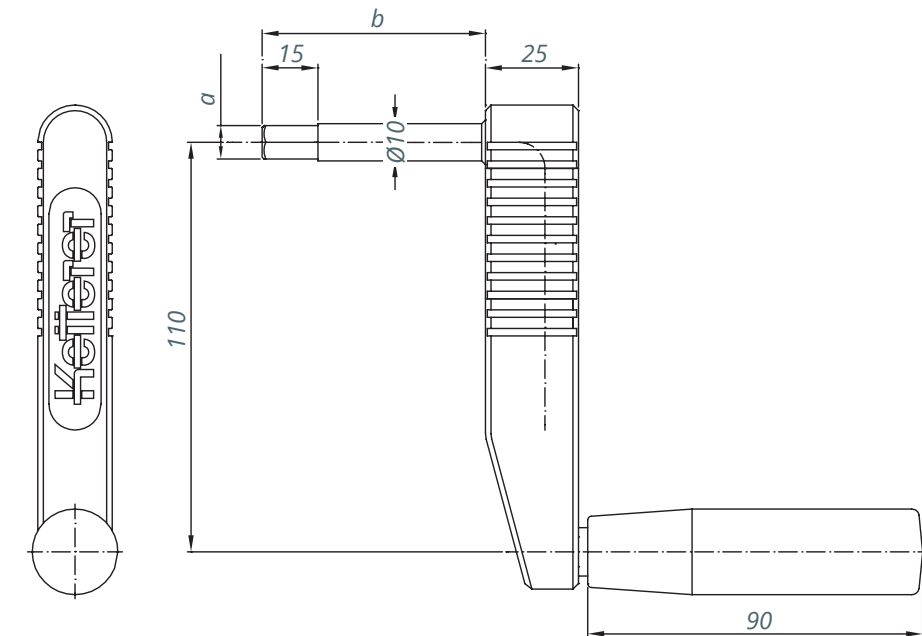
Special features

- 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

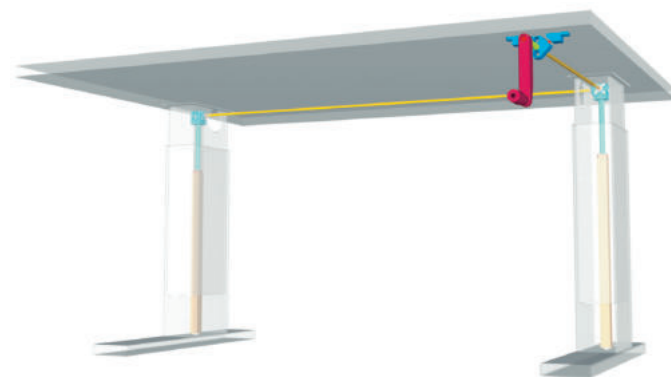


Technical data

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.

