

Complete solutions from a single source

Criteria for selecting the clamping method – series 4 ESG 4/ZSG 4/DSG 4

- ▲ Workpiece and material
- ▲ Shape, dimensions and weight
- ▲ Surface
- ▲ Machining process/machine
- ▲ Sequence of machining processes
- ▲ Accuracies and tolerances
- ▲ Accessibility of the tools
- ▲ Volumes and batch sizes

The different sizes and low weight make series 4 components ideal for pallet automation and clamping towers.

Single clamping vice

The ESG 4 single vices impress with fast handle clamping, quick setting of the clamping range, a flat design and low weight.

→ Page 26



Centric vice

ZSG 4 centric vices, mechanical version with high precision and clamping force. Closed system with optimised chip flow for high process security.

→ Page 40



Double vice

The user-friendly DSG 4 clamping system guarantees consistently high precision and a wide application range.

→ Page 51



Table of contents

H5G-Z overview	2
Clamping systems overview	3
Toolfinder – Vices	4+5
Toolfinder – Clamping variants and clamping towers	6
Product programme	7-103
General top jaws overview	91-97
Workpiece supports overview	98+99
Accessories general overview	100
Clamping levers overview	101
Screws overview	102+103

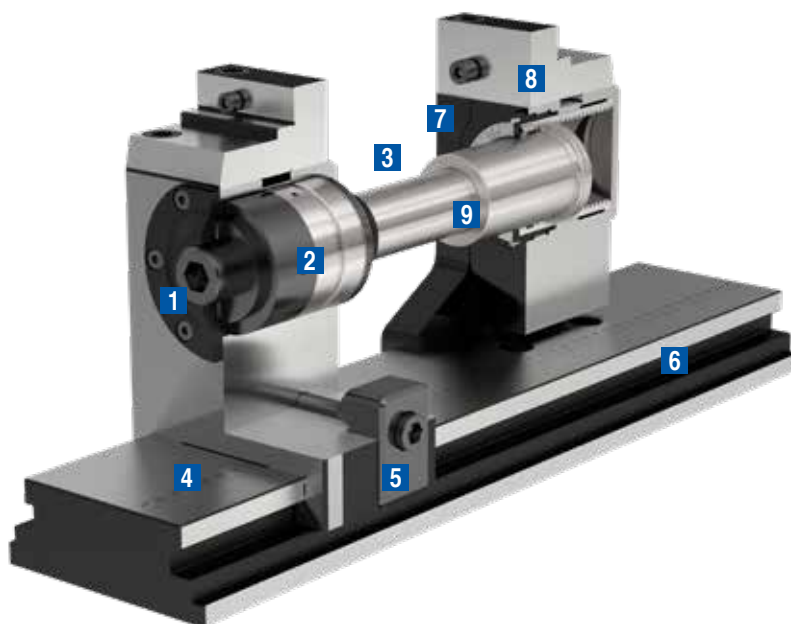
WNT \ Performance

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.

H5G-Z overview

- 1** Fast handle clamping with internal hex
- 2** Mechanical power transmission
- 3** Drawbar extension for quick change system
- 4** Scale
- 5** Sliding the movable fixed jaw
- 6** Optimal accessibility
- 7** infinitely variable clamping force adjustment
- 8** Versatile application range
- 9** Full encapsulation and quick adjustment



Clamping systems overview

Single clamping vice

- ▲ power booster systems NCG, HDG and H5G
- ▲ fixed jaw as reference
- ▲ high repeatability



High precision and force amplification

Centric vice

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



High process security with encapsulated system

Multiple vice

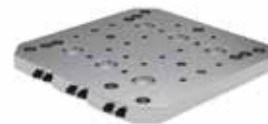
- ▲ faster set up times
- ▲ multifunctional use
- ▲ optimum utilization of the machine table
- ▲ high repeatability



Increased machine uptime

Clamping variants

- ▲ Zero point clamping system
- ▲ Zero point clamping system grid plate



Reduction in setup times

Clamping Towers

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



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



Automation made easy

Toolfinder clamping systems – Vices

Type	Description	3 axis	5 axis	
Single clamping vice	NCG  ▲ 160° quick clamping ▲ rapid installation and removal of the spindle assembly ▲ quick span adjustment	✓		
	NCG 5A  ▲ 160° quick clamping ▲ for 5 axis machining ▲ quick span adjustment	✓	✓	
	H5G  ▲ fast handle clamping ▲ 5 axis high power vice ▲ 100 % encapsulated	✓	✓	
	H5G -S  ▲ fast handle clamping ▲ 5 axis high power vice ▲ 100 % encapsulated ▲ low height	✓	✓	
	H5G -Z  ▲ fast handle clamping ▲ 5 axis high power vice ▲ 100 % encapsulated ▲ integrated pallet solution	✓	✓	
	ESG 4  ▲ 100 % encapsulated ▲ precision base body ▲ high clamping force ▲ large clamping range	✓	✓	
	ESG mini  ▲ 100 % encapsulated ▲ compact and precise ▲ fixed zero point ▲ hydraulic version also available	✓	✓	
	HDG 2  ▲ mechanical power transmission ▲ clamping force with only one turn of the handle ▲ infinitely variable clamping force setting	✓		
Centric vice	ZSG 4  ▲ ball bearing, backlash free spindle ▲ high precision, clamping force and process security ▲ repeatability ± 0.01 mm	✓	✓	
	ZSG 3  ▲ 100 % encapsulated ▲ quick jaw change	✓	✓	
Multiple vice	DSG 4  ▲ fast assembly and disassembly ▲ flexible clamping system	✓	✓	
	MSG 2  ▲ internal serration ▲ variable use	✓	✓	

	Jaw width in mm	Body length in mm	max. clamping range in mm	cubic workpieces	assymetrical workpieces	round workpieces	max. clamping force in kN	Pages
	100 125 160	305 390 530	245 343 506	✓	✓	✓	30 40 40	7-15
	100 125	305 390	199 269	✓		✓	18 24	9-15
	125	300	274	✓	✓	✓	40	16-25
	125	265+300	274	✓	✓	✓	40	17-25
	125	430 500 630	396 466 596	✓	✓	✓	40	18-25
	80 125 160	214 362 480	192 308 324	✓	✓	✓	25 40 50	26-28
	40 65 100	132 180 240	122 174 243	✓	✓	✓	12 20 40	29-36
	100 125 160	342 400 544	278 338 470	✓		✓	30 40 60	37-39
	80 125 160	130+190 160+300 280+480	121-185 163-303 134-465	✓	✓	✓	25 35 50	40-46
	40 65	89 154	71 123	✓		✓	7 15	47-50
	80 125	300 320+390+460 530+600+670+740	122 114+149+184 219+254+289+324	✓	✓	✓	25 40	51-53
	65 90	220-650 400-650	538 538	✓		✓	25-50	54-60

Toolfinder clamping systems – Clamping variants and clamping towers

Type		mechanical	pneumatic	magnetic	Comments	Pages
Zero point clamping system grid plate	MNG				All round plate for all machine tables	63-74
Multi-adapter pallets	PNG				Process security thanks to self-locking mechanism	75-90
	MST				For complex workpieces	
					Increased machine uptime	

Manual machine vice

Drilling machine vice	HSG				fast jaw adjustment, compact and precise	61+62



This article can be found in our online shop at cuttingtools.ceratizit.com

NCG

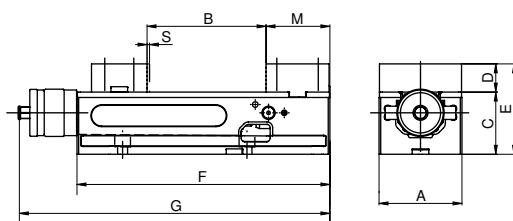


NC-quick clamping vice with standard jaw

- ▲ Fast 160° handle clamping
- ▲ Rapid installation and removal of the spindle assembly
- ▲ S = powerstroke

Scope of supply:

NC-quick vice, including 4 clamping claws, 2 standard reversible jaws (one side smooth, one side serrated), clamping levers including operating accessories, without clamping screws.



											Article no. 80 890 ...
A mm	B mm	C _{-0,02} mm	D mm	E mm	F mm	G mm	M mm	S mm	Clamping force kN	kg	
100	0 - 155	75	34	109	305	374	77	2,5	4 - 30	19,5	600
125	0 - 212	100	39	139	390	457	89	3,0	4 - 40	35,0	625
160	0 - 314	115	49	164	530	600	108	3,0	4 - 40	70,0	660

Vice guide

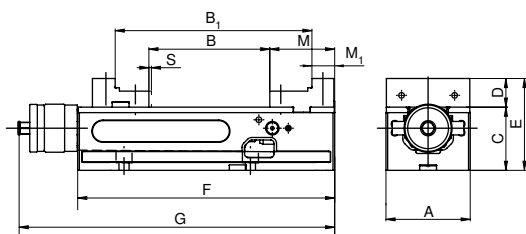
Underside Dimensions	10	System accessories	12-15
MNG/PNG zero point clamping system	63-78	General accessories	91-103

NC-quick clamping vice with combination jaw

- ▲ Fast 160° handle clamping
- ▲ Rapid installation and removal of the spindle assembly
- ▲ S = powerstroke

Scope of supply:

NC-quick vice, including 4 clamping claws, 2 standard reversible jaws (one side smooth, one side serrated), clamping levers including operating accessories, without clamping screws.



A mm	B mm	B ₁ mm	C _{-0,02} mm	D mm	E mm	F mm	G mm	M mm	M ₁ mm	S mm	Clamping force kN	kg
100	0 - 155	91 - 245	75	34	109	305	374	77	27	2,5	4 - 30	19
125	0 - 212	96 - 307	100	39	139	390	457	89	39	3,0	4 - 40	34
160	0 - 314	113 - 426	115	49	164	530	600	108	52	3,0	4 - 40	68

Article no.
80 890 ...

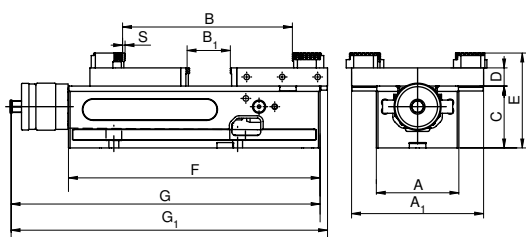
602
627
662

NC-quick clamping vice with adapter and pendulum jaws

- ▲ Fast 160° lever clamping
- ▲ Rapid installation and removal of the spindle assembly
- ▲ S = powerstroke
- ▲ Simple raw part clamping
- ▲ Free positioning of the 6-face reversible jaw which can be found in the accessories

Scope of supply:

NC-quick vice (type NCG base body) with 1 fixed adapter plate and 1 pendulum jaw, clamping lever including operating accessories, 4 clamping claws, without 6-face indexable jaws



A mm	A ₁ mm	B mm	B ₁ mm	C _{-0,02} mm	D mm	E mm	F mm	G mm	G ₁ mm	S mm	Clamping force kN	kg
100	160	10 - 230	0 - 77	75	22	115	305	374	383	2,5	4 - 30	19
125	192	16 - 343	0 - 152	100	22	140	390	457	478	3,0	4 - 40	34
160	256	15 - 506	0 - 237	115	22	155	530	600	631	3,0	4 - 40	68

Article no.
80 890 ...

636
637
638

Vice guide

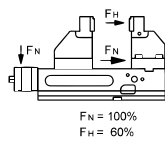
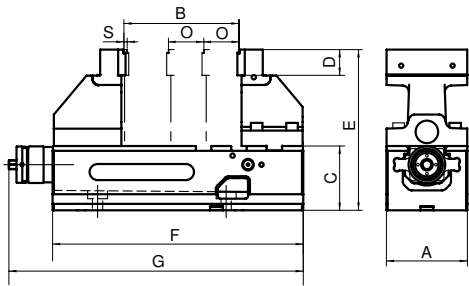
Underside Dimensions	10	System accessories	12-15
MNG/PNG zero point clamping system	63-78	General accessories	91-103

NC quick vice 5A with high support jaws

- ▲ Fast 160° handle clamping
- ▲ Rapid installation and removal of the spindle assembly
- ▲ S = powerstroke
- ▲ Ideally suited to 5-axis machining due to optimum accessibility
- ▲ Reversible jaws for clamping range extension
- ▲ 100 mm base body has 2 slots for moving the fixed jaw
- ▲ 125 mm base body has 3 slots for moving the fixed jaw

Scope of supply:

NC quick clamping vice incl. 2 high base jaws, 2 'grip' stepped jaws 5 mm, 1 clamping lever, 4 clamping claws, without clamping screws.



A mm	B mm	C mm	D mm	E mm	F mm	G mm	O mm	S mm	Clamping force kN	kg
100	6 - 127	75	35	200	305	374	50	2,5	4 - 18 (30)	21,5
125	6 - 179	100	40	250	390	457	55	3,0	4 - 24 (40)	42,0

Article no.
80 890 ...

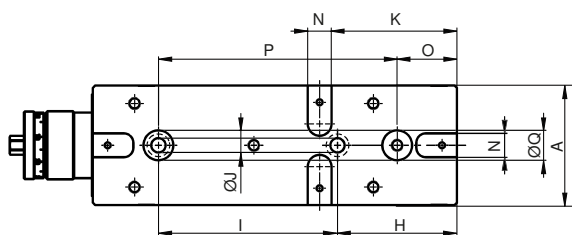
605
635

Vice guide

Underside Dimensions	10	Structural dimension tables for the different jaws	11
System accessories	12-15	MNG/PNG zero point clamping system	63-78
General accessories	91-103		

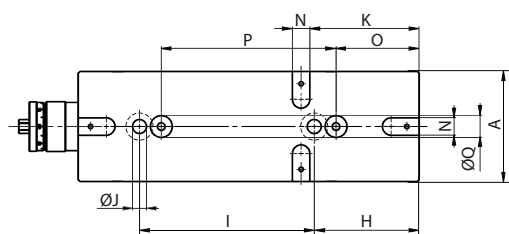
NCG underside dimensions

Base width 100 mm NCG



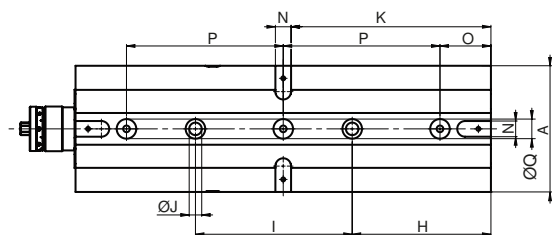
A	H	I	J	K	N	O	P	Q
mm	mm	mm	mm	mm	mm	mm	mm	mm
100	100	150	12	105	20	50	200	25

Base width 125 mm NCG



A	H	I	J	K	N	O	P	Q
mm	mm	mm	mm	mm	mm	mm	mm	mm
125	120	200	16	125	20	95	200	25

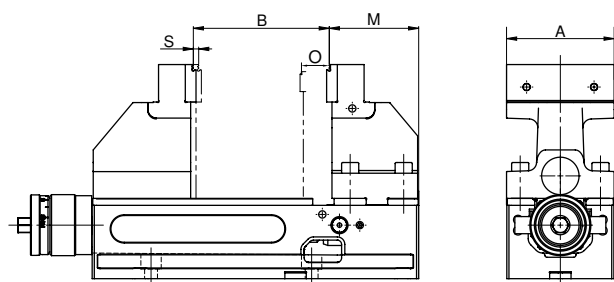
Base width 160 mm NCG



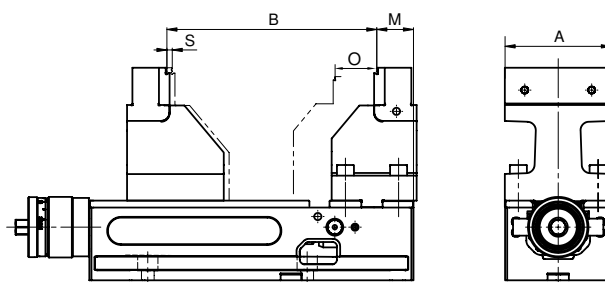
A	H	I	J	K	N	O	P	Q
mm	mm	mm	mm	mm	mm	mm	mm	mm
160	177	200	16	255	20	65	200	25

NCG 5A structural dimension table for different jaw arrangements

NCG 5A 100

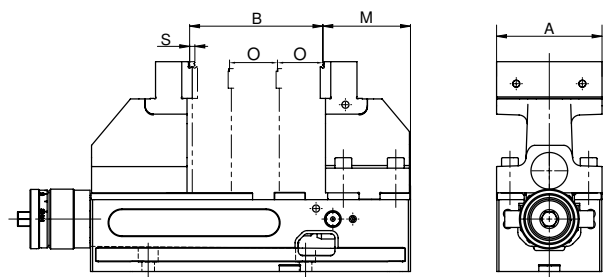


A	B	M	O	S
mm	mm	mm	mm	mm
100	6 - 127	84,5	50	2,5

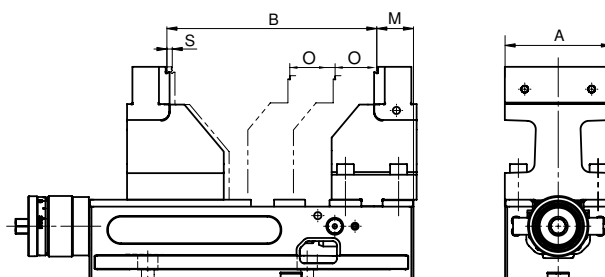


A	B	M	O	S
mm	mm	mm	mm	mm
100	97 - 199	34,5	50	2,5

NCG 5A 125



A	B	M	O	S
mm	mm	mm	mm	mm
125	6 - 182	91	55	3

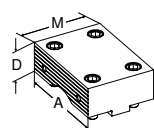


A	B	M	O	S
mm	mm	mm	mm	mm
125	117 - 269	36	55	3

System jaws overview

Description	A	A ₁	D	D ₁	M	M ₁	Price	Article No.	Type association
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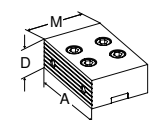
Standard reversible jaw, fixed



- ▲ 1 side smooth, 1 side grooved
- ▲ includes fixing bolts
- ▲ price per piece

									NCG	HSG / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
100		34		76				80 890 323	●								
125		39		88				80 890 324	●								
160		49		108				80 890 325	●								

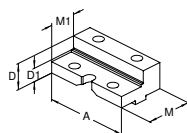
Standard reversible jaw, movable



- ▲ 1 side smooth, 1 side grooved
- ▲ includes fixing bolts
- ▲ price per piece

									NCG	HSG / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
100		34		67				80 890 327	●								
125		39		82				80 890 328	●								
160		49		108				80 890 329	●								

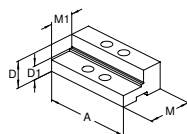
Combi reversible jaw, fixed



- ▲ for the extension of the clamping range
- ▲ jaws hardened
- ▲ includes fixing bolts
- ▲ price per piece

									NCG	HSG / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
100		34	23	76	50			80 890 343	●			●					
125		39	25	88	50			80 890 344	●								
160		49	28	108	56			80 890 342	●								

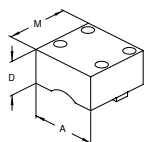
Combi reversible jaw, movable



- ▲ for the extension of the clamping range
- ▲ jaws hardened
- ▲ includes fixing bolts
- ▲ price per piece

									NCG	HSG / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
100		34	23	67	40			80 890 347	●			●					
125		39	25	82	45			80 890 348	●								
160		49	28	108	56			80 890 346	●								

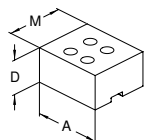
Soft jaw, steel, fixed



- ▲ for the production of form jaws
- ▲ without fixing bolts
- ▲ price per piece

									NCG	HSG / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
100		50		95				80 890 763	●								
125		50		110				80 890 764	●								

Soft jaw, steel, movable



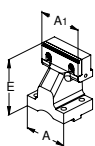
- ▲ for the production of form jaws
- ▲ without fixing bolts
- ▲ price per piece

									NCG	HSG / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
100		50		85				80 890 767	●								
125		50		100				80 890 768	●								

System jaws overview

Description	A	A ₁	D	D ₁	E	M	Price	Article No.	Type association
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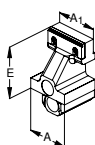
5A carrier jaw, fixed



- ▲ Price per piece
- ▲ with stepped grip jaw, 5 mm

100	100			125				80 890 364	●	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
125	125			150				80 890 366	●									

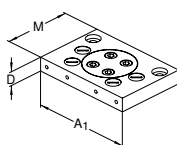
5A carrier jaw, movable



- ▲ price per piece
- ▲ with stepped grip jaw, 5 mm

100	100			125				80 890 365	●	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
125	125			150				80 890 367	●									

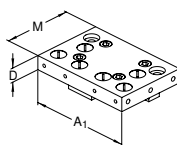
Pendulum jaw, movable



- ▲ for holding 6-way reversible jaws
- ▲ price per piece
- ▲ incl. 6 cover screws
(with A = 100 mm, 4 pieces)

100	160	22			110			80 890 322	●	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
125	192	22			130			80 890 338	●									
160	256	22			170			80 890 340	●									

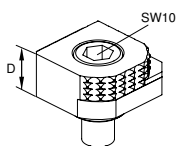
Fixed adaptor jaw



- ▲ for holding 6-way reversible jaws
- ▲ price per piece
- ▲ incl. 6 cover screws

100	160	22			110			80 890 321	●	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
125	192	22			130			80 890 337	●									
160	256	22			170			80 890 339	●									

6 function indexable jaw



- ▲ 1 = smooth, carbide coated
- ▲ 2 = grip with 3 mm step
- ▲ 3 = grip with 8 mm step
- ▲ 4 = grip with 18 mm step
- ▲ 5 = rough grip with 8 mm step
- ▲ 6 = Round grip
- ▲ M_{max} = 60 Nm
- ▲ including fixation screws

		18						80 892 246	●	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
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System accessories overview

Spindle body

▲ For the conversion of the NCG 5AC into an NCG vice

NCG

NCG
5Afor width
mm100
125
160Article no.
80 890 ...385
387
389

Spring Loaded Locator

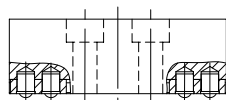
NCG

Article no.
80 890 ...for width
mm100/125
160008
014

Protection plate

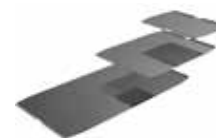
▲ for moving standard and combi reversible jaw

NCG

for width
mm100
125
160Article no.
80 890 ...010
012
013

Cover plate set

NCG

NCG
5ACArticle no.
80 890 ...for width
mm100
125
160442
443
444

Drawbar extension

▲ For connecting 2 NCG vices

NCG

NCG
5Afor width
mm100
125B
mm305 - 460
390 - 602Article no.
80 890 ...460
470

Carrying handle

▲ for simple and safe transporting

Scope of supply:

1 piece Hand grip including fixing bolts

NCG

NCG
5ACArticle no.
80 890 ...for width
mm

100/125

685

System accessories overview

Clamping lever

▲ including control accessories

NCG	H5G
NCG 5A	



for width mm	SW mm	Article no. 80 890 ...
100/125/160	14	501

High-speed operation device

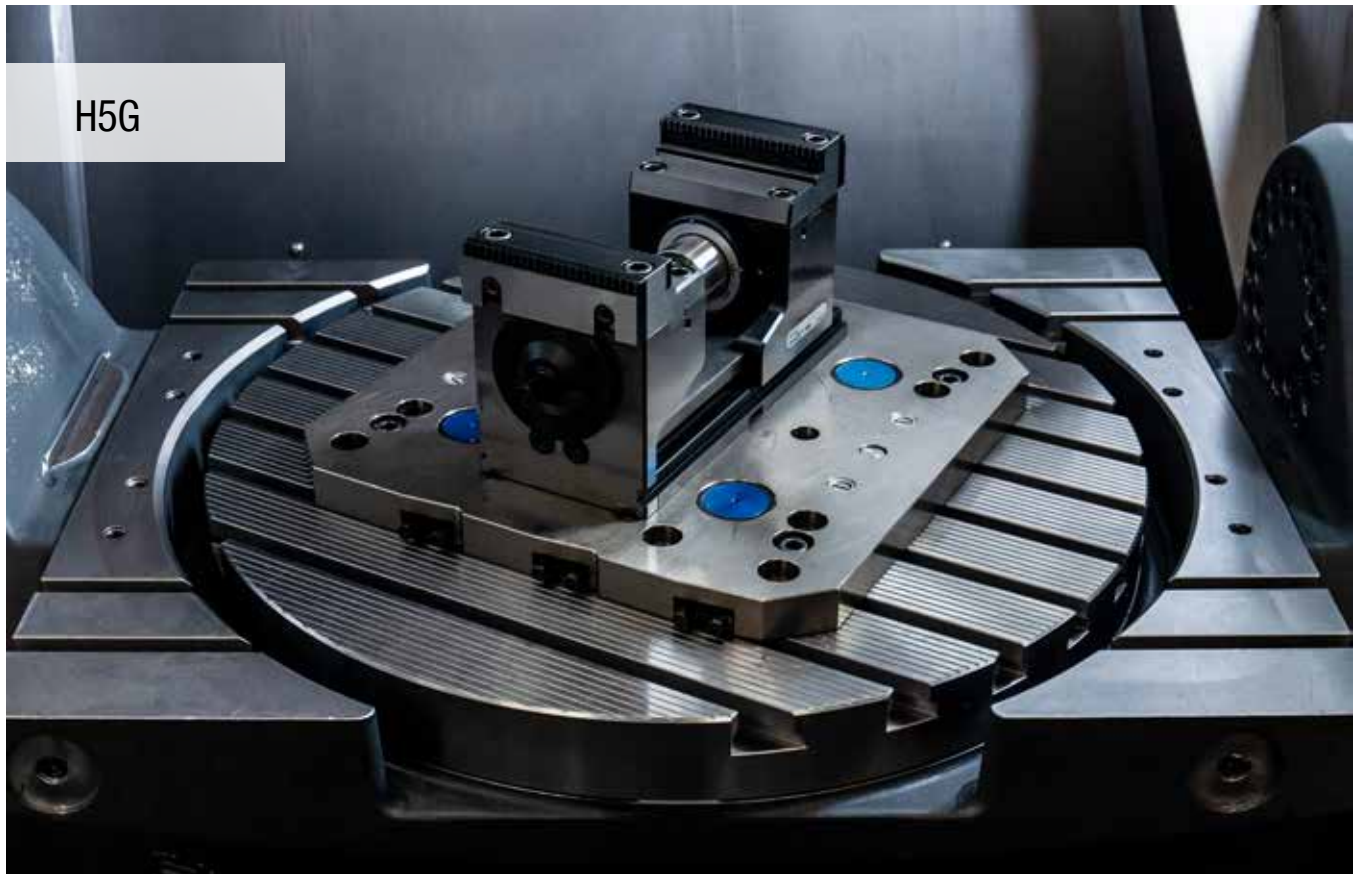
▲ For faster span adjustment with removable grip

NCG	NCG 5AC
-----	------------



for width mm	Article no. 80 890 ...
100	550
125/160	551

H5G

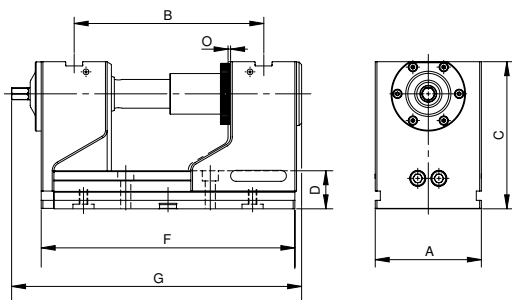


5-axis vice with quick adjustment, 174 mm height

- ▲ Crank handle quick clamping
- ▲ Vice with quick span adjustment
- ▲ 100 % encapsulated
- ▲ Vice with longitudinal and transverse grooves 20 H7 and alignment holes $\varnothing 12$ F7

Scope of supply:

Vice incl. 4 clamping claws, hand crank and clamping wrench, without system jaws.



