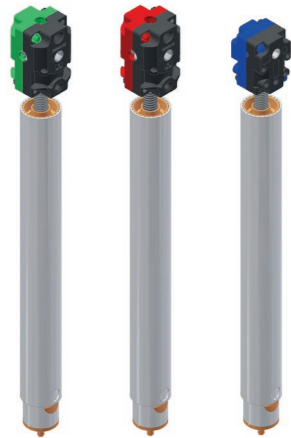


# Bevel gear with synchronous telescopic-spindle 4115.00



## 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

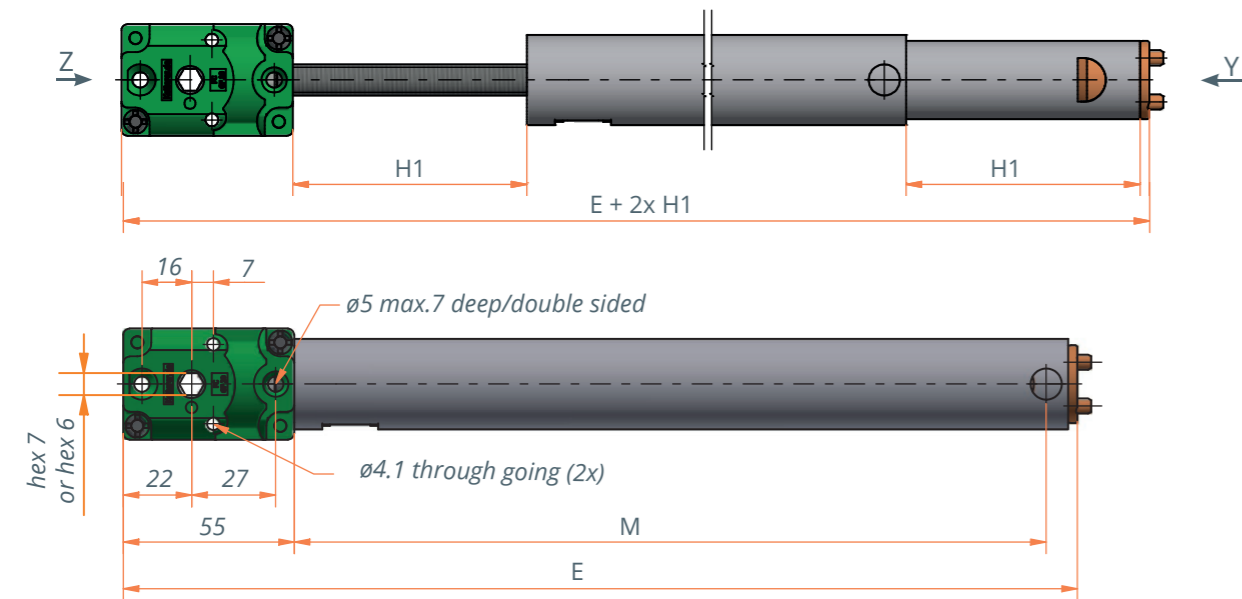
## Variant key

4115.00 Bevel gear with synchronous telescopic spindle					
<b>Type of spindle</b>					
V0	Spindle pitch 2x10 mm: SG20x10 P2 / SG10x10 P2				
V1	Spindle pitch 2x20 mm: SG20x20 P2 / SG10x20 P2				
<b>Gear head variant</b>					
	<b>Type</b>	<b>Ratio</b>	<b>Gearbox input</b>		
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		
<b>Installation length E (s. drawing)</b>					
Exxx	Length XXX in mm				
<b>Dimension center tube connection M (s. drawing)</b>					
Mxxx	Dimension XXX in mm				
4115.00-	V0	1	Exxx	Mxxx	

