



## INDEX MS40-8

Tool holder

Overview

## **Note on applicability**

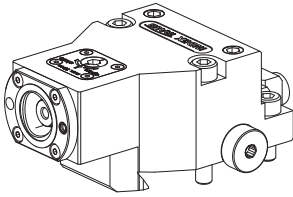
Illustrations in this publication may deviate from the product supplied. Errors and omissions due to technical progress expected.

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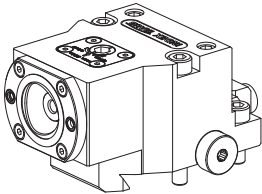
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# Stationary tool holder Cross Slide Unit 1.1 - 8.2



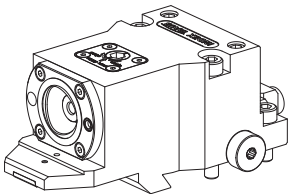
## 11091548 Clamping unit

<b>Fixation</b>	–
<b>Mounting</b>	INDEX TRAUB CAPTO C3
<b>Cooling</b>	internal, $p_{\max}$ 80 bar
<b>X / Y / Z</b>	43 (1.69) / – / 33 (1.30) mm (")



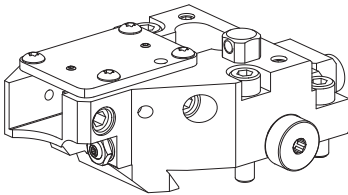
## 1108860 Clamping unit

<b>Fixation</b>	–
<b>Mounting</b>	INDEX TRAUB CAPTO C4
<b>Cooling</b>	internal, $p_{\max}$ 80 bar
<b>X / Y / Z</b>	34 (1.34) / – / 38 (1.50) mm (")



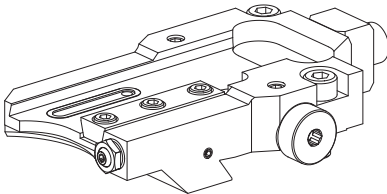
## 1108861 Clamping unit, with stop

<b>Fixation</b>	–
<b>Mounting</b>	INDEX TRAUB CAPTO C4
<b>Cooling</b>	internal, $p_{\max}$ 80 bar
<b>X / Y / Z</b>	50 (1.97) / – / 42 (1.65) mm (")



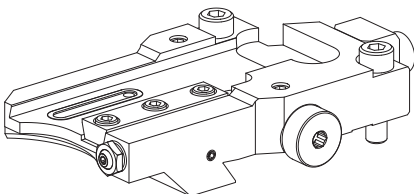
## 11088505 Grooving tool holder

<b>Fixation</b>	–
<b>Mounting</b>	square 20x20
<b>Cooling</b>	external, $p_{\max}$ 80 bar
<b>X / Y / Z</b>	48 (1.89) / – / 17.5 (0.69) mm (")



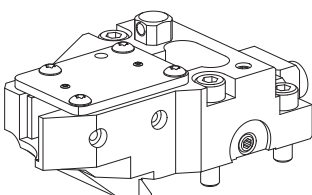
## 11088872 Grooving tool holder

<b>Fixation</b>	–
<b>Mounting</b>	Trapezoid 32x8
<b>Cooling</b>	external and internal, $p_{\max}$ 80 bar
<b>X / Y / Z</b>	56 (2.20) / – / 14.5 (0.57) mm (")



## 11088873 Grooving tool holder

<b>Fixation</b>	–
<b>Mounting</b>	Trapezoid 32x8
<b>Cooling</b>	external and internal, $p_{\max}$ 80 bar
<b>X / Y / Z</b>	56 (2.20) / – / 14.5 (0.57) mm (")

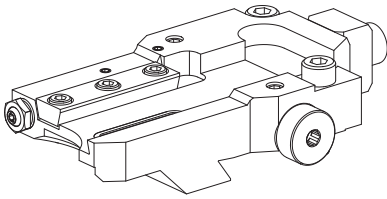


## 11088506 Grooving tool holder

<b>Fixation</b>	–
<b>Mounting</b>	square 20x20
<b>Cooling</b>	external, $p_{\max}$ 80 bar
<b>X / Y / Z</b>	48 (1.89) / – / 17.5 (0.69) mm (")

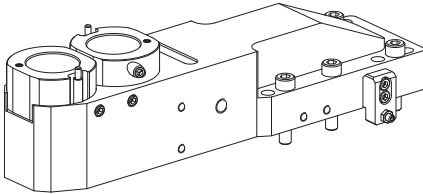
# Stationary tool holder

## Cross Slide Unit 1.1 - 8.2



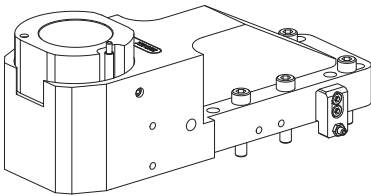
### 12008453 Grooving tool holder

<b>Fixation</b>	–
<b>Mounting</b>	Trapezoid 32x8
<b>Cooling</b>	external and internal, $p_{max}$ 30 bar
<b>X / Y / Z</b>	56 (2.20) / – / 14.5 (0.57) mm (")



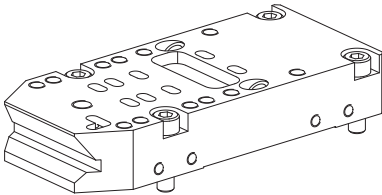
### 11089150 Basic holder

<b>Fixation</b>	–
<b>Mounting</b>	Hydraulic expansion chuck D36
<b>Cooling</b>	–
<b>X / Y / Z</b>	– / – / 80.5 (3.17) mm (")



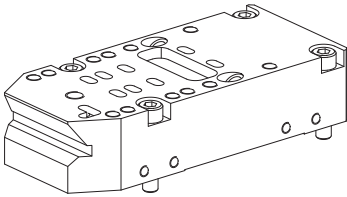
### 11093238 Basic holder

<b>Fixation</b>	–
<b>Mounting</b>	Hydraulic expansion chuck D51
<b>Cooling</b>	–
<b>X / Y / Z</b>	– / – / – mm (")



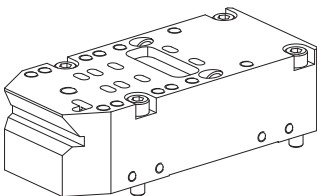
### 11095710 Distance plate

<b>Fixation</b>	–
<b>Mounting</b>	–
<b>Cooling</b>	–
<b>X / Y / Z</b>	– / – / 30 (1.18) mm (")



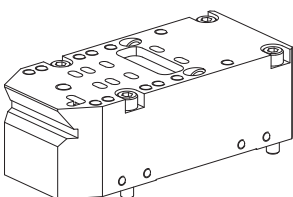
### 11095712 Distance plate

<b>Fixation</b>	–
<b>Mounting</b>	–
<b>Cooling</b>	–
<b>X / Y / Z</b>	– / – / 40 (1.57) mm (")



### 11095713 Distance plate

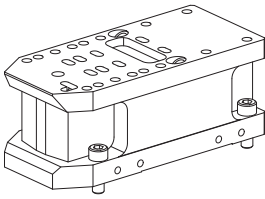
<b>Fixation</b>	–
<b>Mounting</b>	–
<b>Cooling</b>	–
<b>X / Y / Z</b>	– / – / 50 (1.97) mm (")



### 11095714 Distance plate

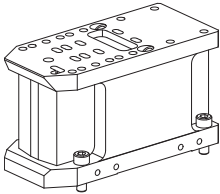
<b>Fixation</b>	–
<b>Mounting</b>	–
<b>Cooling</b>	–
<b>X / Y / Z</b>	– / – / 60 (2.36) mm (")

# Stationary tool holder Cross Slide Unit 1.1 - 8.2



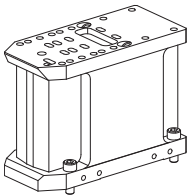
## 11089195 Distance plate

Fixation	–
Mounting	–
Cooling	–
X / Y / Z	– / – / 70 (2.76) mm (")



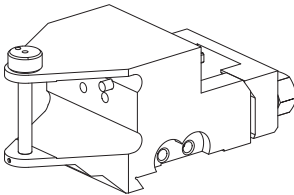
## 11089200 Distance plate

Fixation	–
Mounting	–
Cooling	–
X / Y / Z	– / – / 100 (3.94) mm (")



## 11095717 Distance plate

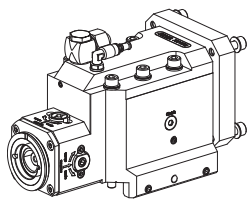
Fixation	–
Mounting	–
Cooling	–
X / Y / Z	– / – / 130 (5.12) mm (")



## 12022610 Basic holder

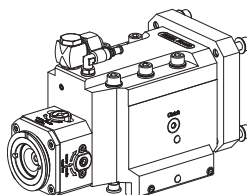
Fixation	–
Mounting	Fette T18
Cooling	–
X / Y / Z	– / – / – mm (")

# Live tool holder Cross Slide Unit 1.1 - 8.2



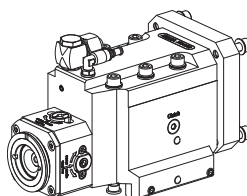
## 11082610 Milling unit

<b>Fixation</b>	–
<b>Mounting</b>	INDEX TRAUB CAPTO C3
<b>Cooling</b>	internal, $p_{\max}$ 80 bar
<b>Speed ratio</b>	1:2 (0.5)
<b>X / Y / Z</b>	51 (2.01) / – / 30 (1.18) mm (")



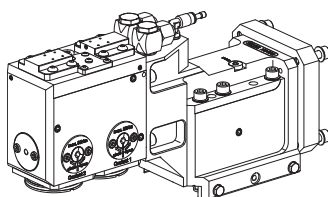
## 11082607 Milling unit

<b>Fixation</b>	–
<b>Mounting</b>	INDEX TRAUB CAPTO C3
<b>Cooling</b>	internal, $p_{\max}$ 80 bar
<b>Speed ratio</b>	1:1 (1)
<b>X / Y / Z</b>	51 (2.01) / – / 30 (1.18) mm (")



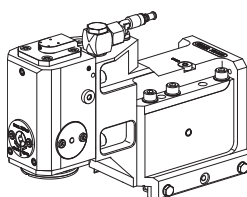
## 11082608 Milling unit

<b>Fixation</b>	–
<b>Mounting</b>	INDEX TRAUB CAPTO C3
<b>Cooling</b>	internal, $p_{\max}$ 80 bar
<b>Speed ratio</b>	2:1 (2)
<b>X / Y / Z</b>	51 (2.01) / – / 30 (1.18) mm (")



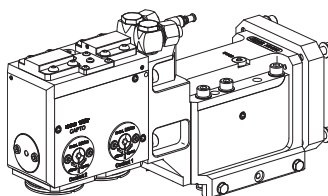
## 11082635 Milling unit, double

<b>Fixation</b>	–
<b>Mounting</b>	INDEX TRAUB CAPTO C3
<b>Cooling</b>	internal, $p_{\max}$ 80 bar
<b>Speed ratio</b>	1:2 (0.5)
<b>X / Y / Z</b>	71 + 131 (2.8 + 5.16) / – / 36.5 (1.44) mm (")



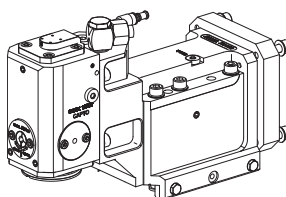
## 11082654 Milling unit

<b>Fixation</b>	–
<b>Mounting</b>	INDEX TRAUB CAPTO C3
<b>Cooling</b>	internal, $p_{\max}$ 80 bar
<b>Speed ratio</b>	1:2 (0.5)
<b>X / Y / Z</b>	71 (2.80) / – / 36.5 (1.44) mm (")



## 11082643 Milling unit, double

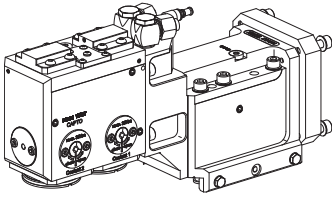
<b>Fixation</b>	–
<b>Mounting</b>	INDEX TRAUB CAPTO C3
<b>Cooling</b>	internal, $p_{\max}$ 80 bar
<b>Speed ratio</b>	1:1 (1)
<b>X / Y / Z</b>	71 + 131 (2.8 + 5.16) / – / 32.5 (1.28) mm (")



## 11082658 Milling unit

<b>Fixation</b>	–
<b>Mounting</b>	INDEX TRAUB CAPTO C3
<b>Cooling</b>	internal, $p_{\max}$ 80 bar
<b>Speed ratio</b>	1:1 (1)
<b>X / Y / Z</b>	71 (2.80) / – / 32.5 (1.28) mm (")

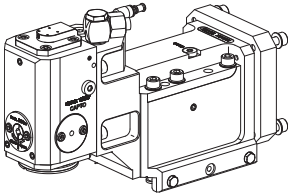
# Live tool holder Cross Slide Unit 1.1 - 8.2



## 11082640 Milling unit, double

<b>Fixation</b>	–
<b>Mounting</b>	INDEX TRAUB CAPTO C3
<b>Cooling</b>	internal, $p_{\max}$ 80 bar
<b>Speed ratio</b>	2:1 (2)
<b>X / Y / Z</b>	71 + 131 (2.8 + 5.16) / – / 32.5 (1.28) mm (")

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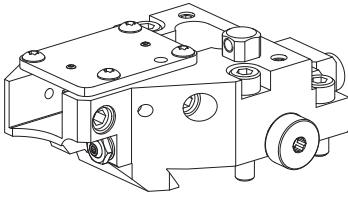