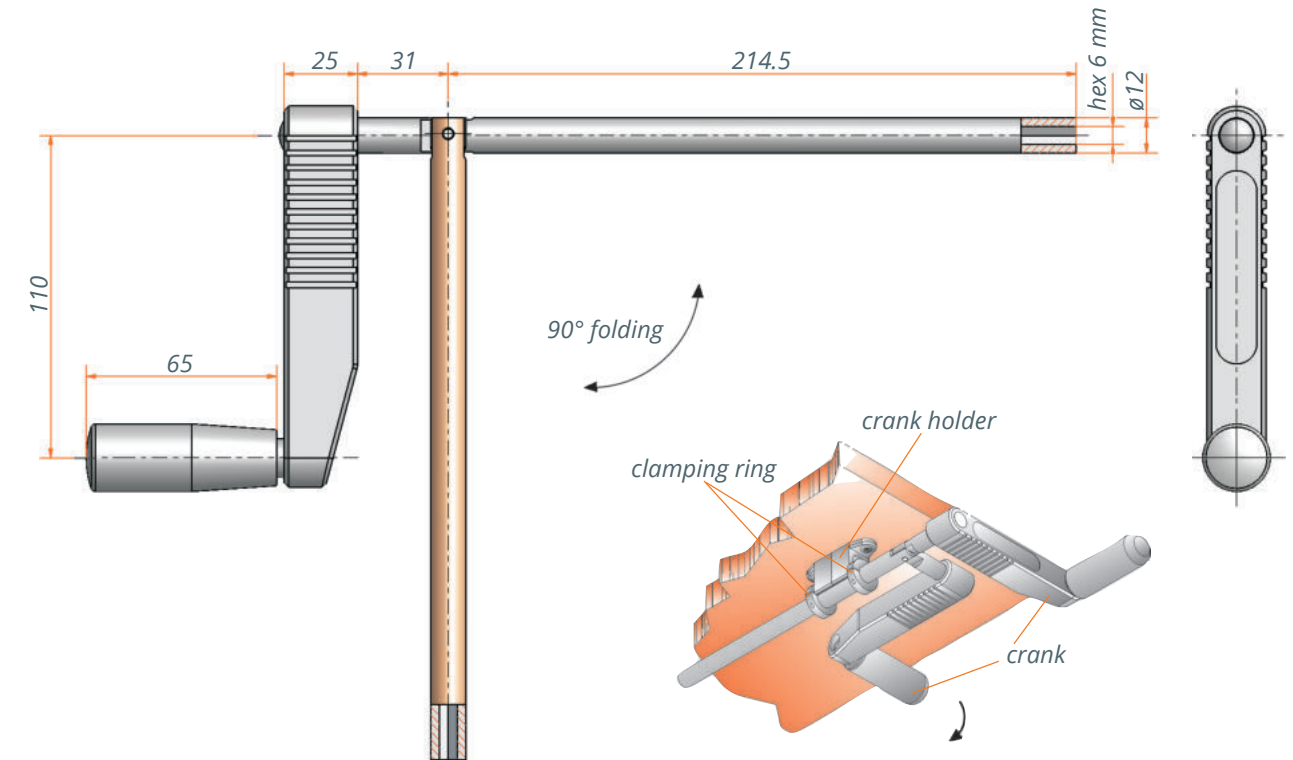
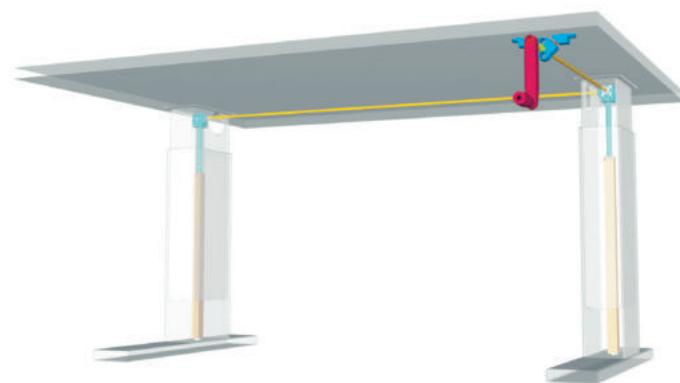
Special features

- 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

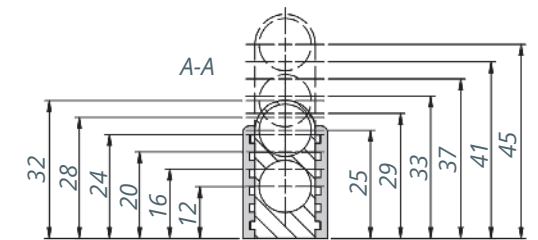
Model	5186
Crank extension	110 mm
Type of hexagonal bolt	Inner hex 6 mm
Dynamic torque	2 Nm