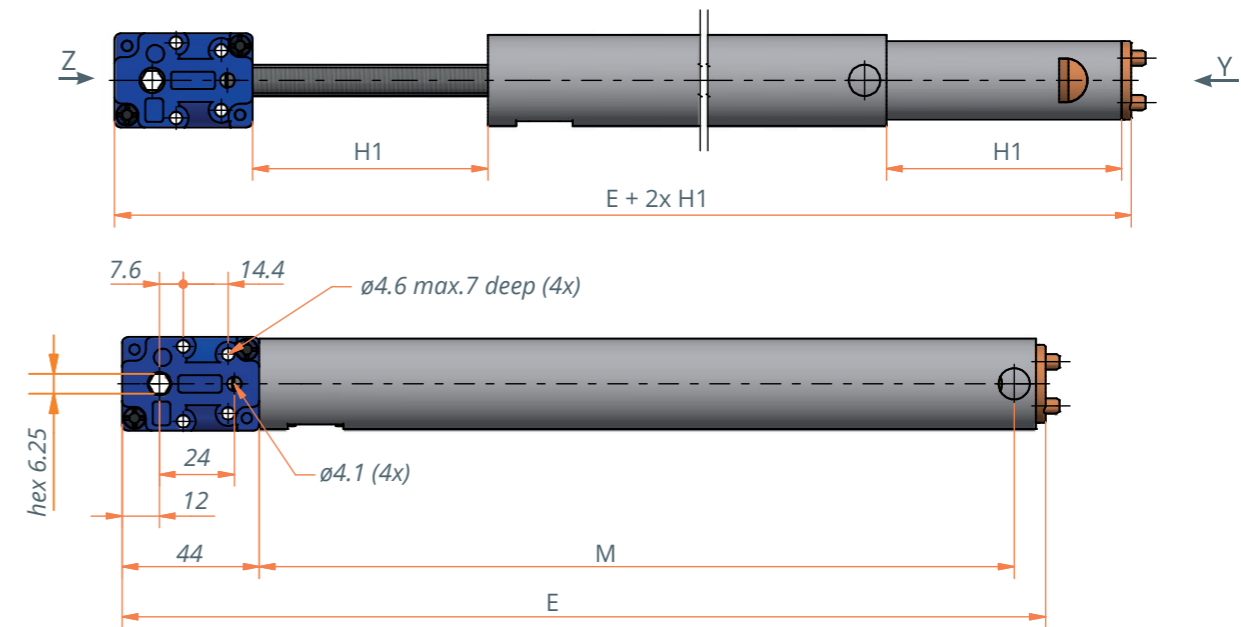
	Gear head variants		
	Vx1 and Vx4 4115.00-Vx1ExxxMxxx 4115.00-Vx4ExxxMxxx	Vx3 and Vx5 4115.00-Vx3ExxxMxxx 4115.00-Vx5ExxxMxxx	Vx2 4115.00-Vx2ExxxMxxx
<b>Gear head</b>	3045	3045	3039
<b>Ratio</b>	i= 1:1	i= 1:2	i= 1:1
<b>Gearbox input</b>	hex 6 mm or hex 7 mm	hex 6 mm or hex 7 mm	hex 6 mm
<b>Installation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