## 11082653 Milling unit

<b>Fixation</b>	–
<b>Mounting</b>	INDEX TRAUB CAPTO C3
<b>Cooling</b>	internal, $p_{\max}$ 80 bar
<b>Speed ratio</b>	2:1 (2)
<b>X / Y / Z</b>	71 (2.80) / – / 32.5 (1.28) mm (")

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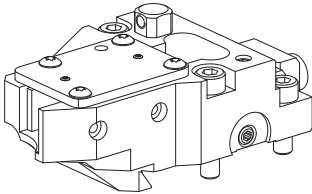
# Stationary tool holder Cross Slide Unit 7.4 / 8.4



## 11088505 Grooving tool holder

<b>Fixation</b>	–
<b>Mounting</b>	square 20x20
<b>Cooling</b>	external, $p_{\max}$ 80 bar
<b>X / Y / Z</b>	48 (1.89) / – / 17.5 (0.69) mm (")

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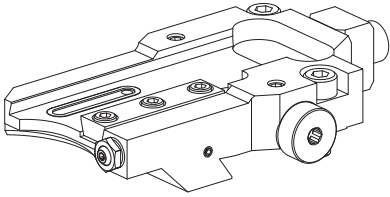
## 11088506 Grooving tool holder

<b>Fixation</b>	–
<b>Mounting</b>	square 20x20
<b>Cooling</b>	external, $p_{\max}$ 80 bar
<b>X / Y / Z</b>	48 (1.89) / – / 17.5 (0.69) mm (")

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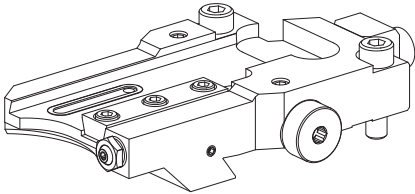


# Grooving tool holder Cross Slide Unit 8.2 / 7.1



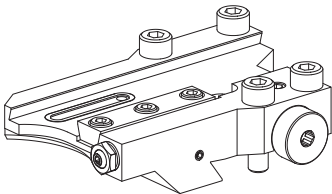
## 1108872 Grooving tool holder

<b>Fixation</b>	–
<b>Mounting</b>	Trapezoid 32x8
<b>Cooling</b>	external and internal, $p_{\max}$ 80 bar
<b>X / Y / Z</b>	56 (2.20) / – / 14.5 (0.57) mm (")



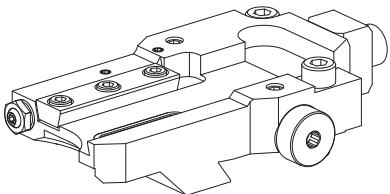
## 1108873 Grooving tool holder

<b>Fixation</b>	–
<b>Mounting</b>	Trapezoid 32x8
<b>Cooling</b>	external and internal, $p_{\max}$ 80 bar
<b>X / Y / Z</b>	56 (2.20) / – / 14.5 (0.57) mm (")



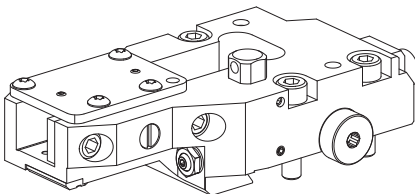
## 11097157 Grooving tool holder

<b>Fixation</b>	–
<b>Mounting</b>	Trapezoid 32x8
<b>Cooling</b>	external and internal, $p_{\max}$ 80 bar
<b>X / Y / Z</b>	56 (2.20) / – / 14.5 (0.57) mm (")



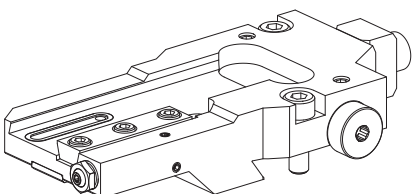
## 12008453 Grooving tool holder

<b>Fixation</b>	–
<b>Mounting</b>	Trapezoid 32x8
<b>Cooling</b>	external and internal, $p_{\max}$ 30 bar
<b>X / Y / Z</b>	56 (2.20) / – / 14.5 (0.57) mm (")



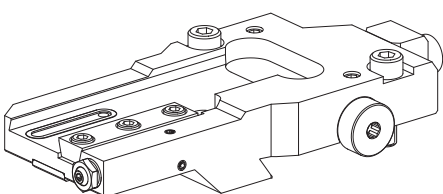
## 11088548 Grooving tool and stop holder

<b>Fixation</b>	–
<b>Mounting</b>	square 20x20
<b>Cooling</b>	external, $p_{\max}$ 80 bar
<b>X / Y / Z</b>	80 (3.15) / – / 12 (0.47) mm (")



## 11091544 Grooving tool and stop holder

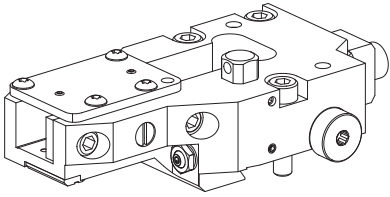
<b>Fixation</b>	–
<b>Mounting</b>	Trapezoid 32x8
<b>Cooling</b>	external and internal, $p_{\max}$ 80 bar
<b>X / Y / Z</b>	80 (3.15) / – / 14.5 (0.57) mm (")



## 11091545 Grooving tool and stop holder

<b>Fixation</b>	–
<b>Mounting</b>	Trapezoid 32x8
<b>Cooling</b>	external and internal, $p_{\max}$ 80 bar
<b>X / Y / Z</b>	80 (3.15) / – / 14.5 (0.57) mm (")

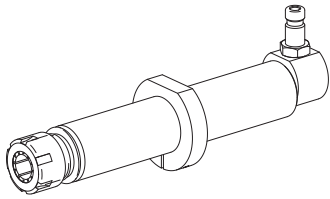
# Grooving tool holder Cross Slide Unit 8.2 / 7.1



## 11088549 Grooving tool and stop holder

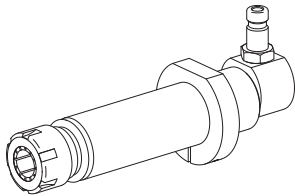
<b>Fixation</b>	–
<b>Mounting</b>	square 20x20
<b>Cooling</b>	external, $p_{\max}$ 80 bar
<b>X / Y / Z</b>	80 (3.15) / – / 12 (0.47) mm (")

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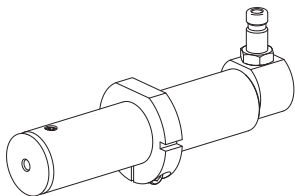
**10867971 Drilling tool holder**

**Fixation** Clamping ring D36  
**Mounting** ER 25  
**Cooling** internal,  $p_{max}$  80 bar  
**X / Y / Z** - / - / - mm (")



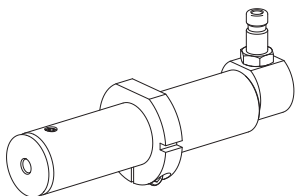
**11036224 Drilling tool holder**

**Fixation** Clamping ring D36  
**Mounting** ER 25  
**Cooling** internal,  $p_{max}$  80 bar  
**X / Y / Z** - / - / - mm (")



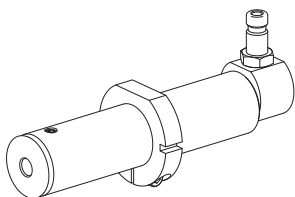
**10624002 Drilling tool holder**

**Fixation** Clamping ring D36  
**Mounting** DIN 1835 B/E D6 (0.24 ")  
**Cooling** internal,  $p_{max}$  80 bar  
**X / Y / Z** - / - / - mm (")



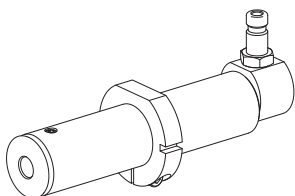
**11033416 Drilling tool holder**

**Fixation** Clamping ring D36  
**Mounting** DIN 1835 B/E D8 (0.31 ")  
**Cooling** internal,  $p_{max}$  80 bar  
**X / Y / Z** - / - / - mm (")



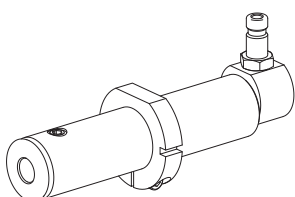
**10188538 Drilling tool holder**

**Fixation** Clamping ring D36  
**Mounting** DIN 1835 B/E D10 (0.39 ")  
**Cooling** internal,  $p_{max}$  80 bar  
**X / Y / Z** - / - / - mm (")



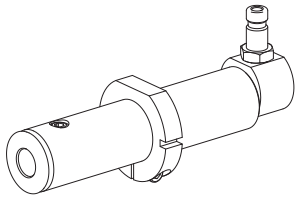
**10992978 Drilling tool holder**

**Fixation** Clamping ring D36  
**Mounting** DIN 1835 B/E D12 (0.47 ")  
**Cooling** internal,  $p_{max}$  80 bar  
**X / Y / Z** - / - / - mm (")



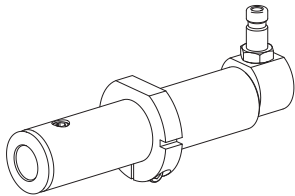
**10351267 Drilling tool holder**

**Fixation** Clamping ring D36  
**Mounting** DIN 1835 B/E D14 (0.55 ")  
**Cooling** internal,  $p_{max}$  80 bar  
**X / Y / Z** - / - / - mm (")



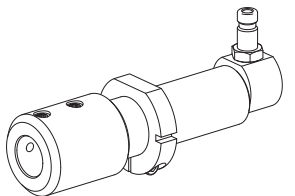
**10919338 Drilling tool holder**

**Fixation** Clamping ring D36  
**Mounting** DIN 1835 B/E D16 (0.63 ")  
**Cooling** internal,  $p_{max}$  80 bar  
**X / Y / Z** - / - / - mm (")



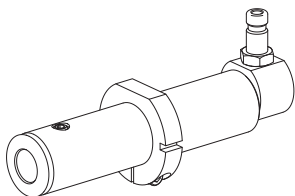
**10657118 Drilling tool holder**

**Fixation** Clamping ring D36  
**Mounting** DIN 1835 B/E D20 (0.79 ")  
**Cooling** internal,  $p_{max}$  80 bar  
**X / Y / Z** - / - / - mm (")



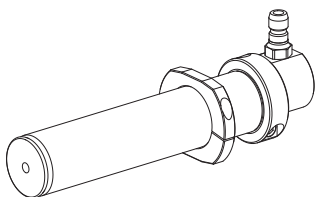
**11001357 Drilling tool holder**

**Fixation** Clamping ring D36  
**Mounting** DIN 1835 B/E D25 (0.98 ")  
**Cooling** internal,  $p_{max}$  80 bar  
**X / Y / Z** - / - / - mm (")



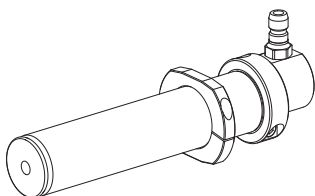
**10574393 Drilling tool holder**

**Fixation** Clamping ring D36  
**Mounting** D3/4"  
**Cooling** internal,  $p_{max}$  80 bar  
**X / Y / Z** - / - / - mm (")



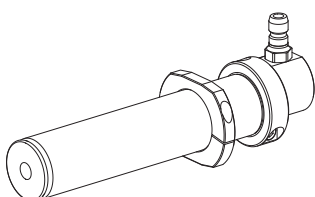
**12038373 Drilling tool holder**

**Fixation** Clamping ring D36  
**Mounting** Hydraulic expansion chuck D6  
**Cooling** internal,  $p_{max}$  80 bar  
**X / Y / Z** - / - / - mm (")



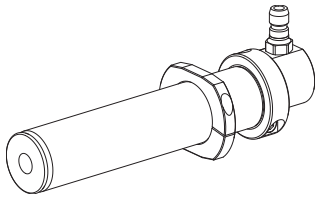
**12038374 Drilling tool holder**

**Fixation** Clamping ring D36  
**Mounting** Hydraulic expansion chuck D8  
**Cooling** internal,  $p_{max}$  80 bar  
**X / Y / Z** - / - / - mm (")



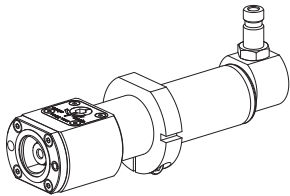
**12038375 Drilling tool holder**

**Fixation** Clamping ring D36  
**Mounting** Hydraulic expansion chuck D10  
**Cooling** internal,  $p_{max}$  80 bar  
**X / Y / Z** - / - / - mm (")



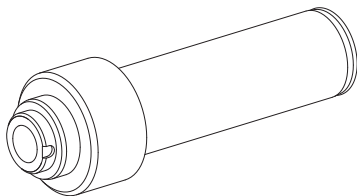
**12038376 Drilling tool holder**

<b>Fixation</b>	Clamping ring D36
<b>Mounting</b>	Hydraulic expansion chuck D12
<b>Cooling</b>	internal, $p_{max}$ 80 bar
<b>X / Y / Z</b>	- / - / - mm (")



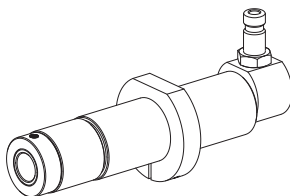
**10748386 Drilling tool holder**

<b>Fixation</b>	Clamping ring D36
<b>Mounting</b>	INDEX TRAUB CAPTO C3
<b>Cooling</b>	internal, $p_{max}$ 80 bar
<b>X / Y / Z</b>	- / - / - mm (")



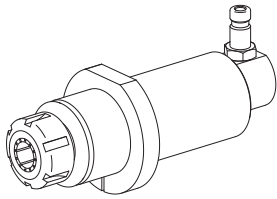
**10153941 Center holder, sprung, live**

