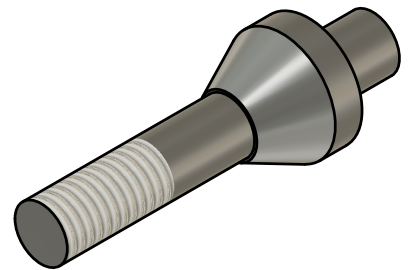
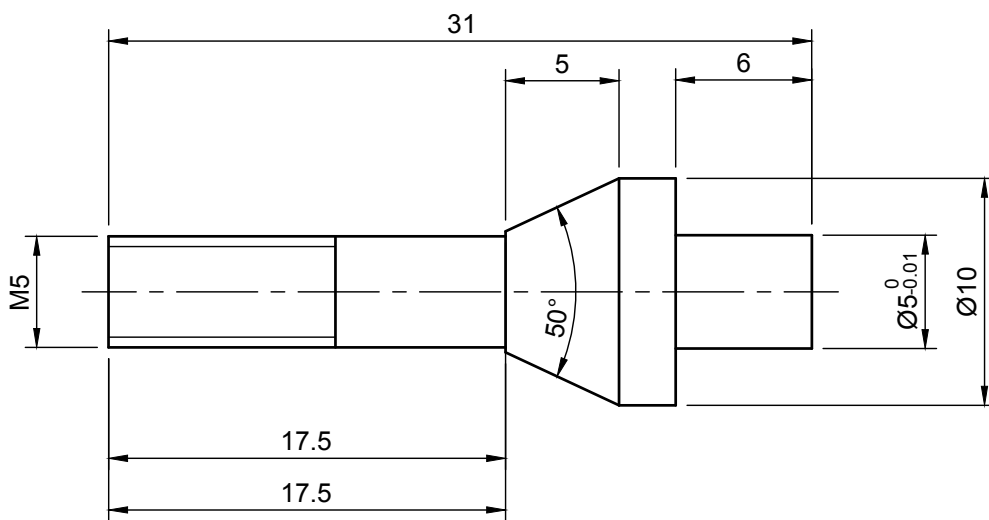


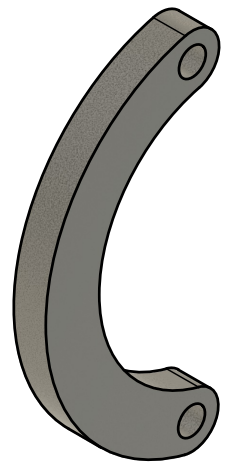
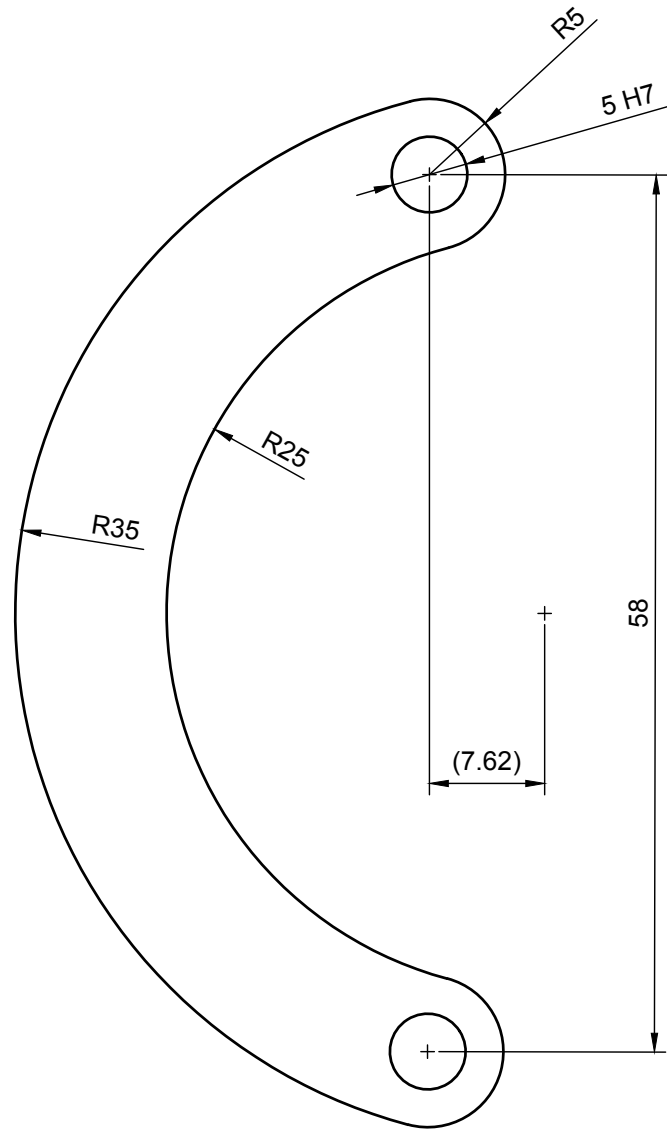
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Dept.	Technical reference	Created by Stefan Gotteswintner 02.05.26	Approved by		
		Document type	Document status		
		Title DTI Holder with Micro Adjust	DWG No.		
		Rev.	Date of issue	Sheet 1/12	