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

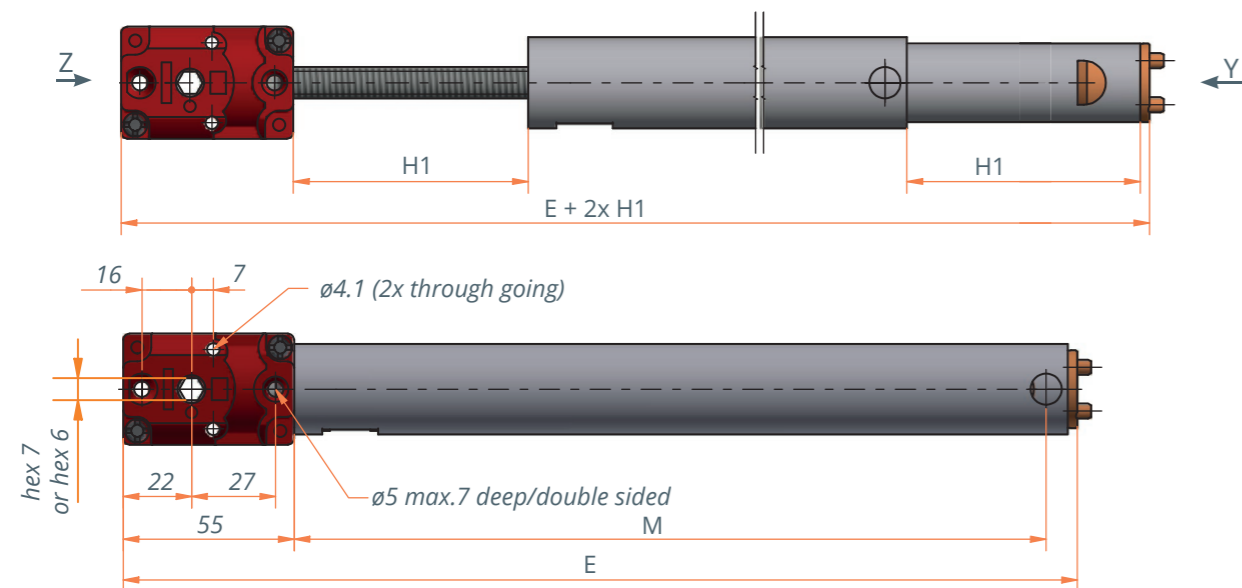
4115.00-VX3EXXXMXXX with gear head 3045 (i=1:2)  
 4115.00-VX5EXXXMXXX with gear head 3045



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



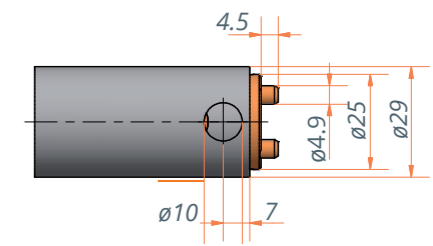
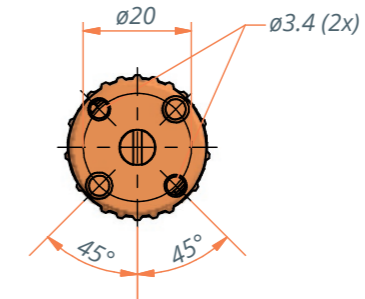
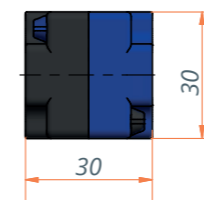
4115.00-VX1EXXXMXXX with gear head 3045 (i=1:1)  
 4115.00-VX4EXXXMXXX with gear head 3045



View Z

View Y

Variant VX2

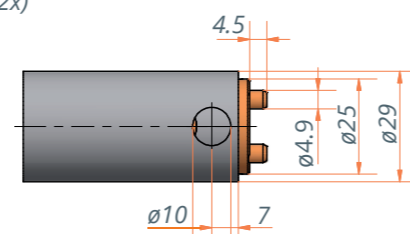
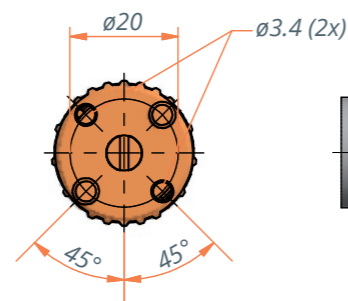
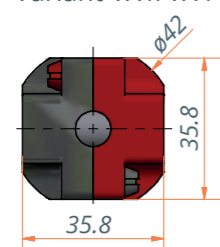
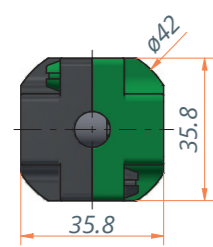


View Z

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