<b>Fixation</b>	Clamping ring D36
<b>Mounting</b>	D15.4 (0.61 ") / Cone 1:7.5
<b>Cooling</b>	-
<b>X / Y / Z</b>	- / - / - mm (")



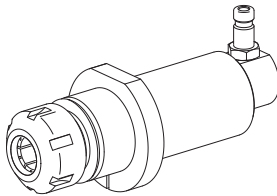
**10060556 Reaming tool holder**

<b>Fixation</b>	Clamping ring D36
<b>Mounting</b>	D16 (0.63 ")
<b>Cooling</b>	internal, $p_{max}$ 80 bar
<b>X / Y / Z</b>	- / - / - mm (")



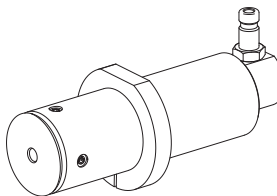
**11017697 Drilling tool holder**

**Fixation** Clamping ring D51  
**Mounting** ER 25  
**Cooling** internal,  $p_{max}$  80 bar  
**X / Y / Z** - / - / - mm (")



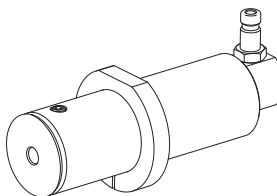
**10358202 Drilling tool holder**

**Fixation** Clamping ring D51  
**Mounting** ER 32  
**Cooling** internal,  $p_{max}$  80 bar  
**X / Y / Z** - / - / - mm (")



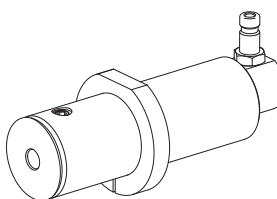
**10724561 Drilling tool holder**

**Fixation** Clamping ring D51  
**Mounting** DIN 1835 B/E D8 (0.31 ")  
**Cooling** internal,  $p_{max}$  80 bar  
**X / Y / Z** - / - / - mm (")



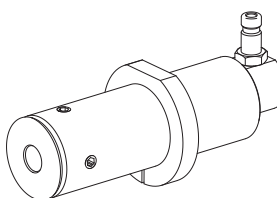
**10049627 Drilling tool holder**

**Fixation** Clamping ring D51  
**Mounting** DIN 1835 B/E D10 (0.39 ")  
**Cooling** internal,  $p_{max}$  80 bar  
**X / Y / Z** - / - / - mm (")



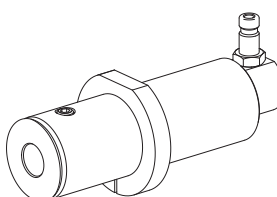
**10021358 Drilling tool holder**

**Fixation** Clamping ring D51  
**Mounting** DIN 1835 B/E D12 (0.47 ")  
**Cooling** internal,  $p_{max}$  80 bar  
**X / Y / Z** - / - / - mm (")



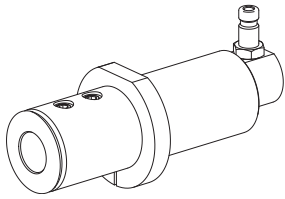
**10736223 Drilling tool holder**

**Fixation** Clamping ring D51  
**Mounting** DIN 1835 B/E D16 (0.63 ")  
**Cooling** internal,  $p_{max}$  80 bar  
**X / Y / Z** - / - / - mm (")



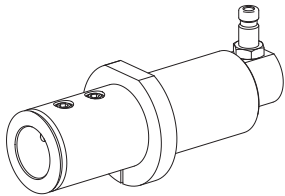
**10879748 Drilling tool holder**

**Fixation** Clamping ring D51  
**Mounting** DIN 1835 B/E D20 (0.79 ")  
**Cooling** internal,  $p_{max}$  80 bar  
**X / Y / Z** - / - / - mm (")



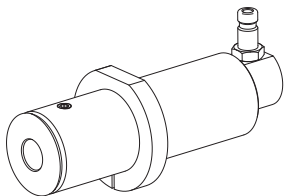
**10022656 Drilling tool holder**

**Fixation** Clamping ring D51  
**Mounting** DIN 1835 B/E D25 (0.98 ")  
**Cooling** internal,  $p_{max}$  80 bar  
**X / Y / Z** - / - / - mm (")



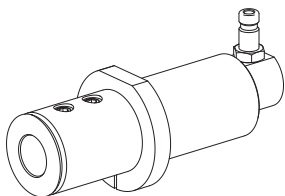
**10617628 Drilling tool holder**

**Fixation** Clamping ring D51  
**Mounting** DIN 1835 B/E D32 (1.26 ")  
**Cooling** internal,  $p_{max}$  80 bar  
**X / Y / Z** - / - / - mm (")



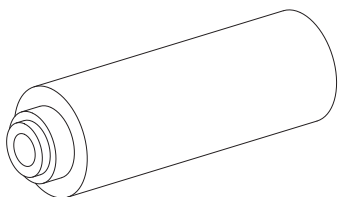
**10680762 Drilling tool holder**

**Fixation** Clamping ring D51  
**Mounting** DIN 1835 B/E D3/4"  
**Cooling** internal,  $p_{max}$  80 bar  
**X / Y / Z** - / - / - mm (")



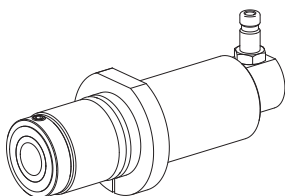
**10265287 Drilling tool holder**

**Fixation** Clamping ring D51  
**Mounting** DIN 1835 B/E D1"  
**Cooling** internal,  $p_{max}$  80 bar  
**X / Y / Z** - / - / - mm (")



**10637237 Center holder, sprung, live**

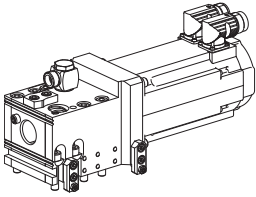
**Fixation** Clamping ring D51  
**Mounting** D15.4 (0.61 ")/Cone 1:7.5  
**Cooling** -  
**X / Y / Z** - / - / - mm (")



**10271971 Reaming tool holder**

**Fixation** Clamping ring D51  
**Mounting** D20 (0.79 ")  
**Cooling** internal,  $p_{max}$  80 bar  
**X / Y / Z** - / - / - mm (")

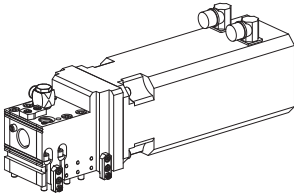
# Tool drive unit Shank VDI25



## 11093540 Tool drive unit

<b>Fixation</b>	–
<b>Mounting</b>	VDI 25
<b>Cooling</b>	internal, $p_{\max}$ 80 bar
<b>Speed ratio</b>	1:1 (1)
<b>X / Y / Z</b>	– / – / – mm (")

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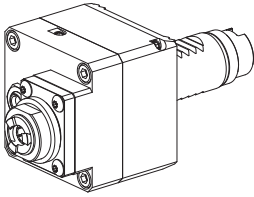


## 11093541 Tool drive unit, high-torque

<b>Fixation</b>	–
<b>Mounting</b>	VDI 25
<b>Cooling</b>	internal, $p_{\max}$ 80 bar
<b>Speed ratio</b>	1:1 (1)
<b>X / Y / Z</b>	– / – / – mm (")

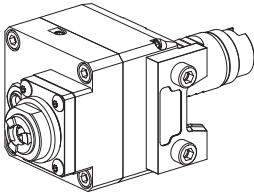
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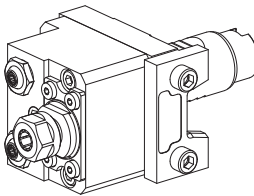
**10898137 Drilling unit**

<b>Fixation</b>	W serration
<b>Mounting</b>	ER 11
<b>Cooling</b>	external, $p_{max}$ 20 bar
<b>Speed ratio</b>	1:3 (0.333)
<b>X / Y / Z</b>	75 (2.95) / – / 15 (0.59) mm (")



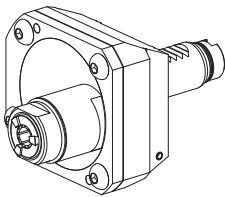
**10418218 Drilling unit**

<b>Fixation</b>	Vee bar
<b>Mounting</b>	ER 11
<b>Cooling</b>	external, $p_{max}$ 20 bar
<b>Speed ratio</b>	1:3 (0.333)
<b>X / Y / Z</b>	75 (2.95) / – / 15 (0.59) mm (")



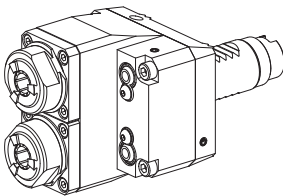
**10648402 Drilling unit**

<b>Fixation</b>	Vee bar
<b>Mounting</b>	ER 11
<b>Cooling</b>	external, $p_{max}$ 20 bar
<b>Speed ratio</b>	1:1.33 (0.75)
<b>X / Y / Z</b>	71 (2.80) / – / 17.5 (0.69) mm (")



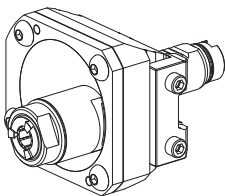
**10444245 Drilling unit, vertically adjustable**

<b>Fixation</b>	W serration
<b>Mounting</b>	ER 16
<b>Cooling</b>	external, $p_{max}$ 20 bar
<b>Speed ratio</b>	1:2.07 (0.483)
<b>X / Y / Z</b>	85 (3.35) / – / 22.5 (0.89) mm (")



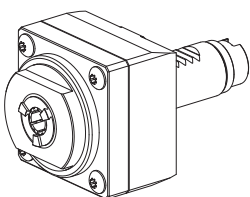
**10941480 Drilling unit, double**

<b>Fixation</b>	W serration
<b>Mounting</b>	ER 16
<b>Cooling</b>	external, $p_{max}$ 20 bar
<b>Speed ratio</b>	1:2.07 (0.483)
<b>X / Y / Z</b>	85 (3.35) / ±19 (±0.75) / 12 (0.47) mm (")



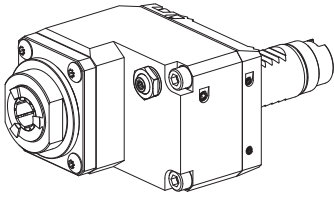
**10701271 Drilling unit, vertically adjustable**

<b>Fixation</b>	Vee bar
<b>Mounting</b>	ER 16
<b>Cooling</b>	external, $p_{max}$ 20 bar
<b>Speed ratio</b>	1:2.07 (0.483)
<b>X / Y / Z</b>	85 (3.35) / ±22.5 (±0.98) / ±22.5 (±0.89) mm (")



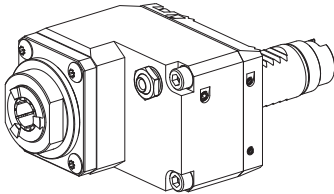
**11050767 Drilling unit**

<b>Fixation</b>	none
<b>Mounting</b>	ER 16
<b>Cooling</b>	external, $p_{max}$ 80 bar
<b>Speed ratio</b>	1:1 (1)
<b>X / Y / Z</b>	54 (2.13) / – / – mm (")



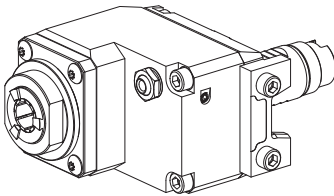
**10205569 Drilling unit**

<b>Fixation</b>	W serration
<b>Mounting</b>	ER 20
<b>Cooling</b>	external and internal, $p_{\max}$ 80 bar
<b>Speed ratio</b>	1:3 (0.333)
<b>X / Y / Z</b>	86.1 (3.39) / – / 35 (1.38) mm (")



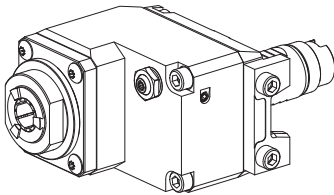
**11005948 Drilling unit**

<b>Fixation</b>	W serration
<b>Mounting</b>	ER 20
<b>Cooling</b>	external, $p_{\max}$ 80 bar
<b>Speed ratio</b>	1:3 (0.333)
<b>X / Y / Z</b>	86.1 (3.39) / – / 35 (1.38) mm (")



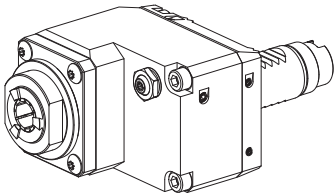
**10385172 Drilling unit**

<b>Fixation</b>	Vee bar
<b>Mounting</b>	ER 20
<b>Cooling</b>	external, $p_{\max}$ 80 bar
<b>Speed ratio</b>	1:3 (0.333)
<b>X / Y / Z</b>	86.1 (3.39) / – / 35 (1.38) mm (")



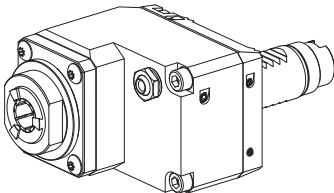
**11016410 Drilling unit**

<b>Fixation</b>	Vee bar
<b>Mounting</b>	ER 20
<b>Cooling</b>	external and internal, $p_{\max}$ 80 bar
<b>Speed ratio</b>	1:3 (0.333)
<b>X / Y / Z</b>	86.1 (3.39) / – / 35 (1.38) mm (")



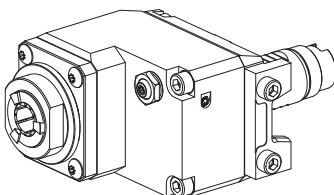
**10380606 Drilling unit**

<b>Fixation</b>	W serration
<b>Mounting</b>	ER 20
<b>Cooling</b>	external and internal, $p_{\max}$ 80 bar
<b>Speed ratio</b>	1:2 (0.5)
<b>X / Y / Z</b>	86.1 (3.39) / – / 35 (1.38) mm (")