Article no.
80 898 ...

A mm	B mm	C mm	D mm	F mm	G mm	O mm	Clamping force kN	kg
125	97 - 223	174	45	300	336,5	1	40	30,2

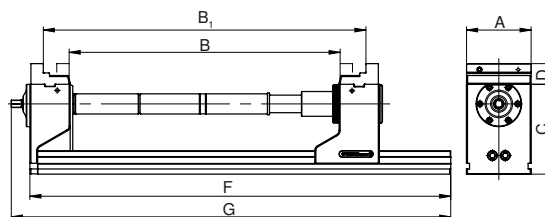
125

Vice guide

Underside Dimensions	20	Structural dimension tables for the different jaws	21
System accessories	23-25	MNG/PNG zero point clamping system	63-78
General accessories	91-103		

5 axis high power vice, long version, 174 mm height

H5G



A mm	C mm	D mm	F mm	G mm	Clamping force kN
125	174	40	815	851	40

B	B ₁	Article no.
0 – 126	123 – 251	80 898 125
125 – 252	248 – 374	80 898 125 + 80 898 826
250 – 376	372 – 499	80 898 125 + 80 898 827
375 – 501	498 – 624	80 898 125 + 80 898 826 + 80 898 827
500 – 626	622 – 749	80 898 125 + 2 x 80 898 827

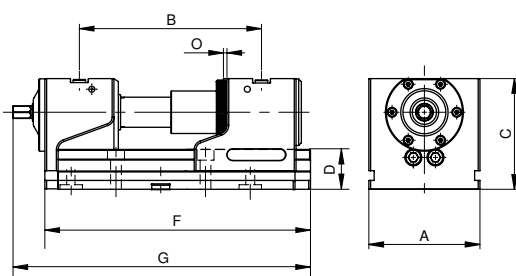
i The H5G 125 mm can be extended by a maximum of 250 mm with 2 extensions. The extension results in approximately 10 % loss of clamping force.
Base plate available in long version with the desired hole pattern on request.

5-Axis vice with quick adjustment, 125 mm height

- ▲ Crank handle quick clamping
- ▲ Vice with quick span adjustment
- ▲ 100 % encapsulated
- ▲ Length F = 300 mm with Ø 25 H7 centering
- ▲ Length F = 265 mm with Ø 32 H6
- ▲ Vice with longitudinal and transverse grooves 20 H7 and alignment holes Ø 12 F7

Scope of supply:

Vice including 4 clamping claws, clamping handle and keys but without jaws.

H5G
-S

A mm	B mm	C mm	D mm	F mm	G mm	O mm	Clamping force kN	kg
125	97 - 186	125	45	265	301,5	1	40	21,0
125	97 - 223	125	45	300	336,5	1	40	22,6

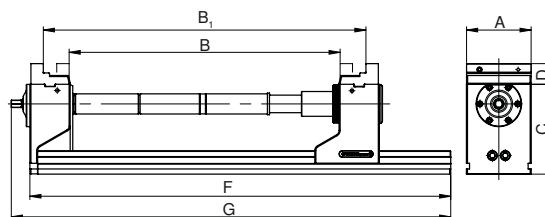
Article no.
80 898 ...123 ¹⁾
124

1) not standardised

Vice guide

Underside Dimensions	20	Structural dimension tables for the different jaws	21
System accessories	23-25	MNG/PNG zero point clamping system	63-78
General accessories	91-103		

5 axis high power vice, long version, 125 mm height

**H5G
-S**

A mm	C mm	D mm	F mm	G mm	Clamping force kN
125	125	40	815	851	40

B	B ₁	Article no.
0 – 126	123 – 250	80 898 124
125 – 251	248 – 374	80 898 124 + 80 898 826
250 – 376	372 – 499	80 898 124 + 80 898 827
375 – 501	498 – 624	80 898 124 + 80 898 826 + 80 898 827
500 – 626	622 – 749	80 898 124 + 2 x 80 898 827

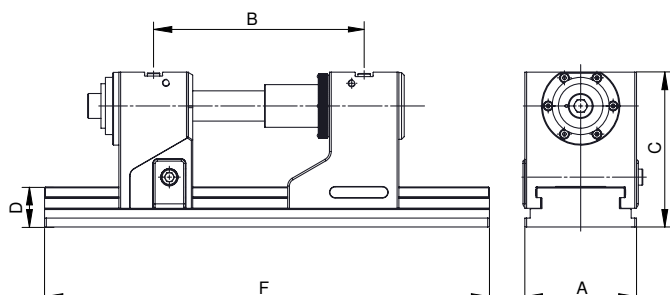
i The H5G-S 125 mm can be extended by a maximum of 250 mm with 2 extensions. The extension results in approximately 10 % loss of clamping force. Base plate available in long version with the desired hole pattern on request.

5-Axis vice with movable fixed jaw

- ▲ Crank handle quick clamping
- ▲ Vice with quick span adjustment
- ▲ 100 % encapsulated
- ▲ Clamping on the machine table is possible with MNG/PNG, directly through the base body or with T-nuts using an alignment set

Scope of supply:

Incl. clamping key with hexagonal pin insert, without clamping claws and drawbar extension

**H5G
-Z**

A mm	B $\pm 0,015$ mm	C mm	D mm	F mm	SW mm	Clamping force kN	kg
125	131 - 352	174	45	430	14	40	36,0
125	131 - 422	174	45	500	14	40	38,5
125	131 - 552	174	45	630	14	40	43,0

**Article no.
80 907 ...****125
126
127**

i Maximum clamping ranges only possible with the use of additional drawbar extensions, see → **Page 25**.

Vice guide

Underside Dimensions	20	Structural dimension tables for the different jaws	22
System accessories	23-25	MNG/PNG zero point clamping system	63-78
General accessories	91-103		

H5G-Z clamping ranges

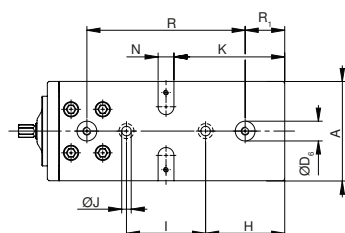
Combi reversible jaws 80 898 225 + stepped jaw 80 907 302	Base body 430 mm		Base body 500 mm		Base body 630 mm	
	min.	max.	min.	max.	min.	max.
H5G-Z/430	14	139				
H5G-Z/430 + Drawbar extension 125 mm	139	235				
H5G-Z/500			14	139		
H5G-Z/500 + Drawbar extension 125 mm			139	264		
H5G-Z/500 + Drawbar extension 250 mm			264	305		
H5G-Z/630					14	139
H5G-Z/630 + Drawbar extension 125 mm					139	264
H5G-Z/630 + Drawbar extension 250 mm					264	389
H5G-Z/630 + Drawbar extension 125 mm + 250 mm					389	435

Combi reversible jaws 80 898 225 in VS position (turned)	Base body 430 mm		Base body 500 mm		Base body 630 mm	
	min.	max.	min.	max.	min.	max.
H5G-Z/430	157	282				
H5G-Z/430 + Drawbar extension 125 mm	282	378				
H5G-Z/500			157	282		
H5G-Z/500 + Drawbar extension 125 mm			282	407		
H5G-Z/500 + Drawbar extension 250 mm			407	448		
H5G-Z/630					157	282
H5G-Z/630 + Drawbar extension 125 mm					282	407
H5G-Z/630 + Drawbar extension 250 mm					407	532
H5G-Z/630 + Drawbar extension 125 mm + 250 mm					532	578

i Drawbar extensions can be found on → **Page 25**

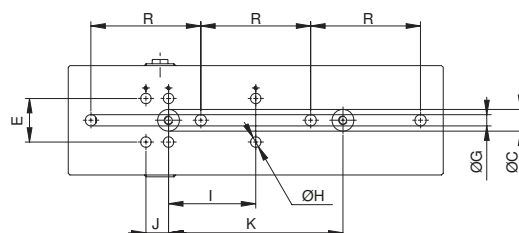
H5G/H5G-Z underside dimensions

Base width 125 mm and 300 mm length



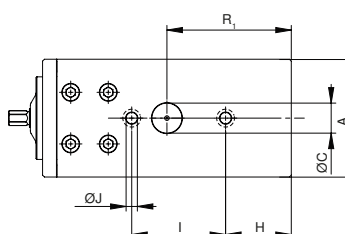
A	D ₆ H7	H	I	Ø J F7	K	N	R	R ₁
mm	mm	mm	mm	mm	mm	mm	mm	mm
125	25	100	100	12	140	20	200	50

Base width 125 mm and 430 mm length



E	R	J	I	K	Ø H H7	Ø G	Ø C H ₆
mm	mm	mm	mm	mm	mm	mm	mm
50	126	26	100	200	12	13	25

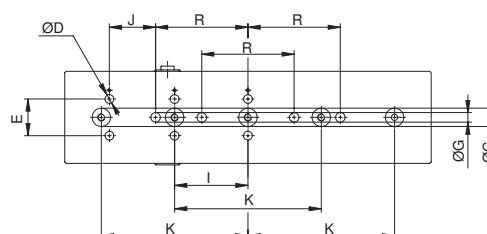
Base width 125 mm and 265 mm length



A	Ø C H ₆	H	I	Ø J F7	R ₁
mm	mm	mm	mm	mm	mm
125	32	70	100	12	132,5

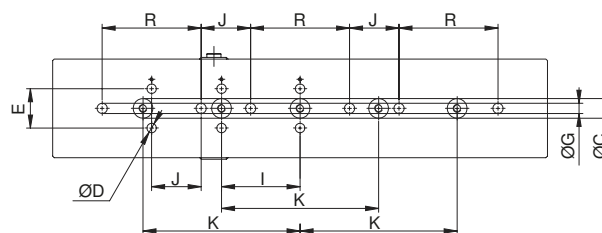
i H5G with 265 mm length is not compatible with MNG

Base width 125 mm and 500 mm length



E	R	I	K	J	Ø G	Ø C H ₆	Ø D H ₇
mm	mm	mm	mm	mm	mm	mm	mm
50	126	100	200	63	13	25	12

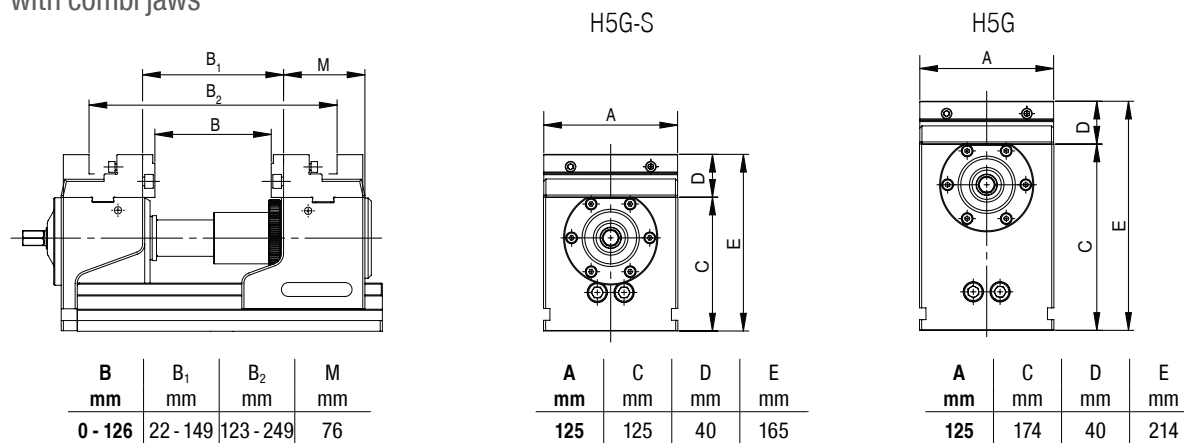
Base width 125 mm and 630 mm length



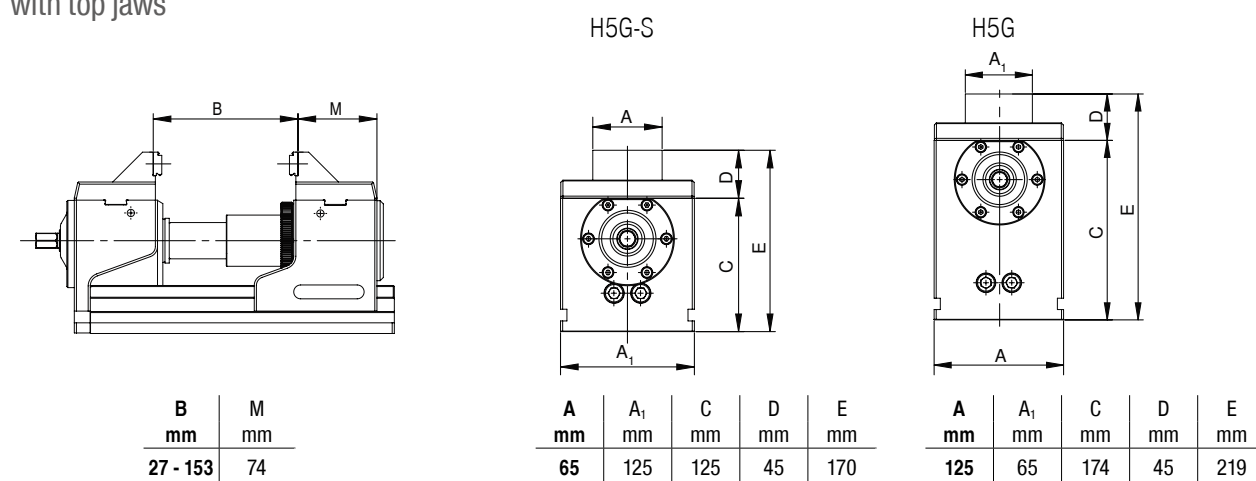
E	R	J	I	K	Ø G	Ø C H ₆	Ø D H ₇
mm	mm	mm	mm	mm	mm	mm	mm
50	126	63	100	200	13	25	12

H5G/H5G-S structural dimension table for the different jaws

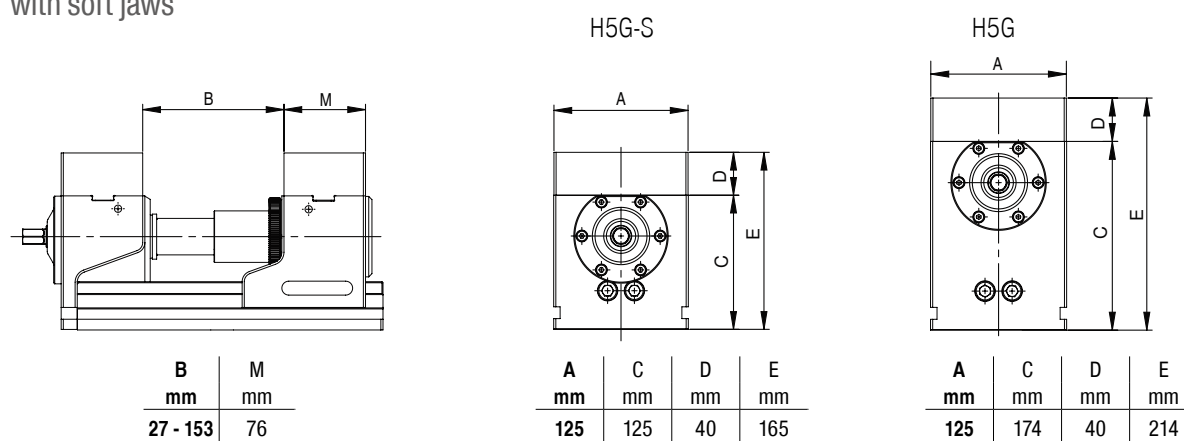
with combi jaws



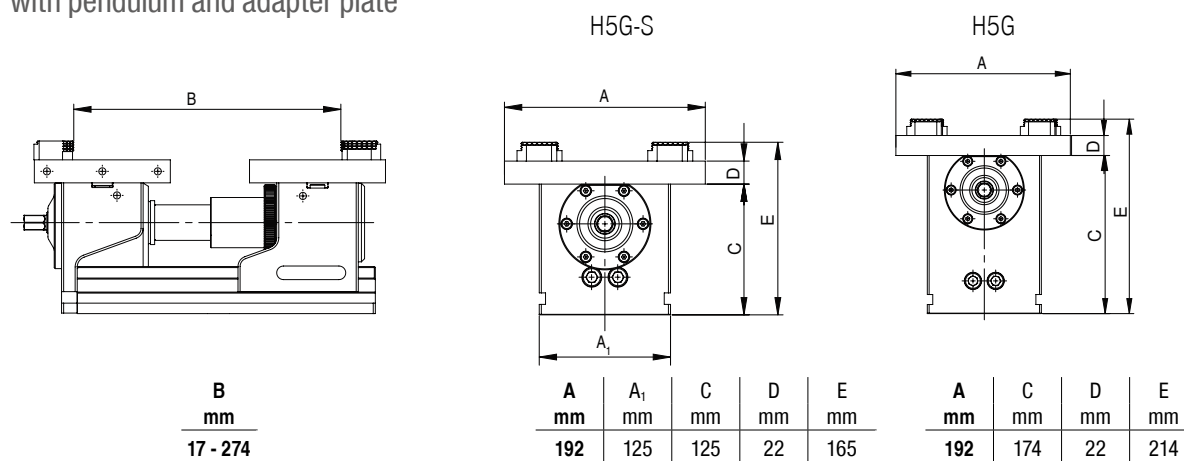
with top jaws



with soft jaws

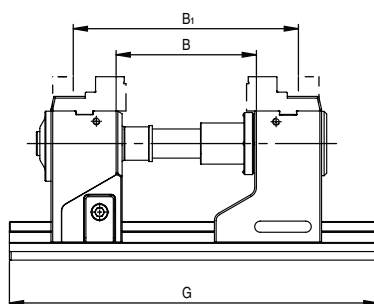


with pendulum and adapter plate

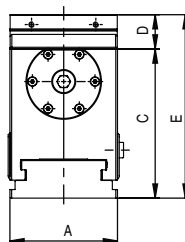


H5G-Z structural dimension table for the different jaws

with combi jaws



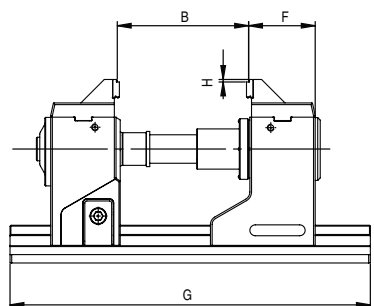
B mm	B ₁ mm	G mm
14 - 139	157 - 282	430



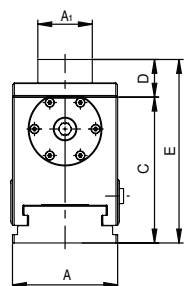
A mm	C mm	D mm	E mm
125	174	40	214

i Clamping ranges also apply to 500 mm and 630 mm base bodies. Extended clamping ranges with drawbar extension possible.

with top jaws

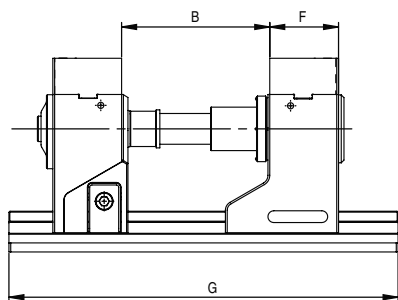


B mm	F mm	G mm	H mm
50 - 175	79,5	430	3

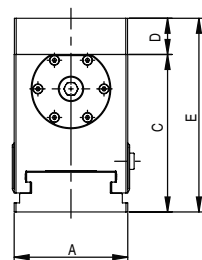


A mm	A ₁ mm	C mm	D mm	E mm
125	65	174	40	214

with soft jaws

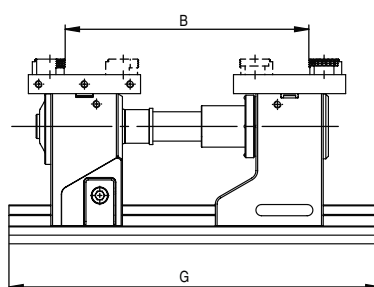


B mm	G mm	F mm
57 - 182	430	76

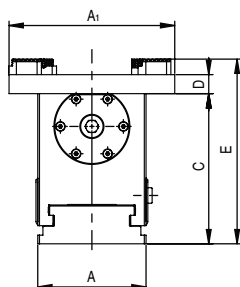


A mm	C mm	D mm	E mm
125	174	40	214

with pendulum and adapter plate

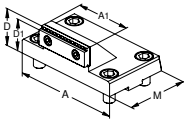
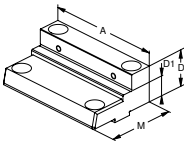
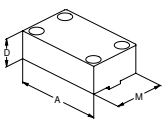
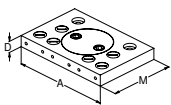
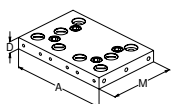
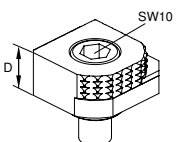


B mm	G mm
11 - 300	430



A mm	A ₁ mm	C mm	D mm	E mm
125	192	174	22	214

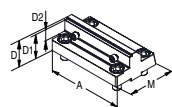
System jaws overview

Description	A	A ₁	D	D ₁	E	M	Price	Article No.	Type association								
5A stepped top jaw																	
	▲ including 125/65 mm attachment and 3 mm grip step ▲ price per piece																
	125	65	45	42		76		80 898 325	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
									●								
Combi reversible jaw																	
	▲ to extend the clamping range ▲ price per piece																
	125		40	22		76		80 898 225	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
									●								
Soft Alu-jaw																	
	▲ for producing shaped jaws ▲ price per piece																
	125		40			76		80 898 625	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
									●								
Pendulum jaw, movable																	
	▲ to accommodate 6-way reversible jaws ▲ price per piece																
	192		22			130		80 898 525	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
									●								
Adapter plate																	
	▲ to accommodate 6-way reversible jaws ▲ price per piece																
	192		22			130		80 898 425	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
									●								
6 function indexable jaw																	
	▲ 1 = smooth, carbide coated ▲ 2 = grip with 3 mm step ▲ 3 = grip with 8 mm step ▲ 4 = grip with 18 mm step ▲ 5 = rough grip with 8 mm step ▲ 6 = Round grip ▲ M _{max} = 60 Nm ▲ including fixation screws																
			18					80 892 246	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
									●	●	●	●		●		●	

System jaws overview

Description	A	D	D ₁	D ₂	M	M ₁	Price	Article No.	Type association
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5A – Top jaw



- ▲ improved accessibility through tapered rear section
- ▲ price per piece

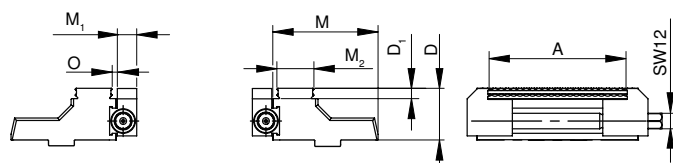
125	40	37	18	78				80 907 300	NDG H5G / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2
-----	----	----	----	----	--	--	--	------------	--

6 face jaw system for 125 mm jaw width

Scope of supply:

2 System jaws with 2 pairs of transverse jaws in T-slot guidance incl. fixing screws

H5G	H5G -S	H5G -Z
-----	-----------	-----------

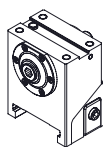


for width mm	A mm	D mm	D ₁ mm	M mm	M ₁ mm	M ₂ mm	O mm	kg	Article no. 80 898 ...
125	37 - 101	40	8	81,5	15	28,7	3,2	4,5	230

System accessories overview

Movable fixed jaw

▲ price per piece

H5G
-Zfor width
mm

125

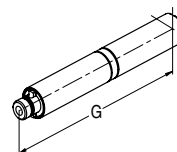
Article no.
80 907 ...301 ¹⁾

1) Not ex-stock

Drawbar

▲ Incl. anti-rotation

H5G

H5G
-SH5G
-Zfor width
mm

125

125

G
mm

125

250

Article no.
80 898 ...

826

827

Protection plugs

▲ price per piece

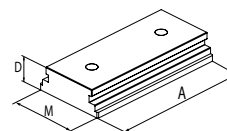
H5G
-ZD₁
mm

19

Article no.
80 907 ...

501

Base plate to extend



A

mm

250

D

mm

45

M

mm

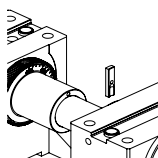
125,5

Article no.
80 898 ...

725

Anti-twist plate

H5G

Article no.
80 898 ...

024

Clamping lever

▲ including control accessories

NCG

H5G

NCG
5Afor width
mm

100/125/160

SW
mm

14

Article no.
80 890 ...

501

Hand crank

▲ for fast adjustment

for width
mm

125

SW
mm

14

H5G-Z

Article no.
80 907 ...

500

H5G-S

Article no.
80 898 ...

