

Metric Products

The entire content of this chapter can be found
in the Metric Catalog.

Use the QR code or the link shown below.



<https://cutting.tools/us/en/digitalcatalogmetric>

 CERATI GROUP
MNG mini

 CERATI GROUP
ZSG mini



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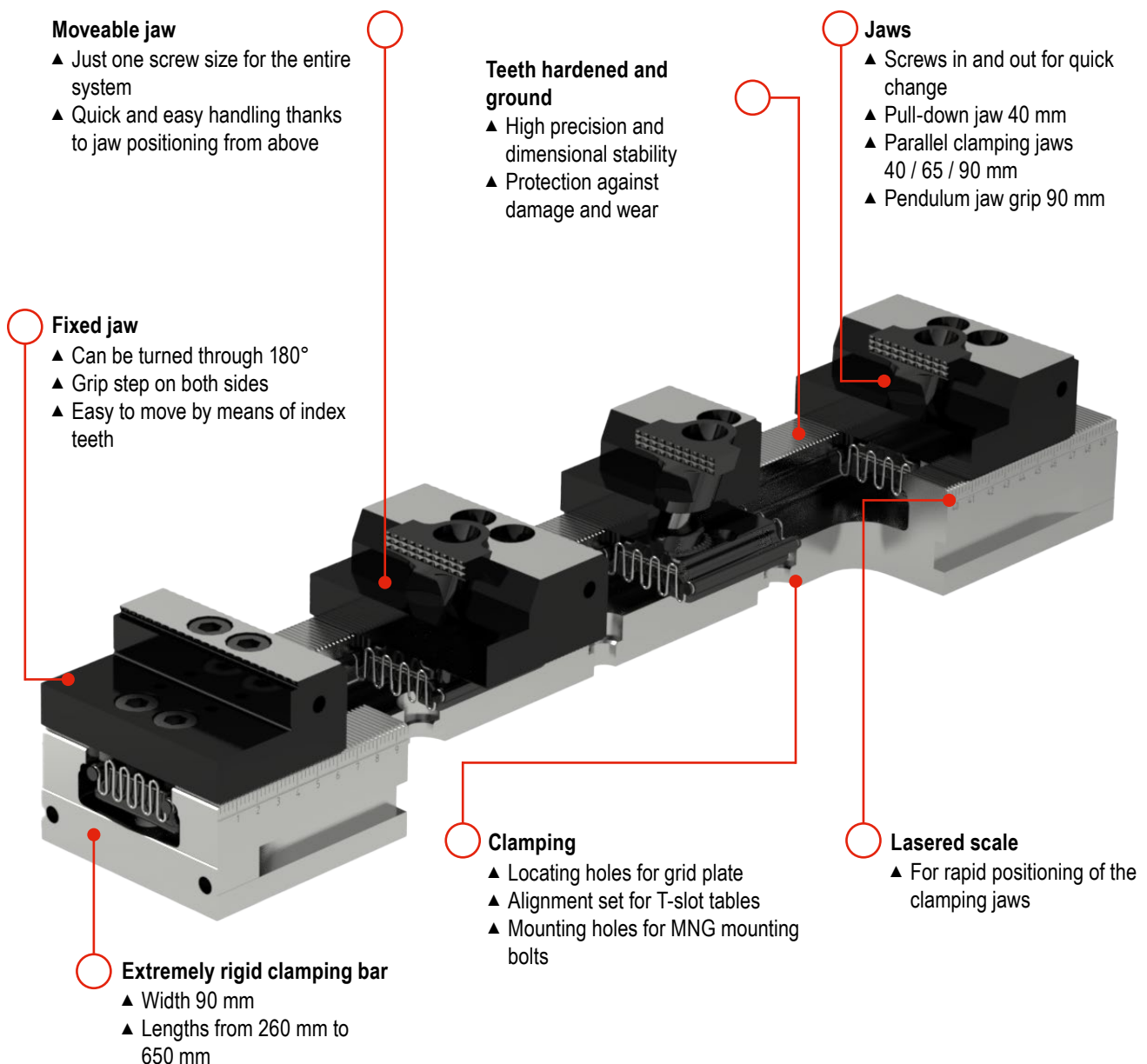
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WNT \ Performance

Premium quality tools for high performance.