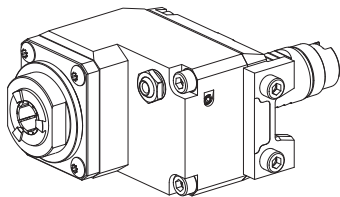
**10453045 Drilling unit**

<b>Fixation</b>	W serration
<b>Mounting</b>	ER 20
<b>Cooling</b>	external, $p_{\max}$ 80 bar
<b>Speed ratio</b>	1:2 (0.5)
<b>X / Y / Z</b>	86.1 (3.39) / – / 35 (1.38) mm (")



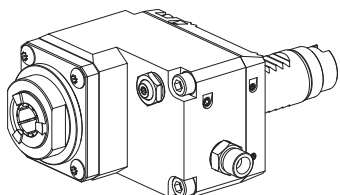
**10767041 Drilling unit**

<b>Fixation</b>	Vee bar
<b>Mounting</b>	ER 20
<b>Cooling</b>	external and internal, $p_{\max}$ 80 bar
<b>Speed ratio</b>	1:2 (0.5)
<b>X / Y / Z</b>	86.1 (3.39) / – / 35 (1.38) mm (")



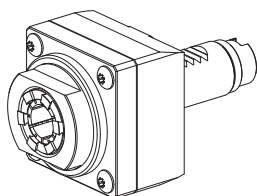
**10892233 Drilling unit**

<b>Fixation</b>	Vee bar
<b>Mounting</b>	ER 20
<b>Cooling</b>	external, $p_{\max}$ 80 bar
<b>Speed ratio</b>	1:2 (0.5)
<b>X / Y / Z</b>	86 (3.39) / – / 35 (1.38) mm (")



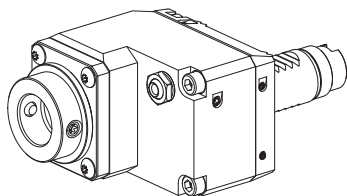
**10756842 Drilling unit**

<b>Fixation</b>	W serration
<b>Mounting</b>	ER 20
<b>Cooling</b>	internal, $p_{\max}$ 80 bar
<b>Speed ratio</b>	1:1 (1)
<b>X / Y / Z</b>	86.1 (3.39) / – / 35 (1.38) mm (")



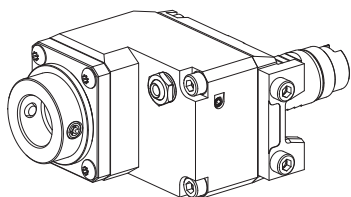
**10828154 Drilling unit**

<b>Fixation</b>	none
<b>Mounting</b>	ER 25
<b>Cooling</b>	external, $p_{\max}$ 80 bar
<b>Speed ratio</b>	1:1 (1)
<b>X / Y / Z</b>	57 (2.24) / – / – mm (")



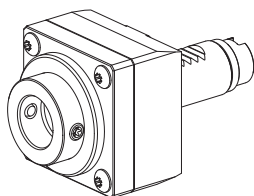
**10415684 Drilling unit**

<b>Fixation</b>	W serration
<b>Mounting</b>	WFB 24-16
<b>Cooling</b>	external, $p_{\max}$ 80 bar
<b>Speed ratio</b>	1:3 (0.333)
<b>X / Y / Z</b>	89.6 (3.53) / – / 35 (1.38) mm (")



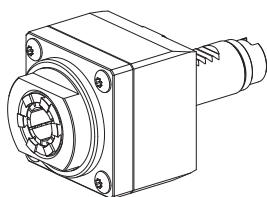
**10535176 Drilling unit**

<b>Fixation</b>	Vee bar
<b>Mounting</b>	WFB 24-16
<b>Cooling</b>	external, $p_{\max}$ 80 bar
<b>Speed ratio</b>	1:3 (0.333)
<b>X / Y / Z</b>	89.6 (3.53) / – / 35 (1.38) mm (")



**10275970 Drilling unit**

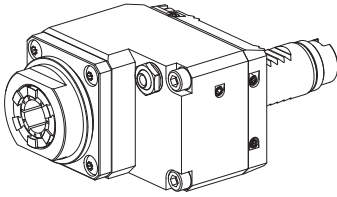
<b>Fixation</b>	none
<b>Mounting</b>	WFB 24-16
<b>Cooling</b>	external, $p_{\max}$ 80 bar
<b>Speed ratio</b>	1:1 (1)
<b>X / Y / Z</b>	59 (2.32) / – / – mm (")



**11067030 Milling unit**

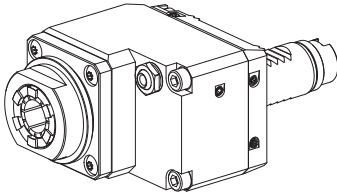
<b>Fixation</b>	none
<b>Mounting</b>	ER 25
<b>Cooling</b>	external, $p_{\max}$ 80 bar
<b>Speed ratio</b>	1:1 (1)
<b>X / Y / Z</b>	67 (2.64) / – / – mm (")

# Live tool holder Shank VDI25



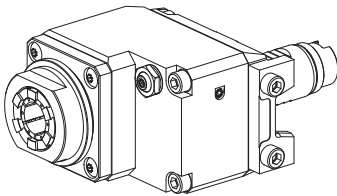
## 10716400 Milling unit

<b>Fixation</b>	W serration
<b>Mounting</b>	ER 25
<b>Cooling</b>	external and internal, $p_{\max}$ 80 bar
<b>Speed ratio</b>	1:1 (1)
<b>X / Y / Z</b>	89.9 (3.54) / – / 31 (1.22) mm (")



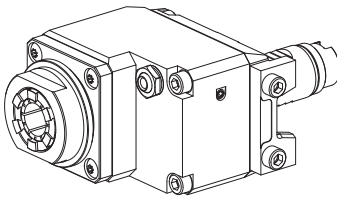
## 10991401 Milling unit

<b>Fixation</b>	W serration
<b>Mounting</b>	ER 25
<b>Cooling</b>	external, $p_{\max}$ 80 bar
<b>Speed ratio</b>	1:1 (1)
<b>X / Y / Z</b>	89.9 (3.54) / – / 31 (1.22) mm (")



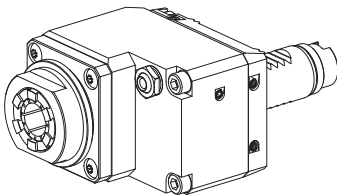
## 10031272 Milling unit

<b>Fixation</b>	Vee bar
<b>Mounting</b>	ER 25
<b>Cooling</b>	external and internal, $p_{\max}$ 80 bar
<b>Speed ratio</b>	1:1 (1)
<b>X / Y / Z</b>	89.9 (3.54) / – / 31 (1.22) mm (")



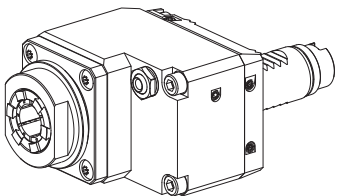
## 11030759 Milling unit

<b>Fixation</b>	Vee bar
<b>Mounting</b>	ER 25
<b>Cooling</b>	external, $p_{\max}$ 80 bar
<b>Speed ratio</b>	1:1 (1)
<b>X / Y / Z</b>	90 (3.54) / – / 31 (1.22) mm (")



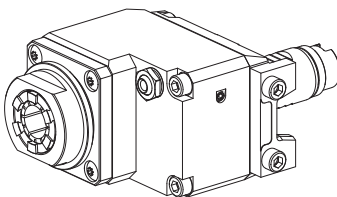
## 10265219 Milling unit

<b>Fixation</b>	W serration
<b>Mounting</b>	ER 25
<b>Cooling</b>	external, $p_{\max}$ 80 bar
<b>Speed ratio</b>	2:1 (2)
<b>X / Y / Z</b>	89.9 (3.54) / – / 31 (1.22) mm (")



## 10322749 Milling unit

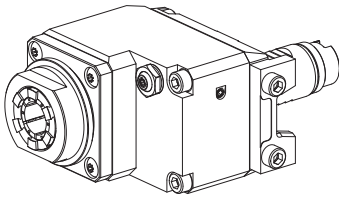
<b>Fixation</b>	W serration
<b>Mounting</b>	ER 25
<b>Cooling</b>	external and internal, $p_{\max}$ 80 bar
<b>Speed ratio</b>	2:1 (2)
<b>X / Y / Z</b>	89.9 (3.54) / – / 31 (1.22) mm (")



## 10907448 Milling unit

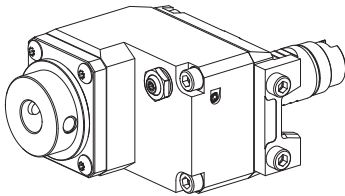
<b>Fixation</b>	Vee bar
<b>Mounting</b>	ER 25
<b>Cooling</b>	external, $p_{\max}$ 80 bar
<b>Speed ratio</b>	2:1 (2)
<b>X / Y / Z</b>	90 (3.54) / – / 31 (1.22) mm (")

# Live tool holder Shank VDI25



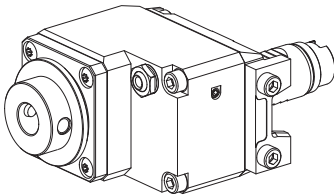
## 10987856 Milling unit

<b>Fixation</b>	Vee bar
<b>Mounting</b>	ER 25
<b>Cooling</b>	external and internal, $p_{\max}$ 80 bar
<b>Speed ratio</b>	2:1 (2)
<b>X / Y / Z</b>	89.9 (3.54) / – / 31 (1.22) mm (")



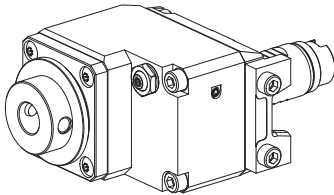
## 10748355 Milling unit

<b>Fixation</b>	Vee bar
<b>Mounting</b>	DIN 1835 B/E D15 (0.59 ")
<b>Cooling</b>	external and internal, $p_{\max}$ 80 bar
<b>Speed ratio</b>	1:2 (0.5)
<b>X / Y / Z</b>	89.6 (3.53) / – / 35 (1.38) mm (")



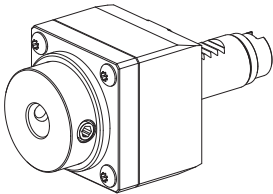
## 10345067 Milling unit

<b>Fixation</b>	Vee bar
<b>Mounting</b>	DIN 1835 B/E D15 (0.59 ")
<b>Cooling</b>	external, $p_{\max}$ 80 bar
<b>Speed ratio</b>	1:1 (1)
<b>X / Y / Z</b>	91 (3.58) / – / 31 (1.22) mm (")



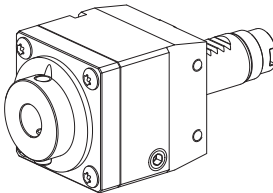
## 10409453 Milling unit

<b>Fixation</b>	Vee bar
<b>Mounting</b>	DIN 1835 B/E D15 (0.59 ")
<b>Cooling</b>	external and internal, $p_{\max}$ 80 bar
<b>Speed ratio</b>	1:1 (1)
<b>X / Y / Z</b>	90.9 (3.58) / – / 31 (1.22) mm (")



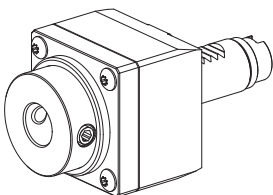
## 10202307 Milling unit

<b>Fixation</b>	none
<b>Mounting</b>	DIN 1835 B/E D16 (0.63 ")
<b>Cooling</b>	external, $p_{\max}$ 80 bar
<b>Speed ratio</b>	1:1 (1)
<b>X / Y / Z</b>	72 (2.83) / – / – mm (")



## 11063004 Milling unit

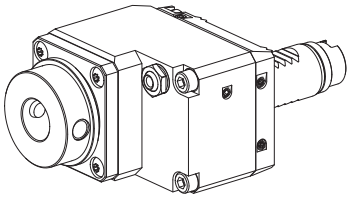
<b>Fixation</b>	–
<b>Mounting</b>	DIN 1835 B/E D16 (0.63 ")
<b>Cooling</b>	external, $p_{\max}$ 20 bar
<b>Speed ratio</b>	4.5:1 (4.5)
<b>X / Y / Z</b>	83.5 (3.29) / – / 0 ( ) mm (")



## 10307933 Milling unit

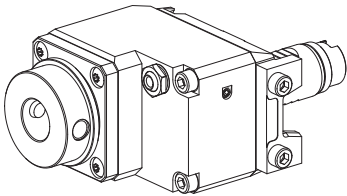
<b>Fixation</b>	none
<b>Mounting</b>	DIN 1835 B/E D20 (0.79 ")
<b>Cooling</b>	external, $p_{\max}$ 80 bar
<b>Speed ratio</b>	1:1 (1)
<b>X / Y / Z</b>	72 (2.83) / – / – mm (")

# Live tool holder Shank VDI25



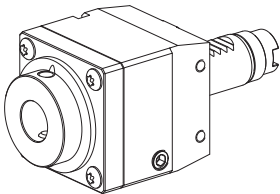
## 1071990 Milling unit

<b>Fixation</b>	W serration
<b>Mounting</b>	DIN 1835 B/E D20 (0.79 ")
<b>Cooling</b>	external, $p_{max}$ 20 bar
<b>Speed ratio</b>	2:1 (2)
<b>X / Y / Z</b>	93 (3.66) / - / 31 (1.22) mm (")