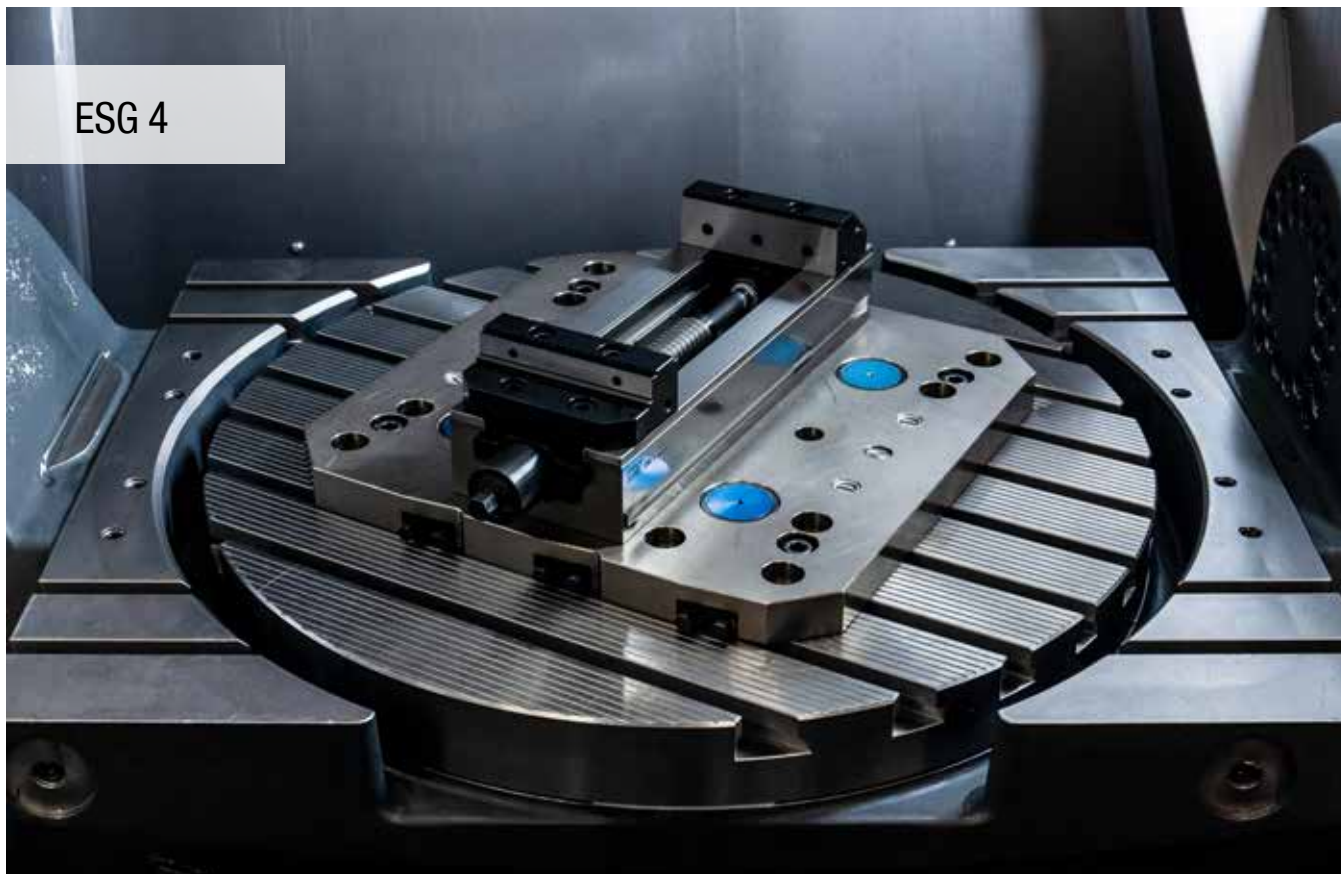
026

H5G

Article no.
80 898 ...

025

ESG 4

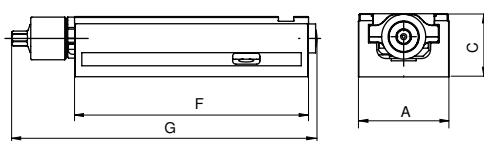


Single vice without system jaws

- ▲ Fast 160° handle clamping
- ▲ Rapid installation and removal of the spindle assembly
- ▲ ± 0.01 mm repeatability (± 0.015 mm when $A = 160$ mm)

Scope of supply:

ESG 4 single vice without system jaws and clamping key



A mm	C _{-0,02} mm	F mm	G mm	Clamping force kN	kg	SW mm	clamping range mm
80	55	214	284	25	5,0	12	0-192
125	60	362	433	40	15,0	14	0-308
160	70	480	559	50	28,5	14	0-434

Article no.
80 901 ...

080
125
160

Vice guide

System accessories

27+28

MNG/PNG zero point clamping system

63-78

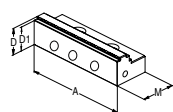
General accessories

91-103

System jaws overview

Description	A	A ₁	D	D ₁	M	M ₁	Price	Article No.	Type association
-------------	---	----------------	---	----------------	---	----------------	-------	-------------	------------------

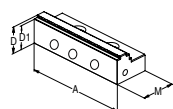
Indexable jaw, grip 3 mm, fixed



▲ price per piece

									NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
80		28	25	40				80 901 306			●					●	
125		40	37	66				80 901 302			●					●	
160		50	47	81				80 901 300			●						

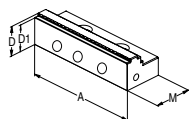
Indexable jaw, grip 3 mm, movable



▲ price per piece

									NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
125		40	37	66				80 901 303			●					●	

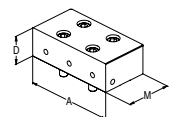
Indexable jaw, grip 3 mm, movable



▲ price per piece

									NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
80		28	25	40				80 878 810			●			●		●	
160		50	47	81				80 878 610			●			●			

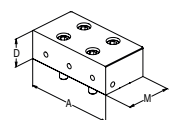
Block jaw, fixed



▲ price per piece

									NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
80		28		40				80 901 31200			●						
125		40		66				80 901 31400			●						
160		50		81				80 901 31600			●						

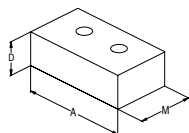
Block jaw, movable



▲ price per piece

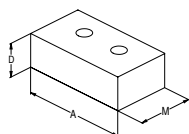
									NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
80		28		40				80 901 31300			●			●		●	
125		40		66				80 901 31500			●			●		●	
160		50		81				80 901 31700			●			●			

Alu jaw, fixed

▲ for producing shaped jaws
▲ price per piece

									NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
80		28		48				80 901 307			●						
125		40		68				80 901 304			●						
160		50		85				80 901 301			●						

Alu jaw

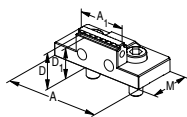
▲ for producing shaped jaws
▲ price per piece

									NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
80		28		48				80 878 850			●			●		●	
125		40		68				80 878 550			●			●		●	
160		50		85				80 878 305			●			●			

System jaws overview

Description	for width	A	A ₁	D	D ₁	M	Price	Article No.	Type association
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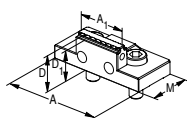
Reversible grip jaw, width 40 mm, fixed



- ▲ price per piece
- ▲ double-sided grip step

80	80	40	28	25	40		80 901 308	NCG HSG / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2
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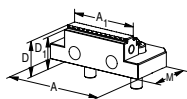
Indexable grip jaw 3 mm, width 40 mm, movable



- ▲ price per piece

80	80	40	28	25	40		80 878 840	NCG HSG / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2
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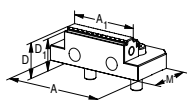
5-axis reversible grip jaw, width 65 mm, fixed



- ▲ price per piece
- ▲ double sided grip step

125	125	65	33	30	57		80 901 305	NCG HSG / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2
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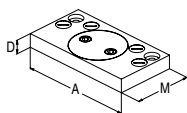
5-axis indexable jaw, grip 3 mm, width 65 mm, movable



- ▲ price per piece
- ▲ double sided grip step

125	95	65	33	30	57		80 878 565	NCG HSG / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2
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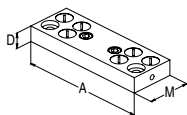
Pendulum jaw, movable



- ▲ price per piece

80	125		19		76		80 878 870	NCG HSG / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2
125	180		22		95		80 878 570	NCG HSG / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2
160	256		22		170		80 878 670	NCG HSG / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2

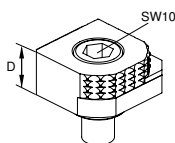
Adapter jaw



- ▲ price per piece

80	125		19		48		80 901 501	NCG HSG / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2
125	180		22		62		80 901 502	NCG HSG / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2
160	256		22		125		80 901 503	NCG HSG / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2

6 function indexable jaw



- ▲ 1 = smooth, carbide coated
- ▲ 2 = grip with 3 mm step
- ▲ 3 = grip with 8 mm step
- ▲ 4 = grip with 18 mm step
- ▲ 5 = rough grip with 8 mm step
- ▲ 6 = Round grip
- ▲ M_{max} = 60 Nm
- ▲ including fixation screws

			18				80 892 246	NCG HSG / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2
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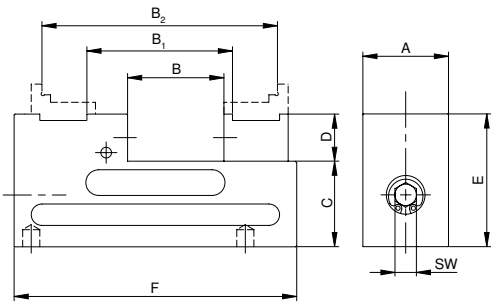
ESG mini

Sealed single small parts vice, 40 mm

- ▲ clamping range from 0–122 mm
- ▲ torque wrench 80 899 400 (8–50 Nm) required

Scope of supply:
ESG mini 40 without clamping screws

ESG
mini



A mm	B mm	B ₁ mm	B ₂ mm	C _{±0,01} mm	D mm	E mm	F mm	SW mm	M _{max.} Nm	Clamping force kN	kg
40	0 - 58	40 - 81	83 - 122	40	22	62	132	8	20	12	1,7

Article no.
80 897 ...

040

Vice guide

Underside Dimensions	32	Structural dimension tables for the different jaws	33
System accessories	34–36	MNG/PNG zero point clamping system	63–78
General accessories	91–103		

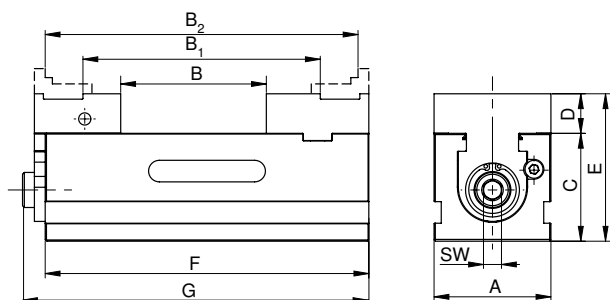
Sealed small parts single vice, 65 mm

▲ adapter plate for mounting with MNG possible

Scope of supply:

ESG mini incl. base jaws

**ESG
mini**



Article no.
80 897 ...

067

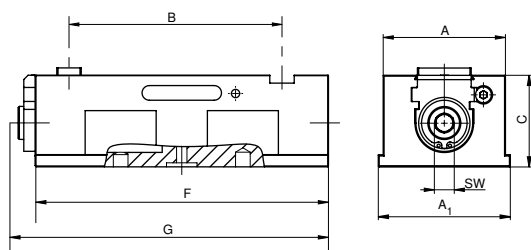
A mm	B mm	B ₁ mm	B ₂ mm	C _{+0/-0,02} mm	D mm	E mm	F mm	G mm	SW mm	M _{max.} Nm	Clamping force kN	kg
65	17 - 80	68 - 131	111 - 174	60	22	82	180	193	10	65	20	5,5

Sealed single vice, 100 mm

Scope of supply:

ESG 100 single vice without base jaws and wrench

**ESG
mini**



Article no.
80 897 ...

100

A mm	A ₁ mm	B mm	C _{+0/-0,02} mm	F mm	G mm	SW mm	M _{max.} Nm	Clamping force kN	kg
100	100	91 - 189	75	240	269	14	70	40	11,3

Vice guide

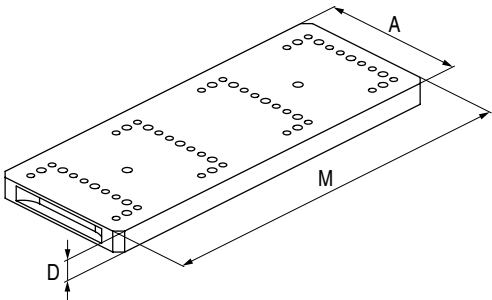
Underside Dimensions	32	Structural dimension tables for the different jaws	33
System accessories	34-36	MNG/PNG zero point clamping system	63-78
General accessories	91-103		

Adapter plate

▲ for mounting 3, 4 or 6 ESG mini-40 vices

Scope of supply:

plate with mounting parts for ESG mini-40 small parts vice, without MSG pullstud



Picture shows 4 location design



					Article no. 80 897 ...
for	adapter	A mm	D mm	M mm	
ESG mini-40	4	140	20	360	944 ¹⁾
ESG mini-40	6	140	20	560	946 ¹⁾

1) Not ex-stock

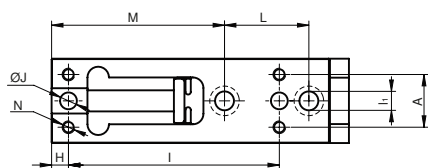
Vice guide

MNG/PNG zero point clamping system

63-78

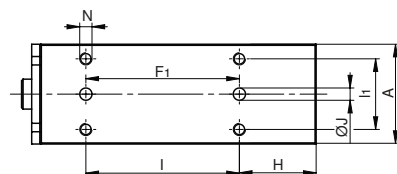
ESG mini underside dimensions

Base width 40 mm



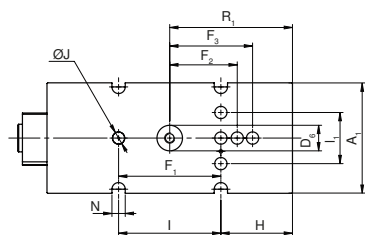
A mm	H mm	$I_{\pm 0,02}$ mm	I_1 mm	J_{H7} mm	L mm	M mm	N
40	8	100	25	8	40	82	M6

Base width 65 mm



A mm	$F_1 \pm 0,015$ mm	H mm	I mm	I_1 mm	J_{H7} mm	N
65	100	50	100	46	8	M8

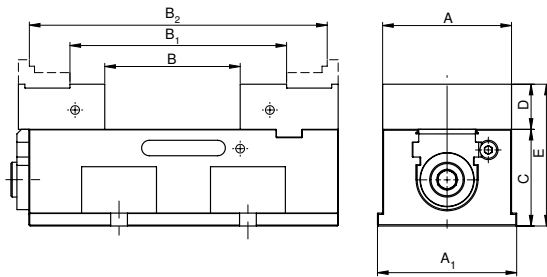
Base width 100 mm



A ₁ mm	$D_6 H7$ mm	$F_1 \pm 0,015$ mm	$F_2 \pm 0,015$ mm	$F_3 \pm 0,015$ mm	H mm	$I_{\pm 0,015}$ mm	I_1 mm	J_{H7} mm	R_1 mm	N mm
100	25	100	66	81	70	100	50	12	120	13

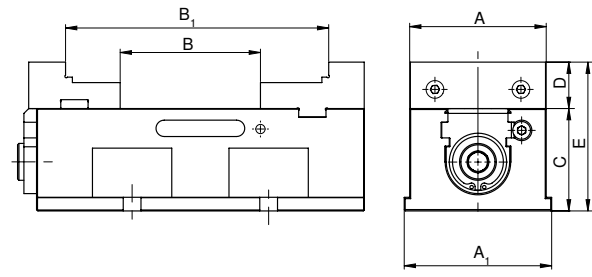
ESG mini-100 structural dimension table for the different jaws

with standard base jaws and
smooth jaw VS



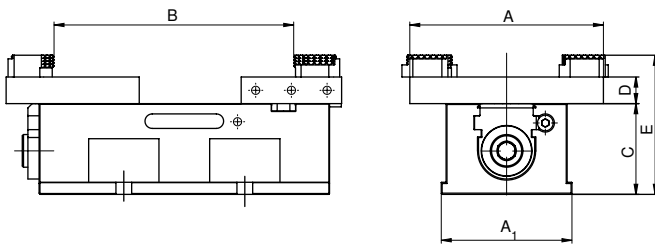
A mm	A _i mm	B mm	B ₁ mm	B ₂ mm	C mm	D mm	E mm
100	108	21 - 117	84 - 180	147 - 243	75	35	110

with combi jaws from the NCG 100 system



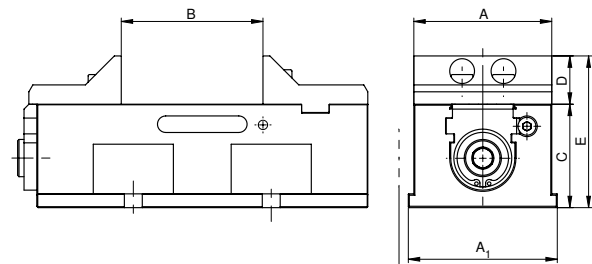
A mm	A _i mm	B mm	B ₁ mm	C mm	D mm	E mm
100	108	21 - 117	111 - 207	75	34	109

with pendulum jaws from the NCG system
and adapter jaws, fixed



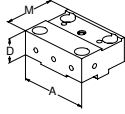
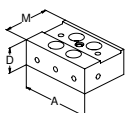
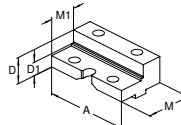
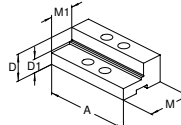
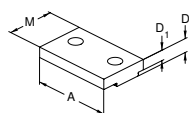
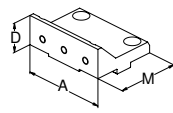
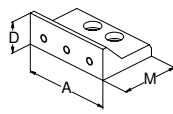
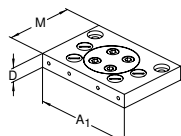
A mm	A _i mm	B mm	C mm	D mm	E mm
160	108	24 - 212	75	22	115

with 5-axis base jaws



A mm	A _i mm	B mm	C mm	D mm	E mm
100	108	21 - 117	75	35	110

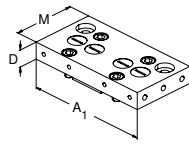
System jaws overview

Description	A	A ₁	D	D ₁	M	M ₁	Price	Article No.	Type association
Standard base jaws, fixed									
 ▲ price per piece	100		35		76			80 897 900	NCG H5G / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2
Standard base jaw, movable									
 ▲ price per piece	100		35		67			80 897 901	NCG H5G / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2
Combi reversible jaw, fixed									
 ▲ for the extension of the clamping range ▲ jaws hardened ▲ includes fixing bolts ▲ price per piece	100		34	23	76	50		80 890 343	NCG H5G / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2
Combi reversible jaw, movable									
 ▲ for the extension of the clamping range ▲ jaws hardened ▲ includes fixing bolts ▲ price per piece	100		34	23	67	40		80 890 347	NCG H5G / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2
Soft jaw, horizontal									
 ▲ for producing shaped jaws ▲ price per piece	65 100		11,5 13,5	8,6 10,6	40 50			80 895 338 80 895 348	NCG H5G / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2
5 axis base jaws, fixed									
 ▲ price per piece	100		35		76			80 897 916	NCG H5G / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2
5 axis base jaws, movable									
 ▲ price per piece	100		35		67			80 897 917	NCG H5G / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2
Pendulum jaw, movable									
 ▲ for holding 6-way reversible jaws ▲ price per piece ▲ incl. 6 cover screws (with A = 100 mm, 4 pieces)	100	160	22		110			80 890 322	NCG H5G / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2

System jaws overview

Description	A	A ₁	D	D ₁	M	M ₁	Price	Article No.	Type association
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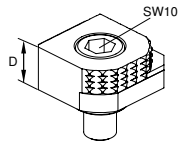
Adapter jaws, fixed



- ▲ for holding 6-way reversible jaws
- ▲ price per piece
- ▲ incl. 6 cover screws
(with A = 100 mm, 4 pieces)

								NCG	H5G	ESG	ESG	HDG	ZSG	ZSG	DSG	MSG
100	160	22		83			80 897 920				●					

6 function indexable jaw



- ▲ 1 = smooth, carbide coated
- ▲ 2 = grip with 3 mm step
- ▲ 3 = grip with 8 mm step
- ▲ 4 = grip with 18 mm step
- ▲ 5 = rough grip with 8 mm step
- ▲ 6 = Round grip
- ▲ M_{max} = 60 Nm
- ▲ including fixation screws

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

System accessories overview

Cover for combi reversible jaws, fixed

▲ price per piece

Scope of supply:

including 2 fixing screws

ESG
mini



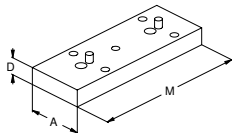
for width mm	Article no. 80 897 ...
100	911

MNG-Adapter plate for ESG mini

Scope of supply:

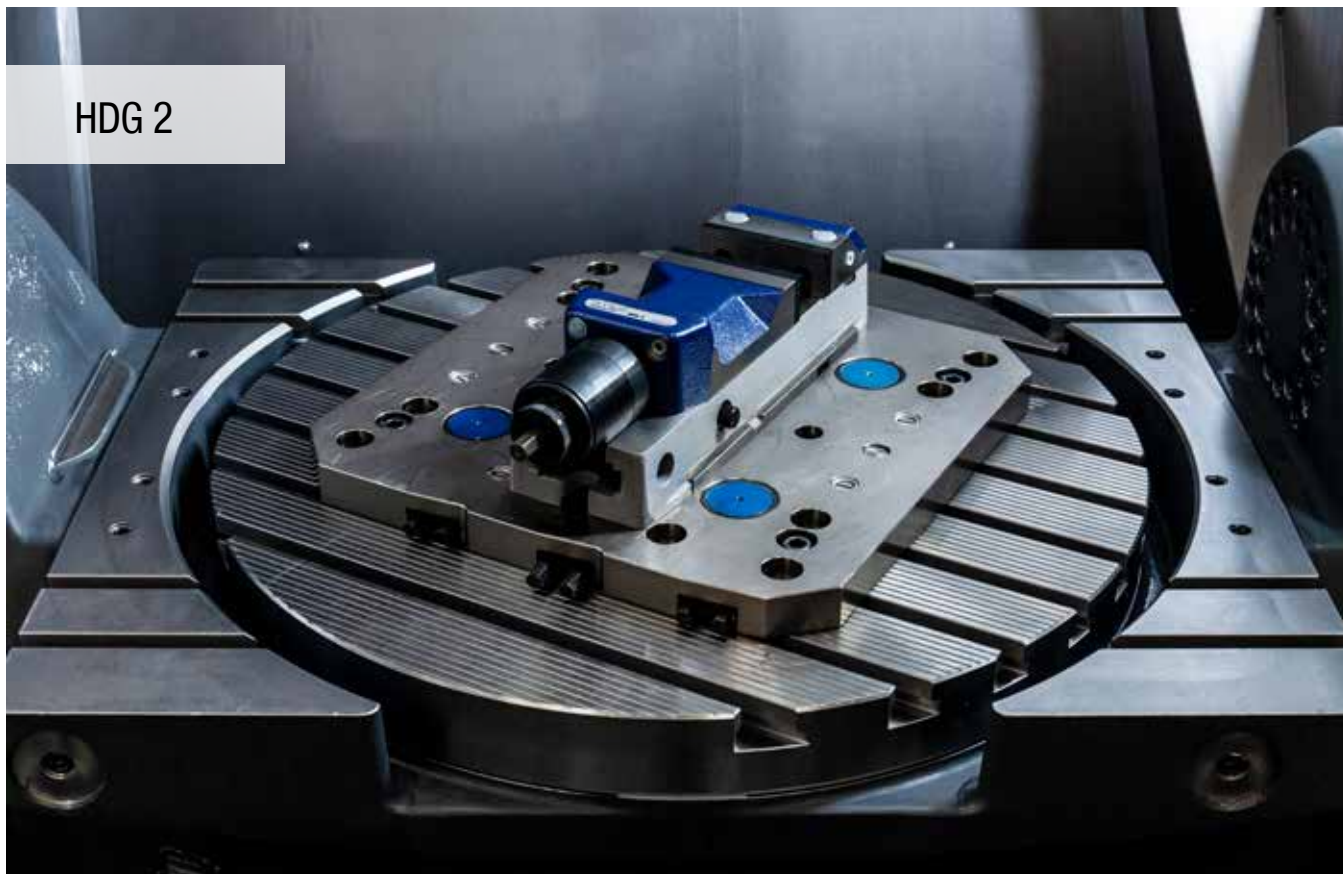
plate including mounting accessories

ESG
mini



for width mm	A mm	D mm	M mm	Article no. 80 897 ...
40	65	17	132	904
65	65	20	180	906

HDG 2



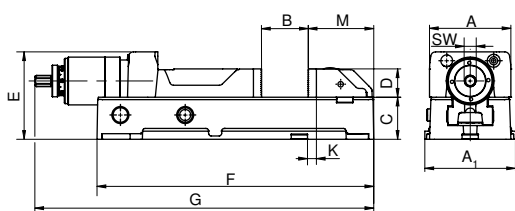
High pressure vice

- ▲ stepless power adjustment
- ▲ mechanical power transmission
- ▲ fast 160° lever clamping
- ▲ flexible Jaws, pre-machined to accommodate jaws for clamping range extension

Scope of supply:

High pressure vice incl. 4 clamping jaws, hand crank, 2 top jaws profiled and hardened, without clamping screws

HDG
2



A mm	A ₁ mm	B mm	C +0/-0.02 mm	D mm	E mm	F mm	G _{max.} mm	K ±0.015 mm	M mm	SW mm	Clamping force kN	kg
100	112	0 - 159	52	35	108	342	521	11	81	12	4 - 30	20
125	140	0 - 201	62	40	118	400	584	28	85	12	4 - 40	27
160	176	0 - 300	78	50	149	544	784	40	112	12	5 - 60	55

Article no.
80 892 ...

100
125
160

Vice guide

Underside Dimensions

39

System accessories

39

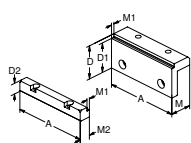
General accessories

91-103

System jaws overview

Description	A	D	D ₁	D ₂	M	M ₁	M ₂	Price	Article No.	Type association
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Jaws for clamping range extension



▲ price per set
(1 fixed and 1 movable jaw)

100	56	50	22	37	5	19		80 892 225	NCG	HSG / -S / -Z
125	56	50	22	37	5	19		80 892 226	ESG 4	ESG mini
160	71	65	23	47	5	23,5		80 892 227	HDG 2	ZSG 4
										ZSG 3
										DSG 4
										MSG 2

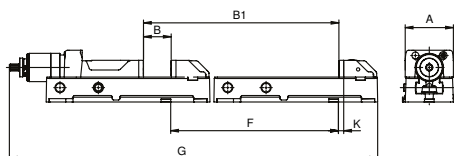
Illustration with extended clamping range



A	B	D	Vice Article Number	Jaw Article Number
100	118 - 278	56	80 892 100	80 892 225
125	137 - 338	56	80 892 125	80 892 226
160	169 - 470	71	80 892 160	80 892 227

Base body extension

HDG
2



NEW

Article no.
80 892 ...