Application example



Technical notes

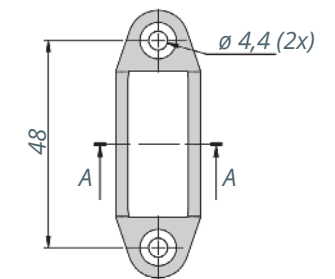
- Crank holder, made of black synthetic material, for a 12 mm diameter crank shaft. The holder can be adjusted from a height of 12 mm up to 45 mm.
- Clamping ring, made of black synthetic material, for shaft with diameter 12 mm. You need 2 clamping rings to secure the crank shaft on the crank holder.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



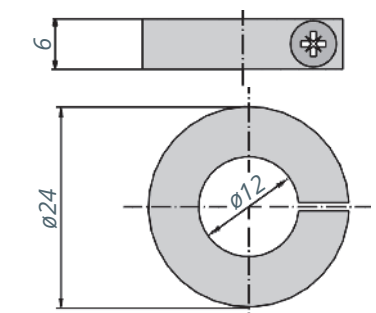
Possible adjustment heights



Crank holder
Order number 5186.19-0000



Clamping ring
Order number 5186.10-0001



Crank-handle 5187



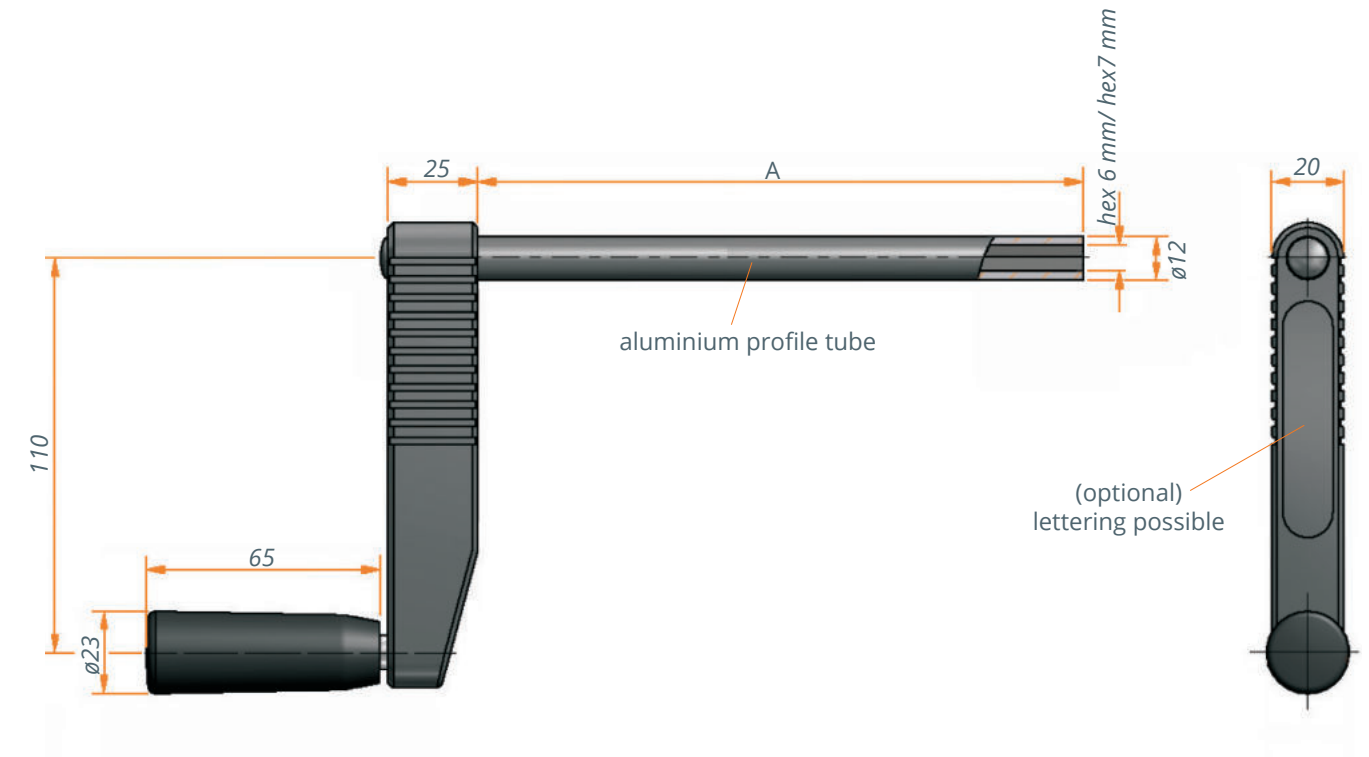
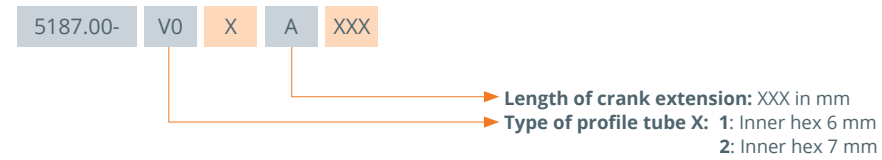
Description