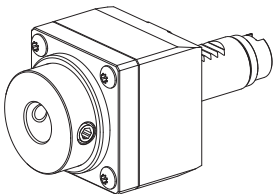
## 10642666 Milling unit

<b>Fixation</b>	Vee bar
<b>Mounting</b>	DIN 1835 B/E D20 (0.79 ")
<b>Cooling</b>	external, $p_{max}$ 80 bar
<b>Speed ratio</b>	2:1 (2)
<b>X / Y / Z</b>	93 (3.66) / - / 31 (1.22) mm (")



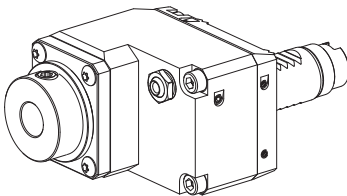
## 10591979 Milling unit

<b>Fixation</b>	none
<b>Mounting</b>	DIN 1835 B/E D20 (0.79 ")
<b>Cooling</b>	external, $p_{max}$ 20 bar
<b>Speed ratio</b>	4.5:1 (4.5)
<b>X / Y / Z</b>	83.5 (3.29) / - / 0 ( ) mm (")



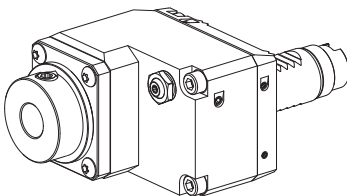
## 10857236 Milling unit

<b>Fixation</b>	none
<b>Mounting</b>	DIN 1835 B/E D3/4"
<b>Cooling</b>	external, $p_{max}$ 80 bar
<b>Speed ratio</b>	1:1 (1)
<b>X / Y / Z</b>	72 (2.83) / - / - mm (")



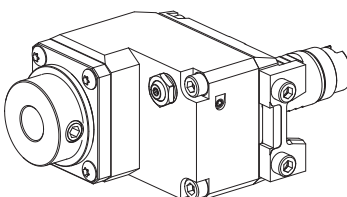
## 10136933 Milling unit

<b>Fixation</b>	W serration
<b>Mounting</b>	D16 (0.63 ")
<b>Cooling</b>	external, $p_{max}$ 80 bar
<b>Speed ratio</b>	1:2 (0.5)
<b>X / Y / Z</b>	92 (3.62) / - / 35 (1.38) mm (")



## 10410570 Milling unit

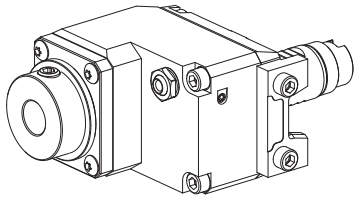
<b>Fixation</b>	W serration
<b>Mounting</b>	D16 (0.63 ")
<b>Cooling</b>	external and internal, $p_{max}$ 80 bar
<b>Speed ratio</b>	1:2 (0.5)
<b>X / Y / Z</b>	92 (3.62) / - / 35 (1.38) mm (")



## 10480988 Milling unit

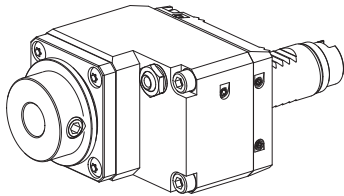
<b>Fixation</b>	Vee bar
<b>Mounting</b>	D16 (0.63 ")
<b>Cooling</b>	external and internal, $p_{max}$ 80 bar
<b>Speed ratio</b>	1:2 (0.5)
<b>X / Y / Z</b>	92 (3.62) / - / 35 (1.38) mm (")

# Live tool holder Shank VDI25



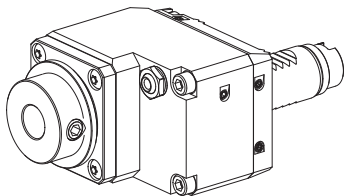
## 10790396 Milling unit

<b>Fixation</b>	Vee bar
<b>Mounting</b>	D16 (0.63 ")
<b>Cooling</b>	external, $p_{\max}$ 80 bar
<b>Speed ratio</b>	1:2 (0.5)
<b>X / Y / Z</b>	92 (3.62) / – / 35 (1.38) mm (")



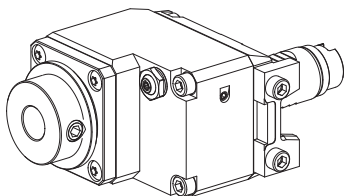
## 10420233 Milling unit

<b>Fixation</b>	W serration
<b>Mounting</b>	D16 (0.63 ")
<b>Cooling</b>	external and internal, $p_{\max}$ 80 bar
<b>Speed ratio</b>	1:1 (1)
<b>X / Y / Z</b>	93 (3.66) / – / 31 (1.22) mm (")



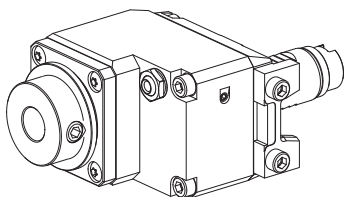
## 11062897 Milling unit

<b>Fixation</b>	W serration
<b>Mounting</b>	D16 (0.63 ")
<b>Cooling</b>	external, $p_{\max}$ 80 bar
<b>Speed ratio</b>	1:1 (1)
<b>X / Y / Z</b>	93 (3.66) / – / 31 (1.22) mm (")



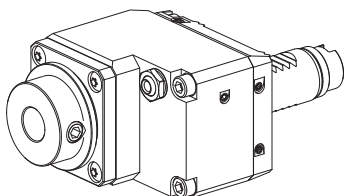
## 10860043 Milling unit

<b>Fixation</b>	Vee bar
<b>Mounting</b>	D16 (0.63 ")
<b>Cooling</b>	external and internal, $p_{\max}$ 80 bar
<b>Speed ratio</b>	1:1 (1)
<b>X / Y / Z</b>	93 (3.66) / – / 31 (1.22) mm (")



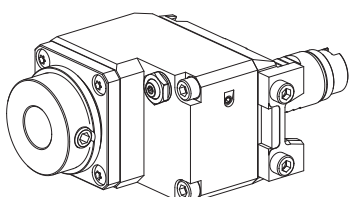
## 11043249 Milling unit

<b>Fixation</b>	Vee bar
<b>Mounting</b>	D16 (0.63 ")
<b>Cooling</b>	external, $p_{\max}$ 80 bar
<b>Speed ratio</b>	1:1 (1)
<b>X / Y / Z</b>	93 (3.66) / – / 31 (1.22) mm (")



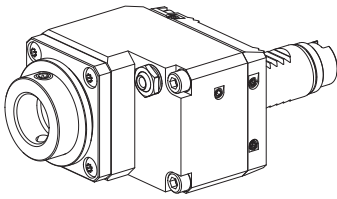
## 10038392 Milling unit

<b>Fixation</b>	W serration
<b>Mounting</b>	D16 (0.63 ")
<b>Cooling</b>	external and internal, $p_{\max}$ 80 bar
<b>Speed ratio</b>	2:1 (2)
<b>X / Y / Z</b>	93 (3.66) / – / 31 (1.22) mm (")



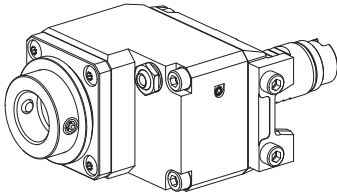
## 11090796 Milling unit

<b>Fixation</b>	Vee bar
<b>Mounting</b>	D20 (0.79 ")
<b>Cooling</b>	internal, $p_{\max}$ 80 bar
<b>Speed ratio</b>	2:1 (2)
<b>X / Y / Z</b>	93 (3.66) / – / 31 (1.22) mm (")



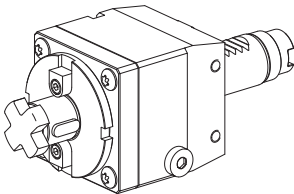
**10061745 Milling unit**

<b>Fixation</b>	W serration
<b>Mounting</b>	WFB 24-16
<b>Cooling</b>	external, $p_{\max}$ 80 bar
<b>Speed ratio</b>	2:1 (2)
<b>X / Y / Z</b>	91.4 (3.60) / – / 31 (1.22) mm (")



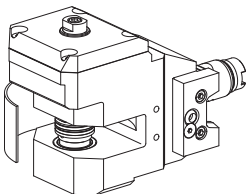
**10411900 Milling unit**

<b>Fixation</b>	Vee bar
<b>Mounting</b>	WFB 24-16
<b>Cooling</b>	external, $p_{\max}$ 80 bar
<b>Speed ratio</b>	2:1 (2)
<b>X / Y / Z</b>	91 (3.58) / – / 31 (1.22) mm (")



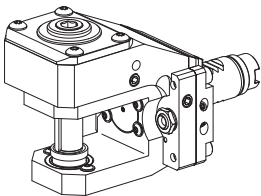
**10425512 Milling unit**

<b>Fixation</b>	none
<b>Mounting</b>	Milling shaft D22 (0.87 ")
<b>Cooling</b>	external, $p_{\max}$ 20 bar
<b>Speed ratio</b>	4.5:1 (4.5)
<b>X / Y / Z</b>	73.5 (2.89) / – / 0 ( ) mm (")



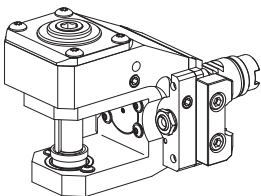
**10403930 Circular saw unit, vertically adjustable**

<b>Fixation</b>	Vee bar
<b>Mounting</b>	Milling shaft D16 (0.63 ")
<b>Cooling</b>	external, $p_{\max}$ 20 bar
<b>Speed ratio</b>	2.05:1 (2.05)
<b>X / Y / Z</b>	79.5 (3.13) / – / – mm (")



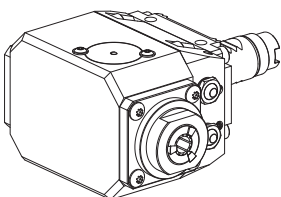
**10546310 Circular saw unit**

<b>Fixation</b>	W serration
<b>Mounting</b>	Milling shaft D16 (0.63 ")
<b>Cooling</b>	external, $p_{\max}$ 80 bar
<b>Speed ratio</b>	3.5:1 (3.5)
<b>X / Y / Z</b>	79 (3.11) / – / – mm (")



**10444685 Circular saw unit**

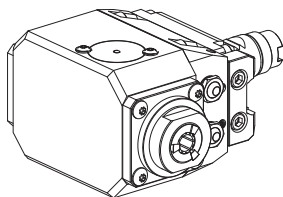
<b>Fixation</b>	Vee bar
<b>Mounting</b>	Milling shaft D16 (0.63 ")
<b>Cooling</b>	external, $p_{\max}$ 80 bar
<b>Speed ratio</b>	3.5:1 (3.5)
<b>X / Y / Z</b>	79 (3.11) / – / – mm (")



**10793977 Drilling unit**

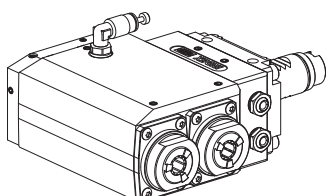
<b>Fixation</b>	W serration
<b>Mounting</b>	ER 16
<b>Cooling</b>	external, internal optional, $p_{\max}$ 80 bar
<b>Speed ratio</b>	1:2.88 (0.347)
<b>X / Y / Z</b>	70 (2.76) / – / 80 (3.15) mm (")





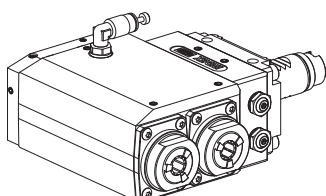
**10293075 Drilling unit**

<b>Fixation</b>	Vee bar
<b>Mounting</b>	ER 16
<b>Cooling</b>	external, internal optional, $p_{\max}$ 80 bar
<b>Speed ratio</b>	1:2.88 (0.347)
<b>X / Y / Z</b>	70 (2.76) / – / 80 (3.15) mm (")



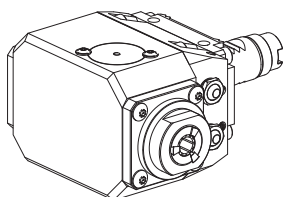
**10037360 Drilling unit**

<b>Fixation</b>	W serration
<b>Mounting</b>	ER 16
<b>Cooling</b>	external, $p_{\max}$ 80 bar
<b>Speed ratio</b>	1:2 (0.5)
<b>X / Y / Z</b>	70 + 110 (2.76 + 4.33) / – / 71.3 (2.81) mm (")



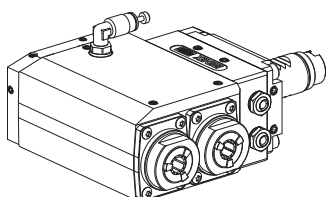
**10163263 Drilling unit**

<b>Fixation</b>	W serration
<b>Mounting</b>	ER 16
<b>Cooling</b>	internal, $p_{\max}$ 80 bar
<b>Speed ratio</b>	1:2 (0.5)
<b>X / Y / Z</b>	70 + 110 (2.76 + 4.33) / – / 71.3 (2.81) mm (")



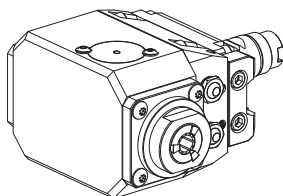
**10363369 Drilling unit**

<b>Fixation</b>	W serration
<b>Mounting</b>	ER 16
<b>Cooling</b>	external, internal optional, $p_{\max}$ 80 bar
<b>Speed ratio</b>	1:2 (0.5)
<b>X / Y / Z</b>	70 (2.76) / – / 80 (3.15) mm (")