A mm	B mm	B ₁ mm	F mm	G mm	K mm	
100	0-159	350-509	350	871,30	11	51000
125	0-201	410-611	410	994,10	28	51100
160	0-300	550-850	550	1334,15	40	51200

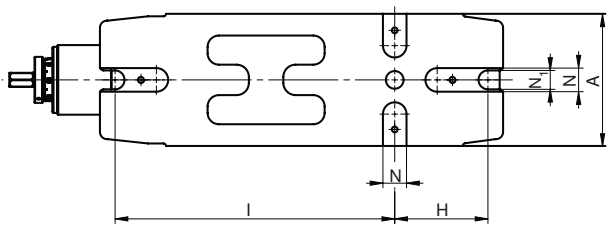
Shown with base body extension



A	B	D	Vice Article Number	Extension article number
100	350 - 509	35	80 892 100	80 892 51000
125	410 - 611	40	80 892 125	80 892 51100
160	550 - 850	50	80 892 160	80 892 51200

HDG 2 underside dimensions

Base width 100 mm, 125 mm, 160 mm



A mm	H mm	I mm	N _{H7} mm	N ₁ mm
100	80	240	20	15
125	100	280	20	18
160	130	380	20	22

Angular drive

HDG
2



for width mm
100/125
160

Article no.
80 892 ...

314
315

Hand crank

▲ for fast adjustment

HDG
2



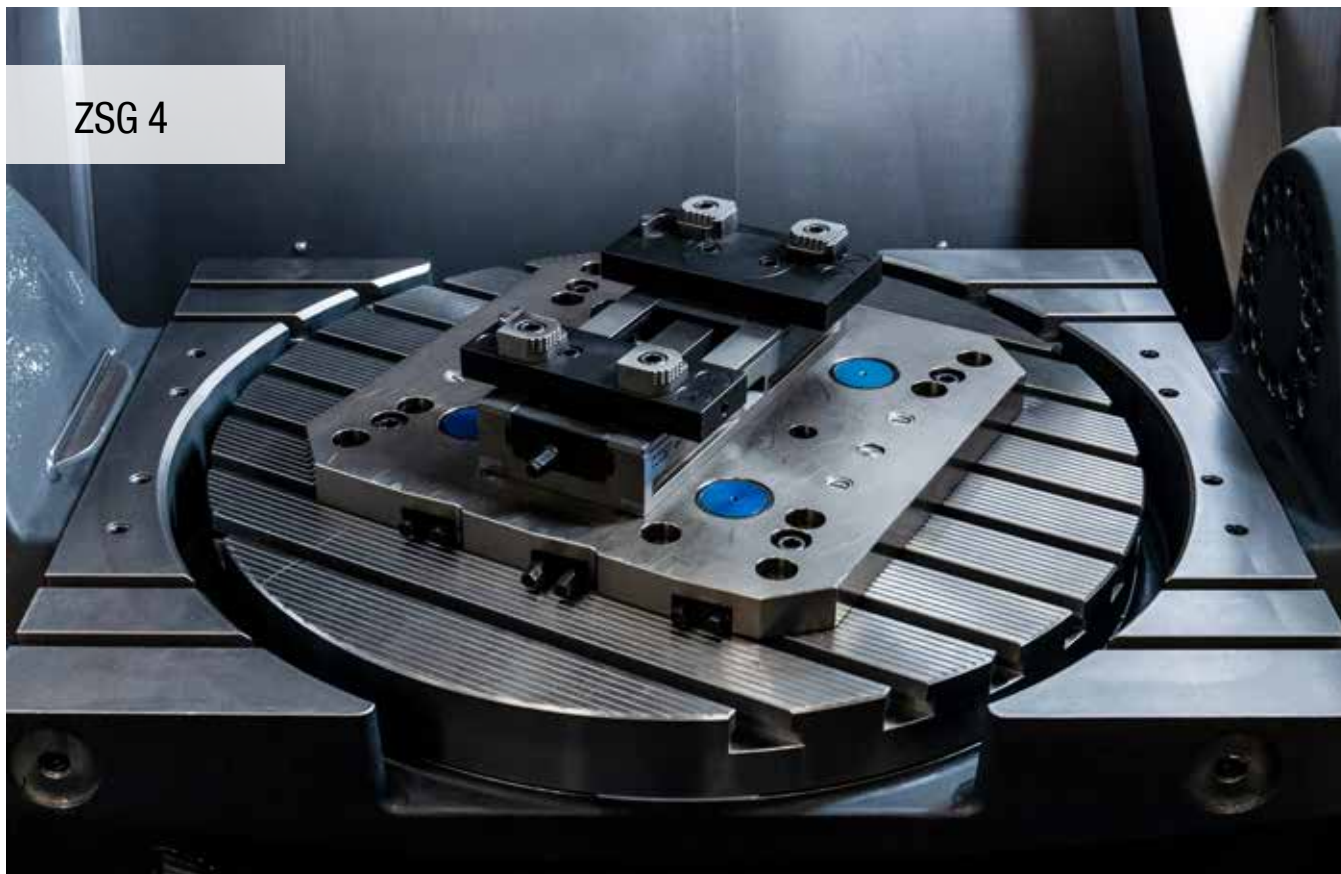
for width mm
100/125
160

SW mm
12
12

Article no.
80 892 ...

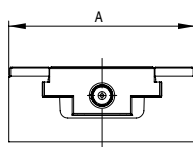
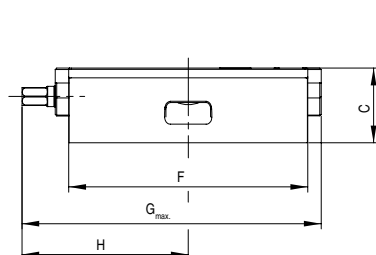
124
164

ZSG 4



Sealed Centric Vice

- ▲ without system jaws
- ▲ ball bearing mounted spindle
- ▲ ± 0.01 mm repeatability



							Article no. 80 878 ...
A mm	C _{±0,01} mm	F mm	G _{max.} mm	H mm	Clamping force kN	kg	
80	50	130	157	81,0	25	3,0	081
80	50	190	206	104,0	25	4,5	08400
125	50	160	200	111,5	35	6,4	225
125	50	300	340	181,0	35	11,8	226
160	70	280	315	172,0	50	21,0	160
160	70	480	524	276,0	50	35,0	260

Vice guide

Underside Dimensions

43

System accessories

44-46

MNG/PNG zero point clamping system

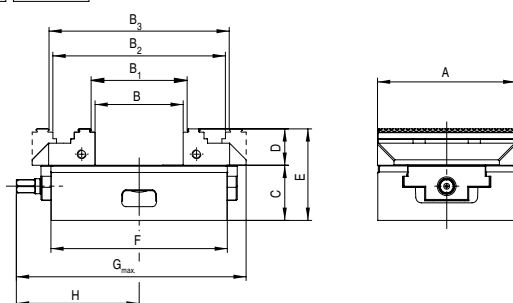
63-78

General accessories

91-103

Sealed Centric vice

- ▲ with 2 reversible grip jaws
- ▲ ball bearing mounted spindle
- ▲ ± 0.01 mm repeatability



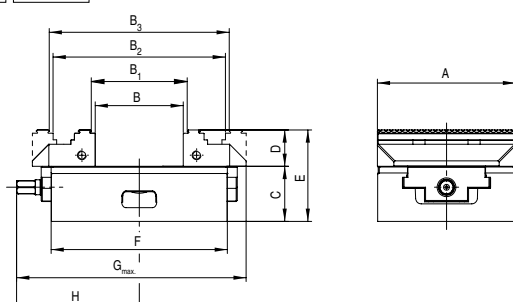
Article no.
80 878 ...

A mm	B mm	B ₁ mm	B ₂ mm	B ₃ mm	C mm	D mm	E mm	F mm	G _{max} mm	H mm	Clamping force kN	kg	
80	0 - 59	4 - 63	59 - 117	63 - 121	50	28	78	130	157	81,0	25	4,0	080
80	0 - 123	4 - 127	59 - 181	63 - 185	50	28	78	190	206	104,0	25	5,5	08300
125	0 - 80	8 - 87	77 - 156	84 - 163	50	33	83	160	208	111,5	35	8,7	025
125	0 - 220	8 - 227	77 - 296	84 - 303	50	33	83	300	348	181,0	35	14,0	026

i It is not possible to fit top jaws with a height of 40 mm, if this height is required, please use the reversible jaws with D = 40 mm (Article No. 80 878 520).

Sealed centric vice suitable for PNG, MNG and Lang zero point clamping systems

- ▲ with 2 reversible grip jaws
- ▲ ball bearing mounted spindle
- ▲ ± 0.01 mm repeatability



Article no.
80 878 ...

A mm	B mm	B ₁ mm	B ₂ mm	B ₃ mm	C _{±0,01} mm	D mm	E mm	F mm	G _{max} mm	H mm	Clamping force kN	kg	
125	0 - 80	8 - 87	77 - 156	84 - 163	50	33	83	160	208	111,5	35	8,7	125



WNT MNG



Schunk VERO-S / WNT - PNG



Lang Quick Point 96 x 96



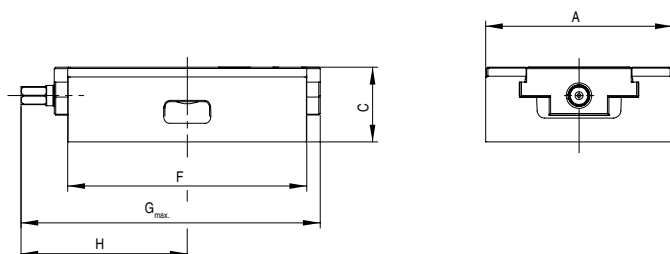
Lang Quick Point 52 x 52

Vice guide

Underside Dimensions	43	System accessories	44-46
MNG/PNG zero point clamping system	63-78	General accessories	91-103

Sealed centric vice suitable for Lang and PNG, MNG zero point clamping systems

- ▲ without system jaws
- ▲ ball bearing mounted spindle
- ▲ ± 0.01 mm repeatability



Article no.
80 878 ...

325

A mm	C mm	F mm	G _{max} mm	H mm	Clamping force kN	kg
125	50	160	200	111,5	35	6,3



WNT MNG



Schunk VERO-S / WNT - PNG



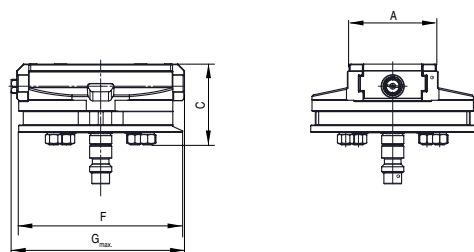
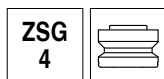
Lang Quick Point 96 x 96



Lang Quick Point 52 x 52

Sealed centric vice for Erowa ITS 148

- ▲ without system jaws
- ▲ ball bearing mounted spindle
- ▲ ± 0.01 mm repeatability



Article no.
80 878 ...

082

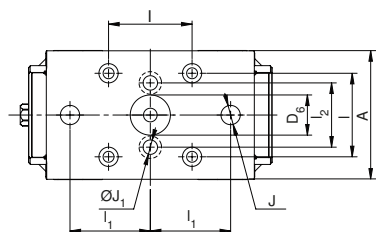
A mm	C mm	F mm	G _{max} mm	Clamping force kN	kg
80	73	148	157	25	5,6

Vice guide

Underside Dimensions	43	System accessories	44-46
MNG/PNG zero point clamping system	63-78	General accessories	91-103

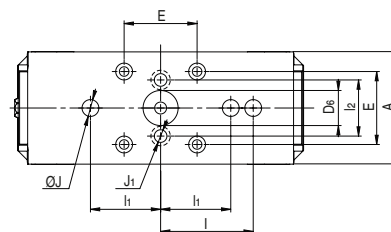
ZSG 4 underside dimensions

Base width 80 mm and 130 mm length



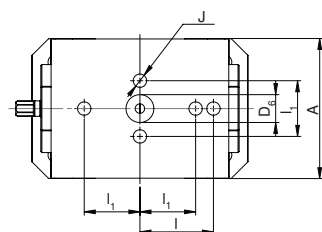
A	D ₆ H6	I ±0,015	I ₁ ±0,015	I ₂	J H7	J ₁
mm	mm	mm	mm	mm	mm	mm
80	25	52	50	40	12	9

Base width 80 mm and length 190 mm



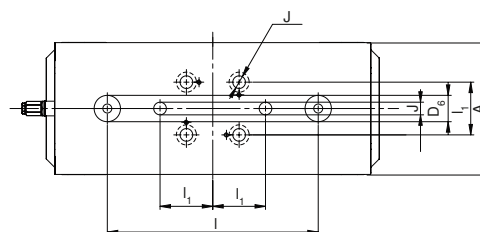
A	D ₆ H6	E ±0,015	I ₁ ±0,015	I ±0,015	J H7	J ₁	I ₂
mm	mm	mm	mm	mm	mm	mm	mm
80	25	52	50	66	12	9	40

Base width 125 mm and length 160 mm



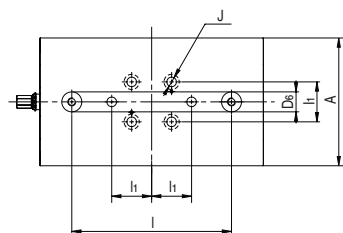
A	D ₆ H6	I ±0,015	I ₁ ±0,015	J H7
mm	mm	mm	mm	mm
125	25	66	50	12

Base width 125 mm and 300 mm length



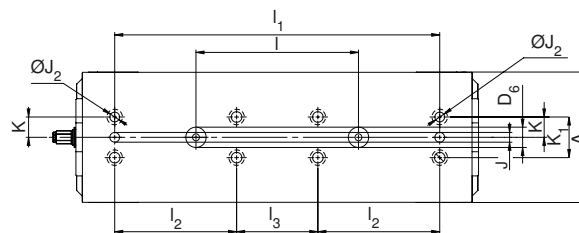
A	D ₆ H6	I ±0,015	I ₁ ±0,015	J H7
mm	mm	mm	mm	mm
125	25	200	50	12

Base width 160 mm and length 280 mm



A	D ₆ H6	I ±0,015	I ₁ ±0,015	J H7
mm	mm	mm	mm	mm
160	25	200	50	12

Base width 160 mm and length 480 mm

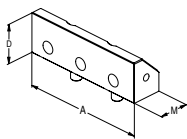


A	D ₆ H6	I ±0,015	I ₁ ±0,015	I ₂	I ₃	J H7	J ₂ F7	K ±0,02	K ₁
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
160	25	200	400	150	100	12	12	25	50

System jaws overview

Description	for width	A	A ₁	D	D ₁	M	Price	Article No.	Type association
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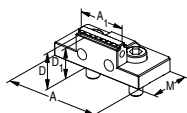
5-axis jaw, movable



▲ price per piece

	125		40		45,5			80 878 625	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
	160		50		73			80 878 660						●			

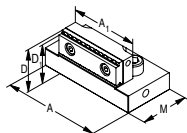
Indexable grip jaw 3 mm, width 40 mm, movable



▲ price per piece

80	80	40	28	25	40			80 878 840	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
											●			●			

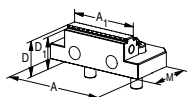
5-axis jaw, grip 3 mm, width 65 mm, movable



▲ price per piece

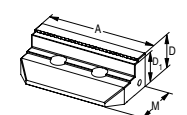
125	95	65,5	40	37	57			80 878 665	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
														●			

5-axis indexable jaw, grip 3 mm, width 65 mm, movable


 ▲ double sided grip step
 ▲ price per piece

125	95	65	33	30	57			80 878 565	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
											●			●			

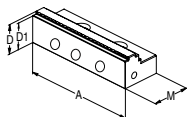
Indexable jaw, grip 3 mm, height 40 mm, smooth 18 mm, movable



▲ price per piece

	125		40	37	59			80 878 520	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
														●			

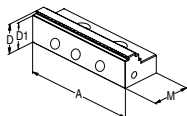
Indexable jaw, grip 3 mm, movable



▲ price per piece

	80		28	25	40			80 878 810	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
	125		33	30	57			80 878 510			●			●		●	
	160		50	47	81			80 878 610			●			●			

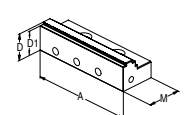
Indexable jaw, grip 5 mm, movable



▲ price per piece

	80		28	23	41			80 878 81100	NEW	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
	125		33	28	57			80 878 51100							●			

Indexable grip jaw, for aluminium and plastic



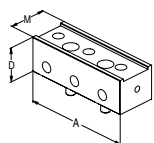
▲ price per piece

	80		28	23	40			80 878 81200	NEW	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
	125		33	28	57			80 878 51200							●			

System jaws overview

Description	for width	A	A ₁	D	D ₁	M	Price	Article No.	Type association
-------------	-----------	---	----------------	---	----------------	---	-------	-------------	------------------

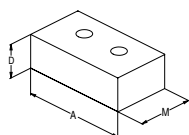
Combi jaw



▲ price per piece

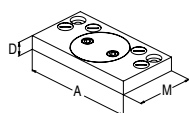
									NCG	HSG / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
	125		40			45,5		80 878 530						●			

Alu jaw

▲ for producing shaped jaws
▲ price per piece

									NCG	HSG / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
	80		28			48		80 878 850			●			●		●	
	125		40			68		80 878 550			●			●		●	
	160		50			85		80 878 305			●			●			

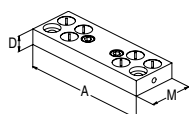
Pendulum jaw, movable



▲ price per piece

									NCG	HSG / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
80	125		19			76		80 878 870			●			●		●	
125	180		22			95		80 878 570			●			●		●	
160	256		22			170		80 878 670			●			●			

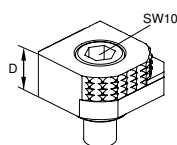
Adapter jaw



▲ price per piece

									NCG	HSG / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
80	125		19			39		80 878 890						●			
125	180		22			62		80 878 590						●			
160	256		22			125		80 878 690						●			

6 function indexable jaw



- ▲ 1 = Smooth, carbide coated
- ▲ 2 = Grip with 3 mm step
- ▲ 3 = Grip with 8 mm step
- ▲ 4 = Grip with 18 mm step
- ▲ 5 = Rough grip with 8 mm step
- ▲ 6 = Round grip
- ▲ M_{max} = 60 Nm
- ▲ Including fixation screws

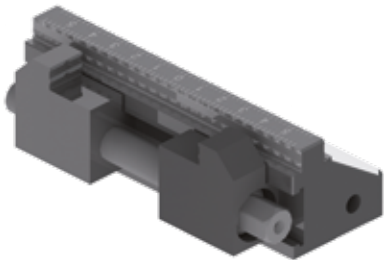
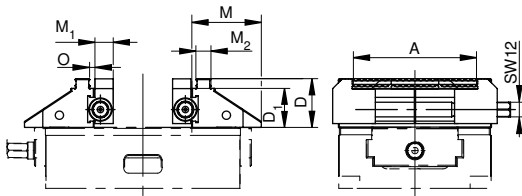
									NCG	HSG / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
			18					80 892 246	●	●	●	●		●		●	

6 face jaw system for 125 mm jaw width

Scope of supply:

2 System jaws with 2 pairs of transverse jaws in T-slot guidance incl. fixing screws

ZSG
4

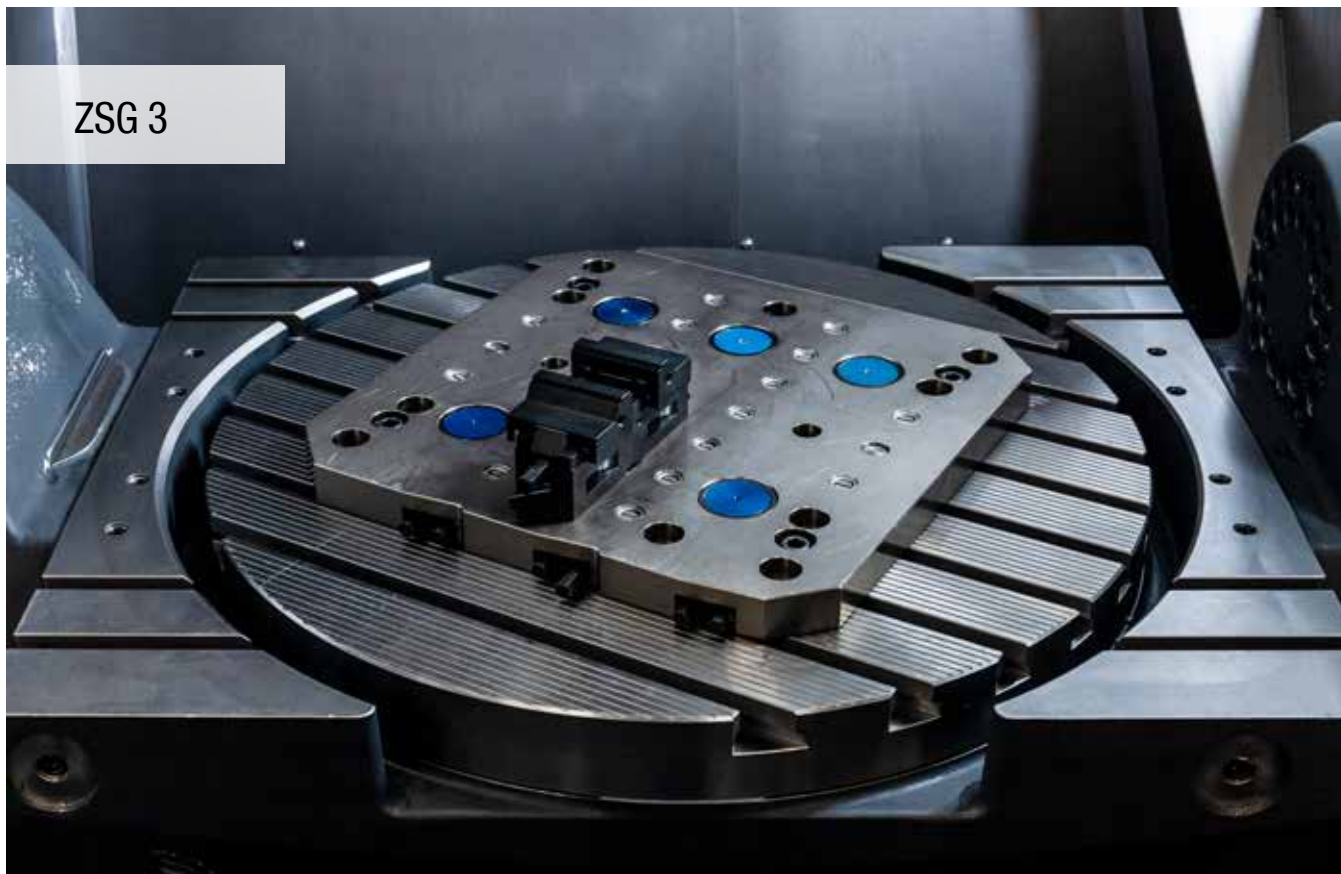


Article no.
80 878 ...

for width mm	A mm	D mm	D ₁ mm	M mm	M ₁ mm	M ₂ mm	O mm	kg
125	37 - 101	40	32	57	15	12,4	3,3	3,8

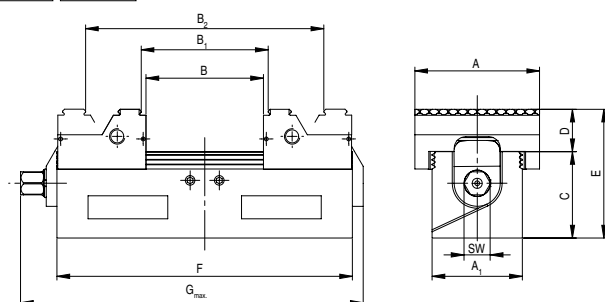
525

ZSG 3



Sealed small parts centric vice with grip jaws

- ▲ with grip jaws for rough part clamping
- ▲ quick change jaws



Article no.
80 884 ...

A mm	A ₁ mm	B mm	B ₁ mm	B ₂ mm	C mm	D mm	E mm	F mm	G _{max.} mm	SW mm	M _{max.} Nm	Clamping force kN	kg
40	30	0 - 34	6 - 38	37 - 71	30	16	46	89	106,0	7	20	7	0,8
65	47	0 - 60	6 - 65	64 - 123	45	22	67	154	178,5	12	50	15	2,9

040 ¹⁾
065

1) not standardised

Vice guide

Underside Dimensions

49

System accessories

50

MNG/PNG zero point clamping system

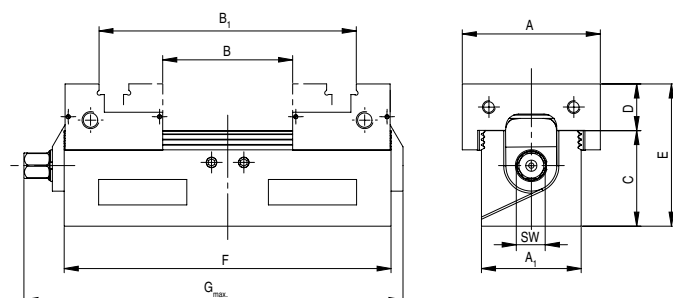
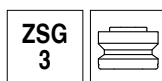
63-78

General accessories

91-103

Sealed small parts centric vice with ground jaws

- ▲ jaws pre-ground in the clamped position (second side machining)
- ▲ quick change jaws



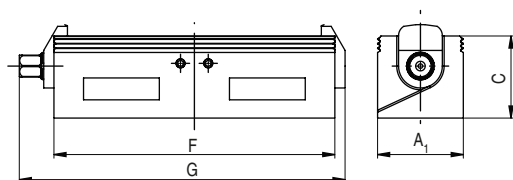
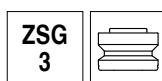
Article no.
80 884 ...

A mm	A ₁ mm	B mm	B ₁ mm	C mm	D mm	E mm	F mm	G _{max} mm	SW mm	M _{max} Nm	Clamping force kN	kg	
40	30	0 - 34	33 - 67	30	16	46	89	106,0	7	20	7	0,8	041 ¹⁾
65	47	0 - 60	61 - 120	45	22	67	154	178,5	12	50	15	2,9	066

1) not standardised

Sealed small parts centric vice

- ▲ without jaws



Article no.
80 884 ...