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

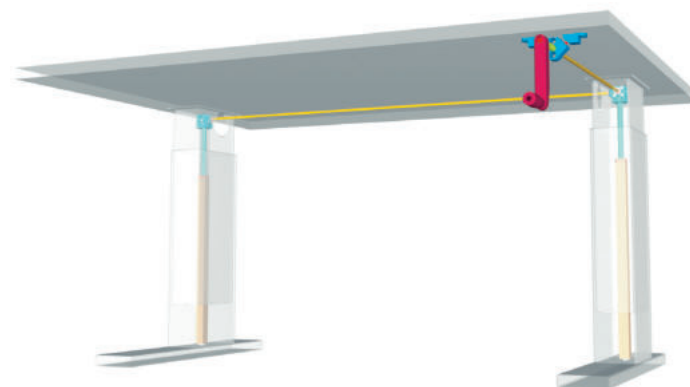
Variant key



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



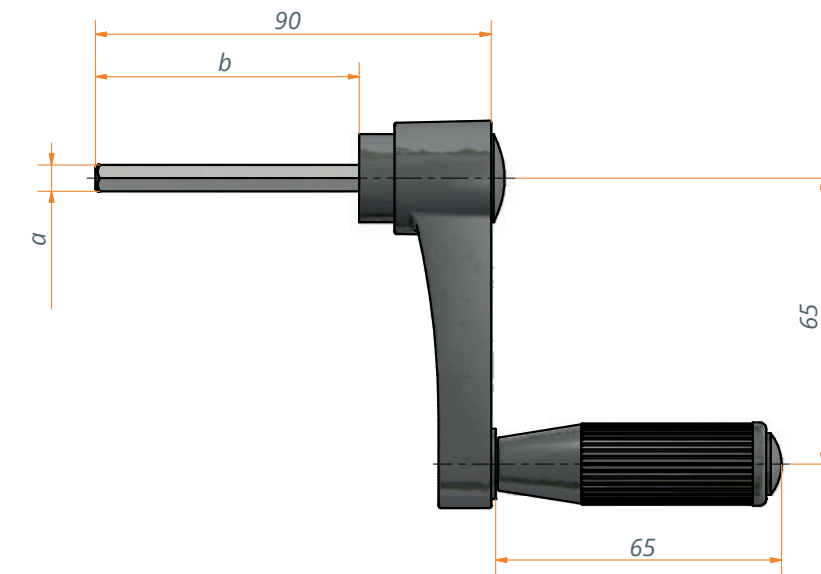
Crank-handle 5190

Description

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

Special features

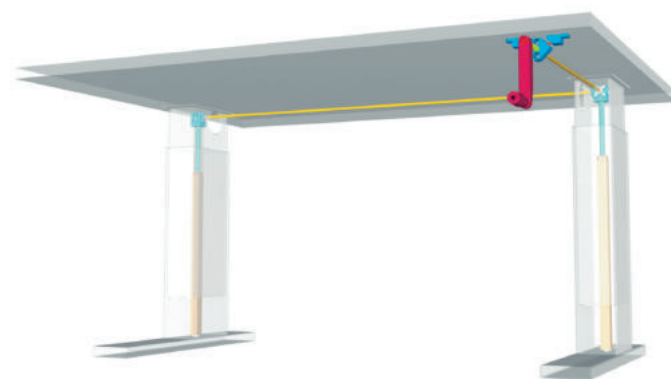
- Modern design
- On request, the type and the length of the hexagonal bolt as well as the colour of the crank body can be produced to customer specifications



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-e-3



Description

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

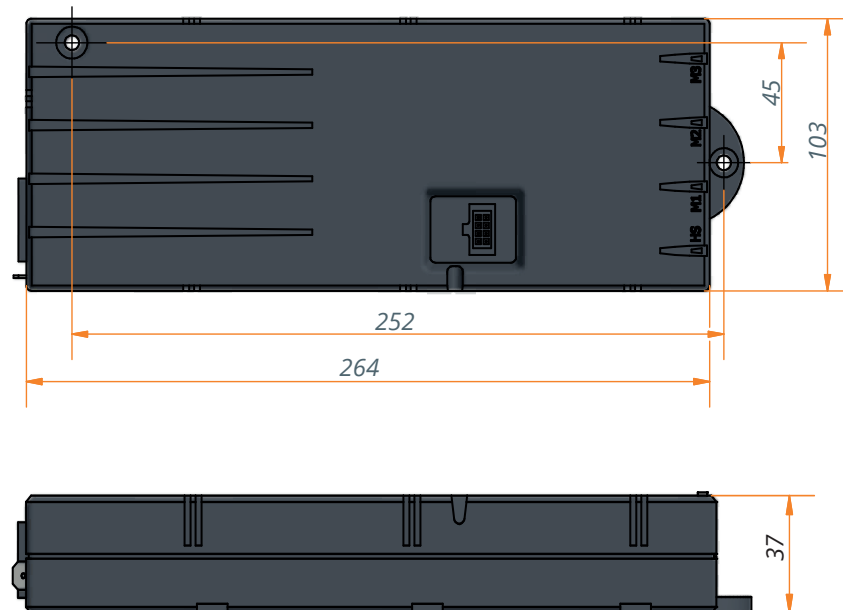
With one control unit can be controlled:

- 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 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
- 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	(4778, 4779)**
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	
1000.49-47 / Compact-e-3-KTS-4779-US	one to three motors parallel	(3143.00-V01/ V02)* (4114, 4630, 4773) * 4643 **
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	