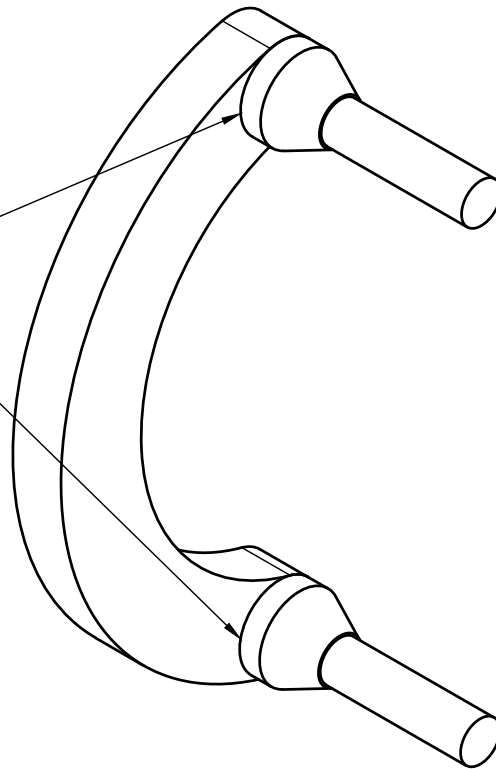


Dept.	Technical reference	Created by Stefan Gotteswinter 02.05.26	Approved by	
Standard Tolerance ISO-2768 fH Material: 1.7225 (42CrMo4 +QT)		Document type Part	Document status	
2x Required		Title Swivel Pin	DWG No.	
		Rev.	Date of issue	Sheet 2/12

