BENEFITS

- » quick adaption
- » modular clamping system for various combinations
- » use with standard clamping systems



instruments







Easy-clamping base M

Easy-clamping base L

Easy-clamping base XL

QUICK, FLEXIBLE AND COPLANAR

The unique Easy-clamping base serves as a quick clamping station for a variety of vices and extensions blocks.

Fixing, adjusting and removing to machine tables with t-slots is done in a few seconds by turning just a single screw.



MATCHING EASY-CLAMPING BASE

BRILLANT	M	L	XL
200			
220			
230/250 255/265			
255/265			
275			
285			
2000		*	

^{*} only conditionally recommended





MACHINE TABLE

All recent ATM machine tables are standardly equipped with t-slots. (retrofitting possible).



Change of preassembled Easy-clamping bases



Flexible by rotating and clamping elements

OPERATION

The flexible modular system of combining rotating and clamping with standard clamping elements saves from difficult and painstaking mounting of clamping tools into t-slots. Therefore the Easy-clamping system is a great benefit for your everyday

BRILLANT 220 230 250





DIRECT ADAPTION

- » fast lock vice 50
- » fast lock vice 60
- » fast lock vice 80*
- » clamping system X-Clamp 3858

*not suitable for Brillant 220

EASY-CLAMPING BASE M

Order No.: Z2236008

» for machine tables with T-slots

» incl. clamping key

WxHxD 15x80x200 mm

MATCHING MODULES

- » rotatable plate (base for headpieces and rotatable modules)
- » head piece 1 (base for vacuum- and duo sample holder)
- » head piece 2 (base for fast lock vice 50)
- » head piece 3 (intermediate module for rotating plates)
- » head piece 4 (base for fast lock vice 60)

200 250 255 265 275 285 2000* BRILLANT 230

EASY-CLAMPING BASE L

Order No.: Z2236011

» for machine tables with T-slots

» incl. clamping key

WxHxD 20x80x245mm



only conditionally recommended

DIRECT ADAPTION

- » fast lock vice 60
- » fast lock vice 80
- » adapter for universal vices: V-block plate, system height adapter, guide bar with sliding carriage and V-groove block

MATCHING MODULES

- » rotatable plate (base for headpieces and rotatable modules)
- » head piece 1 (base for vacuum- and duo sample holder)
- » head piece 2 (base for fast lock vice 50)
- » head piece 3 (intermediate module for rotating plates)
- » head piece 4 (base for fast lock vice 60)

2000 BRILLANT 275 285



EASY-CLAMPING BASE XL

Order No.: Z2236026

» for machine tables with T-slots

» incl. clamping key

WxHxD 20x100x400 mm

DIRECT ADAPTION

- » guide bar with sliding carriage 400 set (base for universal vice Mono 132 and chain clamping vice)
- » universal power clamp 100/380



ROTATABLE PLATE

The rotatable plate is an intermediate module for angle adjustment with 15°-increments and a precision of 1/2°. The fitting head pice is easily to adapt to the clamping element by a quick holding fixture.



Extension of the pivotal dimension by several rotatable plates

SWIVELING, ROTATING, CLAMPING

Various Easy-clamping modules are a great benefit for your everyday work. The prooved fast lock vices combined with the Easy-clamping modules serve as a quick clamping station for a variety of vices and extensions blocks.

Changing of configured clamping vices with Easy-clamping

bases is as fast than ever.





Product video: https://www.youtube.com - enter ,atm, easy'.

CLAMPING MODULES XL

Clamping of large components in large machines requires a very firm clamping tool. Therefore, the modules for the Easy-clamping system XL are a particularly strong. They can be built up only with power clamp 100/380 and the guide bar for universal vice Mono 132 and chain clamping vice.