A ₁ mm	C mm	F mm	G _{max} mm	SW mm	M _{max} Nm	Clamping force kN	kg	
30	30	89	106,0	7	20	7	0,6	140 ¹⁾
47	45	154	178,5	12	50	15	2,1	165

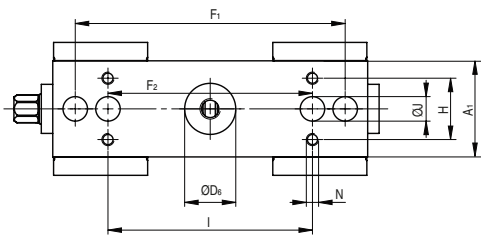
1) not standardised

Vice guide

Underside Dimensions	49	System accessories	50
MNG/PNG zero point clamping system	63-78	General accessories	91-103

ZSG 3 underside dimensions

Base width 30 mm and 47 mm



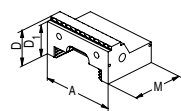
A ₁ mm	D ₆ H7 mm	F ₁ ±0,015 mm	F ₂ ±0,015 mm	H mm	I mm	J H7 mm	N
30			60	20	60	8	M6
47	25	132	100	30	100	12	M6

i ZSG 3 with 40 mm jaw width is not suitable for MNG

System jaws overview

Description	for width	A	A ₁	D	D ₁	M	Price	Article No.	Type association
-------------	-----------	---	----------------	---	----------------	---	-------	-------------	------------------

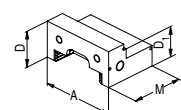
Reversible jaw, grip



▲ price per piece

	40		25	23	29			80 884 300	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
	65		31,5	29	46			80 884 350							●		

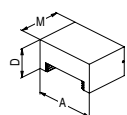
Reversible jaw with ground step



▲ price per piece

	40		25	20	29			80 884 310	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
	65		31,5	26	46			80 884 360							●		

Soft steel jaw

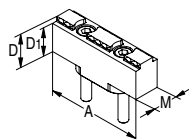


▲ for production of formed jaws

▲ price per piece

	40		25		28			80 884 320	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
	65		31,5		46			80 884 370							●		

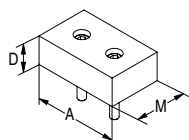
Centre jaw, grip



▲ price per piece

	65		22	19	16,6			80 884 380	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
															●		

Centre jaw, soft



▲ price per piece

	65		22		40			80 884 390	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
															●		

Workpiece stop

ZSG
3Article no.
80 884 ...Type
ZSG3-40mm

400

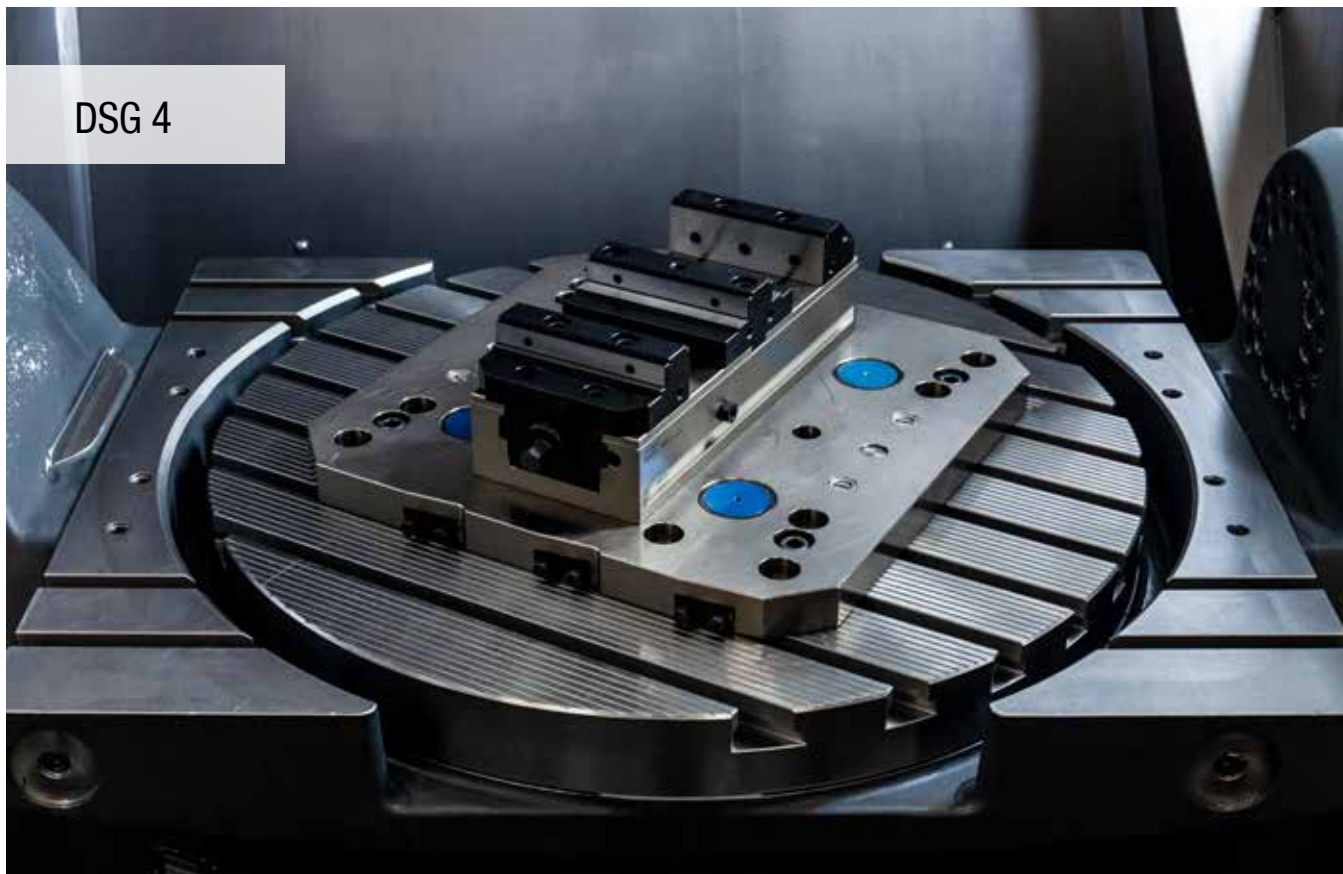
Clamping claw

▲ price for 2 pieces

ZSG
3Article no.
80 884 ...

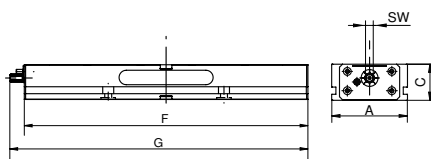
440

DSG 4



Double vice without jaws

- ▲ 100 % encapsulated
- ▲ fast assembly and disassembly
- ▲ flexible clamping system
- ▲ conversion to centric vice



								Article no. 80 906 ...
A mm	C mm	F mm	G mm	SW mm	M _{max.} Nm	Clamping force kN	kg	
80	55	300	308	12	90	0 - 25	8	080
125	60	320	347	14	100	0 - 40	14	125
125	60	390	417	14	100	0 - 40	17	12700
125	60	460	487	14	100	0 - 40	20	12800
125	60	530	557	14	100	0 - 40	24	12900
125	60	600	627	14	100	0 - 40	27	13000
125	60	670	697	14	100	0 - 40	30	13100
125	60	740	767	14	100	0 - 40	34	126

Vice guide

'Third hand' operation

53

System accessories

52+53

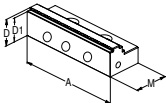
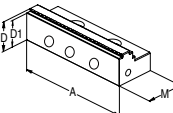
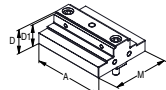
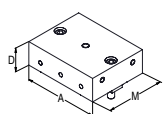
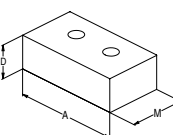
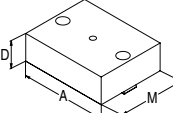
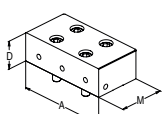
MNG/PNG zero point clamping system

63-78

General accessories

91-103

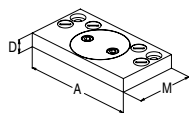
System jaws overview

Description	A	A ₁	D	D ₁	M	M ₁	Price	Article No.	Type association
Indexable grip jaw, 3 mm, movable									
 ▲ price per piece	125		40	37	66			80 901 303	NCG H5G / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2
Indexable grip jaw, 3 mm, movable									
 ▲ price per piece	80		28	25	40			80 878 810	NCG H5G / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2
Centre jaw, grip									
 ▲ price per piece	80		28	25	72			80 906 300	NCG H5G / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2
	125		40	37	98			80 906 304	● ● ● ● ● ● ● ●
Centre jaw, smooth									
 ▲ price per piece	80		28		72			80 906 301	NCG H5G / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2
	125		40		98			80 906 305	● ● ● ● ● ● ● ●
Alu jaw									
 ▲ for producing shaped jaws ▲ price per piece	80		28		48			80 878 850	NCG H5G / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2
	125		40		68			80 878 550	● ● ● ● ● ● ● ●
Centre jaw, Alu									
 ▲ for producing shaped jaws ▲ price per piece	80		28		72			80 906 302	NCG H5G / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2
	125		40		98			80 906 306	● ● ● ● ● ● ● ●
Block jaw, movable									
 ▲ price per piece	80		28		40			80 901 31300	NCG H5G / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2
	125		40		66			80 901 31500	● ● ● ● ● ● ● ●

System jaws overview

Description	for width	A	A ₁	D	D ₁	M	Price	Article No.	Type association
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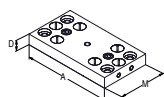
Pendulum jaw, movable



▲ price per piece

									NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
80	125		19		76			80 878 870			●			●		●	
125	180		22		95			80 878 570		●				●		●	

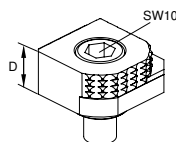
Centre jaw adapter plate, fixed



▲ price per piece

									NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
80	125		19		72			80 906 303								●	
125	180		22		98			80 906 307								●	

6 function indexable jaw



- ▲ 1 = Smooth, carbide coated
- ▲ 2 = Grip with 3 mm step
- ▲ 3 = Grip with 8 mm step
- ▲ 4 = Grip with 18 mm step
- ▲ 5 = Rough grip with 8 mm step
- ▲ 6 = Round grip
- ▲ M_{max} = 60 Nm
- ▲ Including fixation screws

									NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
			18					80 892 246	●	●	●	●		●		●	

Plastic protection plugs

DSG
4



Article no.
80 906 ...

G

M10x12

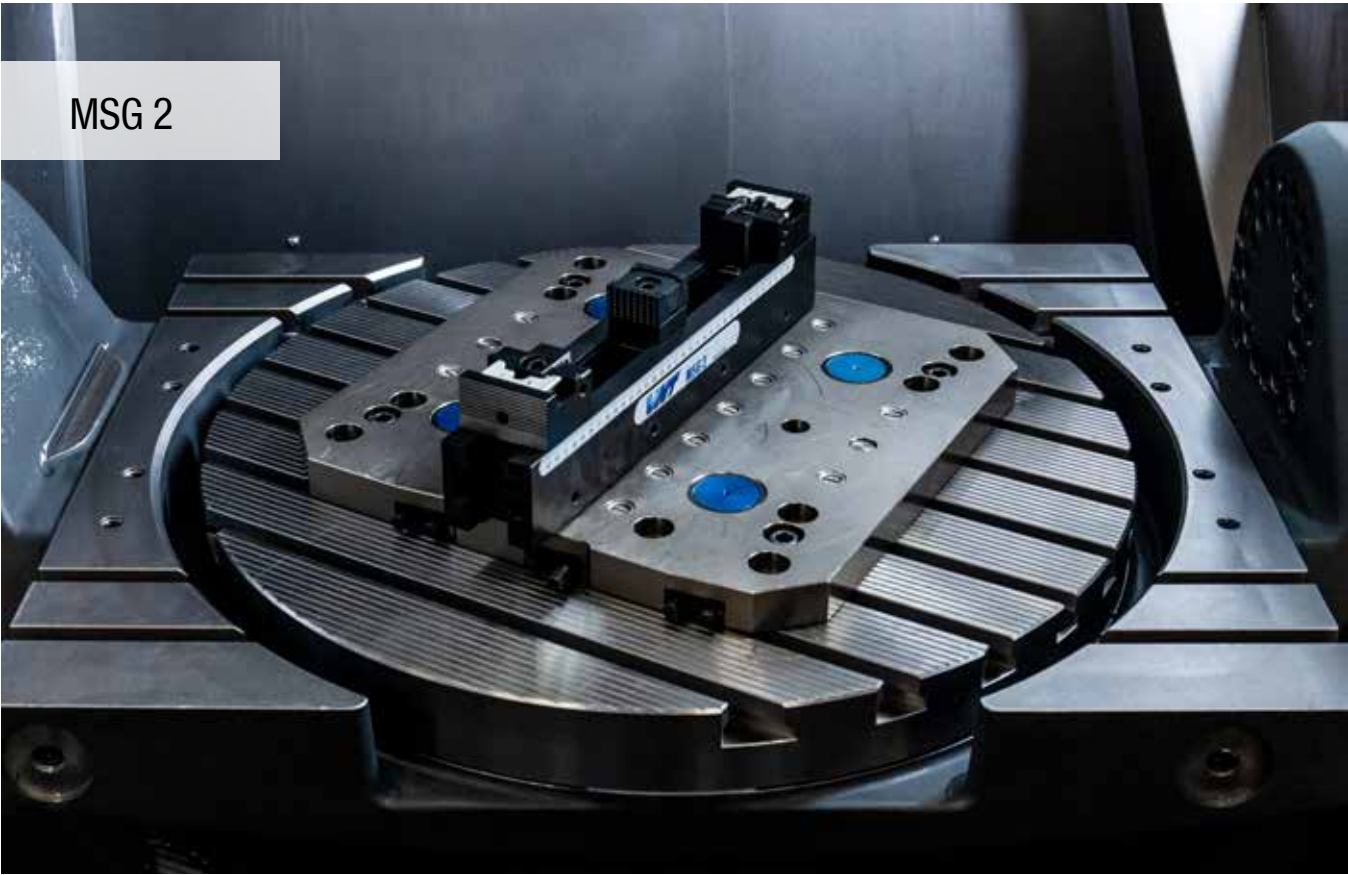
500

'Third hand' operation

The third-hand operation function on the DSG 4 is ensured by pre-loading the rear slide with compression springs.



The lateral clamping screw A is not tightened, instead it is open approx. 1/2 turn. When the vice is fully open, the movable jaws B and C are to be placed in the appropriate slots of slides D and E and secured according to the workpiece size. Two workpieces of different sizes can also be clamped.

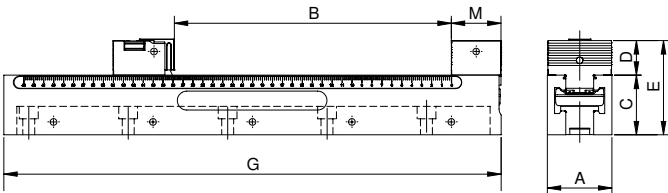


Multiple clamping base body 65 mm

- ▲ with internal teeth
- ▲ for single and multi-clamping
- ▲ adapter plate for MNG available on request

Scope of supply:
body without jaws

**MSG
2**



									Article no. 80 887 ...	
A mm	B mm	C _{-0,01} mm	D mm	E mm	G mm	M mm	Clamping force kN	kg		
65	7 - 108	60	34,8	94,8	220	50	0 - 50	4,1	226	
65	7 - 208	60	34,8	94,8	320	50	0 - 50	5,7	326	
65	7 - 288	60	34,8	94,8	400	50	0 - 50	7,3	406	
65	7 - 388	60	34,8	94,8	500	50	0 - 50	9,2	506	
65	7 - 538	60	34,8	94,8	650	50	0 - 50	11,8	656	

Vice guide

Underside Dimensions	56	Structural dimension tables for the different jaws	57
System accessories	58-60	General accessories	91-103

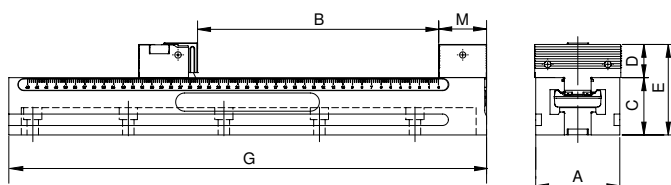
Multiple clamping base body 90 mm

- ▲ with internal teeth
- ▲ for single and multi-clamping
- ▲ adapter plate for MNG available on request

Scope of supply:

body without jaws

MSG
2

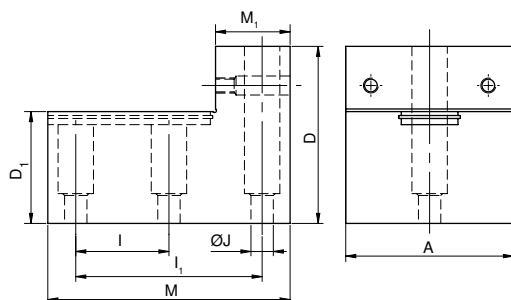


									Article no. 80 887 ...
A mm	B mm	C -0,01 mm	D mm	E mm	G mm	M mm	Clamping force kN	kg	
90	7-288	60	34,8	94,8	400	50	0 - 50	10,5	409
90	7-388	60	34,8	94,8	500	50	0 - 50	13,2	509
90	7-488	60	34,8	94,8	600	50	0 - 50	15,9	609
90	7-538	60	34,8	94,8	650	50	0 - 50	16,9	659

Stop jaw, fixed

- ▲ for clamping of large plates and workpieces
- ▲ price per piece

MSG
2



								Article no. 80 888 ...
A mm	D mm	D1 mm	I ±0,015 mm	I1 ±0,015 mm	J F7 mm	M mm	M1 mm	
65	95	60	50	100	12	130	40	655
90	95	60	50	100	12	130	40	905

Vice guide

Underside Dimensions

56

Structural dimension tables for the different jaws

57

System accessories

58-60

General accessories

91-103

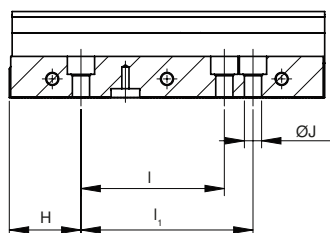


MSG 2 – Fast setup and easy clamping for large workpieces

Using stop jaws and MSG 2 base bodies with reversible-adjusting jaws workpieces which are approximately the size of the table can be clamped with up to 50 kN clamping force quickly and safely.

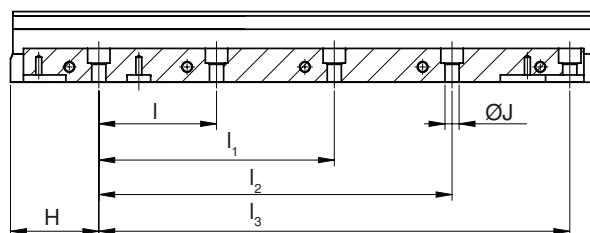
MSG 2 underside dimensions

Base width 65 mm and length 220 mm



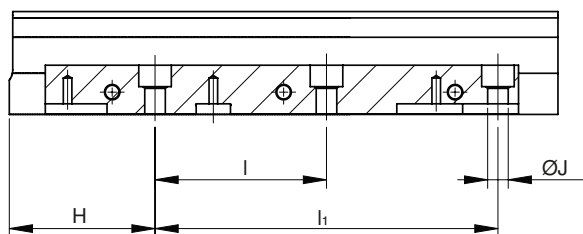
H $\pm 0,02$ mm	l $\pm 0,02$ mm	l ₁ $\pm 0,02$ mm	J F7 mm
50	100	120	12

Base width 65 mm and 90 mm, length 500 mm



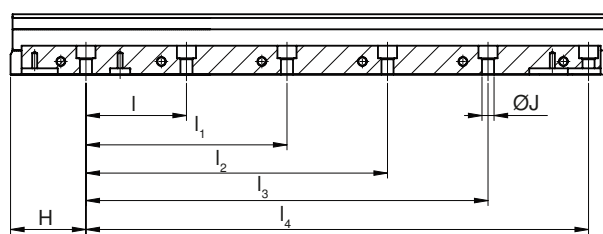
H $\pm 0,02$ mm	l $\pm 0,02$ mm	l ₁ $\pm 0,02$ mm	l ₂ $\pm 0,02$ mm	l ₃ $\pm 0,02$ mm	J F7 mm
75	100	200	300	400	12

Base width 65 mm and length 320 mm



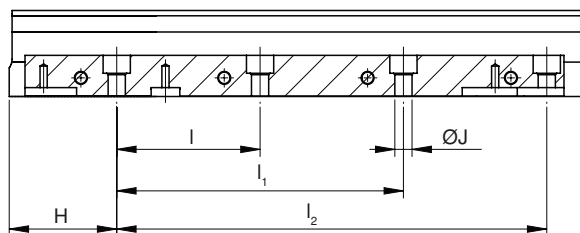
H $\pm 0,02$ mm	l $\pm 0,02$ mm	l ₁ $\pm 0,02$ mm	J F7 mm
85	100	200	12

Base width 90 mm and length 600 mm



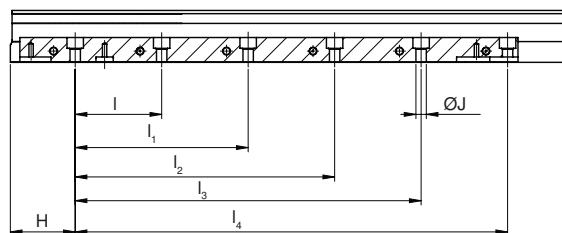
H $\pm 0,02$ mm	l $\pm 0,02$ mm	l ₁ $\pm 0,02$ mm	l ₂ $\pm 0,02$ mm	l ₃ $\pm 0,02$ mm	l ₄ $\pm 0,02$ mm	J F7 mm
75	100	200	300	400	500	12

Base width 65 mm and 90 mm, length 400 mm



H $\pm 0,02$ mm	l $\pm 0,02$ mm	l ₁ $\pm 0,02$ mm	l ₂ $\pm 0,02$ mm	J F7 mm
75	100	200	300	12

Base width 65 mm and 90 mm, length 650 mm

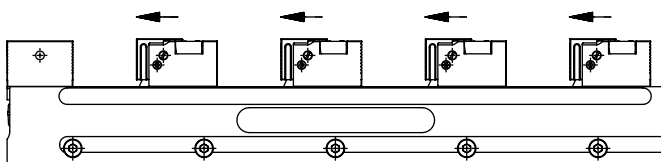


H $\pm 0,02$ mm	l $\pm 0,02$ mm	l ₁ $\pm 0,02$ mm	l ₂ $\pm 0,02$ mm	l ₃ $\pm 0,02$ mm	l ₄ $\pm 0,02$ mm	J F7 mm
75	100	200	300	400	500	12

MSG 2 structural dimension table for the different jaws

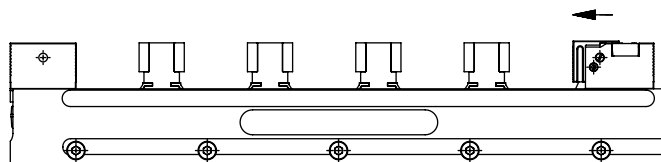
The spans are valid for use when using adjustment jaws without jaws and can therefore be reduced depending on the application.

Clamping with fixed and adjustable jaws



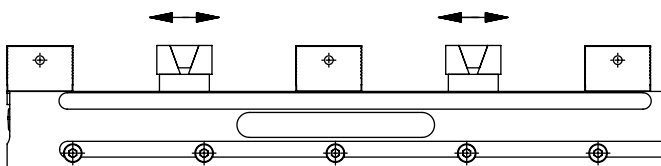
MSG 2	Standard multiple vice range							
	1	2	3	4	5	6	7	8
220	108	23						
320	208	73	28	5				
400	288	113	54	25	8			
500	388	163	88	50	28	13		
600	488	213	121	75	48	29	16	
650	538	238	138	88	58	38	23	

Clamping with fixed jaw, intermediate jaws incl. top jaws and one adjustable jaw



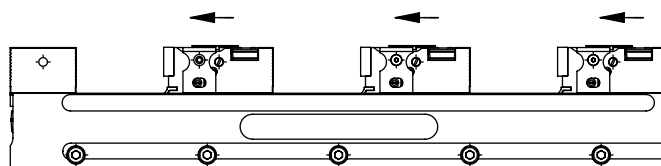
MSG 2	Standard multiple vice range									
	1	2	3	4	5	6	7	8	9	10
220	108	36	12							
320	208	87	45	25	13	5				
400	288	126	72	45	29	18	11	5		
500	388	176	106	70	49	35	25	17	11	7
600	488	226	139	95	69	52	39	30	23	17
650	538	251	155	108	79	60	46	36	28	22

Clamping with fixed and wedge jaws



MSG 2	Standard multiple vice range				
	2	4	6	8	10
220	39	-	-	-	-
320	89	22	-	-	-
400	129	42	12	-	-
500	179	67	29	10	-
600	229	92	46	23	9
650	254	104	54	29	14

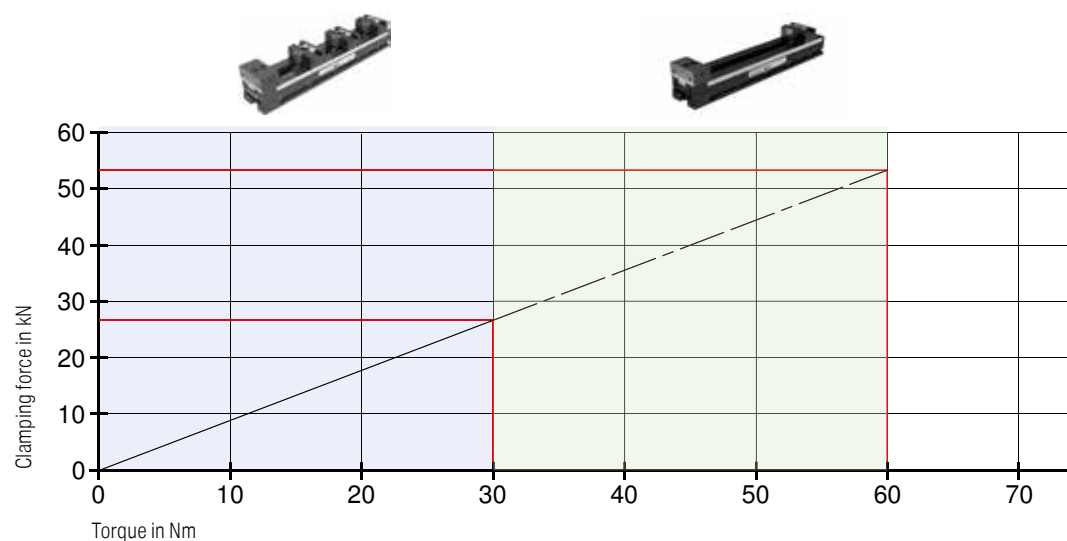
Clamping with fixed, adjustable and base jaws with guide



MSG 2	Standard multiple vice range					
	1	2	3	4	5	6
220	86	-	-	-	-	-
320	186	51	6	-	-	-
400	266	91	33	4	-	-
500	366	141	66	29	6	-
600	466	191	99	54	26	8
650	516	216	116	66	36	16

Standard multiple vice range

Extended single vice range



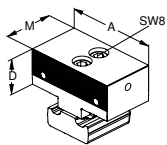
Maximum clamping force with **Multi vice**
for MSG 2 40, 60 and 90 mm.
27 kN per tie point corresponding to 30 Nm tightening force.