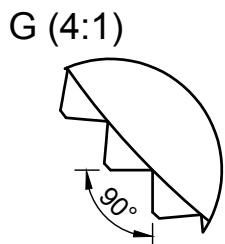
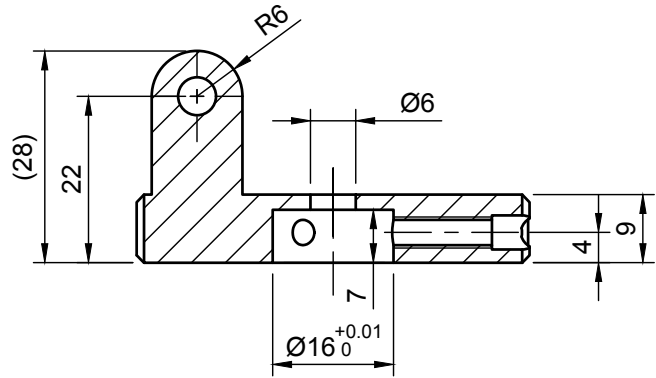
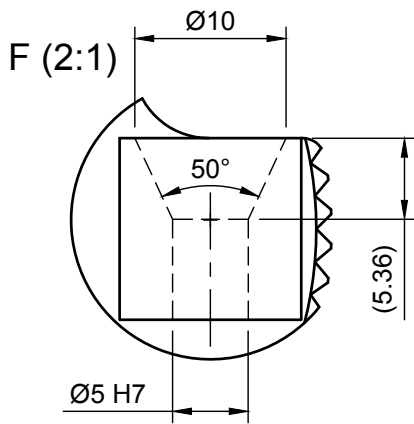
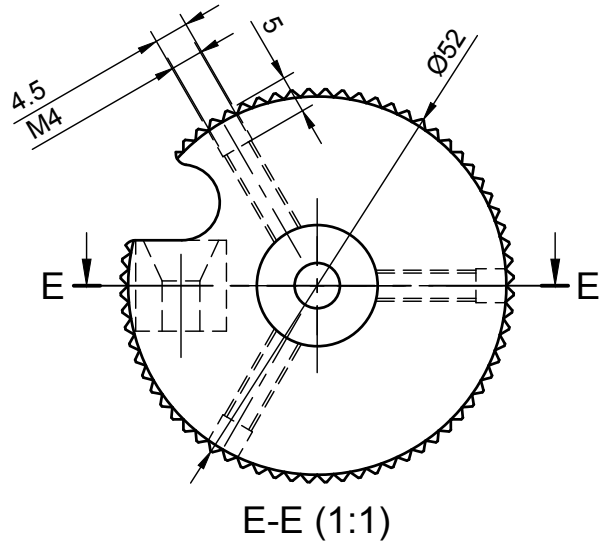
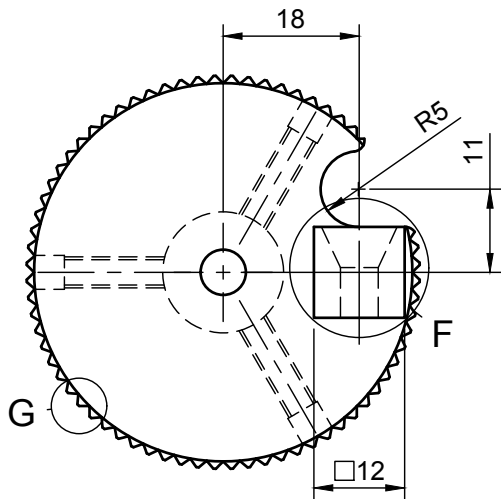


Dept.	Technical reference	Created by Stefan Gotteswinter 02.05.26	Approved by	
Standard Tolerance ISO-2768 fH Material: Mild steel		Document type Part	Document status	
		Title Halfmoon Arm	DWG No.	
		Rev.	Date of issue	Sheet 3/12

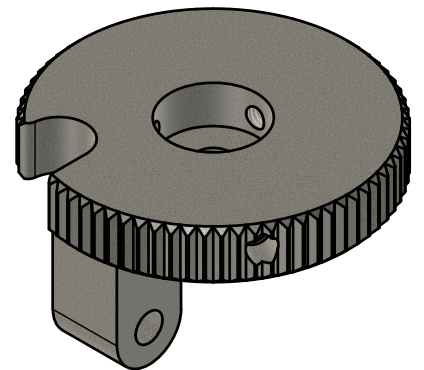
Assembled with
Loctite 648 retaining compound