Guide bar with universal vice



Guide bar with chain clamping vice



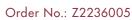
Universal power clamp 100/380



MODULES FOR EASY-CLAMPING BASE M AND L

ROTATABLE PLATE





» quick holding fixture for quick and easy changing the head piece

» incl. clamping key

Angle precision	1/2°	
Increments	15°	

MATCHING MODULES



- » Head oiece 1 (base for vacuum- und Duo-sample holder)
- » Head piece 2 (base for fast lock vice 50)
- » Head piece 3 (intermediate module for rotatable plates)
- » Head piece 4 (base for fast lock vice60)
- » Swiveling prism 60 and 100





Vacuumsample holder



Duo-sample holder

HEAD PIECE 1



Order No.: Z2236006

» base for vacuum-/Duo-sample holder





Fast lock vice 50

HEAD PIECE 2





Order No.: Z2236007

» base for fast lock vice 50 and customized solutions





Swivel unit with fast lock vice 50

HEAD PIECE 3





Order No.: Z2236016

- » intermediate module with angle 90° for adapting an additional rotatable plate
- » with additional rotatable plate adaption for swiveling unit with fast lock vice 50 and 60









Order No.: Z2236025

» base for fast lock vice 60 and customized solutions









Swiveling prism 60



Swiveling prism 100

SWIVELING PRISM



- » for cylindrical samples Ø 4-20 mm » swivel range adjustable 0-90°
- Swiveling prism 60 Order No.: Z2236021

Swiveling prism 100 Order No.: Z2236023





CLAMPING ELEMENT FOR HEADPIECE 1 | ROTATABLE PLATE

VACUUM SAMPLE HOLDER

Order No.: Z2236002





» for thin section and unclampable samples

For microscope slide 28 x 48 mm

Vacuum pump

230 V/50 Hz (1Ph/N/PE) Order No.: Z1304600 110 V/60 Hz (1Ph/N/PE) Order No.: Z1304634

CLAMPING ELEMENT FOR HEADPIECE 1 | ROTATABLE PLATE

DUO SAMPLE HOLDER







Order No.: Z2236003

- » for thin section and target preparations
- » clampable with quick holding fixture to parallel-grinding unit of Rubin 540
- » 4 ball head screws

Max. sample size $30 \times 55 \text{ mm}$







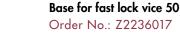
Cutting and grinding with just one mounting



CLAMPING ELEMENT FOR HEADPIECE 3 | 2 ROTATABLE PLATES

SWIVEL UNIT VICE





Base for fast lock vice 60 Order No.: Z2236018







Mounting example

MODULES FOR EASY-CLAMPING BASE L

SYSTEM-HEIGHT ADAPTER 50



Order No.: Z1304631 » multiple mountable

- » base for fast lock vice 80
- » extension with V-block plate 40 for universal vices
- » incl. set of center bolts

Construction height 50 mm





Universal vice Piccolo

Universal vice Mono

center bolts

V-BLOCK PLATE 40



Order No.: Z1304624

- » base for universal vices
- » for Easy-clamping base L (please order set of center bolts)
- » also usable without Easy-clamping base, incl. fasteners

Construction height 40 mm T-slot 12 mm

ACCESSORIES

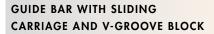
SET OF CENTER BOLTS



Order No.: Z2236013

» for mounting to Easy-clamping base or height-adapter









- » base for Universal vices Mono
- » for clamping crankshafts, camshafts
- » bar 280 mm, with sliding carriage, V-groove block
- » incl. fasteners for T-slot 12 mm



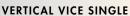
without Universal vice



VERTICAL VICE



- » for clamping of delicate, thin specimens
- » integrated Easy-clamping base M or L
- » incl. adjustable stop