Maximum clamping force with **single vice**
for MSG 2 40, 60 and 90 mm.
50 kN corresponding to 60 Nm tightening force.

System jaws overview

Description	A	A ₁	D	D ₁	M	M ₁	Price	Article No.	Type association
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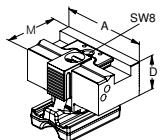
Reversible jaw set, short



- ▲ with indexing teeth
- ▲ profiled clamping surfaces
- ▲ price per piece

40		34,8		50				80 888 401	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
65		34,8		50				80 888 651									
90		34,8		50				80 888 901									

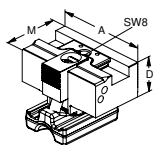
Reversible adjustable jaw profiled



- ▲ for workpiece clamping and positioning of the next workpiece
- ▲ 4 mm stroke
- ▲ suitable for 65 and 90 mm width
- ▲ price per piece

40		34,8		61,5				80 888 403	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
65		34,8		61,5				80 888 653									
90		34,8		61,5				80 888 903									

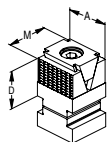
Reversible adjustable jaw with a pyramid profile



- ▲ for workpiece clamping and positioning of the next workpiece
- ▲ 4 mm stroke
- ▲ suitable for 65 and 90 mm width
- ▲ price per piece

40		34,8		61,5				80 888 404	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
65		34,8		61,5				80 888 654									
90		34,8		61,5				80 888 904									

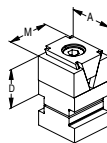
Wedge jaw



- ▲ with grip clamping surface
- ▲ 5.5 mm stroke
- ▲ including support and clamp
- ▲ price per piece

40		35		40				80 888 408	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
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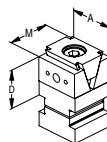
Wedge jaw



- ▲ with a smooth clamping surface
- ▲ 5.5 mm stroke
- ▲ including support and clamp
- ▲ price per piece

40		35		40				80 888 405	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
----	--	----	--	----	--	--	--	------------	-----	---------------	-------	----------	-------	-------	-------	-------	-------

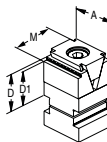
Wedge jaw



- ▲ with a smooth clamping surface and 2 M4 + 1x M6 threaded holes
- ▲ 5.5 mm stroke
- ▲ including support and clamp
- ▲ price per piece

40		35		40				80 888 407	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
----	--	----	--	----	--	--	--	------------	-----	---------------	-------	----------	-------	-------	-------	-------	-------

Wedge grip jaw, 3 mm



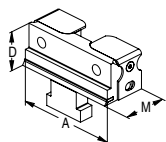
- ▲ including support and clamp
- ▲ price per piece

40		35	32	40				80 888 51000	NEW	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
----	--	----	----	----	--	--	--	--------------	-----	-----	---------------	-------	----------	-------	-------	-------	-------	-------

System jaws overview

Description	for width	A	A ₁	D	D ₁	M	Price	Article No.	Type association
-------------	-----------	---	----------------	---	----------------	---	-------	-------------	------------------

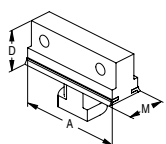
Top jaw with guide



- ▲ for clamping without pull down effect
- ▲ minimum clamping depth of 2.5 mm
- ▲ price per piece

									NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
	40		34,8			39		80 888 406									●
	65		34,8			39		80 888 656									●
	90		34,8			39		80 888 906									●

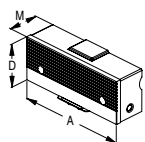
Central jaw for clamping multiples and single piece machining



- ▲ hardened, pivoting
- ▲ for holding various top jaws
- ▲ price per piece

									NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
	65		35			27		80 888 658									●
	90		35			27		80 888 908									●

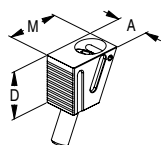
Top jaw with spring



- ▲ One click location
- ▲ for clamping without pull down effect
- ▲ minimum clamping depth of 10 mm
- ▲ price per piece

									NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
	65	66		35,8		26		80 888 607									●
	90	92		35,8		26		80 888 907									●

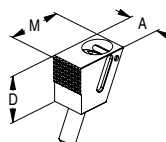
Jaw, narrow profiled



- ▲ price per piece

									NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
	40 / 65 / 90	22		31		35,3		80 888 002									●

Jaw, narrow with pyramid profile



- ▲ price per piece

									NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
	40 / 65 / 90	22		31		36,3		80 888 004									●

System accessories overview

Joint

▲ to connect 2 basic bodies

MSG
2Article no.
80 889 ...

002

Adjustable stop with basic body

▲ for vibration damping

MSG
2

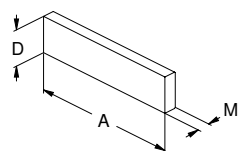
NEW

Article no.
80 888 ...H
mm
16

51100

Cover

▲ stainless steel, cut to size

MSG
2Article no.
80 889 ...

001

A mm	D mm	M mm
440	32	0,7

Support

▲ for vibration damping

MSG
2

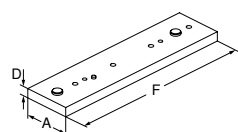
NEW

Article no.
80 888 ...H
mm9 - 25
14 - 3051200
51300

MNG-Adapter plate for MSG 2

Scope of supply:

plate including mounting accessories

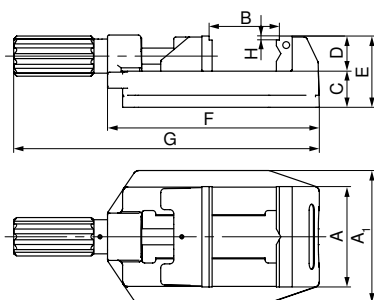
MSG
2Article no.
80 887 ...

for width mm	A mm	D mm	F mm	
65 / 90	100	20	400	400
65 / 90	100	20	500	500
90	100	20	600	600
65 / 90	100	20	650	650

Manual machine vice

- ▲ handy, universal vice with large clamping range
- ▲ stepped jaws with horizontal and vertical 120° prism
- ▲ optional material stop can be used on both sides

HSG

Article no.
80 893 ...

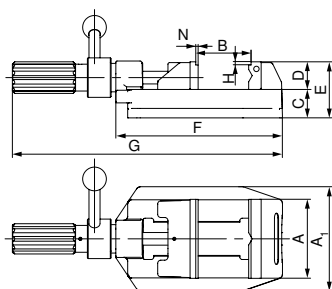
A mm	A ₁ mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	kg
80	112	0 - 81	36	35	71	194	286,5	4	4,5
100	132	0 - 100	36	35	71	211	304,5	4	5,6
125	156	0 - 131	40	40	84	274	386,0	4	11,2

080
100
125

Manual machine vice with clamping aid

- ▲ quick and accurate workpiece clamping using the clamping aid
- ▲ handy, universal vice with large clamping range
- ▲ stepped jaws with horizontal and vertical 120° prism
- ▲ optional material stop can be used on both sides
- ▲ N = Stroke with handle clamping

HSG

Article no.
80 893 ...

A mm	A ₁ mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	N mm	kg
100	132	0 - 100	36	35	71	211	342	4	1,5	6,1
125	156	0 - 133	44	40	84	274	405	4	1,5	11,7

101
126

Vice guide

System accessories

62 General accessories

91-103

System accessories overview

Workpiece stop

- ▲ fixed to the top section, either on the left, the right, or at both ends. The length adjustment can be performed quickly and accurately using a clamping screw.

HSG



for width
mm
80/100/125

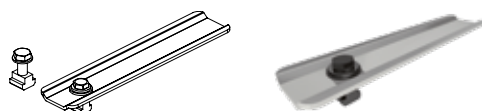
Article no.
80 893 ...

265

Guide rail

- ▲ avoids accidents
- ▲ prevents unwanted movement, lifting and dragging

HSG



for width
mm
80/100/125

Article no.
80 893 ...

260

Clamping set

- ▲ a movable support with an eccentric swivel plate allows any clamping position to be adopted on machine tables with different T-slot arrangements. The inside slot of the vice body provides an additional fixing option, just as with the 80 893 260 guide rail.
- ▲ price per Set

Scope of supply:

2 positioning clamps incl. clamping accessories.

HSG

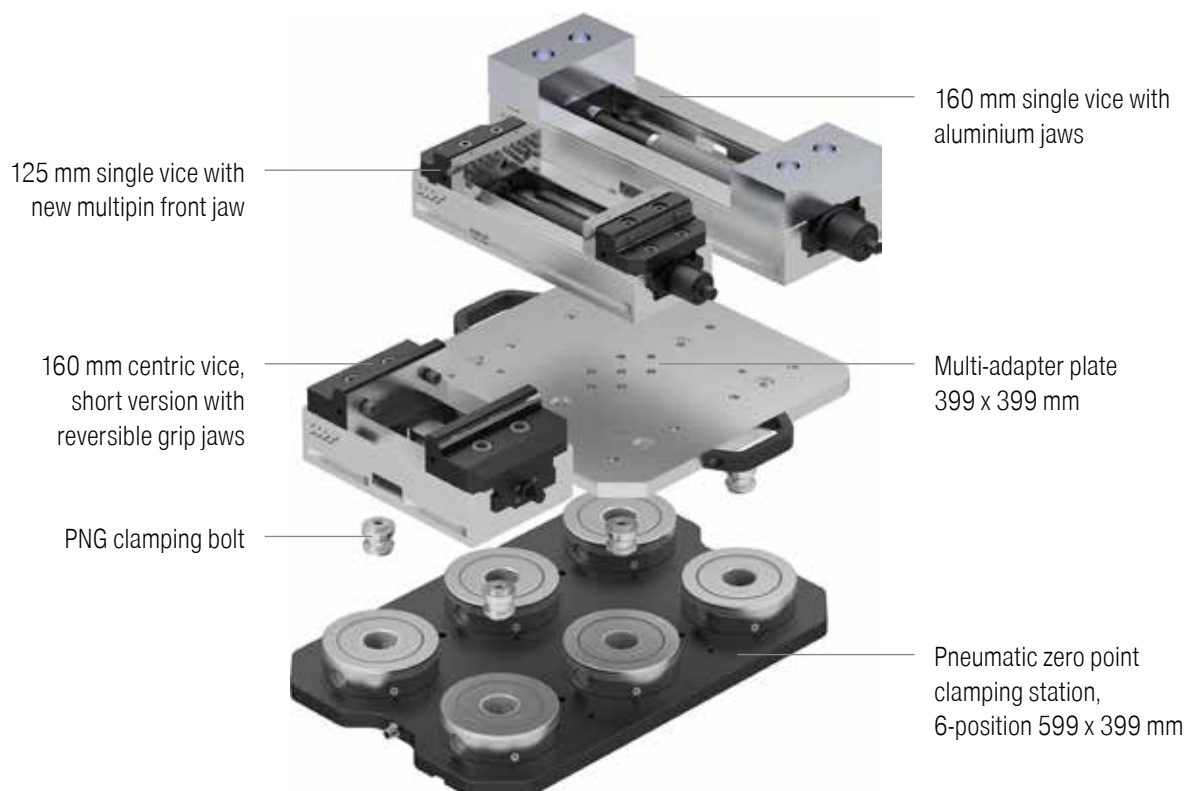


for width mm	for slot width mm
80/100/125	12/14

Article no.
80 893 ...

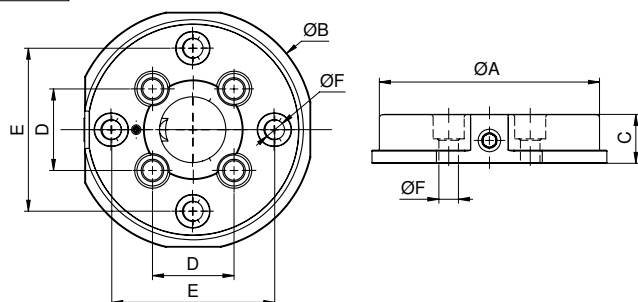
250

Overview of MNG and PNG zero point clamping system



Base plate, round

- ▲ hardened and ground
- ▲ repeatability ≤ 0.01 mm
- ▲ insertion force 20 kN
- ▲ torque 30 Nm

MNG

Article no.
80 899 ...
125

A mm	B mm	C _{±0,005} mm	D mm	E mm	F _{H7} mm	kg
135	148	30	50	100	12	3,5

Vice guide

System accessories

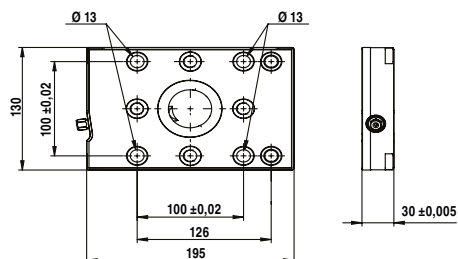
73+74 General accessories

91-103

Base plate, rectangular

- ▲ insertion force 20 kN on the clamping bolt
- ▲ stainless and vacuum-hardened
- ▲ repeatability ≤ 0.01 mm
- ▲ tightening torque 30 Nm

MNG



NEW

Article no.
80 899 ...

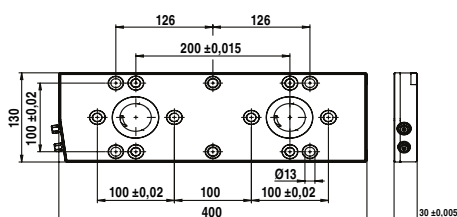
65000

Size mm	kg
195x130	5,2

Base plate, rectangular 2-location

- ▲ insertion force 20 kN on the clamping bolt
- ▲ stainless and vacuum-hardened
- ▲ repeatability ≤ 0.01 mm
- ▲ tightening torque 30 Nm

MNG



NEW

Article no.
80 899 ...

65100

Size mm	kg
400x130	11

Vice guide

System accessories

73+74 General accessories

91-103

- ▲ insertion force 20 kN on the clamping bolt
- ▲ stainless and vacuum-hardened
- ▲ repeatability ≤ 0.01 mm
- ▲ tightening torque 30 Nm

Technical drawing of the front view of a rectangular plate. The overall dimensions are 600 mm in width and 145 mm in height. The drawing includes various dimensions and tolerances for the plate's features:

- Overall width: 600
- Overall height: 145
- Top edge dimensions (from left to right): 100 ± 0.02 , 25, 100 ± 0.02 , 126, 100, 50 ± 0.01 , 0, 50 ± 0.01 , 100 ± 0.015 , 126, 200 ± 0.02 , 252.
- Bottom edge dimensions (from left to right): 252, 200 ± 0.02 , 126, 100, 50 ± 0.01 , 0, 50 ± 0.01 , 100 ± 0.015 , 126, 200 ± 0.02 , 252.
- Left edge dimensions (from top to bottom): 100 ± 0.02 , 25, 100 ± 0.02 , 126, 100, 50 ± 0.01 , 0, 50 ± 0.01 , 100 ± 0.015 , 126, 200 ± 0.02 , 252.
- Right edge dimensions (from top to bottom): 100 ± 0.02 , 25, 100 ± 0.02 , 126, 100, 50 ± 0.01 , 0, 50 ± 0.01 , 100 ± 0.015 , 126, 200 ± 0.02 , 252.
- Top edge dimensions (from left to right): 100 ± 0.02 , 25, 100 ± 0.02 , 126, 100, 50 ± 0.01 , 0, 50 ± 0.01 , 100 ± 0.015 , 126, 200 ± 0.02 , 252.
- Bottom edge dimensions (from left to right): 252, 200 ± 0.02 , 126, 100, 50 ± 0.01 , 0, 50 ± 0.01 , 100 ± 0.015 , 126, 200 ± 0.02 , 252.
- Left edge dimensions (from top to bottom): 100 ± 0.02 , 25, 100 ± 0.02 , 126, 100, 50 ± 0.01 , 0, 50 ± 0.01 , 100 ± 0.015 , 126, 200 ± 0.02 , 252.
- Right edge dimensions (from top to bottom): 100 ± 0.02 , 25, 100 ± 0.02 , 126, 100, 50 ± 0.01 , 0, 50 ± 0.01 , 100 ± 0.015 , 126, 200 ± 0.02 , 252.
- Top edge dimensions (from left to right): 100 ± 0.02 , 25, 100 ± 0.02 , 126, 100, 50 ± 0.01 , 0, 50 ± 0.01 , 100 ± 0.015 , 126, 200 ± 0.02 , 252.
- Bottom edge dimensions (from left to right): 252, 200 ± 0.02 , 126, 100, 50 ± 0.01 , 0, 50 ± 0.01 , 100 ± 0.015 , 126, 200 ± 0.02 , 252.
- Left edge dimensions (from top to bottom): 100 ± 0.02 , 25, 100 ± 0.02 , 126, 100, 50 ± 0.01 , 0, 50 ± 0.01 , 100 ± 0.015 , 126, 200 ± 0.02 , 252.
- Right edge dimensions (from top to bottom): 100 ± 0.02 , 25, 100 ± 0.02 , 126, 100, 50 ± 0.01 , 0, 50 ± 0.01 , 100 ± 0.015 , 126, 200 ± 0.02 , 252.
- Top edge dimensions (from left to right): 100 ± 0.02 , 25, 100 ± 0.02 , 126, 100, 50 ± 0.01 , 0, 50 ± 0.01 , 100 ± 0.015 , 126, 200 ± 0.02 , 252.
- Bottom edge dimensions (from left to right): 252, 200 ± 0.02 , 126, 100, 50 ± 0.01 , 0, 50 ± 0.01 , 100 ± 0.015 , 126, 200 ± 0.02 , 252.
- Left edge dimensions (from top to bottom): 100 ± 0.02 , 25, 100 ± 0.02 , 126, 100, 50 ± 0.01 , 0, 50 ± 0.01 , 100 ± 0.015 , 126, 200 ± 0.02 , 252.
- Right edge dimensions (from top to bottom): 100 ± 0.02 , 25, 100 ± 0.02 , 126, 100, 50 ± 0.01 , 0, 50 ± 0.01 , 100 ± 0.015 , 126, 200 ± 0.02 , 252.



NEW
Article no.
80 899 ...

65200

- ▲ clamping force 20 kN on each location bolt
- ▲ 4 x M12 mounting holes for T-slot nuts 50 mm spread
- ▲ 8 x dowel bushes Ø12 F7 / M12
- ▲ 4 x dowel holes Ø18 H7 for positioning

Technical drawing of the front and side views of a 12-channel terminal block. The front view shows a rectangular block with 12 circular terminals arranged in two rows of six. Dimensions include a total width of 190mm, a total height of 270mm, and a mounting hole diameter of Ø12 H7. The side view shows the profile of the block with a height of 30 ± 0.005mm.

Article no.
80 899 ...

230

System accessories

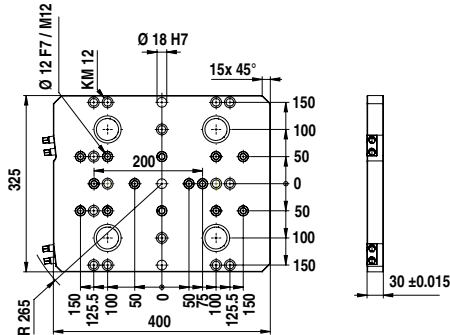
73+74 General accessories

91-103

4 location base plate, 325 x 400 mm

- ▲ stainless and vacuum-hardened
- ▲ insertion force 20 kN on the clamping bolt
- ▲ 15 x mounting holes for M12, for T-slot spacing 50, 63, 100, 125 mm
- ▲ 14 x grid bushes Ø12 F7 / M12
- ▲ 3 x mating holes Ø18 H7 for positioning

MNG



NEW

Article no.
80 899 ...63000¹⁾

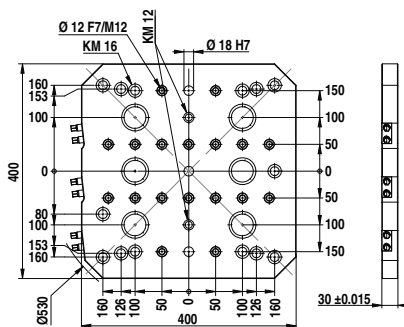
Size mm	kg
325x400	27

1) Not ex-stock

6 location base plate, 400 x 400 mm

- ▲ stainless and vacuum-hardened
- ▲ insertion force 20 kN on the clamping bolt
- ▲ 14 x mounting holes for M16, for T-slot spacing 63, 80, 100, 125 mm
- ▲ 2 x mounting holes for M12
- ▲ 18 x bushings Ø12 F7 / M12
- ▲ 3 x fitting holes Ø18 H7 for positioning

MNG



NEW

Article no.
80 899 ...63100¹⁾

Size mm	kg
400x400	31

1) Not ex-stock

Vice guide

System accessories

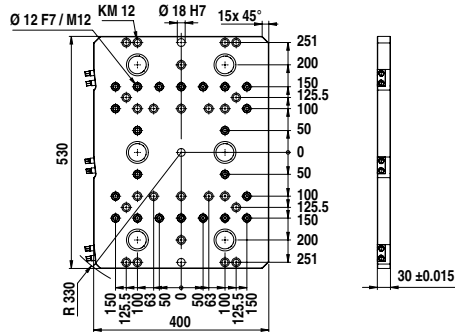
73+74 General accessories

91-103

6 location base plate, 400 x 530 mm

- ▲ stainless and vacuum-hardened
- ▲ insertion force 20 kN on the clamping bolt
- ▲ 24 x mounting holes for M12, for T-slot spacing 50, 63, 100, 125 mm
- ▲ 22 x bushings Ø12 F7 / M12
- ▲ 3 x mating holes Ø18 H7 for positioning

MNG



NEW

Article no.
80 899 ...63200¹⁾

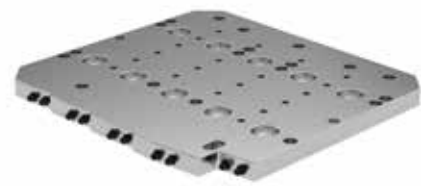
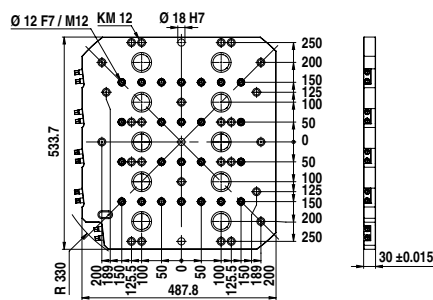
Size mm	kg
400x530	44

1) Not ex-stock

10 location base plate, 488 x 534 mm

- ▲ stainless and vacuum-hardened
- ▲ insertion force 20 kN on the clamping bolt
- ▲ 27 x mounting holes M12 for T-slot spacing 50, 63, 100, 125 mm and star slots 45°
- ▲ 24 x bushings Ø12 F7 / M12
- ▲ 3 x mating holes Ø18 H7 for positioning

MNG



NEW

Article no.
80 899 ...63300¹⁾

Size mm	kg
488x534	51

1) Not ex-stock

Vice guide

System accessories

73+74 General accessories

91-103

Alignment Pin

MNG



D_1 n6 mm	D_2 h6 mm	Article no. 80 899 ...
18	14	607
18	18	608
18	20	609
18	22	610

Centering Pin

MNG



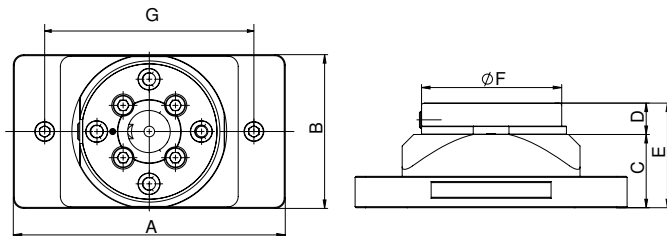
D_1 n6 mm	D_2 h6 mm	Article no. 80 899 ...
18	30	602
18	32	603
18	50	604

Console with zero point clamping module

- ▲ universal application on all machine tables
- ▲ clamping force 20 kN

Scope of supply:

plate incl. MNG round clamping module



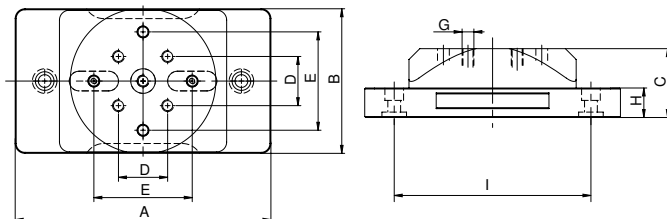
Article no.
80 899 ...

425

A mm	B mm	C mm	D mm	E mm	F mm	G mm	kg
260	147	70	30	100	135	200	8,9

Console

- ▲ universal application on all machine tables
- ▲ material: Aluminum, hard anodized



Article no.
80 899 ...

420

A mm	B mm	C mm	D mm	E _{±0,02} mm	G	H mm	I mm	kg
260	147	70	50	100	M12	30	200	5,5

Vice guide

System accessories

73+74 General accessories

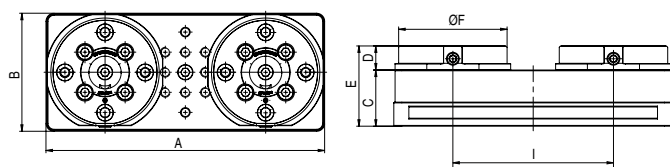
91-103

Double console with zero point clamping module

- ▲ universally applicable on all machine tables
- ▲ material: Aluminium Hard Anodised

Scope of supply:

console including MNG round clamping module



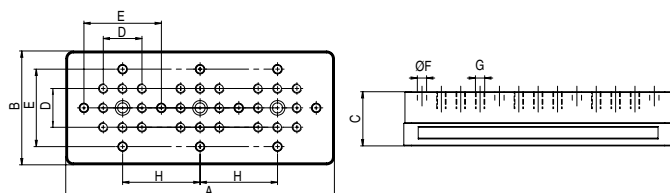
A mm	B mm	C mm	D mm	E mm	F mm	I mm	kg
347	147	70	30	100	135	200	16,5

Article no.
80 899 ...

435

Double console

- ▲ universally applicable on all machine tables
- ▲ material: Aluminium Hard Anodised



A mm	B mm	C mm	D mm	E _{±0,02} mm	F mm	G	H mm	kg
347	147	70	50	100	12	M12	100	9,3

Article no.
80 899 ...