1000.49-11 / Compact-e-3-KTS-4630-US	one to three motors parallel	3143.00-V03**
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	(3120, 3121, 3130)**
1000.49-38 / Compact-e-3-KTS-3143.00-V03-US	one to three motors parallel	
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	3122 **
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	
1000.49-14 / Compact-e-3-2-KTT-3130-US	two motors synchronous	3133.00
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	3133.48 **
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	3133.48 **
1000.49-19 / Compact-e-3-KTS-3133.00-US	one to three motors parallel	
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	3133.48 **
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	
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

- 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 shorter-duty cycle than controllers and are thus system-leading.

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
3143.47-0003/ Receiver, remote control	RF remote control consisting of RF receiver, remote control (including battery and mounting screws), and manual

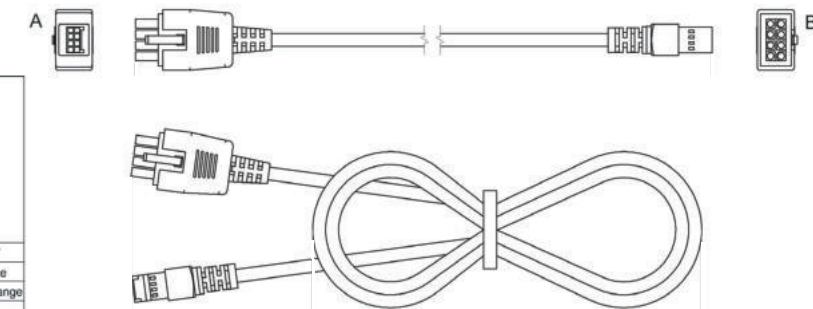
* Further details under <http://www.logicdata.at>