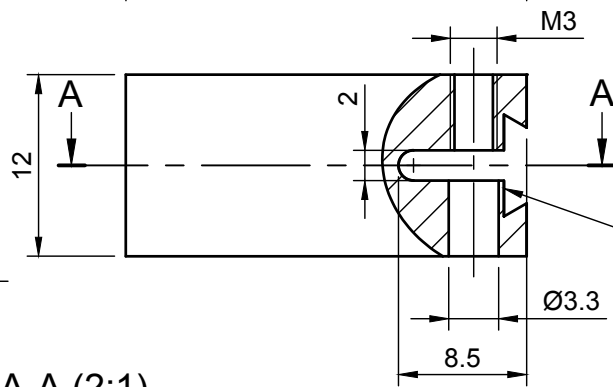
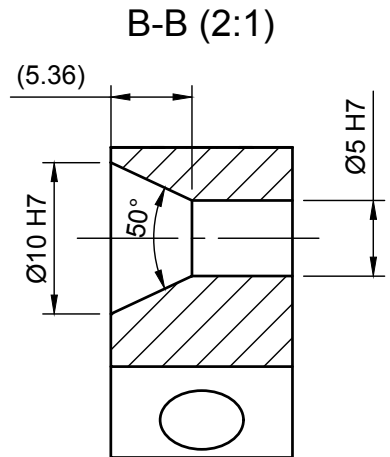
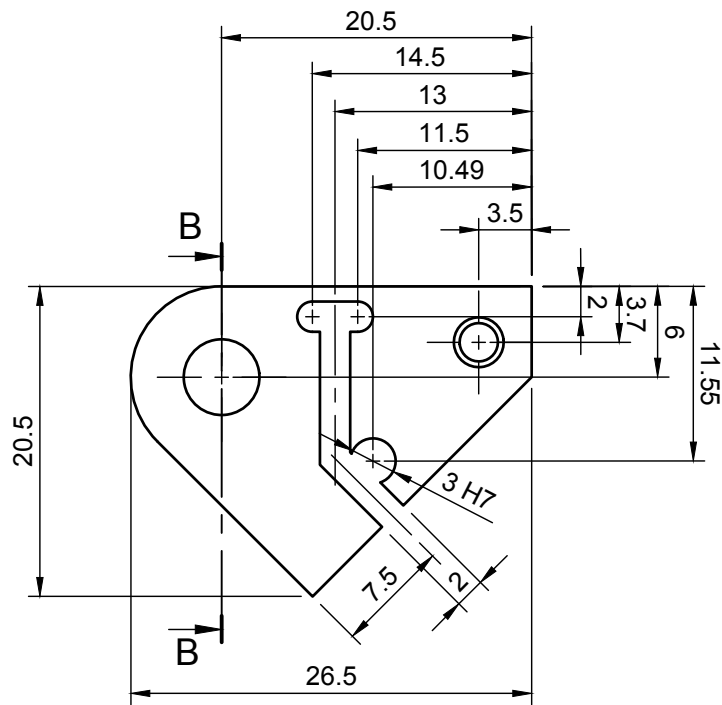
Dept.	Technical reference	Created by Stefan Gotteswinter 02.05.26	Approved by		
		Document type Subassembly	Document status		
		Title Arm	DWG No.		
			Rev.	Date of issue	Sheet 4/12



Straight knurl
 recommendation: 72
 Teeth, 1mm deep, 90°

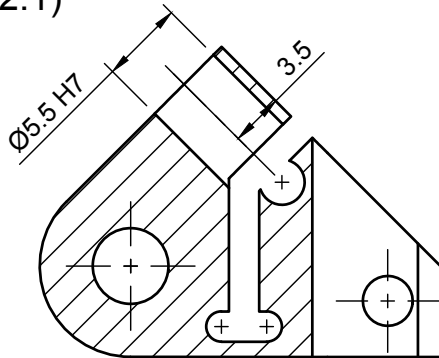


Dept.	Technical reference	Created by Stefan Gotteswinter 02.05.26	Approved by	
Standard Tolerance ISO-2768 fH Material: 1.7225 (42CrMo4 +QT)		Document type Part	Document status	
		Title Main Body	DWG No.	
		Rev.	Date of issue	Sheet 5/12

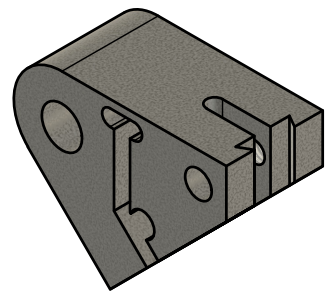


Fit Dovetail to Dial Test indicator.
The dovetail angle is usually 60°

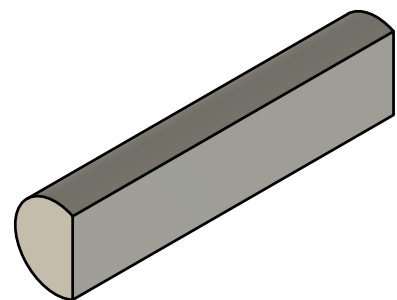
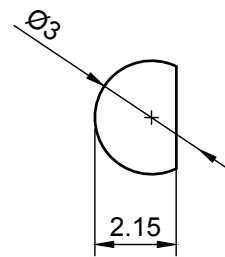
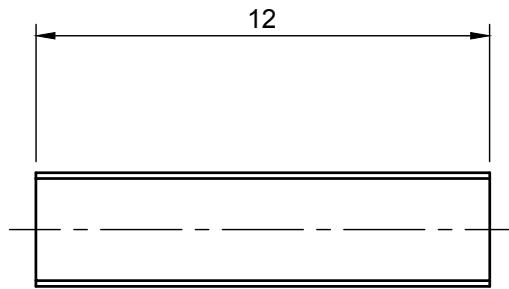
A-A (2:1)



The Ø5,5H7 bore has been chosen for a Thorlabs threaded bushing (See Assembly drawing) - A suitable fine thread can also be directly drilled/tapped into the fine adjust block.



