Reliable clamping of any workpiece

- Safe, flexible and easy to use
- Accurate and consistent results
- Fast clamping with Quick clamping function
A great cut starts with good clamping
Uneven sectioning causes deformations and irregular heat development which changes the structure of the sample. By choosing the right clamping solution, these damages are reduced.

With the right clamping solution, the operator can cut closer to the area of interest and even use thin cut-off wheels. This saves time for grinding and reduces the risk of burns.

We aim to have a complete, flexible range for just about any need:

- Regular workpieces have surfaces which make them simple to clamp. Examples are shafts, cylinders, tubes, and camshafts.
- Irregularly or odd-shaped workpieces have a geometry which does not fit into conventional clamping tools. Examples: Bolts, valves, gear parts, and clutch parts.

Purpose-designed tools
When you have a particular requirement, you can benefit from Struers many years of experience in application knowledge and customized clamping solutions.

Customized solutions can improve efficiency and process reliability at the same time. By designing a fixture for the workpiece, we achieve an improved repeatability, accuracy, and turnaround time.

Workpieces that require multiple cuts are relevant for customized solutions. Examples are crankshafts, CV joints, ball-shaped parts, and long shafts for serial cutting.

Even the most well-built cut-off machine needs good clamping devices to achieve great cutting results. Struers designs solid and easy-to-use clamping tools to meet any requirement. We offer an extensive programme of clamping tools to fit regularly as well as irregularly shaped workpieces.

Did you know…
We are often met with particular requirements for clamping challenges and constantly update our product range according to them. Contact your sales representative for a need assessment.

Struers clamping tools are efficient
- Fast turnaround time
- Consistent cutting results
- Easy maintenance
- Easy positioning in T-slots
- Customized solutions for odd shapes

Clamping solutions for any materialographic sectioning
Quality of clamping is critical for quality of the cut. The wide range of clamping tools from Struers is designed to contribute to great materialographic cutting results.

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REGULARLY SHAPED WORKPIECES

Quick clamping tools
Easy and safe to use, the comprehensive range of quick clamping tools is a great option for operators who wish to clamp directly on the cutting table. The clamping set-up can be changed quickly and clamping is easily activated or released with one lever. The clamping force is constant and resilient over time. That means faster turnaround and consistent clamping.

Adjustable support for cylindrical parts
The adjustable support is used for cylindrical work pieces for both cross sectioning and for longitudinal cuts.

Adjustable stop for serial cutting
Convenient and precise setting of distances when performing repetitive cutting into same lengths. Used together with the end stop, the correct distance to the cut-off wheel can easily be set with the included ruler.

Pinch-reduction clamping tools
The easily adjustable and compact pinch-reduction tools limit deformations from the cut. Long, solid workpieces of hardened steel tend to build up internal stress during longitudinal cuts. That pinch-effect can cause cut-off wheels to get stuck, cause deformation or break. The tool reduces that effect.

T-slot turntable
The T-slot turntable for angular cutting accommodates all of our clamping tools and is easily disassembled without tools, for cleaning.

Base plate clamping tools
The design of this clamping tool for small and odd-sized workpieces is based on experience from the well-proven quick clamping tools. With its supporting rails and integrated backstop, the tool is great for clamping on one side or uneven surfaces. The easily activated, resilient clamping function ensures consistent results.

Jaws and prisms
Prism, Extended and Rubber jaws are available as accessories to ensure an optimal grip of the workpiece.

IRREGULARLY SHAPED WORKPIECES

Vertical clamping tools
The vertical clamping tool is an invaluable tool for clamping of irregular samples, e.g. gear parts. It can be combined with:
- Optional riser block for increased clamping height.
- Optional set of Swivel Shoes for optimum hold.
- Optional Arm Extension.

Chain spanner
The chain spanner is ideal for clamping of irregularly shaped workpieces.

Adjustable support blocks
The adjustable support blocks are turnable and can be adjustable both horizontally and vertically. They are available in stand-alone or baseplate versions and can be used with crowns in different heights.

Sliding rail kit
Ideal for use with vertical clamping tool. The sliding rail allows a reliable extended clamping position by up to 145 mm.