The premium quality tools from the **WNT Performance** product line have been designed for specific applications and are distinguished by their outstanding performance. If you make high demands on the performance of your production and want to achieve the very best results, we recommend the Premium tools in this product line.

PolyClamp – Verso



Clamping systems overview

SoloClamp – Single clamping vice

- ▲ Power-assisted systems NCG, HDG 2 and H5G
- ▲ Fixed jaws as reference
- ▲ High repeatability
- ▲ Very good angular accuracy



High precision and force amplification

CentriClamp – Centric vice

- ▲ symmetrical clamping
- ▲ very good accessibility for 5-sided machining
- ▲ part datum always centered
- ▲ high repeatability



High process security with encapsulated system

PolyClamp – Multiple vice

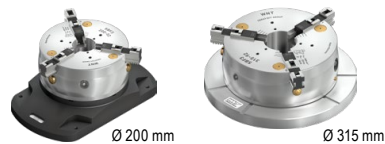
- ▲ Faster set up times
- ▲ multifunctional use
- ▲ optimum utilization of the machine table
- ▲ high repeatability



Increased machine uptime

Stationary three-jaw chuck – SBF 3

- ▲ Suitable for 3/5-axis machining of round components
- ▲ Compatible with PNG and MNG zero point clamping systems
- ▲ Wedge bar drive
- ▲ Hardened and stiff base body
- ▲ Optimised lubrication system



The perfect clamping situation for round components

Clamping variants

- ▲ Zero point clamping systems
- ▲ Zero point clamping system grid plates
- ▲ MNG – Mechanical zero point clamping system
- ▲ PNG – Pneumatic zero point clamping system



Reduction in setup times

Clamping Towers

- ▲ Double sided clamping tower
- ▲ Triangular clamping tower
- ▲ Cruciform clamping tower
- ▲ Cube clamping tower



Automation made easy







A variety of clamping towers can be found in our online shop at cuttingtools.ceratizit.com


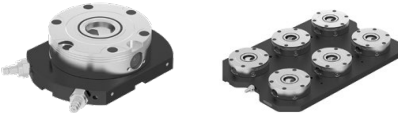

Toolfinder clamping systems

Type	Description	3 axis	4 axis	5 axis	
SoloClamp – Single clamping vice	NCG  <ul style="list-style-type: none"> ▲ 160° quick clamping ▲ rapid installation and removal of the spindle assembly ▲ quick span adjustment 	✓	✓		
	NCG 5A  <ul style="list-style-type: none"> ▲ 160° quick clamping ▲ for 5 axis machining ▲ quick span adjustment 	✓		✓	
	H5G  <ul style="list-style-type: none"> ▲ fast handle clamping ▲ 5 axis high power vice ▲ 100% encapsulated 	✓		✓	
	H5G -Z  <ul style="list-style-type: none"> ▲ Fast handle clamping ▲ 5-axis high power vice ▲ 100% encapsulated ▲ With movable fixed jaw 	✓		✓	
	X5G -Z  <ul style="list-style-type: none"> ▲ 100 % encapsulated ▲ Optimum accessibility ▲ 5- and 6-sided machining possible ▲ Fast jaw changeover without tools 	✓		✓	
	ESG 4  <ul style="list-style-type: none"> ▲ 100 % encapsulated ▲ Precision base body ▲ High clamping force ▲ Large clamping range 	✓	✓	✓	
	ESG 5  <ul style="list-style-type: none"> ▲ New version of the sealed centric vice ZSG 4 as single vice ▲ Identical dimensions and function as the ZSG 4 	✓	✓	✓	
	HDG 2  <ul style="list-style-type: none"> ▲ mechanical power transmission ▲ clamping force with only one turn of the handle ▲ infinitely variable clamping force setting 	✓			
	CentriClamp – Centric vice	ZSG 4  <ul style="list-style-type: none"> ▲ ball bearing, backlash free spindle ▲ high precision, clamping force and process security ▲ repeatability ±0.01 mm 	✓	✓	✓
		ZSG mini  <ul style="list-style-type: none"> ▲ Fast jaw changeover without tools ▲ compact and precise ▲ optimum accessibility from all sides ▲ stainless, hardened base body 	✓	✓	✓