Order No.: Z2236009 » with Easy-clamping base M

Order No.: Z2236019 » with Easy-clamping base L

VERTICAL VICE DOUBLE

» detached segment is still clamped after

Order No.: Z2236010 » with Easy-clamping base M

Order No.: Z2236020 » with Easy-clamping base L

BRILLANT 275 285 2000



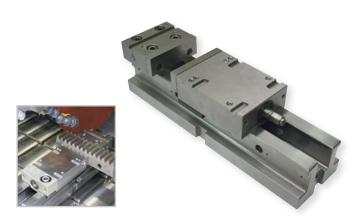
GUIDE BAR 400 SET



Order No.: Z1350024

- » base for Universal vices Mono, Duo, chain clamping unit
- » for clamping crankshafts, camshafts
- » bar 400 mm, standard sliding carriage
- » 1x V-groove block 120°
- » 2x slanted resting blocks
- » incl. fasteners for T-slot 12 mm





UNIVERSAL-POWER CLAMPING SYSTEM 100/380



Order N.: Z2234015

- » integrated mechanical-hydraulic power
- » with standard clamping jaws plane/grooved, h 34 mm
- » incl. fasteners for T-slot nuts 12 mm and hand crank

Clamping width	0 – 205 mm
Max. clamp force	25 kN
Weight	18.5 kg
WxHxD	100x104x466 mm

UNIVERSAL-POWER CLAMPING SYSTEM 100/540





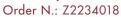
- » integrated mechanical-hydraulic power
- » incl. fasteners for T-slot nuts 12 mm

Clamping width	0 – 365 mm
Max. clamp force	25 kN
Weight	26.3 kg
WxHxD	100x104x625 mm





V-Groove jaw



- » horizontal V-groove
- » combinable with flat jaw h 80 mm
- » incl. fixing screws



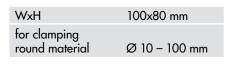
Angle drive



» crank with top operation









Flat jaw/h 80 mm

Order N.: Z2234017

- » grooved tightening surface
- » for clamping parallel specimens
- » combinable with V-groove jaw

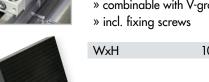
100x80 mm











220 BRILLANT



FAST LOCK VICE 50

» with manual force amplification

Jaws WxH 35x25 mm Incl. accessories Nutbreite 8 mm M direct adaption head piece 2 swifel unit

L head piece 2 swifel unit

Clamping range 50 mm	Clamping range 100 mm
Order No.: Z2270002	Order No.: Z2270003
» lever left	» lever left
Order No.: Z2270000	Order No.: Z2270001
» lever right	» lever right

V-groove jaw

Order No.: 02270011



round materials Ø 1-35 mm

220 BRILLANT 230 250 255 265





FAST LOCK VICE 60

- » with force memory system
- » horizontal fixation of round materials

Jaws WxH	60x32 mm
HxD	54x195 mm

M direct adaption head piece 4 swifel unit

L direct adaption head piece 4 swifel unit

Clamping range 120 mm

Order No.: Z2235002

» lever left

Order No.: Z2235001

» lever right

V-groove jaw

Order No.: 02235013

round materials Ø 2-35 mm





BRILLANT 200 230 250 255 265 275 285 2000



FAST LOCK VICE 80

» with force memory system

» horizontal fixation of round materials

Jaws WxH 80x35 mm HxD 71x203 mm M direct adaptionL direct adaption height adapt. 50

Clamping range 100 mm Order No.: Z2231001

» lever left

Order No.: Z2231004

Clamping range 150 mm

Order No.: Z2231002

» lever right

» lever left

Order No.: Z2231003

» lever right



V-groove jaw Order No.: 02231016

round materials Ø 2-40 mm

BRILLANT 265 275 285 2000





Rotating plate 2x 60°

Order No.: Z1304560

» manual rotation of clamping tool

» manual horizontal move on machine

table

Clamping range 100 mm Swivel range +/- 60°



CROSS VICE

- » especially suitable for samples which contract during cutting process by material tension: the samples are pulled apart by the transversely exciting jaws
- » for parallel clamping of round and rectangular samples, particular for longitudinal cutting through hardened materials
- » excentric clamping arrangement allows rapid changing of samples