Base plate clamping tool with grooved jaws.
Vertical clamping tools with chain spanners.
Base plate tool with prism type jaw blocks. When applying pressure, the workpiece is pressed towards the cutting table.
Quick clamping tool with prism jaws and adjustable stop for serial cutting.
Vertical quick clamping tool, suitable for low, regular-shaped workpieces.
F-slot turntable, suitable for angular cutting of, e.g. tubes.
Vertical clamping tools with support blocks, riser blocks, arm extensions and crowns in different heights.
Base plate tool right 12 mm with prism jaws.
**SPECIFICATIONS FOR REGULARLY SHAPED WORKPIECES**

**For quick, effortless cleaning of 10 and 12 mm T-slots. Usable when you have trouble repositioning the clamping tools.**

**T-slot cleaner**

**ACCESSORIES**

**For securing the workpiece on the left side of the cut-off wheel. Max. sample height: 50 mm.**

- **Left:** 05876922
- **Right:** 06316916

**Optional jaws blocks for use with quick clamping tool for 10 mm T-slots, set of 2**

- **Type jaw blocks**
  - For clamping of round and oval workpieces. 05876914
  - Rubber-coated jaw blocks. 05876915
  - Grooved jaw blocks. 05876917

**T-slot turntable for 10 mm T-slots**

- **For retaining the workpiece on the left side of the cut-off wheel.**
  - Jaw movement: 50 mm. Jaw height: 42 mm
  - Left: 06316914
  - Right: 06316918

**T-slot turntable for 12 mm T-slots**

- **For retaining the workpiece on the left or right side of the cut-off wheel.**
  - Jaw movement: 60 mm. Jaw height: 83 mm
  - Left: 06316914
  - Right: 06316918

**T-slot turntable**

- **For securing regularly workpieces on left or right side of cut-off wheel.**
  - Jaw movement: 60 mm. Jaw height: 116 mm
  - Left: 06316928
  - Right: 06316929

**Optimal jaw blocks, set of 2**

- **XL prism type jaw blocks for 12 mm T-slots**
  - For optimum clamping of round and oval workpieces. 05899310

**Vertical quick clamping tool for 10 mm T-slots**

- **For securing the workpiece on the left side of the cut-off wheel. Max. sample height: 50 mm.**
  - Left: 06316932
  - Optional jaw blocks
  - Single prism jaw blocks for vertical quick clamping tool for 10 mm T-slots
  - Jaw block for optimum clamping of round and oval workpieces. 05876926

**High vertical quick clamping tool for 10 mm T-slots, left**

- **For securing the workpiece on the left side of the cut-off wheel. Max. sample height: 60 mm. Min. sample height: 35 mm.**
  - 06316932

**Spring clamp for 8 mm T-slots, left**

- **For retaining the workpiece on the left side of the cut-off wheel.**
  - 05996916

**Spring clamp for 10 mm T-slots, right**

- **For retaining the workpiece on the right side of the cut-off wheel.**
  - 05938793

**T-slot turntable**

- **Suitable for angular cutting of e.g. tubes. The T-slot turntable accommodates all of our clamping tools and is easily disassembled without tools, for cleaning. It is designed with rhombus T-slots for easiest mounting and repositioning.**
  - 0.5°-90° degree turnable T-slot table for angular cutting.
  - - Mount straight or sideways for optimum positioning.
  - - T-slot turntable for 10 mm T-slots
  - - T-slot turntable for 12 mm T-slots
  - - Adjustable support for cylindrical parts
  - - To support cylindrical work pieces for both cross sectioning and for longitudinal cuts. For 10 or 12 mm T-slots.
  - - Consists of one base plate and two prism parts.
  - - Adjustable stop for serial cutting
  - - For serial cutting of equally sized samples. Complete with 10 or 12 mm T-nut, ruler and Allen key.
  - - Pinch-reduction clamping tool, for 10 mm T-slots, left + right
  - - For clamping of workpieces with internal stress. To reduce/avoid pinching of the cut-off wheel. Complete with spanner.
  - - Pinch-reduction clamping tool, for 12 mm T-slots, left + right
  - - For clamping of workpieces with internal stress. To reduce/avoid pinching of the cut-off wheel. Complete with spanner.