	Jaw width in mm	Body length in mm	max. clamping range in mm	cubic workpieces	assymetrical workpieces	round workpieces	max. clamping force in kN	Page No.
	100 125 160	305 390 530	245 343 506	✓	✓	✓	30 40 40	10-21
	100 125	305 390	199 269	✓		✓	18 24	13-21
	125	300	249	✓	✓	✓	40	22-36
	125	330 430 500 630	396 466 578	✓	✓	✓	40	26-36
	125	330 430 500 630 800	80-210 80-310 80-380 80-510 80-688	✓	✓	✓	40	37
	80 125 160	214 362 480	192 308 434	✓	✓	✓	25 40 50	49-58
	80 125 160	130+190 160+235+300 280+480	63-171 84-281 125-448	✓	✓	✓	35 35 50	59-66
	100 125 160	342 400 544	278 338 470	✓		✓	30 40 60	68-71
	80 125 160	130+190 160+235+300 280+480	121-185 163-303 134-462	✓	✓	✓	25 40 50	72-90
	45 70	80 100	7-77	✓	✓	✓	16	92-100



Toolfinder clamping systems

Type	Description	3 axis	4 axis	5 axis
PolyClamp – Multiple vice	DSG 4  <ul style="list-style-type: none"> ▲ Quick assembly and disassembly ▲ Flexible clamping system ▲ Can be converted into single vice 	✓	✓	✓
	Verso  <ul style="list-style-type: none"> ▲ Variable clamping system ▲ Clamp several small and large components ▲ Innovative multiple vice system 	✓	✓	✓
Stationary three-jaw chuck	SBF 3  <ul style="list-style-type: none"> ▲ Suitable for 3/5-axis machining of round components ▲ Compatible with PNG and MNG zero point clamping systems 	✓		✓
	 <ul style="list-style-type: none"> ▲ Suitable for 3/5-axis machining of round components ▲ Compatible with PNG and MNG zero point clamping systems 	✓		✓

Type	Description
Zero point clamping systems	mechanical
	MNG mini  <ul style="list-style-type: none"> ▲ For workpiece clamping in the smaller dimension range
pneumatic	PNG  <ul style="list-style-type: none"> ▲ Process security thanks to self-locking mechanism
Clamping Towers	 <ul style="list-style-type: none"> ▲ Increased machine uptime

Manual machine vice

Drilling machine vice	HSG  <ul style="list-style-type: none"> ▲ fast jaw adjustment, compact and precise
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Jaw width in mm	Body length in mm	max. clamping range in mm	cubic workpieces	assymetrical workpieces	round workpieces	max. clamping force in kN	Page No.
80	300	102	✓	✓	✓	25	72-90
125	320+390+460 530+600+670+740	114+149+184 219+254+289+324				40	
40 65 90	260 -650	524	✓	✓	✓	30	92-100
	Ø 200	SB-H jaws 6-180			✓	100	125-130
	Ø 315	SB-H jaws 12-420			✓	180	
mechanical		pneumatic		Comments		Page No.	
✓						134-148	
✓						149-151	
		✓				152-163	
✓				This article can be found in our online shop at cuttingtools.ceratizit.com		 	
✓						131-133	