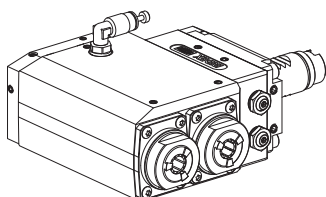
**10115327 Drilling unit**

<b>Fixation</b>	Vee bar
<b>Mounting</b>	ER 16
<b>Cooling</b>	external, $p_{\max}$ 80 bar
<b>Speed ratio</b>	1:2 (0.5)
<b>X / Y / Z</b>	70 + 110 (2.76 + 4.33) / – / 71 (2.80) mm (")



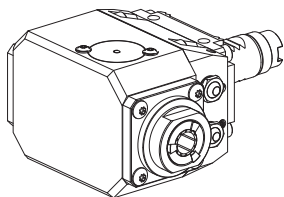
**10298225 Drilling unit**

<b>Fixation</b>	Vee bar
<b>Mounting</b>	ER 16
<b>Cooling</b>	external, internal optional, $p_{\max}$ 80 bar
<b>Speed ratio</b>	1:2 (0.5)
<b>X / Y / Z</b>	70 (2.76) / – / 80 (3.15) mm (")



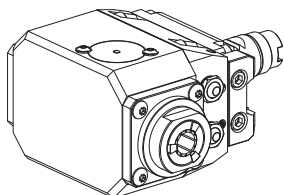
**10835385 Drilling unit**

<b>Fixation</b>	Vee bar
<b>Mounting</b>	ER 16
<b>Cooling</b>	internal, $p_{\max}$ 80 bar
<b>Speed ratio</b>	1:2 (0.5)
<b>X / Y / Z</b>	70 + 110 (2.76 + 4.33) / – / 71.3 (2.81) mm (")



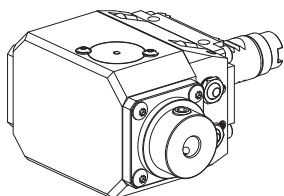
#### 11064426 Drilling unit

<b>Fixation</b>	W serration
<b>Mounting</b>	ER 20
<b>Cooling</b>	external, internal optional, $p_{\max}$ 80 bar
<b>Speed ratio</b>	1:2 (0.5)
<b>X / Y / Z</b>	70 (2.76) / – / 80 (3.15) mm (")



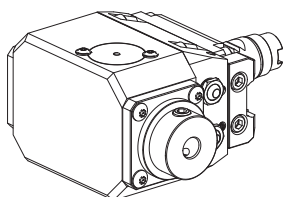
#### 10303082 Drilling unit

<b>Fixation</b>	Vee bar
<b>Mounting</b>	ER 20
<b>Cooling</b>	external, internal optional, $p_{\max}$ 80 bar
<b>Speed ratio</b>	1:2 (0.5)
<b>X / Y / Z</b>	70 (2.76) / – / 80 (3.15) mm (")



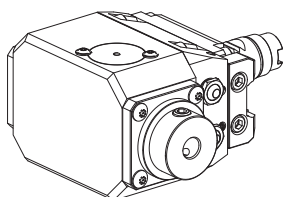
#### 10180528 Drilling unit

<b>Fixation</b>	W serration
<b>Mounting</b>	DIN 1835 B/E D12 (0.47 ")
<b>Cooling</b>	external, internal optional, $p_{\max}$ 80 bar
<b>Speed ratio</b>	1:2.88 (0.347)
<b>X / Y / Z</b>	70 (2.76) / – / 85.5 (3.37) mm (")



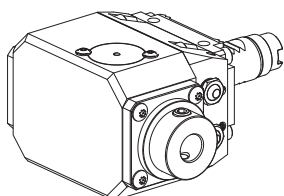
#### 10826106 Drilling unit

<b>Fixation</b>	Vee bar
<b>Mounting</b>	DIN 1835 B/E D12 (0.47 ")
<b>Cooling</b>	external, internal optional, $p_{\max}$ 80 bar
<b>Speed ratio</b>	1:2.88 (0.347)
<b>X / Y / Z</b>	70 (2.76) / – / 85.5 (3.37) mm (")



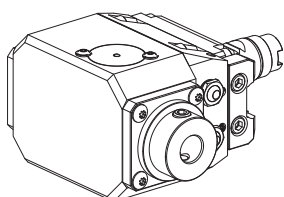
#### 10665790 Drilling unit

<b>Fixation</b>	Vee bar
<b>Mounting</b>	DIN 1835 B/E D12 (0.47 ")
<b>Cooling</b>	external, internal optional, $p_{\max}$ 80 bar
<b>Speed ratio</b>	1:2 (0.5)
<b>X / Y / Z</b>	70 (2.76) / – / 85.5 (3.37) mm (")



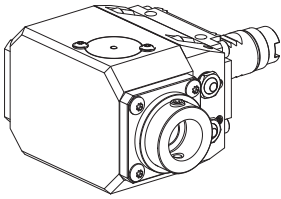
#### 10822454 Drilling unit

<b>Fixation</b>	W serration
<b>Mounting</b>	DIN 1835 B/E D16 (0.63 ")
<b>Cooling</b>	external, internal optional, $p_{\max}$ 80 bar
<b>Speed ratio</b>	1:2 (0.5)
<b>X / Y / Z</b>	70 (2.76) / – / 85.5 (3.37) mm (")



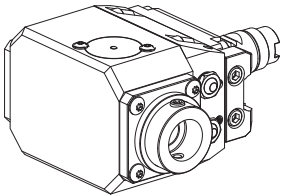
#### 10704112 Drilling unit

<b>Fixation</b>	Vee bar
<b>Mounting</b>	DIN 1835 B/E D16 (0.63 ")
<b>Cooling</b>	external, internal optional, $p_{\max}$ 80 bar
<b>Speed ratio</b>	1:2 (0.5)
<b>X / Y / Z</b>	70 (2.76) / – / 85.5 (3.37) mm (")



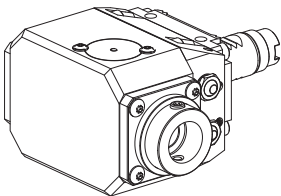
**11024822 Drilling unit**

<b>Fixation</b>	W serration
<b>Mounting</b>	WFB 24-16
<b>Cooling</b>	external, internal optional, $p_{\max}$ 80 bar
<b>Speed ratio</b>	1:2.88 (0.347)
<b>X / Y / Z</b>	70 (2.76) / – / 82.5 (3.25) mm (")



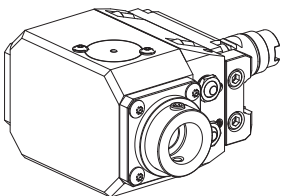
**10860091 Drilling unit**

<b>Fixation</b>	Vee bar
<b>Mounting</b>	WFB 24-16
<b>Cooling</b>	external, internal optional, $p_{\max}$ 80 bar
<b>Speed ratio</b>	1:2.88 (0.347)
<b>X / Y / Z</b>	70 (2.76) / – / 82.5 (3.25) mm (")



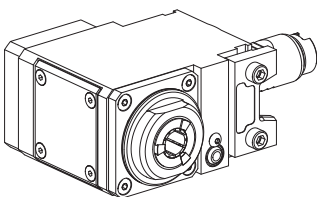
**10592359 Drilling unit**

<b>Fixation</b>	W serration
<b>Mounting</b>	WFB 24-16
<b>Cooling</b>	external, internal optional, $p_{\max}$ 80 bar
<b>Speed ratio</b>	1:2 (0.5)
<b>X / Y / Z</b>	70 (2.76) / – / 82.5 (3.25) mm (")



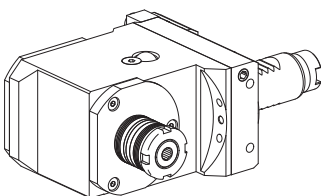
**10512409 Drilling unit**

<b>Fixation</b>	Vee bar
<b>Mounting</b>	WFB 24-16
<b>Cooling</b>	external, internal optional, $p_{\max}$ 80 bar
<b>Speed ratio</b>	1:2 (0.5)
<b>X / Y / Z</b>	70 (2.76) / – / 82.5 (3.25) mm (")



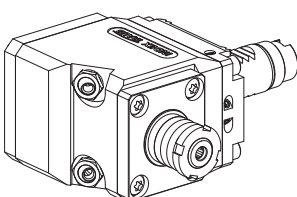
**10764640 Milling unit**

<b>Fixation</b>	Vee bar
<b>Mounting</b>	ER 20
<b>Cooling</b>	external, internal optional, $p_{\max}$ 20 bar
<b>Speed ratio</b>	2:1 (2)
<b>X / Y / Z</b>	70 (2.76) / – / 53 (2.09) mm (")



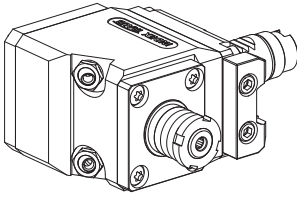
**10305967 Milling unit**

<b>Fixation</b>	Vee bar
<b>Mounting</b>	Milling shaft D16 (0.63 ")
<b>Cooling</b>	external, $p_{\max}$ 20 bar
<b>Speed ratio</b>	2.36:1 (2.36)
<b>X / Y / Z</b>	73 (2.87) / – / 17 (0.67) mm (")



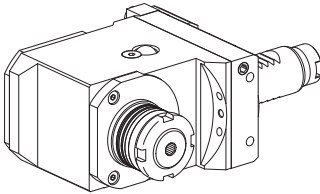
**10483871 Milling unit**

<b>Fixation</b>	W serration
<b>Mounting</b>	Milling shaft D16 (0.63 ")
<b>Cooling</b>	external, $p_{\max}$ 80 bar
<b>Speed ratio</b>	2.5:1 (2.5)
<b>X / Y / Z</b>	55 (2.17) / – / 45 (1.77) mm (")



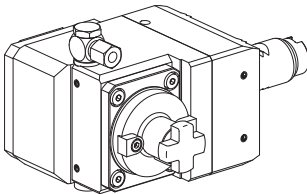
**10272736 Milling unit**

<b>Fixation</b>	Vee bar
<b>Mounting</b>	Milling shaft D16 (0.63 ")
<b>Cooling</b>	external, p <sub>max</sub> 80 bar
<b>Speed ratio</b>	2.5:1 (2.5)
<b>X / Y / Z</b>	55 (2.17) / – / 45 (1.77) mm (")



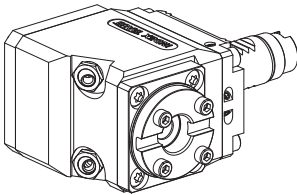
**10783835 Milling unit**

<b>Fixation</b>	Vee bar
<b>Mounting</b>	Milling shaft D22 (0.87 ")
<b>Cooling</b>	external, p <sub>max</sub> 20 bar
<b>Speed ratio</b>	2.36:1 (2.36)
<b>X / Y / Z</b>	73 (2.87) / – / 20 (0.79) mm (")



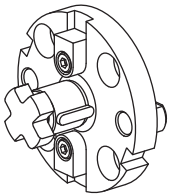
**10356214 Milling unit**

<b>Fixation</b>	W serration
<b>Mounting</b>	Milling shaft D22 (0.87 ")
<b>Cooling</b>	external, p <sub>max</sub> 80 bar
<b>Speed ratio</b>	2.5:1 (2.5)
<b>X / Y / Z</b>	75 (2.95) / – / 41 (1.61) mm (")



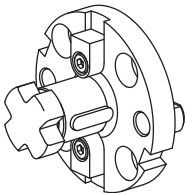
**10838926 Milling unit**

<b>Fixation</b>	W serration
<b>Mounting</b>	–
<b>Cooling</b>	external, p <sub>max</sub> 80 bar
<b>Speed ratio</b>	2.5:1 (2.5)
<b>X / Y / Z</b>	55 (2.17) / – / 53 (2.09) mm (")



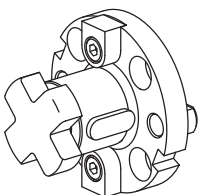
**10670447 Milling cutter holding block**

<b>Fixation</b>	–
<b>Mounting</b>	Milling shaft D13 (0.51 ")
<b>Cooling</b>	–
<b>X / Y / Z</b>	– / – / – mm (")



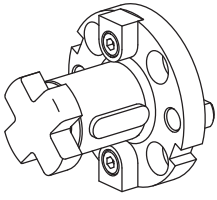
**11041286 Milling cutter holding block**

<b>Fixation</b>	–
<b>Mounting</b>	Milling shaft D16 (0.63 ")
<b>Cooling</b>	–
<b>X / Y / Z</b>	– / – / – mm (")



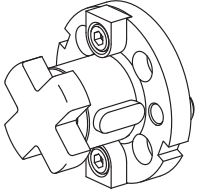
**10435497 Milling cutter holding block**

<b>Fixation</b>	–
<b>Mounting</b>	Milling shaft D22 (0.87 ")
<b>Cooling</b>	–
<b>X / Y / Z</b>	– / – / – mm (")



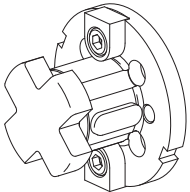
**12011567 Milling cutter holding block**

<b>Fixation</b>	–
<b>Mounting</b>	Milling shaft D22 (0.87 ")
<b>Cooling</b>	–
<b>X / Y / Z</b>	32.5 (1.28) / – / – mm (")



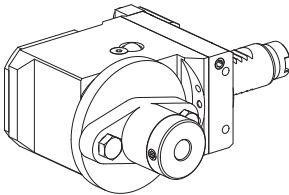
**10807705 Milling cutter holding block**

<b>Fixation</b>	–
<b>Mounting</b>	Milling shaft D27 (1.06 ")
<b>Cooling</b>	–
<b>X / Y / Z</b>	– / – / – mm (")