Dept.	Technical reference	Created by Stefan Gotteswinter 02.05.26	Approved by	
Standard Tolerance ISO-2768 fH Material: Toolox33 / 44 or 42CrMo4+QT or 1.2312 (P20+S) or equal		Document type Part	Document status	
		Title Fine Adjust Block	DWG No.	
		Rev.	Date of issue	Sheet 6/12



Dept.	Technical reference	Created by Stefan Gotteswinter 02.05.26	Approved by	
Standard Tolerance ISO-2768 fH Material: Tungsten Carbide		Document type Part	Document status	
		Title Carbide Pad	DWG No.	
		Rev.	Date of issue	Sheet 7/12

Adjuster Screw M4x0,25

Thorlabs Part F4MSS15

Tungsten Carbide Pin,
bonded with Loctite 648

Threaded Bushing M4x0,25
Bonded with Loctite 648

Thorlabs Part F4MSSN1P

Knurled Knob

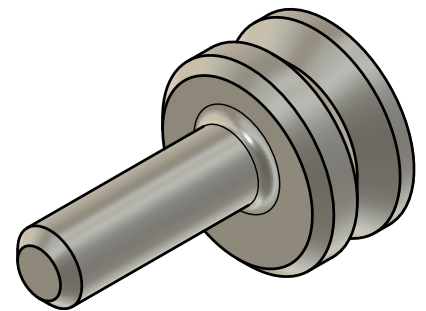
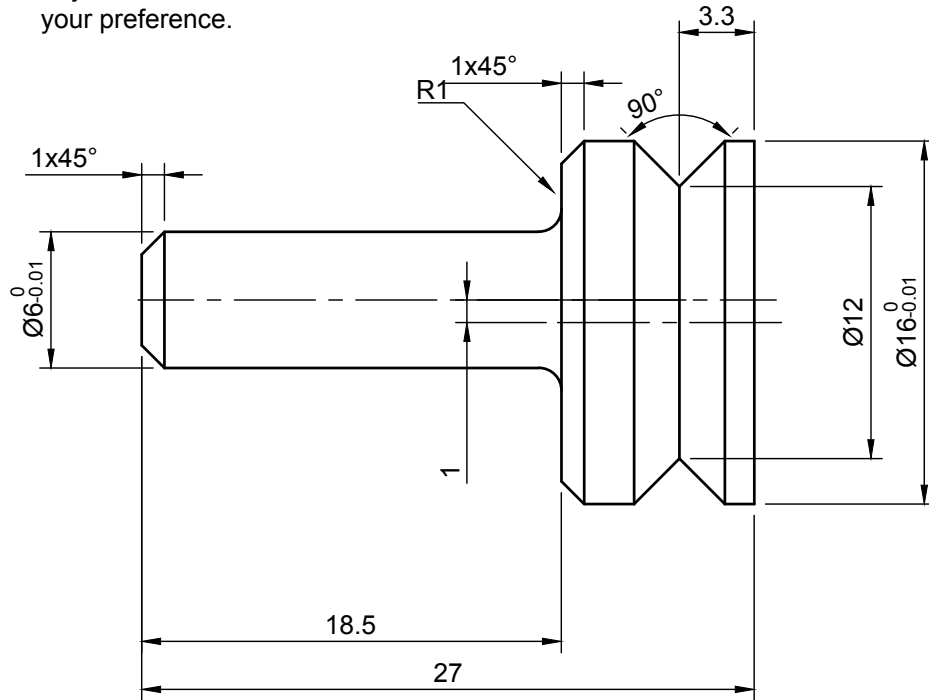
Thorlabs part F4MSSK1L

Notes:

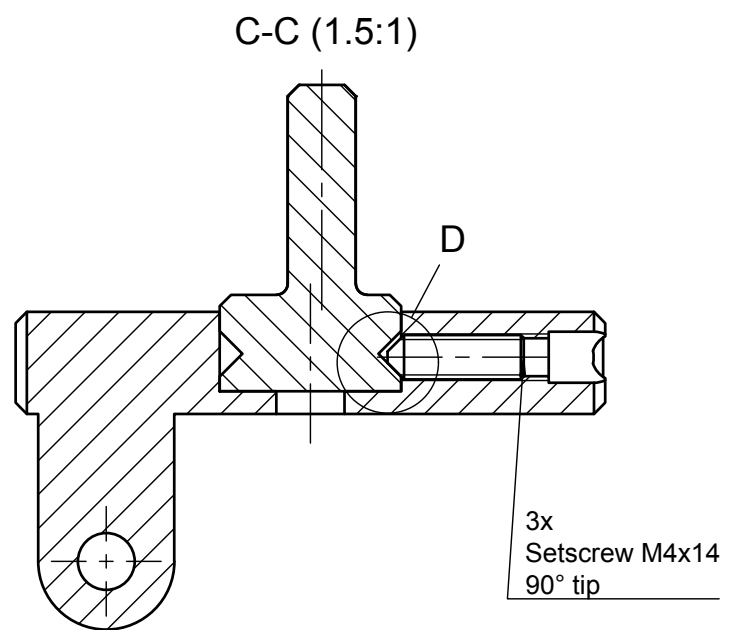
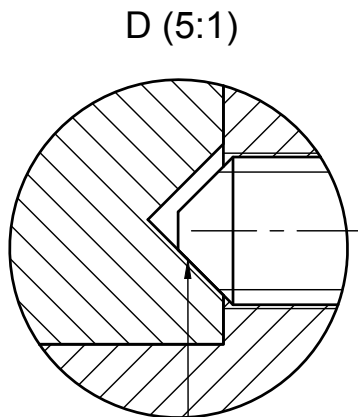
1. The Thor Labs parts are just a recommendation. It is viable to drill/tap the fine adjust block and use a standard metric or metric fine thread and commercial screw.
2. Adjust the length of the adjuster screw so it can not permanently deform the flexture. The correct length of the screw has to be determined by trial and error, since the behaviour of the flexture is determined by the material chosen and its yield strength

Dept.	Technical reference	Created by Stefan Gotteswinter 02.05.26	Approved by	
		Document type Subassembly	Document status	
		Title Fine Adjust Block	DWG No.	
		Rev.	Date of issue	Sheet 8/12

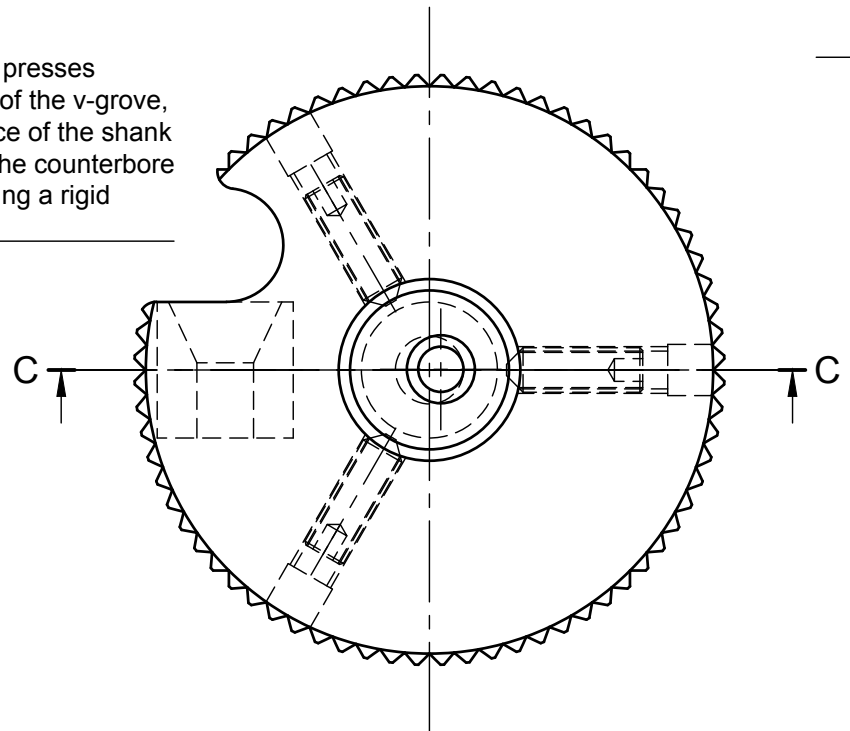
Adjust 6mm shank size to your preference.