430

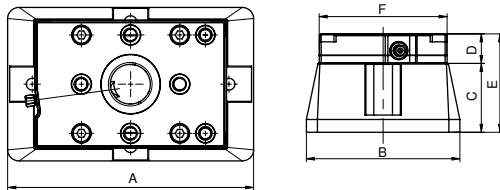
Vice guide

System accessories

73+74 General accessories

91-103

Console with zero point clamping module



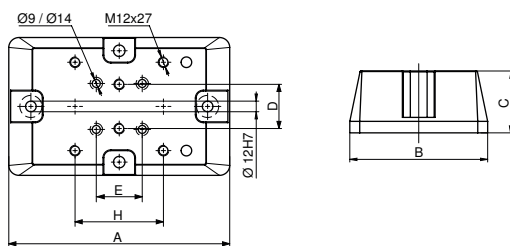
NEW

Article no.
80 878 ...

54000

A	B	C	D	E	F
mm	mm	mm	mm	mm	mm
250	156	70	30	100	130

Console



NEW

Article no.
80 878 ...

54100

A	B	C	D	E	H
mm	mm	mm	mm	mm	mm
250	156	70	50	52	100

Assembly set for console



NEW

Article no.
80 878 ...

54200

For type

ZSG-4.80.L130-L190

Vice guide

System accessories

73+74 General accessories

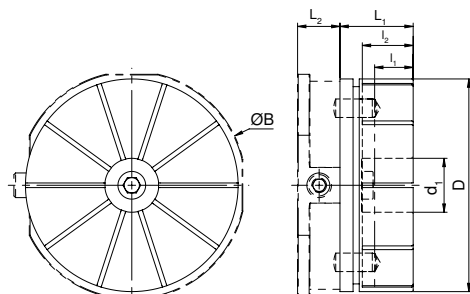
91-103

Aluminum form chuck for MNG

- ▲ for incorporation of forms for 2nd op machining
- ▲ l_1 maximum application depth

Scope of supply:

Collet with positioning pins, without locating bolts



Article no.
80 899 ...

500

B mm	D mm	d mm	l ₁ mm	l ₂ mm	L ₁ mm	L ₂ mm
148	138	35	22	33	47,5	27,5

Available on request



Machineable Alu chuck to suit
round MNG



Machineable Alu chuck to suit
round MNG with clamped workpiece



Grid plate



Blank plate

i The maximum cutting depth l_1 is 22 mm

Adjustable ring for MNG form collet

MNG



Article no.
80 899 ...

510

Vice guide

System accessories

73+74 General accessories

91-103

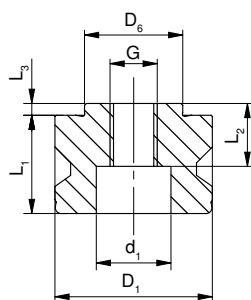
MNG pull studs

▲ centering stud Ø 25 H7

Scope of supply:

without mounting screws

MNG



Article no.
80 899 ...

025

D ₆ mm	D ₁ mm	L ₁ mm	L ₂ mm	L ₃ mm	d ₁ mm	G
25	40	27	17	3	19	M12

Bungs

MNG



Article no.
80 899 ...

D₁
mm
40

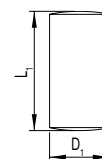
040

MNG Dowel Set

▲ for ESG mini 4V tower and direct workpiece clamping

▲ price per 2 Pieces

MNG



Article no.
80 899 ...

120

D ₁ h6 mm	L ₁ mm
12	24

Sealing plug with O-ring

MNG



Article no.
80 899 ...

G
M12

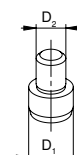
126

MNG positioning pin set

▲ for ESG mini and direct workpiece clamping

▲ price per 2 Pieces

MNG



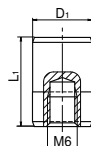
Article no.
80 899 ...

128

for width mm	D ₁ mm	D ₂ mm
65	12	8

MNG indexing bolt

MNG



NEW
Article no.
80 899 ...

D ₁ mm	L ₁ mm	
12	18	51500

Clamping Screw Set for T-slot for MNG

▲ price for 2 pieces

MNG



NEW
Article no.
80 899 ...

for width mm	G	
12	M8	63800
12	M10	63400
14	M8	63900
14	M12	63500
15	M12	63700
16	M8	64000
16	M12	63600
18	M8	64100

Clamping set for 14 mm T-slot

▲ T-nuts are modified for 63 mm slot pitch

▲ price per 2 Pieces

MNG



Article no.
80 899 ...

for width mm	Slot spacing mm	
14	63	614

Alignment/centering set for T-slots

Scope of supply:

1 Terminal block, 2 T-nuts, 2 screws, 2 washers for width 12 mm, without clamping strip!

MNG



Article no.
80 899 ...

G mm	for width mm	
50	12	012 ¹⁾
50	14	014
50	16	016
50	18	018
100	12	81200
100	14	81400
100	16	81600
100	18	81800

1) For 12mm width excluding clamping strip

Round claw

▲ for MNG clamping system

▲ price includes 2 pieces

MNG



Article no.
80 899 ...

300

Replacement clamping unit

▲ 3-Piece Set

MNG



Article no.
80 899 ...

Type	
MNG rund	026

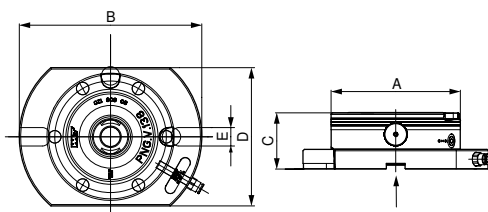
1-position clamping station

- ▲ clamping force 7.5 kN
- ▲ repeatability 0.005 mm
- ▲ unlocking pressure 6 bar
- ▲ 8 mm pneumatic connection

Scope of supply:

including 2 clamps, without indexing bolts

PNG



Article no.
80 809 ...

010

A mm	B mm	C _{±0,005} mm	D mm	E _{H5} mm	kg
138	198	60	150	20	6,9

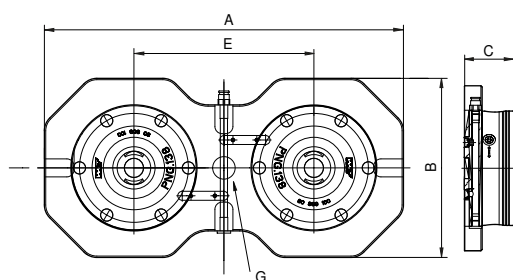
2-position clamping station, 399 x 199 mm

- ▲ clamping force 7.5 kN
- ▲ repeatability 0.005 mm
- ▲ unlocking pressure 6 bar
- ▲ 8 mm pneumatic connection

Scope of supply:

including 4 clamps

PNG



Article no.
80 809 ...

020

A mm	B mm	C mm	E mm	G _{H7} mm	kg
399	199	60	200	25	16,5

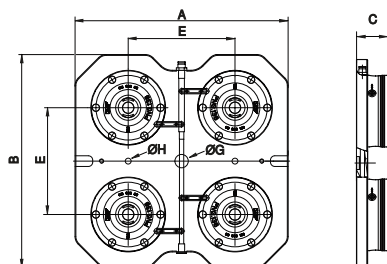
4-position clamping station, 399 x 399 mm

- ▲ clamping force 7.5 kN
- ▲ repeatability 0.005 mm
- ▲ unlocking pressure 6 bar
- ▲ 8 mm pneumatic connection

Scope of supply:

including 4 clamps

PNG



Article no.
80 809 ...

040

A mm	B mm	C mm	E mm	G _{H7} mm	H mm	kg
399	399	60	200	25	11	34,8

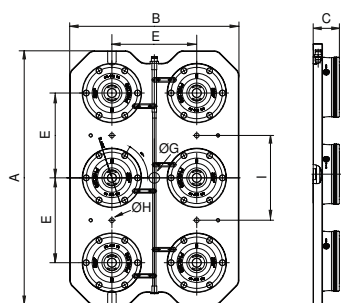
6-position clamping station, 599 x 399 mm

- ▲ clamping force 7.5 kN
- ▲ repeatability 0.005 mm
- ▲ unlocking pressure 6 bar
- ▲ 8 mm pneumatic connection

Scope of supply:

including 6 clamps

PNG



Article no.
80 809 ...

060

A mm	B mm	C mm	E mm	G _{H7} mm	H mm	I mm	kg
599	399	60	200	25	11	200	53

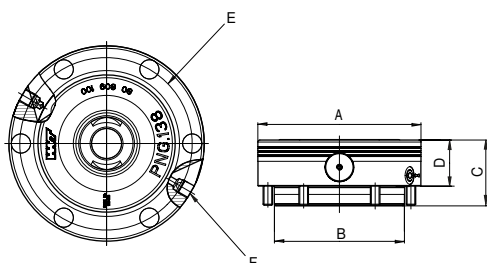
Zero point clamping module PNG.SM.138

- ▲ clamping force 7.5 kN
- ▲ clamping force with Power function 25 kN
- ▲ repeatability 0.005 mm
- ▲ unlocking pressure 6 bar

Scope of supply:

including Ø 9x15 O rings, M8 fixing screws

PNG



Article no.
80 809 ...

100

A	B	C	D	E	F	
mm	mm	mm	mm	mm	inch	kg
138	110	56	39	121	1/8	4,4

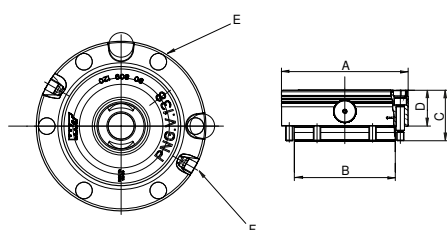
Zero point clamping module PNG.SM.V.138

- ▲ clamping module with anti-rotation lock
- ▲ clamping force 7.5 kN
- ▲ clamping force with Power function 25 kN
- ▲ repeatability 0.005 mm
- ▲ unlocking pressure 6 bar

Scope of supply:

including Ø 9x15 O rings, M8 fixing screws

PNG



Article no.
80 809 ...

120

A	B	C	D	E	F	
mm	mm	mm	mm	mm	inch	kg
138	110	56	39	121	1/8	4,4

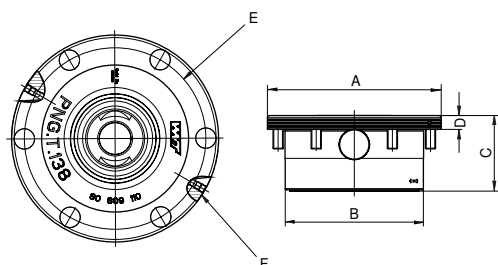
Zero point clamping system PNG.SM.T.138

- ▲ clamping force 6 kN
- ▲ clamping force with Power function 20 kN
- ▲ repeatability 0.005 mm
- ▲ unlocking pressure 6 bar

Scope of supply:

including Ø 9x15 O rings, M8 fixing screws

PNG



Article no.
80 809 ...

110

A mm	B mm	C mm	D mm	E mm	F inch	kg
138	110	60	11	121	1/8	3,7

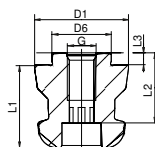
PNG clamping bolt

- ▲ three bolt types – ZB (centring bolt), PB (positioning bolt), HB (clamping bolt)
- ▲ precision location bolts ensuring accuracy and repeatability
- ▲ clamping force 50 kN

Scope of supply:

incl. M12 fixing screw

PNG

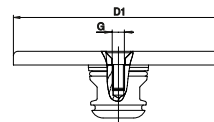


Article no.
80 809 ...

Type	D ₆ H6 mm	D ₁ mm	L ₁ mm	L ₂ mm	L ₃ mm	G	Article no. 80 809 ...
ZB	25	40	35	27	5	M12	070
PB	25	40	35	27	5	M12	071
HB	25	40	35	27	5	M12	072

PNG protective cover

PNG



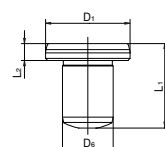
Article no.
80 809 ...

074

D ₁ mm	G
138	M8

PNG indexing bolt

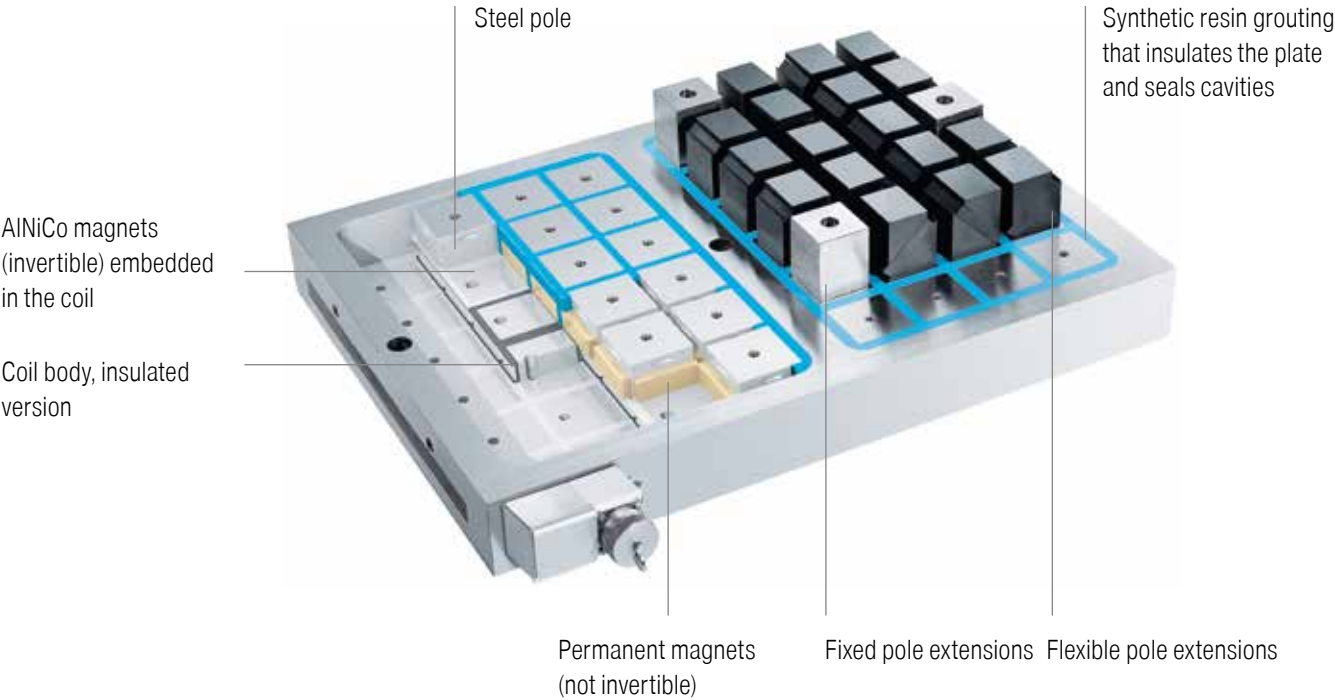
PNG



Article no.
80 809 ...

D ₁ h5 mm	L ₁ mm	L ₂ mm	D ₆ m6 mm	Article no. 80 809 ...
20	20	4	12	073

Magnetic clamping technology overview



Magnetic chuck set 1, 315 x 315 mm

Scope of supply:
magnetic chuck MST-P 315 x 315 mm
MST-SEH control unit
fixed pole extensions x 3, height 54 mm
movable pole extensions x 9
fixing screws



Size mm	Number of poles	Clamping force kN	Article no. 80 808 ...
315x315	16	62,8	010

i Maximum clamping force specified covers all poles

Magnetic chuck set 2, 430 x 315 mm

Scope of supply:

magnetic chuck MST-P 430 x 315 mm
MST-SEH control unit
fixed pole extensions x 3, height 54 mm
movable pole extensions x 12
fixing screws



Size mm	Number of poles	Clamping force kN	Article no. 80 808 ...
430x315	24	94,2	020

i Maximum clamping force specified covers all poles

Magnetic chuck set 3, 430 x 430 mm

Scope of supply:

magnetic chuck MST-P 430 x 430 mm
MST-SEH control unit
fixed pole extensions x 3, height 54 mm
movable pole extensions x 15
fixing screws



The magnetic chuck shown is for illustration purposes only

Size mm	Number of poles	Clamping force kN	Article no. 80 808 ...
430x430	36	141,3	030

i Maximum clamping force specified covers all poles

Magnetic chuck set 4, 600 x 430 mm

Scope of supply:

magnetic chuck MST-P 600x430 mm
MST-SEH control unit
fixed pole extensions x 3, height 54 mm
movable pole extensions x 27
fixing screws

MST



The magnetic chuck shown is for illustration purposes only

Article no.
80 808 ...

040

Size mm	Number of poles	Clamping force kN
600x430	48	188,4

i Maximum clamping force specified covers all poles

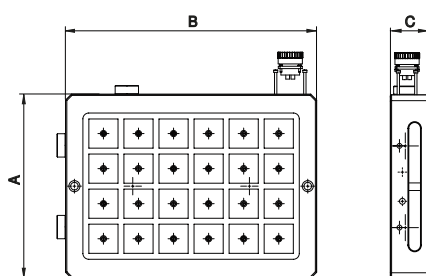
MST-P magnetic chucks

- ▲ minimum workpiece material thickness 10 mm
- ▲ minimum workpiece dimensions 100 x 100 mm

Scope of supply:

including fixing screws

MST



Article no.
80 808 ...

011
021
031
041
051

Size mm	A mm	B mm	C mm	kg	Number of poles	Clamping force kN
315X315	315	315	66	50	16	62,8
430X315	430	315	66	65	24	94,2
430x430	430	430	66	85	36	141,3
600x430	600	430	66	120	48	188,4
800x600	800	600	66	220	80	314,0

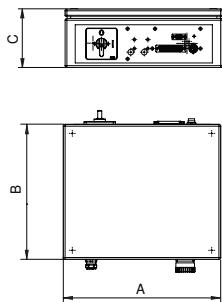
i Maximum clamping force specified covers all poles

MST-SEH control unit

▲ suitable for all MST chucks

Scope of supply:

control unit including control element and electrical cables



A mm	B mm	C mm	Frequency Hz	Voltage V
300	300	120	50	380

Article no.
80 808 ...

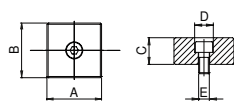
100

Fixed pole extensions

▲ price per piece

Scope of supply:

including fixing screw



Article no.
80 808 ...

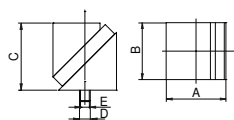
C	A	B	D	E	
mm	mm	mm	mm	mm	
20	45,0	45,0	15	9	110
54	45,0	45,0	15	9	115

Movable pole extensions

▲ price per piece

Scope of supply:

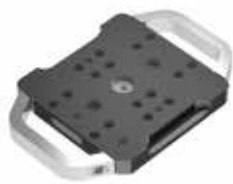
including fixing screw



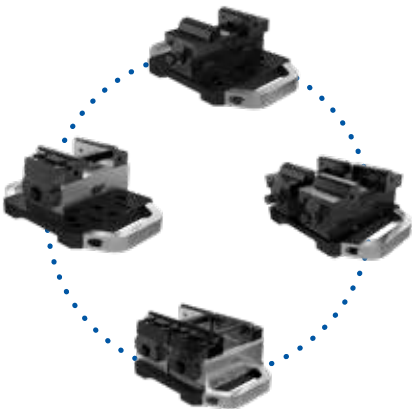
Article no.
80 808 ...

A	B	C	D	E	
mm	mm	mm	mm	mm	
47,2	45,0	54	15	9	116

Overview of multi-adapter pallets



Multi-adapter pallet 159 x 159 mm



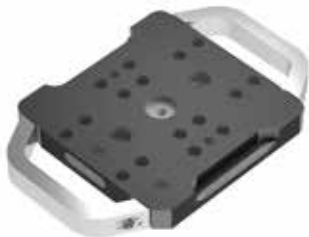
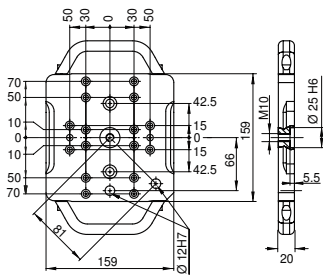
Application examples

Multi-adapter pallet 159 x 159 mm

▲ multi-adapter pallet for mounting PNG and MNG

Scope of supply:

incl. clamping bolts and screws
without pull studs



Size mm	kg
159x159	4

Article no.
80 809 ...

500

Mounting set – multi-adapter pallet 159 x 159 mm

▲ price per set



For type
ZSG-3.40
ZSG-3.65
ZSG-4.80

Article no.
80 878 ...

Article no.
80 884 ...

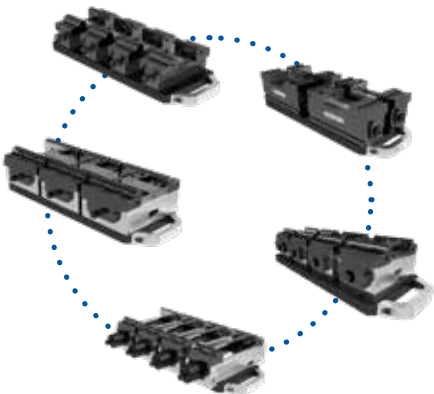
503

500
501

Overview of multi-adapter pallets



Multi-adapter pallet 399 x 159 mm



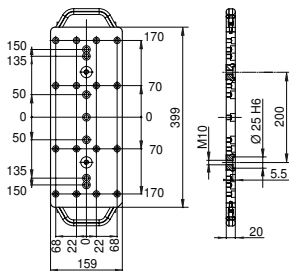
Application examples

Multi-adapter pallet 399 x 159 mm

▲ multi-adapter pallet for mounting PNG and MNG

Scope of supply:

incl. clamping bolts and screws
without pull studs



Size mm	kg
399x159	10

Article no.
80 809 ...

501

Mounting set – multi-adapter pallet 399 x 159 mm

▲ price per set



For type
ESGMINI.65
ZSG-3.65/ZSG-4.80/125L160/ESG-4.80

Article no.
80 897 ...

500

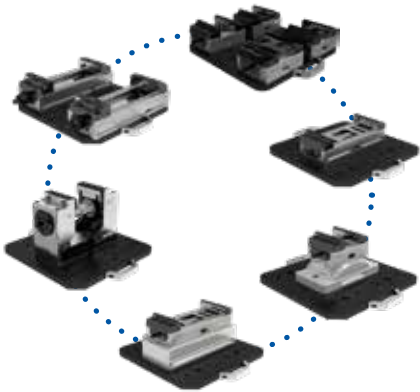
Article no.
80 884 ...

503

Overview of multi-adapter pallets



Multi-adapter pallet 399 x 399 mm



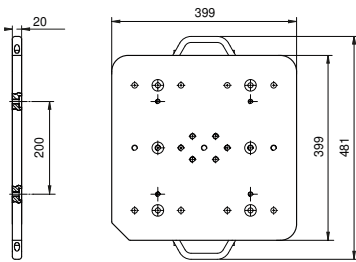
Application examples

Multi-adapter pallet 399 x 399 mm

▲ multi-adapter pallet for mounting PNG and MNG

Scope of supply:

incl. clamping bolts and screws
without pull studs



Size mm	kg
399x399	25

Article no.
80 809 ...

502

Mounting set – multi-adapter pallet 399 x 399 mm

▲ price per set



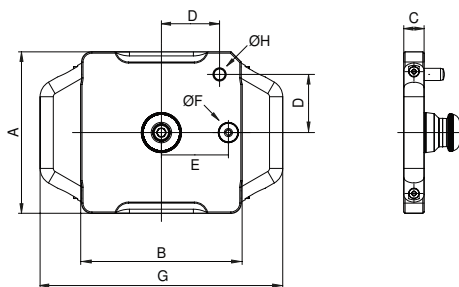
For type	Article no. 80 901 ...	Article no. 80 898 ...	Article no. 80 878 ...
ESG4.125	500		
H5G.125		500	
ZSG-4.125.L160			500
ZSG-4.125.L160.K			502
ZSG-4.125.L300			501
ZSG-4.125.L300-DK			504

Steel clamping pallet, 159 x 159 mm

- ▲ clamping pallet for mounting PNG
- ▲ without hole pattern

Scope of supply:

unmachined clamping pallet, PNG clamping bolt and positioning pin



Size mm	A mm	B mm	C mm	D mm	E mm	F _{H5} mm	G mm	H _{m6} mm	kg
159x159	159	159	20	58	66	20	239	12	4,2

Article no.
80 809 ...

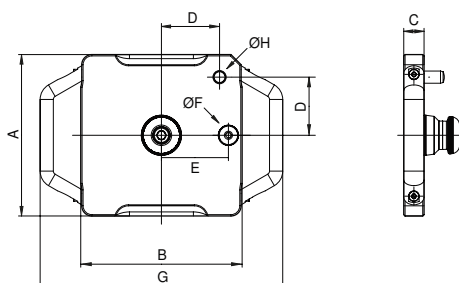
080

Aluminium clamping pallet, 159 x 159 mm

- ▲ clamping pallet for mounting PNG
- ▲ without hole pattern

Scope of supply:

unmachined clamping pallet, PNG clamping bolt and positioning pin



Size mm	A mm	B mm	C mm	D mm	E mm	F _{H5} mm	G mm	H _{m6} mm	kg
159x159	159	159	25	58	66	20	239	12	2,2

Article no.
80 809 ...

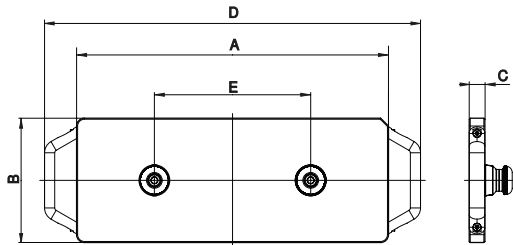
081

Steel clamping pallet, 399 x 159 mm

- ▲ clamping pallet for mounting PNG and MNG
- ▲ without hole pattern

Scope of supply:

unmachined clamping pallet, PNG clamping bolt and positioning pin



Size mm	A mm	B mm	C mm	D mm	E mm	kg
399x159	399	159	20	481	200	10,6

Article no.
80 809 ...

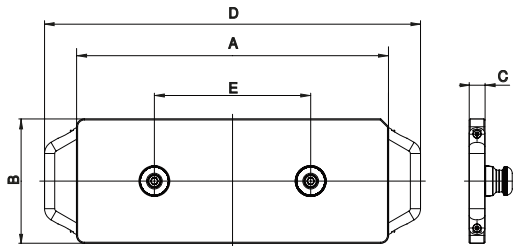
082

Aluminium clamping pallet, 399 x 159 mm

- ▲ clamping pallet for mounting PNG and MNG
- ▲ without hole pattern

Scope of supply:

unmachined clamping pallet, PNG clamping bolt and positioning pin



Size mm	A mm	B mm	C mm	D mm	E mm	kg
399x159	399	159	25	481	200	5,1

Article no.
80 809 ...