BRILLANT 2	00 230	250	255	265
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CROSS VICE 50/100

Order No..: Z1340010 » counter holder adjustable

WxH	$50 \times 50 \text{ mm}$
Round materials	Ø max. 60 mm
Clamping range	max.100 mm
Incl. accessories	T-slot 12 mm

BRILLANT	255*	265	275	285	2000

^{*} auf Anfrage



CROSS VICE 80/100

Order No.: Z1340000 » counter holder adjustable

WxH	80 x 50 mm
Round materials	Ø max. 90 mm
Clamping range	max.100 mm
Incl. accessories	T-slot 12 mm

BRILLANT	275	285	2000
	2/3	200	2000



CROSS VICE 80/150

Order No.: Z1340001 » counter holder adjustable

WxH	80 x 50 mm
Round materials	Ø max. 90 mm
Clamping range	max.150 mm
Incl. accessories	Nutbreite 12 mm

BRILLANT	255	265	275	285	2000
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EXPANSION CLAMPING DEVICE

Order No.: Z1304636

» to release material tension of cylindrical, hollow workpieces

Inner sample-Ø	55 – 120 mm
Adjustment*	ca. 10 mm

* extendable by exchange of cylindrical pins

Cutting accessories ANGLE VICES

BRILLANT	230	250	255	255	275	285	2000
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ANGLE VICE 60

Order No.: Z1304001

» vertically centered, stainless

» 2x plain jaws

Sample-Ø V-groove jaw	max. 60 mm
Clamping range	55 mm
Rotatable	270°
Incl. accessories	T-slot 12 mm

V-groove jaw

Order No.: 01304008



Round materials Ø 10-60 mm

BRILLANT	255	255	275	285	2000
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ANGLE VICE 80

Order No.: Z1302000

» vertically centered, stainless

» 2x plain jaws

Sample-Ø V-groove jaw	max. 60 mm
Clamping range	70 mm
Rotatable	270°
Incl. accessories	T-slot 12 mm

V-groove jaw

Order No.: 01302016



Round materials Ø 10-60 mm

BRILLANT	230	250	255	255	275	285	2000



ROTATING VICE 60

Order No.: Z1304002

» vertically centered, stainless

» 2x plain jaws

Sample-Ø V-groove jaw	max. 60 mm
Clamping range	max. 55 mm
Sample-Ø	Ø 60 mm
Swivel range	90°
Incl. accessories	T-slot 12 mm

V-groove jaw

Order No.: 01304008



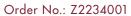
Round materials Ø 10-60 mm

BASIC MODULE

BRILLANT 255 265 275 285 2000

UNIVERSAL POWER CLAMPING SYSTEM LC 90





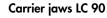
- » easy and safe clamping of various workpieces
- » various clamping jaws available
- » up to 28 kN tension with modest effort through mechanical power transmission
- » adjustable clamping force (11 settings)
- » incl. fasteners for t-slot nuts 12 mm and hand crank

ACCESSORIES



(





Order No.: Z2234003

- » 1 pair, base for V-groove jaw and flat jaw 100
- » easy fastening with just one screw
- » made of high-strength aluminium with ceramic coating





V-groove jaw 100

Order No.: Z2234004

- » 1 piece, combinable with flat jaw 100
- » rotatable jaw (case-hardened steel)
- » jaw size (WxH) 100 x 70 mm
- » two horizontal V-grooves
- » for clamping round material between Ø 10 and 100 mm
- » incl. fixing screw

Flat jaw 100

Order No.: Z2234005

- » 1 piece, combinable with flat jaw 100
- » rotatable jaw (case-hardened steel)
- » jaw size (WxH) 100 x 70 mm
- » flat tightening surface
- » for clamping parallel specimens
- » incl. fixing screw