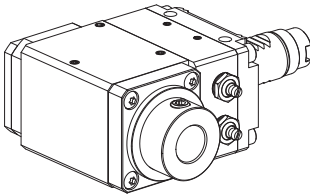
**10223928 Milling cutter holding block**

<b>Fixation</b>	–
<b>Mounting</b>	Milling shaft D32 (1.26 ")
<b>Cooling</b>	–
<b>X / Y / Z</b>	– / – / – mm (")



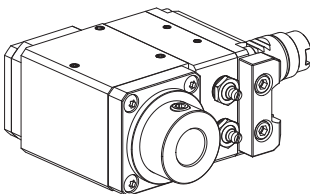
**10622506 Broaching/ Slotting unit**

<b>Fixation</b>	Vee bar
<b>Mounting</b>	D12 (0.47 ")
<b>Cooling</b>	external, p <sub>max</sub> 20 bar
<b>Speed ratio</b>	2.36:1 (2.36)
<b>X / Y / Z</b>	73 (2.87) / – / 73.6 (2.90) mm (")



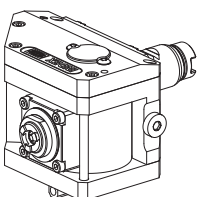
**10766208 Broaching/ Slotting unit**

<b>Fixation</b>	W serration
<b>Mounting</b>	D20 (0.79 ")
<b>Cooling</b>	external, internal optional, p <sub>max</sub> 80 bar
<b>Speed ratio</b>	1:1 (1)
<b>X / Y / Z</b>	70 (2.76) / – / 69 (2.72) mm (")



**10971676 Broaching/ Slotting unit**

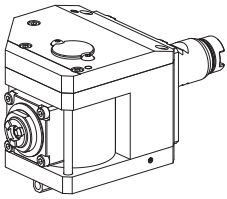
<b>Fixation</b>	Vee bar
<b>Mounting</b>	D20 (0.79 ")
<b>Cooling</b>	external, internal optional, p <sub>max</sub> 80 bar
<b>Speed ratio</b>	1:1 (1)
<b>X / Y / Z</b>	70 (2.76) / – / 69 (2.72) mm (")



**10558202 Drilling unit**

<b>Fixation</b>	W serration
<b>Mounting</b>	ER 11
<b>Cooling</b>	external, p <sub>max</sub> 80 bar
<b>Speed ratio</b>	1:1.7 (0.588)
<b>X / Y / Z</b>	44 (1.73) / – / 37 (1.46) mm (")

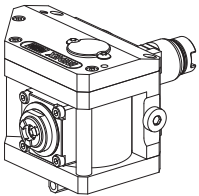
## Live tool holder Shank VDI25



### 10566421 Drilling unit, angle-adjustable

<b>Fixation</b>	W serration
<b>Mounting</b>	ER 11
<b>Cooling</b>	external, $p_{\max}$ 80 bar
<b>Speed ratio</b>	1:1.7 (0.588)
<b>X / Y / Z</b>	67 (2.64) / – / 24 (0.94) mm (")

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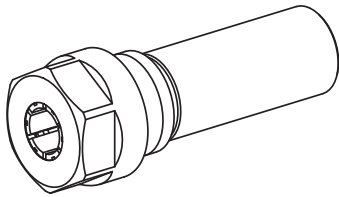


### 10345861 Drilling unit, angle-adjustable

<b>Fixation</b>	Vee bar
<b>Mounting</b>	ER 11
<b>Cooling</b>	external, $p_{\max}$ 80 bar
<b>Speed ratio</b>	1:1.7 (0.588)
<b>X / Y / Z</b>	44 (1.73) / – / 67 (2.64) mm (")

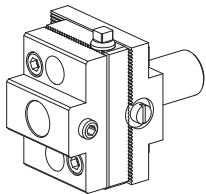
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# Tool holder to spring-loaded tap holder Shank 3/4"



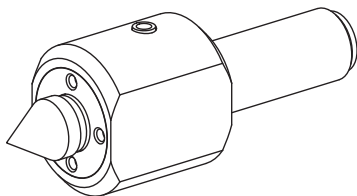
## 11066082 Drilling tool holder

<b>Fixation</b>	–
<b>Mounting</b>	ER 16
<b>Cooling</b>	internal, $p_{max}$ 80 bar
<b>X / Y / Z</b>	26 (1.02) / – / – mm (")



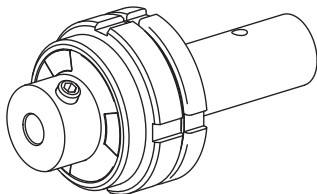
## 11074608 Drilling tool holder, vertically adjustable

<b>Fixation</b>	none
<b>Mounting</b>	D15 (0.59 ")
<b>Cooling</b>	–
<b>X / Y / Z</b>	48 (1.89) / – / – mm (")



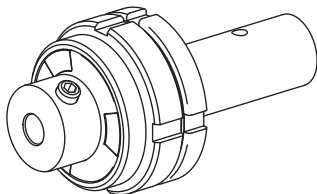
## 10376272 Center holder, elastic, live

<b>Fixation</b>	none
<b>Mounting</b>	MK0
<b>Cooling</b>	–
<b>X / Y / Z</b>	61 (2.40) / – / – mm (")



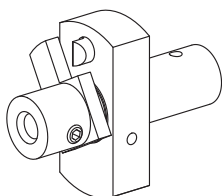
## 10398672 Tapping tool holder, over-running

<b>Fixation</b>	none
<b>Mounting</b>	D8 (0.31 ")
<b>Cooling</b>	–
<b>X / Y / Z</b>	41 (1.61) / – / – mm (")



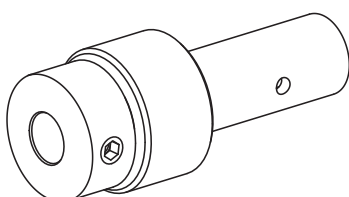
## 10646298 Tapping tool holder, over-running

<b>Fixation</b>	none
<b>Mounting</b>	D8 (0.31 ")
<b>Cooling</b>	–
<b>X / Y / Z</b>	41 (1.61) / – / – mm (")



## 10955662 Tapping tool holder, over-running

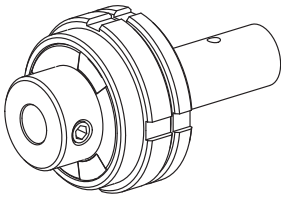
<b>Fixation</b>	none
<b>Mounting</b>	D8 (0.31 ")
<b>Cooling</b>	–
<b>X / Y / Z</b>	38 (1.50) / – / – mm (")



## 10022420 Tapping tool holder, extendable

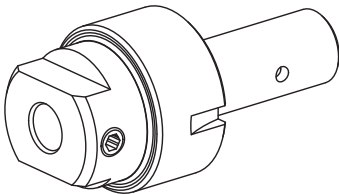
<b>Fixation</b>	none
<b>Mounting</b>	D12 (0.47 ")
<b>Cooling</b>	–
<b>X / Y / Z</b>	36 (1.42) / – / – mm (")

# Tool holder to spring-loaded tap holder Shank 3/4"



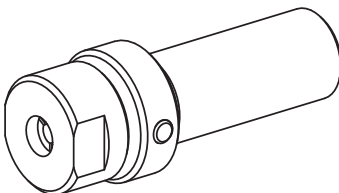
## 10367051 Tapping tool holder, over-running

Fixation	none
Mounting	D12 (0.47 ")
Cooling	–
X / Y / Z	41 (1.61) / – / – mm (")



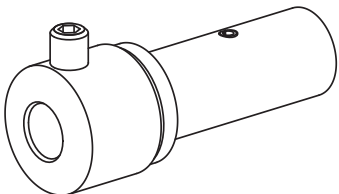
## 10691613 Tapping tool holder, extendable

Fixation	none
Mounting	D12 (0.47 ")
Cooling	–
X / Y / Z	41 (1.61) / – / – mm (")



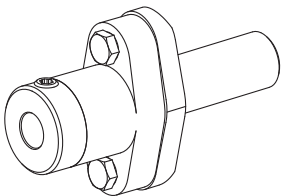
## 10114544 Tapping tool holder, extendable

Fixation	none
Mounting	–
Cooling	–
X / Y / Z	26 (1.02) / – / – mm (")



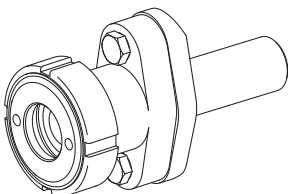
## 10103977 Reaming tool holder

Fixation	–
Mounting	D12 (0.47 ")
Cooling	–
X / Y / Z	26 (1.02) / – / – mm (")



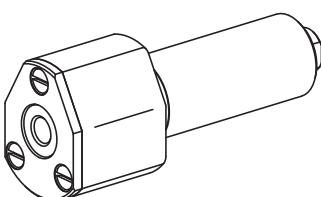
## 10852881 Broaching/ Slotting holder, rotating, live

Fixation	none
Mounting	D12 (0.47 ")
Cooling	–
X / Y / Z	52 (2.05) / – / – mm (")



## 10694118 Broaching/ Slotting holder, rotating, live

Fixation	none
Mounting	D24 (0.94 ")
Cooling	–
X / Y / Z	55 (2.17) / – / – mm (")

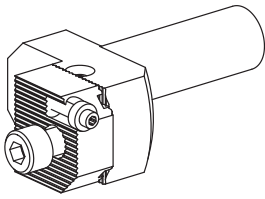


## 10497461 Guide holder

Fixation	none
Mounting	D6 (0.24 ")
Cooling	–
X / Y / Z	27 (1.06) / – / – mm (")

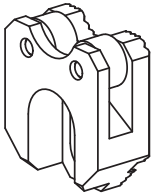


# Tool holder to spring-loaded tap holder Shank 3/4"



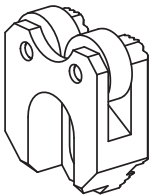
## 10974901 Guide holder, adjustable

Fixation	none
Mounting	D12 (0.47 ")
Cooling	-
X / Y / Z	34 (1.34) / - / - mm (")



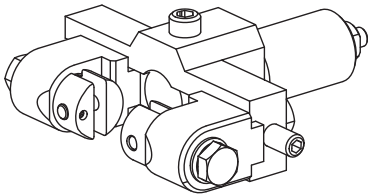
## 10686673 Roller holding block

Fixation	-
Mounting	-
Cooling	-
X / Y / Z	- / - / - mm (")



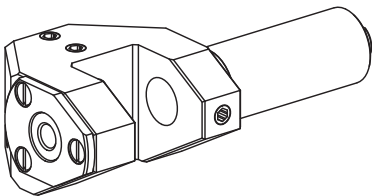
## 11071318 Roller holding block

Fixation	-
Mounting	-
Cooling	-
X / Y / Z	- / - / - mm (")



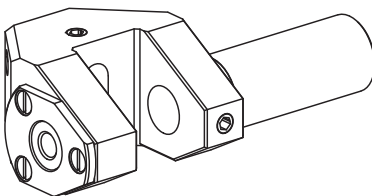
## 10126683 Knurling tool holder, adjustable

Fixation	none
Mounting	D2-24 (0.08 "-0.94 ")
Cooling	-
X / Y / Z	51 (2.01) / - / - mm (")



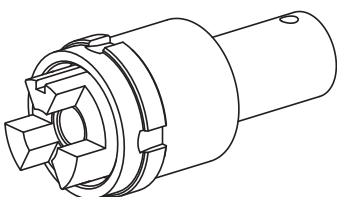
## 10900179 Turning and guide holder

Fixation	none
Mounting	D6 (0.24 ")
Cooling	-
X / Y / Z	48 (1.89) / - / - mm (")



## 11045363 Turning and guide holder

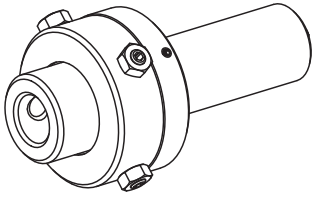
Fixation	none
Mounting	D6 (0.24 ")
Cooling	-
X / Y / Z	48 (1.89) / - / - mm (")



## 10448210 Thread cutting holder, extendable

Fixation	none
Mounting	M29x1
Cooling	-
X / Y / Z	43 (1.69) / - / - mm (")

**Tool holder to spring-loaded tap holder  
Shank 3/4"**

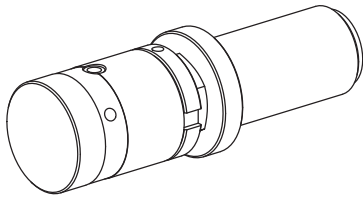


**10148392 Reaming tool holder, adjustable**

<b>Fixation</b>	–
<b>Mounting</b>	D12 (0.47 ")
<b>Cooling</b>	–
<b>X / Y / Z</b>	33.5 (1.32) / – / – mm (")

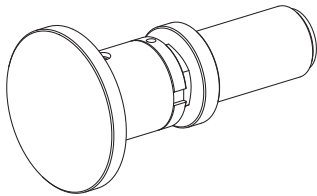
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# Tool holder to spring-loaded tap holder Shank 1"



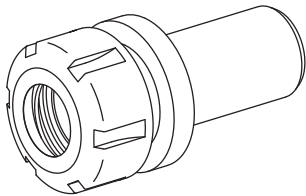
## 10142581 Bar stop, adjustable, live

Fixation	none
Mounting	–
Cooling	–
X / Y / Z	58 - 94 (2.28 - 3.70) / – / – mm (")



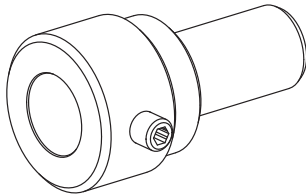
## 10866327 Bar stop, adjustable, live

Fixation	none
Mounting	–
Cooling	–
X / Y / Z	58 - 94 (2.28 - 3.70) / – / – mm (")