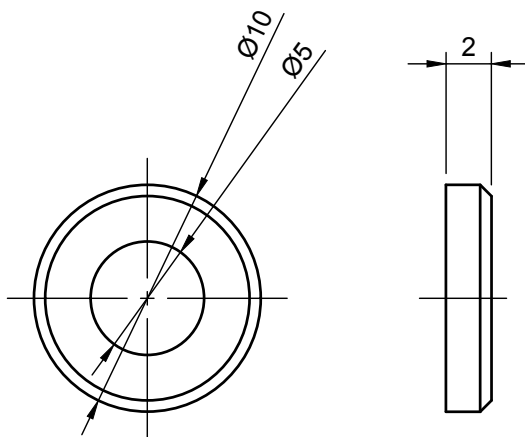
Dept.	Technical reference	Created by Stefan Gotteswinter 02.05.26	Approved by	
Standard Tolerance ISO-2768 fH Material: Toolsteel Machine from HSS in hardened condition or Machine from soft toolsteel, harden and grind/hardturn		Document type Part	Document status	
		Title Shank 6mm	DWG No.	
		Rev.	Date of issue	Sheet 9/12



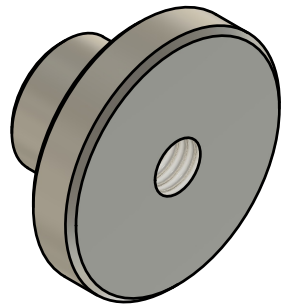
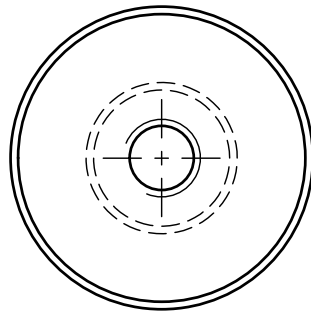
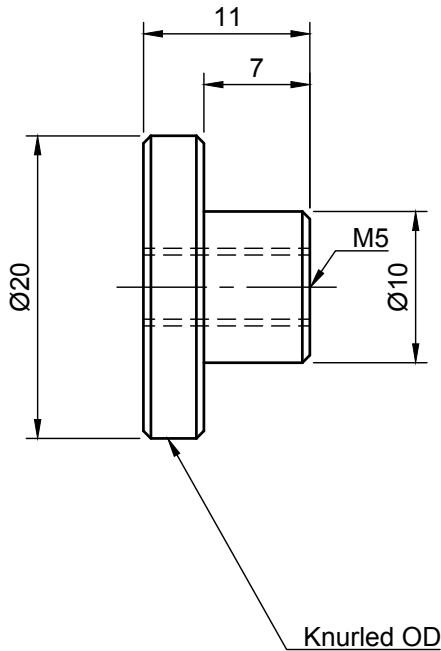
The tip of the setscrew presses against the lower flank of the v-groove, therefore pulling the face of the shank up against the floor of the counterbore in the main body, creating a rigid mounting situation.



Dept.	Technical reference	Created by Stefan Gotteswintner 02.05.26	Approved by	
		Document type Subassembly	Document status	
		Title Main Body	DWG No.	
		Rev.	Date of issue	Sheet 10/12



Dept.	Technical reference	Created by Stefan Gotteswinter 02.05.26	Approved by	
Standard Tolerance ISO-2768 fH Material: Brass or Bronze 2x Required		Document type Part	Document status	
		Title Washer	DWG No.	
		Rev.	Date of issue	Sheet 11/12



Dept.	Technical reference	Created by Stefan Gotteswinter 02.05.26	Approved by	
Standard Tolerance ISO-2768 fH Use Standard Part, for example Knurled Nut DIN 644 or machine from solid	Material: Steel / Stainless Steel	Document type Part	Document status	
		Title Knurled Nut	DWG No.	
2x Required		Rev.	Date of issue	Sheet 12/12