QUICK-CHANGING DEVICE

Order No.: Z2234009

- » 1 pair
- » quick and easy connection of modules by using pull-down-studs
- » for fixation of

step jaw 100 clamping system X-Clamp 100 customized clamping solutions





STEP JAW 100

Order No.: Z2234008

- » 1 pair
- » clamping of parallel workpieces
- » application of clamping force via basic module LC 90
- » 180° rotatable
- » use only with quick changing device



CLAMPING SYSTEM X-CLAMP 100



Order No.: Z2234002

- » 1 pair
- » individual and safe clamping of various specimen shapes and sizes with spring suspended stainless steel plungers
- » perfect form fit with minimal effort
- » time-saving
- » use only with quick-changing device
- » incl. torque wrench and fixing screws



ACCESSORIES

BASE 90°



Order No.: Z2234006

- » for installing the basic module LC 90 in side position 90°
- » incl. fixing material for T-slot nut DIN 650 12 mm

SUPPORT MODULE



Order No.: Z1350023

- » 1 piece
- » for supporting long workpieces
- » reducing of vibrations
- » spring suspended plungers fit tightly to the specimen
- » fixation of plungers
- » supplementary fixation of workpiece from above possible with universal vice
- » quick and easy connection of modules by using pull-down studs



CUSTOMIZED CLAMPING JAWS

» ATM-service: send us your drawing (DXF or DWG-file) or fotos of your workpiece. We will design your individually optimized clamping vice.



BRILLANT 200 220 230 250



BASIC MODULE

CLAMPING SYSTEM X-CLAMP 3858

Order No.: Z2234010 M direkt



» individual and safe clamping of various smaller specimen shapes and sizes with spring suspended stainless steel

» perfect form fit with minimal effort

» time-saving

» incl. torque wrench

Plunger area WxH 23x20 mm
Plunger stroke 12 mm
Max.
clamping width 118 mm

ACCESSORIES

BASE FOR CLAMPING SYSTEM X-CLAMP 3858



» incl. fixing material

Order No.: Z2234012

» for fixation with T-slot nut 8 mm

Order No.: Z2234011

» for fixation with T-slot nut 12 mm





UNIVERSAL VICES Cutting accessories

BRILLANT	200	220	230	250



L hight adapter 50 V-block plate 40



UNIVERSAL VICE PICCOLO 54

Order No.: Z1350008

» incl. handle

Working radius	54 mm
Clamping height	- 15 - 58 mm
Clamping force	6,5 kN
Fixing screws	M 8 x 25
T-slot nut stainless	M8 x 12

UNIVERSAL VICE PICCOLO 100

Order No.: Z1350012

» incl. handle

Working radius	100 mm
Clamping height	- 40 - 90 mm
Clamping force	4,2 kN
Fixing screw	M 8 x 25
T-slot nut stainless	M 8 x 12

SUITCASE SET **UNIVERSAL VICE PICCOLO 54**

Order No.: Z1350010

- » 2x universal vice Piccolo 54
- » 2x height adapter Piccolo
- » 1x handle Piccolo
- » 1x clamping arm extension
- » 3x standard clamping shoe
- » 1x piece clamping shoe traverse bridge
- » 1x clamping shoe longitudinal bridge
- » 1x clamping shoe traverse V-shoe
- » 1x clamping shoe longitudinal V-shoe
- » 4x T-slot nuts stainless M 8 x 12
- » 4x fixing screws M 8 x 25



BRILLANT 200 230 250 255 265 275 285 2000



L hight adapter 50 guide bar V-block plate 40

UNIVERSAL VICE MONO 61

Order No.: Z1350002

» incl. handle

Working radius	61 mm
Clamping height	- 8 - 102 mm
Clamping force	12 kN
Fixing screw	M 10 x 32
T-slot nut stainless	M 10 x 12

Order No.: Z1350004 » 2x universal vice Mono 61

UNIVERSAL VICE MONO 61

- » 2x height adapter Mono
- » 1x handle Mono

SUITCASE SET

- » 1x clamping arm extension
- » 3x standard clamping shoe
- » 1x clamping shoe traverse bridge
- » 1x clamping shoe longitudinal bridge
- » 1x clamping shoe traverse V-shoe
- » 1x clamping shoe longitudinal V-shoe
- » 4x T-slot nuts stainless M 8 x 12
- » 4x fixing screws M 8 x 25