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

AMP - Serie HE 14 plug allocation

A			B		
1	3	5	7	4	5
2	4	6	8	3	6
3	5	7	1	2	7
4	6	8	2	1	8

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

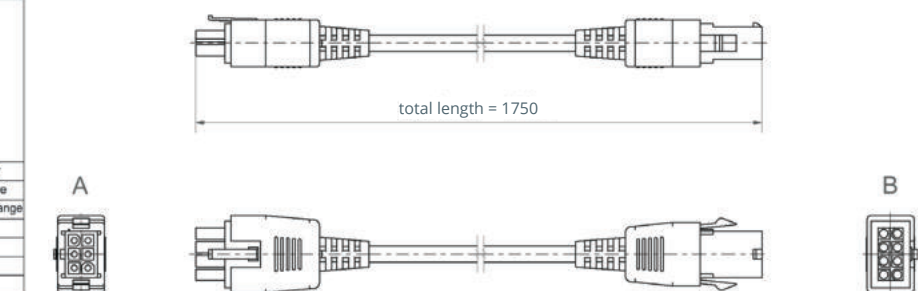


Motor cable 3122.53-02: 1.75 m long

AMP - 172160 plug allocation

A			B		
1	4	5	4	5	6
2	5	6	3	6	7
3	6	1	2	7	8
4	1	2	1	8	

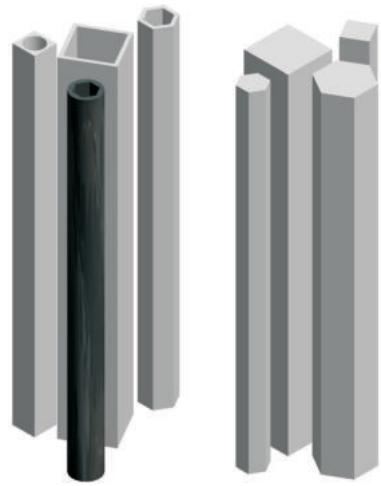
Pin-No.	signal	colour	Pin-No.	signal	colour
1	motor blue	black, blue	4	motor blue	black, blue
2	motor red	brown, orange	8	motor red	brown, orange
3	+5VDC, reverb	red	2	+5VDC, reverb	red
4	reverb-signal 2	green	5	reverb-signal 2	green
5	GND, reverb	gray	3,7	GND, reverb	gray
6	reverb-signal 1	violet	1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



Technical 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 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