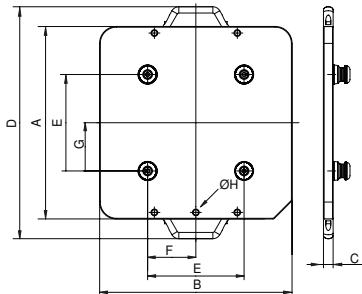
083

Steel clamping pallet, 399 x 399 mm

- ▲ clamping pallet for mounting PNG and MNG
- ▲ without hole pattern

Scope of supply:

unmachined clamping pallet, PNG clamping bolt and positioning pin



Size mm	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H	kg
399x399	399	399	20	481	200	100	100	M10	28

Article no.
80 809 ...

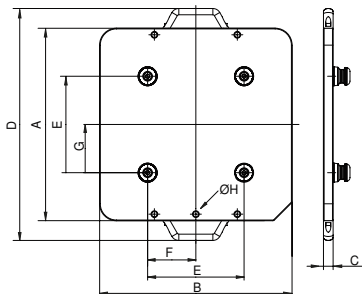
084

Aluminium clamping pallet, 399 x 399 mm

- ▲ clamping pallet for mounting PNG and MNG
- ▲ without hole pattern

Scope of supply:

unmachined clamping pallet, PNG clamping bolt and positioning pin



Size mm	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H	kg
399x399	399	399	25	481	200	100	100	M10	12

Article no.
80 809 ...

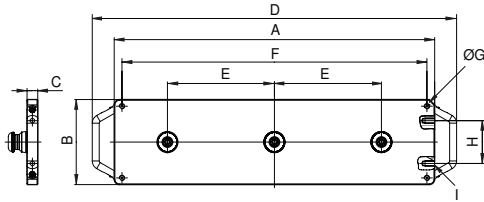
085

Steel clamping pallet, 599 x 159 mm

- ▲ clamping pallet for mounting PNG and MNG
- ▲ without hole pattern

Scope of supply:

unmachined clamping pallet, PNG clamping bolt and positioning pin



Size mm	A mm	B mm	C mm	D mm	E mm	F mm	G	H mm	I mm	kg
599x159	599	159	20	681	200	570	M10	80	M10	15,6

Article no.
80 809 ...

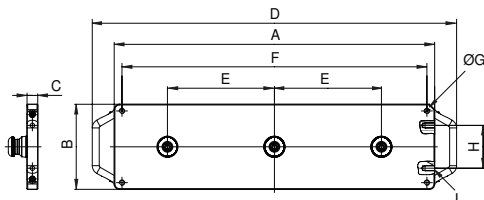
086

Aluminium clamping pallet, 599 x 159 mm

- ▲ clamping pallet for mounting PNG and MNG
- ▲ without hole pattern

Scope of supply:

unmachined clamping pallet, PNG clamping bolt and positioning pin



Size mm	A mm	B mm	C mm	D mm	E mm	F mm	G	H mm	I mm	kg
599x159	599	159	25	681	200	570	M10	80	M10	7,4

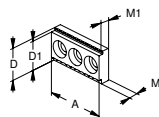
Article no.
80 809 ...

087

General top jaws overview

Description	A	D	D ₁	M	M ₁	Price	Article No.	Type association
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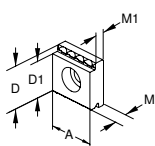
Grip stepped jaw, reversible



- ▲ for vertical and horizontal application
- ▲ price per piece

40	22	20	8	5,5		80 895 320	NCG HSG / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2 HSG
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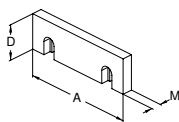
Grip jaw, indexable



- ▲ for vertical and horizontal application
- ▲ 3 point clamping
- ▲ price per piece

22	22	19	8	5,5		80 895 335	NCG HSG / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2 HSG
35	35	32	10,5	8		80 895 345	NCG HSG / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2 HSG

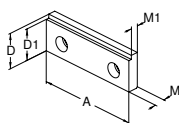
Smooth jaw



- ▲ price per piece

100	35		10			80 892 20400	NCG HSG / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2 HSG
125	40		11,5			80 892 20500	NCG HSG / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2 HSG
160	50		13,5			80 892 20600	NCG HSG / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2 HSG

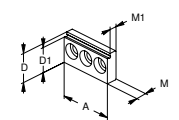
Stepped jaw, smooth



- ▲ price per piece

71,6	35	31	10,2	7,2		80 893 081	NCG HSG / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2 HSG
80	35	31	10,2	7,2		80 893 082	NCG HSG / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2 HSG
100	35	31	10,2	7,2		80 893 102	NCG HSG / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2 HSG
125	40	36	11,8	8,8		80 893 127	NCG HSG / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2 HSG

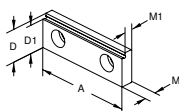
Stepped jaw, smooth



- ▲ can be used as smooth jaw or stepped jaw horizontally or vertically
- ▲ hardened and ground jaws
- ▲ price per piece

40	22	19	8	5,5		80 895 318	NCG HSG / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2 HSG
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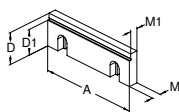
Stepped jaw, 5 mm



- ▲ price per piece

80	28	23	10	7,5		80 878 830	NCG HSG / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2 HSG
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Stepped jaw, coated 5 mm



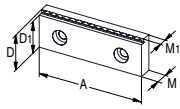
- ▲ price per piece

125	40	35	11,5	9,5		80 892 250	NCG HSG / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2 HSG
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General top jaws overview

Description	Illustration	A	D	D ₁	M	M ₁	Price	Article No.	Type association
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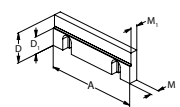
Stepped jaw, grip, 3 mm



▲ price per piece

									NCG HSG / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2 HSG
	80	28	25	10	7			80 906 30900	●

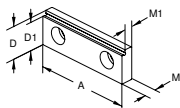
Stepped jaw, 17 mm



▲ price per piece

									NCG HSG / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2 HSG
	125	40	23	11,5	9,5			80 892 244	●

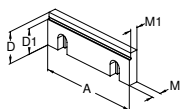
Stepped jaw, smooth



▲ can be used as smooth or stepped jaw
▲ jaw hardened and ground
▲ price per piece

									NCG HSG / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2 HSG
	65	22	19	8	5,5			80 895 332	●

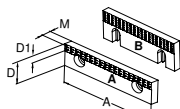
Stepped jaw, smooth



▲ price per piece

									NCG HSG / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2 HSG
	100	35	30	10	7,5			80 892 21400	●
	125	40	32	11,5	9,5			80 892 21500	●
	160	50	42	13,5	10,5			80 892 21600	●

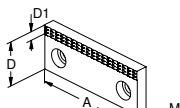
Jaw, grip



▲ price per piece

									NCG HSG / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2 HSG
A	40	22	7	7,8				80 892 279	●
A	65	22	7	7,8				80 892 280	●
A	90	22	7	7,8				80 892 284	●
B	100	35	12	10				80 892 21700	●
B	125	40	14,5	11,5				80 892 21800	●
B	160	50	14,5	13,5				80 892 21900	●

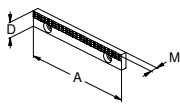
Jaw, grip



▲ price per piece

									NCG HSG / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2 HSG
	40	35	7	10				80 889 406	●
	65	35	7	10				80 889 656	●
	90	35	7	10				80 889 906	●

Top jaw, grip



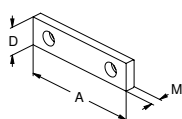
▲ price per piece

									NCG HSG / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2 HSG
	125	18		7,8				80 898 253	●

General top jaws overview

Description	A	D	D ₁	D ₂	M	M ₁	Price	Article No.	Type association
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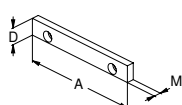
Ground top jaw



▲ price per piece

									NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
40	22				7,7			80 889 401				●			●		●	
40	35				10			80 889 405									●	
65	22				7,7			80 889 651				●					●	
65	35				10			80 889 655									●	
90	22				7,7			80 889 901									●	
90	35				10			80 889 905									●	

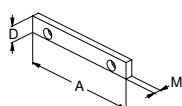
Ground top jaw



▲ price per piece

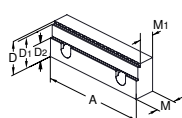
									NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
125	18				7,6			80 898 251	●	●						●		

Top jaw, carbide coated

▲ with carbide coating
▲ Price per piece

									NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
125	18				7,6			80 898 254	●	●						●		

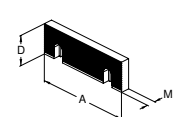
Stepped jaw, 18 mm with 3 mm grip step



▲ price per piece

									NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
125	40	37	22	24	19			80 907 302	●	●	●		●	●	●	●		●

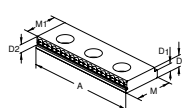
Jaw, profiled



▲ price per piece

									NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
100	35				10			80 892 20700	●			●	●					●
125	40				11,5			80 892 20800	●			●	●			●		●
160	50				13,5			80 892 20900	●			●	●					●

Grip jaw, indexable

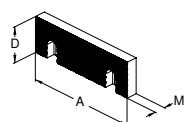
▲ for vertical and horizontal application
▲ price per piece

									NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
100	10,5	8	5	35	32			80 895 343	●			●	●					●
65	8	5,5	5	22	19			80 895 340	●			●	●				●	

General top jaws overview

Description	A	D	D ₁	M	M ₁	Price	Article No.	Type association
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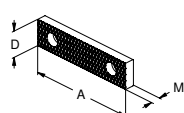
Jaw, cut



▲ price per piece

								NCG	HSG / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
100	35		11				80 892 20100	●			●	●					●
125	40		12,5				80 892 20200	●		●		●	●		●		●
160	50		14,5				80 892 20300	●		●		●	●				

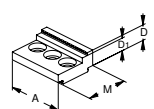
Jaw, cut



▲ price per piece

								NCG	HSG / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
40	22		8				80 889 404				●			●		●	
40	35		11				80 889 408									●	
65	22		8				80 889 654				●			●		●	
65	35		11				80 889 658									●	
90	22		8				80 889 904									●	
90	35		11				80 889 908									●	

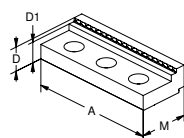
Jaw, grip, VS



▲ increased clamping range for clamping of unmachined parts
▲ price per piece

								NCG	HSG / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
40	14	9	30				80 895 334				●						

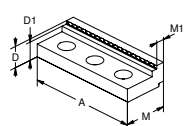
Jaw, grip, VS



▲ price per piece

								NCG	HSG / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
125	22	17	45				80 892 245						●				

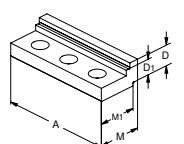
Jaw, grip, VS



▲ increased clamping range for clamping of blanks
▲ price per piece

								NCG	HSG / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
65	11,5	8,5	27	8,5			80 895 336				●						
100	20	17	40	8,5			80 895 346				●						

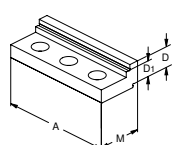
Jaw, smooth VS, carbide coated



▲ increased clamping range for finish machining and 2nd operation
▲ price per piece

								NCG	HSG / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
65	16,7	11,7	32	27			80 895 347				●						
100	19	14	40	35			80 895 349				●						

Jaw, smooth VS, carbide coated



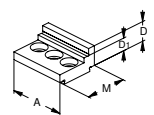
▲ increased clamping range for finish machining and 2nd operation
▲ price per piece

								NCG	HSG / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
125	19	14	45				80 892 240						●				

General top jaws overview

Description	Clamping Ø	A	D	D ₁	M	M ₁	Price	Article No.	Type association
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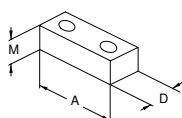
Jaw, smooth VS, carbide coated



- ▲ increased clamping range for finishing and 2 sided
- ▲ price per piece

									NCG	HSG / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
	40	14	9	30				80 895 341				●						

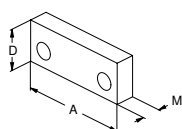
Jaw, soft



- ▲ only for vertical application
- ▲ price per piece

									NCG	HSG / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
	40	22		20				80 895 244										
	65	22		20				80 895 245	●	●	●	●		●	●	●	●	
	90	22		20				80 895 246									●	

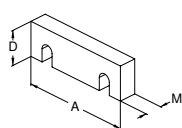
Jaw, soft



- ▲ price per piece

									NCG	HSG / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
	40	35		16				80 889 407									●	
	65	35		16				80 889 657									●	
	90	35		16				80 889 907									●	

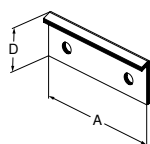
Jaw, soft



- ▲ for the preparation of formed jaws
- ▲ price per piece

									NCG	HSG / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
	100	35		16				80 892 24700	●			●	●					●
	125	40		20				80 892 24800	●	●	●	●	●	●	●	●		●
	160	50		20				80 892 24900	●		●	●	●	●				

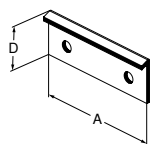
Pull down jaw with spring plate



- ▲ for finish machining
- ▲ price per piece

									NCG	HSG / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
	80	24						80 901 309										
	125	35						80 901 310			●			●		●		
	160	45						80 901 311			●			●				

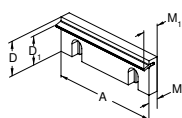
Pull down jaw with spring plate



- ▲ for finish machining
- ▲ price per piece

									NCG	HSG / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
	65	23						80 898 923				●					●	
	100	36						80 898 924	●			●	●					●
	125	41						80 898 925					●					●
	160	51						80 898 926	●				●					

Spring Leaf Pull down jaw



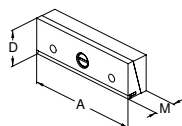
- ▲ price per piece

									NCG	HSG / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
	100	35	28	10	18,5			80 892 22800	●			●	●					●
	125	40	32,5	11,5	19			80 892 22900	●		●		●	●		●		●
	160	50	42	13,5	21			80 892 23000	●		●		●	●				

General top jaws overview

Description	Clamping Ø	A	D	D ₁	M	M ₁	Price	Article No.	Type association
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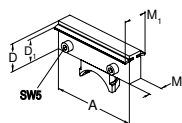
Precision pull down jaw



- ▲ pull down jaw is only for use on the movable jaw
- ▲ price per piece

									NCG	HSG / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
	90	35		25				80 892 356										
	100	35		25				80 892 370	●			●						●
	125	40		25				80 892 371	●	●	●		●	●		●		●
	160	50		27,5				80 892 372	●	●		●	●	●				

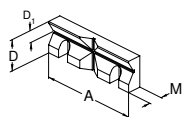
Adapter jaws with pull down



- ▲ for the types NCG, NCG2, and HDG2
- ▲ with reciprocal pull down feather/spring jaws
- ▲ price per piece

									NCG	HSG / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
	100	35	28	28	45			80 892 258	●									
	125	40	32,5	20	35			80 892 259	●				●					
	160	50	42	20	35			80 892 260	●				●					

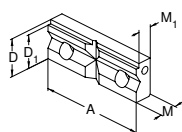
Prismatic jaw



- ▲ with horizontal and vertical prism
- ▲ prism horizontally and vertically ground for parallelism
- ▲ price per piece

									NCG	HSG / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
11 - 41	100	35	13	15,5				80 892 26100	●			●	●					●
14 - 48	125	40	16	17,5				80 892 26200	●	●	●		●	●		●		●
16 - 60	160	50	20	19,5				80 892 26300	●		●		●	●				

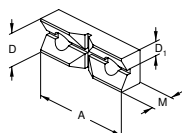
Prismatic jaw



- ▲ prism jaw with horizontal and vertical prism
- ▲ price per piece

									NCG	HSG / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
9 - 31	80	35	31	15,8	12,8			80 893 083										●
9 - 31	100	35	31	15,8	12,8			80 893 103										●
11 - 41	125	40	36	17,8	14,8			80 893 128										●
9 - 31	72	35	31	15,8	12,8			80 893 093										●

Prismatic jaw



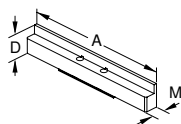
- ▲ with horizontal and vertical prism
- ▲ price per piece

									NCG	HSG / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
11 - 22	65	22	11	20				80 895 337	●			●		●	●		●	

Workpiece supports overview

Description	A	D	D ₁	M	M ₁	Price	Article No.	Type association
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Workpiece supports, offset



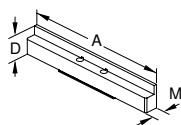
- ▲ hardened and ground
- ▲ held by means of spring wedge in the baseplate
- ▲ price for 2 pieces

								NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
100	11		10,5				80 890 400	●									
100	16		10,5				80 890 401	●									
100	23		10,5				80 890 409	●									
100	25,5		10,5				80 890 411	●									
100	29,5		10,5				80 890 421	●									
125	11		10,5				80 890 390	●									
125	16		10,5				80 890 391	●									
125	21		10,5				80 890 392	●									
125	25		10,5				80 890 422	●									
125	26		10,5				80 890 393	●									
125	29		10,5				80 890 394	●									
125	32,5		10,5				80 890 395	●									
125	36		10,5				80 890 396	●									
160	26		10,5				80 890 452	●									
160	39		10,5				80 890 454	●									
160	42,5		10,5				80 890 456	●									

								NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
125			10,5				80 890 399	●									

i 80 890 399: Set of 7 workpiece supports of 2 pieces in a wooden box (exclusive 80 890 422)

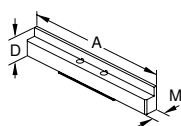
Workpiece supports, offset



- ▲ price for 2 pieces

								NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
65	11		10,5				80 897 011				●						
65	16		10,5				80 897 016				●						

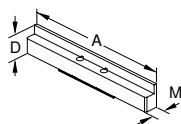
Workpiece supports, offset



- ▲ price for 2 pieces

								NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
40	11		10,5				80 897 004				●						
40	16		10,5				80 897 005				●						

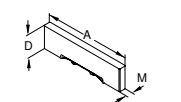
Workpiece supports, offset



- ▲ hardened and ground
- ▲ held by means of clamping springs in the base plate
- ▲ 2 pieces contained in set
- ▲ price per set

								NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
125	11		10,5				80 901 703			●							
125	21		10,5				80 901 704			●					●		
125	25		10,5				80 901 705			●					●		
125	32,5		10,5				80 901 706			●					●		
160	26		10,5				80 901 700			●					●		
160	39		10,5				80 901 701			●					●		
160	42,5		10,5				80 901 702			●					●		

Workpiece supports, offset



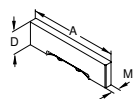
- ▲ hardened and ground
- ▲ held by means of clamping springs in the base plate
- ▲ two pieces contained in set
- ▲ price per set

								NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
80	15		10,5				80 901 707			●					●		
80	20		10,5				80 901 708			●					●		

Workpiece supports overview

Description	A	D	D ₁	M	M ₁	Price	Article No.	Type association
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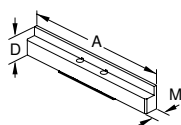
Workpiece supports, offset



- ▲ hardened and ground
- ▲ held by means of clamping springs in the base plate
- ▲ two pieces contained in set
- ▲ price per set

								NCG	HSG / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
125	15		10,5				80 906 715								●		
125	21		10,5				80 906 721								●		
125	25		10,5				80 906 725								●		
125	32,5		10,5				80 906 732								●		
125	22		10,5				80 906 722								●		

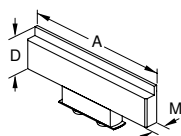
Workpiece surface, offset



- ▲ hardened and ground
- ▲ price for 2 pieces

								NCG	HSG / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
40	11		10,5				80 889 411									●	
40	16		10,5				80 889 416									●	
40	21		10,5				80 889 421									●	
40	25		10,5				80 889 425									●	
40	28		10,5				80 889 428									●	
40	30		10,5				80 889 430									●	
40	32,5		10,5				80 889 432									●	
65	11		10,5				80 889 611									●	
65	16		10,5				80 889 616									●	
65	21		10,5				80 889 622									●	
65	25		10,5				80 889 625									●	
65	28		10,5				80 889 628									●	
65	30		10,5				80 889 630									●	
65	32,5		10,5				80 889 632									●	
90	11		10,5				80 889 911									●	
90	16		10,5				80 889 916									●	
90	21		10,5				80 889 921									●	
90	25		10,5				80 889 925									●	
90	28		10,5				80 889 928									●	
90	30		10,5				80 889 930									●	
90	32,5		10,5				80 889 932									●	

Workpiece supports



- ▲ hardened and ground
- ▲ held by spring clips in the baseplate
- ▲ price for 2 pieces

								NCG	HSG / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
100	16		10,5				80 892 401					●					
100	25,5		10,5				80 892 411					●					
100	29,5		10,5				80 892 421					●					
125	11		10,5				80 892 390					●					
125	16		10,5				80 892 391					●					
125	21		10,5				80 892 392					●					
125	26		10,5				80 892 393					●					
125	29		10,5				80 892 394					●					
125	32,5		10,5				80 892 395					●					
125	36		10,5				80 892 396					●					
160	26		10,5				80 892 403					●					
160	39		10,5				80 892 413					●					
160	42,5		10,5				80 892 423					●					

								NCG	HSG / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
125			10,5				80 892 399					●					

i 80 892 399: Set of 7 workpiece supports of 2 pieces in a wooden box

General accessories overview

Alignment and centering kit for T-slots

▲ price per piece

ESG mini	DSG 4
H5G -Z	



A mm	for slot width mm	Article no. 80 897 ...
100	14	114
100	16	116
100	18	118

Alignment and centring set

▲ price per piece

ESG 4	DSG 4
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A mm	for slot width mm	Article no. 80 906 ...
80	12	812
80	14	814
80	16	816
80	18	818

Clamping Screw Set for T-slot

▲ price for 2 pieces

ZSG 4	ESG 4
DSG 4	



for width mm	G	Article no. 80 899 ...
12	M10	312
14	M12	314
16	M12	316
18	M12	318

Workpiece stop

NCG	DSG 4	ZSG 4	HDG 2
H5G	ESG 4	ESG mini	

Article no.
80 892 ...

400

Workpiece stop

ESG mini	DSG 4	MSG 2
ZSG 4	ESG 4	ZSG 3

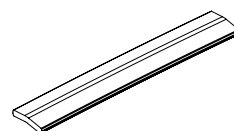
Article no.
80 895 ...

010

Replacement spring plates

▲ price per piece

▲ for pull down and intermediate jaws

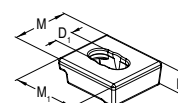
Article no.
80 892 ...

for width

mm	Article no.
100	430
125	431
160	432

Clamping claws

▲ price for 2 pieces

Article no.
80 890 ...

315

D mm	D ₁ mm	M mm	M ₁ mm
20	16	50	57

Clamping levers overview

Description	for width	Torque in Nm	Square drive	SW	Price	Article No.	Type association
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Clamping Handle with Joint



▲ without socket

		1/2"				80 891 600	NCG H5G / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2 MNG
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Torque Wrench



▲ without socket

	10 - 100	1/2"				80 884 502	NCG H5G / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2 MNG
	20 - 200	1/2"				80 884 504	NCG H5G / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2 MNG

Torque key



▲ without socket

	5 - 50	3/8"				80 884 402	NCG H5G / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2 MNG
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Socket



▲ suitable for 1/2" and 3/8" square drive

	1/2"	8				80 877 208	NCG H5G / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2 MNG
	1/2"	10				80 877 210	NCG H5G / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2 MNG
	1/2"	14				80 877 214	NCG H5G / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2 MNG
	3/8"	8				80 877 108	NCG H5G / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2 MNG
	3/8"	5				80 877 105	NCG H5G / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2 MNG

Socket



▲ suitable for 1/2" and 3/8" square drive

	3/8"	7				80 875 107	NCG H5G / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2 MNG
	1/2"	12				80 875 212	NCG H5G / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2 MNG
	3/8"	12				80 875 112	NCG H5G / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2 MNG
	1/2"	14				80 875 214	NCG H5G / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2 MNG

Hexagon adapter SW 12 to SW 27



▲ for compressed air impact wrench

		12				80 875 27000	NEW NCG H5G / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2 MNG
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Control set



▲ torque wrench including nut and screwdriver SW10

	8 - 50	3/8"	10			80 899 410	NCG H5G / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2 MNG
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Screws overview

Description	for width	G	J ₁₇	Price	Article No.	Type association
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Clamping screw for top jaws



▲ price per piece

	M6x8			80 895 013	NCG H5G / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2 MNG
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Clamping screw for top jaws



▲ DIN EN ISO 4762 (1998-02)

	M8x12			80 892 296	NCG H5G / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2 MNG
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Clamping screw with shallow head for top jaws



▲ see DIN7984 (1985-05)

	M8x10			80 889 950	NCG H5G / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2 MNG
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Clamping screw for system jaws



▲ price per piece

	M12x20			80 890 630	NCG H5G / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2 MNG
	M12x40			80 890 632	NCG H5G / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2 MNG

Allen cap screw



▲ DIN 912

	M12x45			80 899 124	NCG H5G / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2 MNG
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Dowel screws



▲ price for 2 pieces

100	M12x38	12		80 890 313	NCG H5G / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2 MNG
125	M16x55	16		80 890 314	NCG H5G / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2 MNG

Dowel screw



▲ price for 2 pieces

125	M12x45	12		80 895 019	NCG H5G / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2 MNG
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Fixing set for mounting through the body



▲ price per set

	M8	8		80 897 019	NCG H5G / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2 MNG
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Screws overview

Description	for width	G	J ₁₇	Price	Article No.	Type association
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Clamping screw and T-Nuts



- ▲ for mounting the clamping claw
- ▲ price per 2 pieces

					NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	MNG
12	M10				80 890 308	●	●	●	●	●	●	●	●	●
14	M12				80 890 309	●	●	●	●	●	●	●	●	●
16	M14				80 890 310	●	●	●	●	●	●	●	●	●
18	M16				80 890 311	●	●	●	●	●	●	●	●	●

Clamping screws for round clamps, T-Nut



- ▲ incl. nut and washer
- ▲ price per 2 Pieces

					NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	MNG
12	M10				80 899 112								●	●
14	M12				80 899 114								●	●
16	M12				80 899 116								●	●
18	M12				80 899 118								●	●

Clamping claws set



- ▲ spacing for 50 mm or 100 mm and 100 mm T-slot distance
- ▲ price per set of 2 pieces

					NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	MNG
100	M12				80 897 121			●						

Tenon incl. screw



- ▲ price per 2 pieces

					NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	MNG
12	M6				80 898 412	●	●	●	●	●	●	●	●	●
14	M6				80 898 414	●	●	●	●	●	●	●	●	●
16	M6				80 898 416	●	●	●	●	●	●	●	●	●
18	M6				80 898 418	●	●	●	●	●	●	●	●	●