UNIVERSAL VICE MONO 132

Order No.: Z1350011

» incl. handle

Working radius	132 mm
Clamping height	- 43 - 155 mm
Clamping force	8 kN
Fixing screw	M 10 x 32
T-slot nut stainless	M 10 x 12



Cutting accessories UNIVERSAL VICES

BRILLANT 200 230 250 255 265 275 285 2000



UNIVERSAL VICE DUO

Order No.: Z1350005

- » for clamping and lifting
- » with 2 changeable clamping arms
- » incl. handle

Working radius	46 - 91 mm
Clamping height	0 - 129 mm
Lifting height	4 - 142 mm
Clamping force	11 kN
Fixing screw	M 10 x 32
T-slot nut stainless	M 10 x 12

BRILLANT	200	230	250	255	265	275	285	2000





CHAIN CLAMPING VICE

Order No.: Z1350006

- » for clamping of big parts
- » 1x universal vice Mono
- » 1x chain (length 1m)
- » 1x hooking block for chain
- » incl. handle

Clamping force	16 kN
Fixing screw	M 10 x 32
Fixing screw DIN 912	M 10 x 25
2x T-slot nut stainless	M 10 x 12

ACCESSORIES

CLAMPING SHOES



» for all universal vices **Longitudinal V-shoe** Order No.: 92005796



Order No.: 92005797

Longitudinal bridge

Traverse bridge

Order No.: 92005800

Order No.: 92005799

Standard clamping shoe

Order No.: 92005798



ACCESSORIES

FIXATION

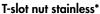
Fixing screw

» for universal vice Piccolo

M 6 x 25 Order No.: Z1304591 M 8 x 25 Order No.: 95003169 M 10 x 25 Order No.: 95003170

» for universal vice Mono, Duo, chain clamping system

M 10 x 32 Order No.: 95003168





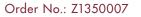
*other sizes on request



ACCESSORIES

HEIGHT ADAPTER PICCOLO





Construction height	60 mm
Fixing screw	M 8 x 25
T-slot nut, stainless	M8 x 12



ACCESSORIES

HEIGHT ADAPTER MONO



Order No.: Z1350003

Construction height	74 mm
Fixing screw	M 10 x 32
T-slot nut, stainless	M 10 x 12

ACCESSORIES

CLAMPING ARM EXTENSION



Order No.: 95003172 » for Piccolo 54 and Mono 61

Extension	90 mm
Clamping shoe	Standard



without universal vice





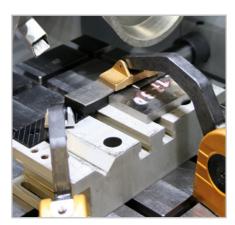
PAIR OF V-BLOCKS

Order No.: 92005805

Angle	90°
for samples	Ø 5 - 50 mm
DxW	50 x 150 mm

ADAPTABLE TO UNIVERSAL VICE MONO:

» see at Easy-clamping modules for Easy-clamping base L

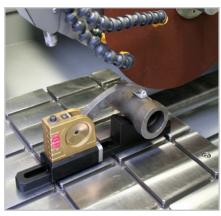


V-block plate 40



Guide bar with sliding carriage and V-groove block

- » see at Easy-clamping modules for Easy-clamping base XL
- » direct adaption: Brillant 275, 285 and 2000



Guide bar 400 Set

CUSTOMIZED CLAMPING TOOLS

Different types of tasks and conditions constitute diverse demands on clamping tools and cutting equipment. The construction of our machines gives us the opportunity to design and manufacture custom-made solutions for special dimensions. ATM has already successfully developed special clamping tools for complicated cutting movements or geometries.