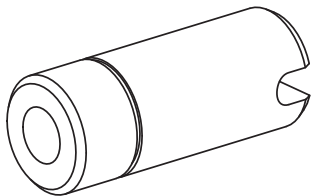
## 10884174 Drilling tool holder

Fixation	none
Mounting	ER 25
Cooling	–
X / Y / Z	22 (0.87) / – / – mm (")



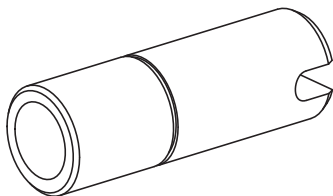
## 10036301 Drilling tool holder

Fixation	none
Mounting	D25 (0.98 ")
Cooling	–
X / Y / Z	40 (1.57) / – / – mm (")



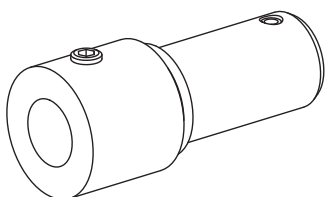
## 11061115 Drilling tool holder

Fixation	none
Mounting	MK1
Cooling	–
X / Y / Z	16 (0.63) / – / – mm (")



## 10083633 Drilling tool holder

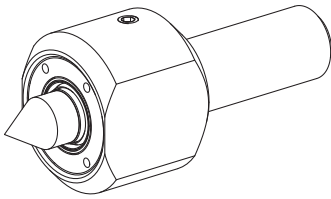
Fixation	none
Mounting	MK2
Cooling	–
X / Y / Z	29 (1.14) / – / – mm (")



## 10933401 Reaming tool holder

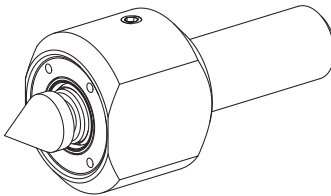
Fixation	–
Mounting	D18 (0.71 ")
Cooling	–
X / Y / Z	35 (1.38) / – / – mm (")

# Tool holder to spring-loaded tap holder Shank 1"



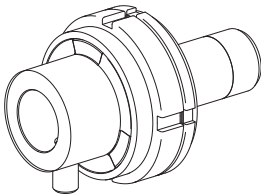
## 10886503 Center holder, elastic, live

Fixation	none
Mounting	D18 (0.71 ")
Cooling	–
X / Y / Z	72.5 (2.85) / – / – mm (")



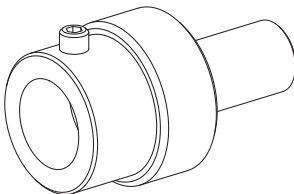
## 10816897 Center holder, elastic, live

Fixation	none
Mounting	MK1
Cooling	–
X / Y / Z	72.5 (2.85) / – / – mm (")



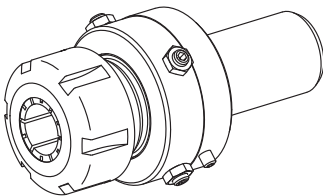
## 10390181 Tapping tool holder, over-running

Fixation	none
Mounting	D25 (0.98 ")
Cooling	–
X / Y / Z	56 (2.20) / – / – mm (")



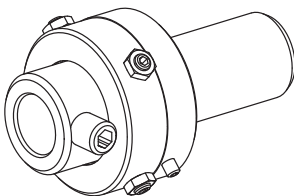
## 10628055 Tapping tool holder, extendable

Fixation	none
Mounting	D25 (0.98 ")
Cooling	–
X / Y / Z	52 (2.05) / – / – mm (")



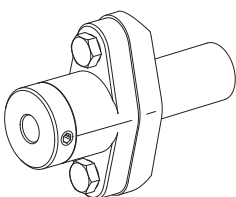
## 10631262 Reaming tool holder, adjustable

Fixation	none
Mounting	ER 25
Cooling	–
X / Y / Z	55 (2.17) / – / – mm (")



## 10448325 Reaming tool holder, adjustable

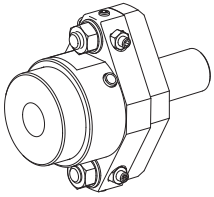
Fixation	none
Mounting	D18 (0.71 ")
Cooling	–
X / Y / Z	41 (1.61) / – / – mm (")



## 10826026 Broaching/ Slotting holder, rotating, live

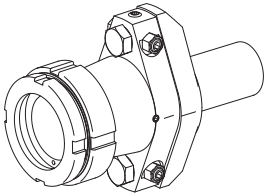
Fixation	none
Mounting	D12 (0.47 ")
Cooling	–
X / Y / Z	58 (2.28) / – / – mm (")

# Tool holder to spring-loaded tap holder Shank 1"



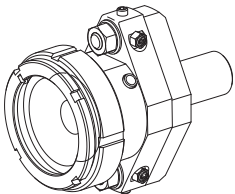
## 10913831 Broaching/ Slotting holder, rotating, live

<b>Fixation</b>	none
<b>Mounting</b>	D20 (0.79 ")
<b>Cooling</b>	–
<b>X / Y / Z</b>	76 (2.99) / – / – mm (")



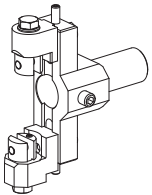
## 10281269 Broaching/ Slotting holder, rotating, live

<b>Fixation</b>	none
<b>Mounting</b>	D40 (1.57 ")
<b>Cooling</b>	–
<b>X / Y / Z</b>	78 - 88 (3.07 - 3.46) / – / – mm (")



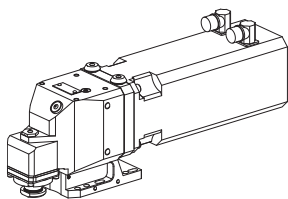
## 11062082 Broaching/ Slotting holder

<b>Fixation</b>	none
<b>Mounting</b>	D50 (1.97 ")
<b>Cooling</b>	–
<b>X / Y / Z</b>	80 - 90 (3.15 - 3.54) / – / – mm (")



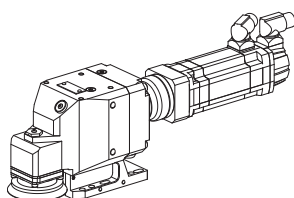
## 10722345 Knurling tool holder, adjustable

<b>Fixation</b>	none
<b>Mounting</b>	D6-36 (0.24 "-1.24 ")
<b>Cooling</b>	–
<b>X / Y / Z</b>	– / – / – mm (")



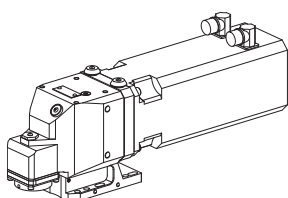
## 11090547 Polygon turning unit

<b>Fixation</b>	–
<b>Mounting</b>	Milling shaft D27 (1.06 ")
<b>Cooling</b>	external, $p_{\max}$ 40 bar
<b>Speed ratio</b>	1:1 (1)
<b>X / Y / Z</b>	– / – / – mm (")



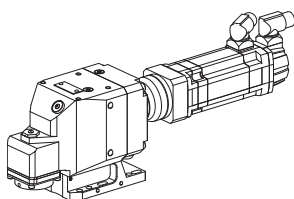
## 11090548 Polygon turning unit

<b>Fixation</b>	–
<b>Mounting</b>	Milling shaft D27 (1.06 ")
<b>Cooling</b>	external, $p_{\max}$ 40 bar
<b>Speed ratio</b>	7:1 (7)
<b>X / Y / Z</b>	– / – / – mm (")



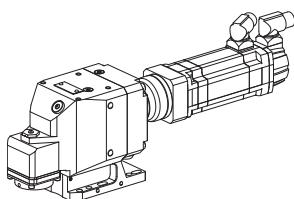
## 11090549 Polygon turning unit

<b>Fixation</b>	–
<b>Mounting</b>	INDEX KK-32
<b>Cooling</b>	external, $p_{\max}$ 40 bar
<b>Speed ratio</b>	1:1 (1)
<b>X / Y / Z</b>	– / – / – mm (")



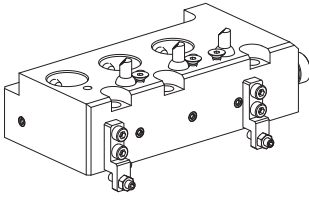
## 11090551 Polygon turning unit, for control C200-sl

<b>Fixation</b>	–
<b>Mounting</b>	INDEX KK-32
<b>Cooling</b>	–
<b>Speed ratio</b>	5:1 (5)
<b>X / Y / Z</b>	– / – / – mm (")



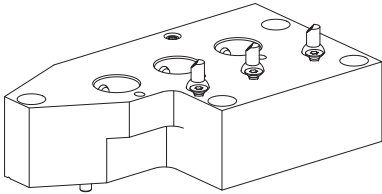
## 11090550 Polygon turning unit

<b>Fixation</b>	–
<b>Mounting</b>	INDEX KK-32
<b>Cooling</b>	external, $p_{\max}$ 40 bar
<b>Speed ratio</b>	7:1 (7)
<b>X / Y / Z</b>	– / – / – mm (")



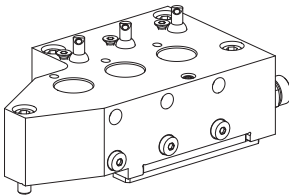
## 10110484 Back end unit

<b>Fixation</b>	–
<b>Mounting</b>	Drill holding block D24
<b>Cooling</b>	external and internal, $p_{max}$ extern. 40 bar, intern. 80 bar
<b>X / Y / Z</b>	– / – / – mm (")



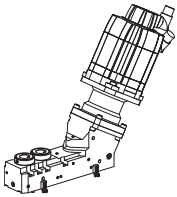
## 11085808 Back end unit

<b>Fixation</b>	–
<b>Mounting</b>	Drill holding block D24
<b>Cooling</b>	external and internal, $p_{max}$ extern. 40 bar, intern. 80 bar
<b>X / Y / Z</b>	– / – / – mm (")



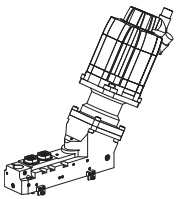
## 11085809 Back end unit

<b>Fixation</b>	–
<b>Mounting</b>	Drill holding block D24
<b>Cooling</b>	external and internal, $p_{max}$ extern. 40 bar, intern. 80 bar
<b>X / Y / Z</b>	– / – / – mm (")



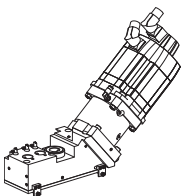
## 11092272 Back end unit, for control C200-sl

<b>Fixation</b>	–
<b>Mounting</b>	WFB 24-16
<b>Cooling</b>	–
<b>Speed ratio</b>	1:1.366 (0.732)
<b>X / Y / Z</b>	– / – / – mm (")



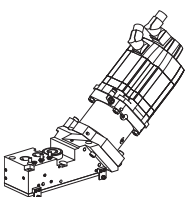
## 11092271 Back end unit, with 2 driven tools

<b>Fixation</b>	–
<b>Mounting</b>	1x D24 – 2x ER 16
<b>Cooling</b>	–
<b>Speed ratio</b>	1:1.58 (0.6345)
<b>X / Y / Z</b>	– / – / – mm (")



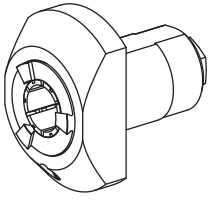
## 11096235 Back end unit, for control C200-sl

<b>Fixation</b>	–
<b>Mounting</b>	2x D24 – 1x WFB 24-16
<b>Cooling</b>	external and internal, $p_{max}$ 40 bar
<b>Speed ratio</b>	1:1.383 (0.723)
<b>X / Y / Z</b>	– / – / – mm (")



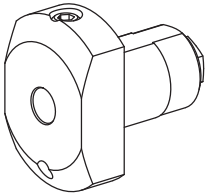
## 11096241 Back end unit, for control C200-sl

<b>Fixation</b>	–
<b>Mounting</b>	2x D24 – 1x WFB 24-16
<b>Cooling</b>	external and internal, $p_{max}$ 40 bar
<b>Speed ratio</b>	1:1.383 (0.723)
<b>X / Y / Z</b>	– / – / – mm (")



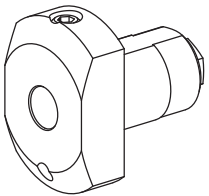
### 10625033 Drill holding block

<b>Fixation</b>	Shank D24
<b>Mounting</b>	ER 20
<b>Cooling</b>	–
<b>X / Y / Z</b>	15 (0.59) / – / – mm (")



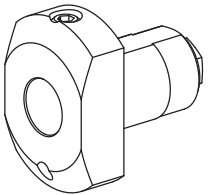
### 10650489 Drill holding block

<b>Fixation</b>	Shank D24
<b>Mounting</b>	D10 (0.39 ")
<b>Cooling</b>	–
<b>X / Y / Z</b>	15 (0.59) / – / – mm (")



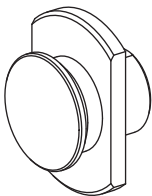
### 10731209 Drill holding block

<b>Fixation</b>	Shank D24
<b>Mounting</b>	D12 (0.47 ")
<b>Cooling</b>	–
<b>X / Y / Z</b>	15 (0.59) / – / – mm (")



### 10949674 Drill holding block

<b>Fixation</b>	Shank D24
<b>Mounting</b>	D16 (0.63 ")
<b>Cooling</b>	–
<b>X / Y / Z</b>	15 (0.59) / – / – mm (")



### 10293031 Blanking plug

<b>Fixation</b>	Shank D24
<b>Mounting</b>	–
<b>Cooling</b>	–
<b>X / Y / Z</b>	15 (0.59) / – / – mm (")











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