**SPECIFICATIONS FOR IRREGULARLY SHAPED WORKPIECES**

**Vertical clamping tool for 8 mm T-slots**

- **Clamping height adjustable up to 58 mm. Complete with operating key and one flat clamping shoe.**
  - 05369195

**Vertical clamping tool for 10 mm T-slots**

- **Clamping height adjustable up to 58 mm. Complete with operating key and one flat clamping shoe.**
  - 05116905

**Vertical clamping tool for 12 mm T-slots**

- **Clamping height adjustable up to 105 mm. Complete with operating key and one flat clamping shoe.**
  - 05046904

**Swivel shoes for vertical clamping tool**

- **For optimum hold. Set of 4 multi-shaped swivel shoes for vertical clamping tool (03046904, 03169095 or 03099815).**
  - 05116911

**Arm extension for vertical clamping tool**

- **For extending clamping arm of 8 mm, 10 mm and 12 mm vertical clamping tool (03036915, 03169095, 03446904).**
  - 05046906

**Riser block for 10 mm T-slots**

- **For elevating vertical clamping tool (05116905) when clamping high work pieces. To increase the clamping height by 60 mm**
  - 05046906

**Riser block for 12 mm T-slots**

- **For elevating vertical clamping tool (05046904) when clamping high work pieces. To increase the clamping height by 74 mm**
  - 05046906

**Sliding Rail Kit, incl. 12 mm vertical clamping device**

- **Complete with operating key, stop and one exchangeable flat swivel shoe. Max clamping height: 145 mm**
  - 05876922

**Chamfer spanner for 12 mm T-slots**

- **Complete with anchor block and operating key.**
  - 05446912

**0.5 m extension chain**

- **For use with chamfer spanner (05046912), including chain assembly set.**
  - 05446924

**Support block with base plate, for 12 mm T-slots**

- **Turnable, horizontally and vertically adjustable support block with base plate. Height adjustment range 20 mm. Used with customizable crowns (05876902), which are ordered separately. Additional support blocks (05876923) can be added to the base plate.**
  - 05876901

**Support block for 12 mm T-slots**

- **Turnable, horizontally and vertically adjustable support block. Height adjustment range 20 mm.**
  - Used with customizable crowns (05876903/05876904), which are ordered separately.
  - **Extra support block for 12 mm T-slots**
    - Additional support block for use with support block (05876901)
    - 05876923
  - **Crown for support block, 60-80 mm**
    - Customizable crown. Used with support block (05876901 or 05876924), height adjustment range 60-80 mm.
    - 05876902
  - **Crown for support block, 80-100 mm**
    - Customizable crown. Used with support block (05876901 or 05876904), height adjustment range 80-100 mm.
    - 05876903
  - **Crown for support block, 100-120 mm**
    - Customizable crown. Used with support block (05876901 or 05876904), height adjustment range 100-120 mm.
    - 05876904

**Base plate clamping tool, for 8 mm T-slots, right**

- **For securing small and irregular workpieces on the right side of the cut-off wheel. Complete with spanner. Jaw movement: 60 mm. Max. round workpiece height: 62 mm.**
  - 05876907

**Base plate clamping tool, for 10 mm T-slots, left**

- **For securing small and irregular workpieces on the left side of the cut-off wheel. Complete with spanner. Jaw movement: 115 mm. Max. round workpiece height: 82 mm.**
  - 05876905

**Base plate clamping tool, for 12 mm T-slots, right**

- **For securing small and irregular workpieces on the right side of the cut-off wheel. Complete with spanner. Jaw movement: 115 mm. Max. round workpiece height: 82 mm.**
  - 05876906

**Base plate clamping tool, for 12 mm T-slots, left**

- **For securing small and irregular workpieces on the left side of the cut-off wheel. Complete with spanner. Jaw movement: 240 mm. Max. round workpiece height: 82 mm.**
  - 05876908

**Base plate clamping tool, for 12 mm T-slots, right**

- **For securing small and irregular workpieces on the right side of the cut-off wheel. Complete with spanner. Jaw movement: 240 mm. Max. round workpiece height: 82 mm.**
  - 05876909

**Ball clamping tool for 8 mm T-slots**

- **With easy positioning of the workpiece. Clamping range 4-12 mm dia.**
  - 05996917

**Fixed stand for 10 mm T-slots**

- **Stand for specimen holders with dovetail clamp.**
  - 05876927

**Clamping set tool box**

- **The stands and clamps can be combined as building blocks in numerous ways and there is always a possibility to support and clamp even challenging work pieces.**
  - 05876901

**Cut-off machine 8 mm T-slots 10 mm T-slots 12 mm T-slots**

<table>
<thead>
<tr>
<th>Section</th>
<th>8 mm T-slots</th>
<th>10 mm T-slots</th>
<th>12 mm T-slots</th>
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