Profile tubes drawn according to DIN EN 10305

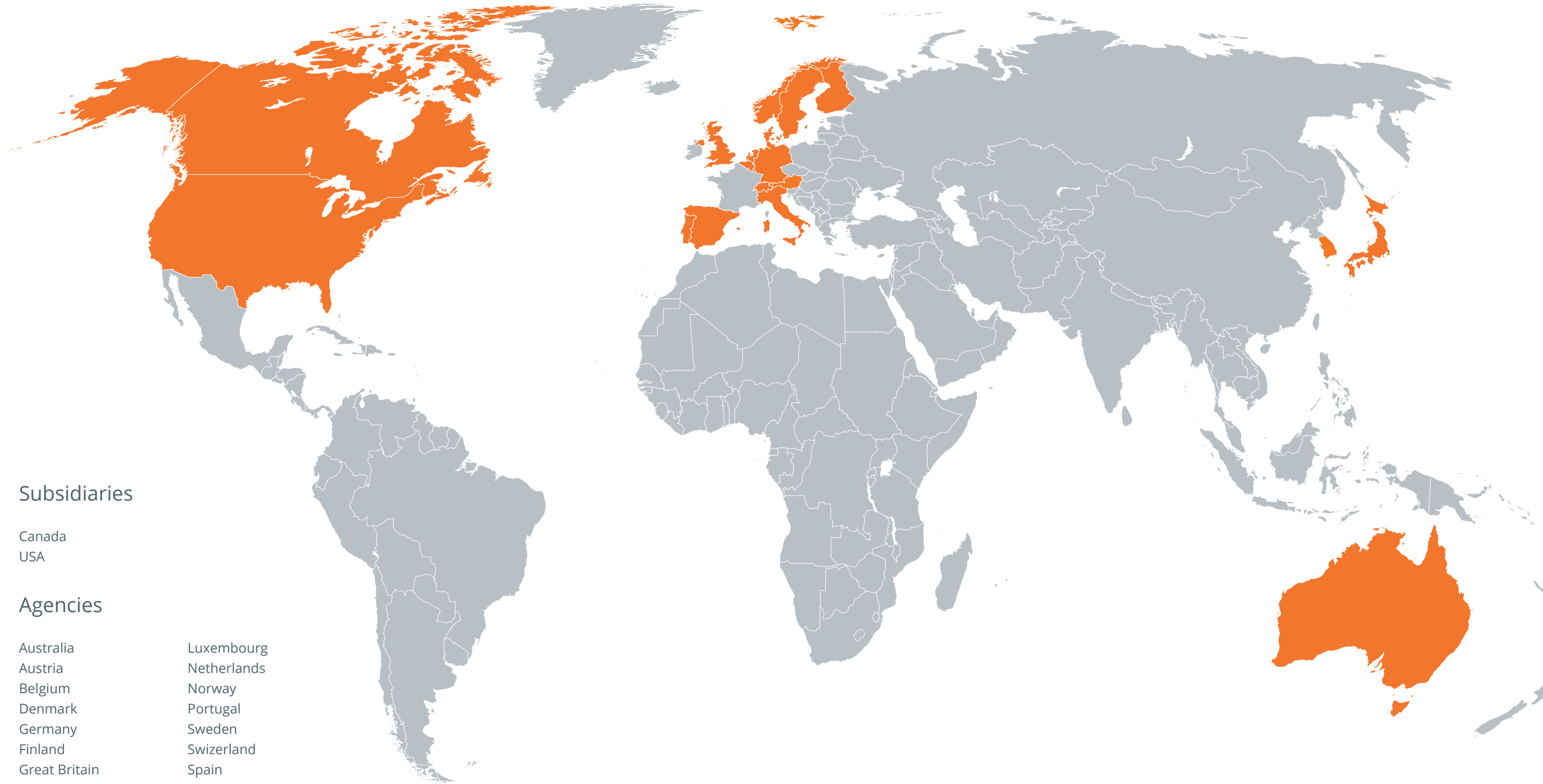
Item number Steel version	Item number Brass version	Item number Aluminium black (anodized) Aluminium-tube DIN 17611 / quality E6	Outer dimension	Inner dimension
209R0.08.0-6kt5	-	-	Ø8	hex 5 mm
209R0.09.0-6kt6-SL	-	-	Ø9	hex 6 mm
209R0.10.0-6kt6	-	-	Ø10	hex 6 mm
209R0.10.0-6kt7	-	-	Ø10	hex 7 mm
209R0.12.0-4kt7	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.

Profile 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
209S6.08.0	203V6.08.0	hex 8 mm
209S6.09.0		hex 9 mm
209S6.12.0	203V6.12.0	hex 12 mm

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B. Ketterer Söhne GmbH & Co. KG
Bahnhofstrasse 20
78120 Furtwangen
Germany

Phone: +49 7723 6569-10
Mail: info@ketterer.de
Web: www.ketterer-drives.com

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