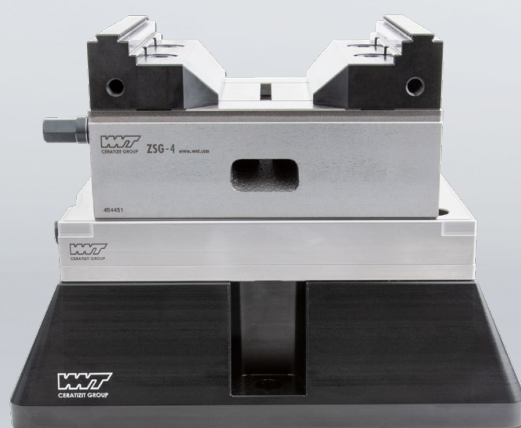
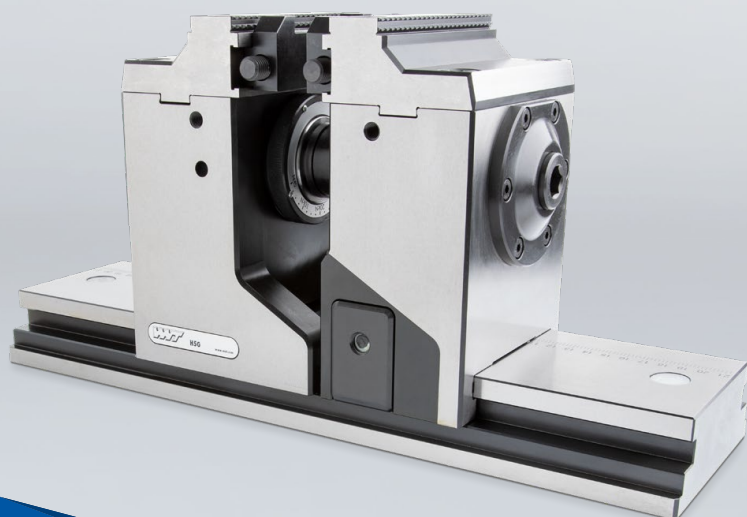


The Catalogue

Workpiece clamping 2019



TEAM CUTTING TOOLS



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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



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Toolfinder – clamping variants and clamping towers	6
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General top jaws overview	91-97
Workpiece supports overview	98+99
Accessories general overview	100
Clamping levers overview	101
Screws overview	102+103

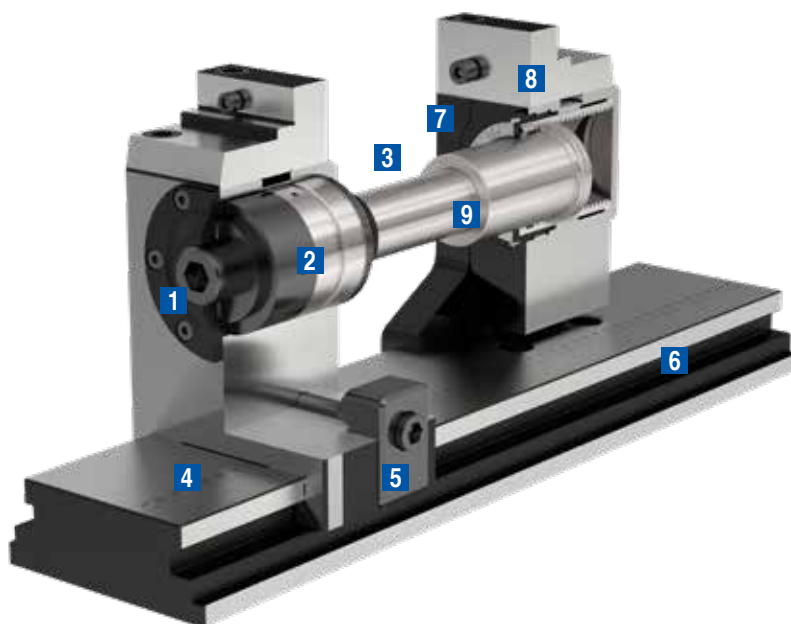
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The premium quality tools from the **WNT Performance** product line have been designed for specific applications and are distinguished by their outstanding performance. If you make high demands on the performance of your production and want to achieve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

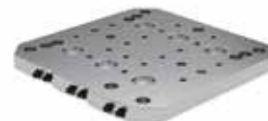
- ▲ faster set up times
- ▲ multifunctional use
- ▲ optimum utilization of the machine table
- ▲ high repeatability



➤ 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

i 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	

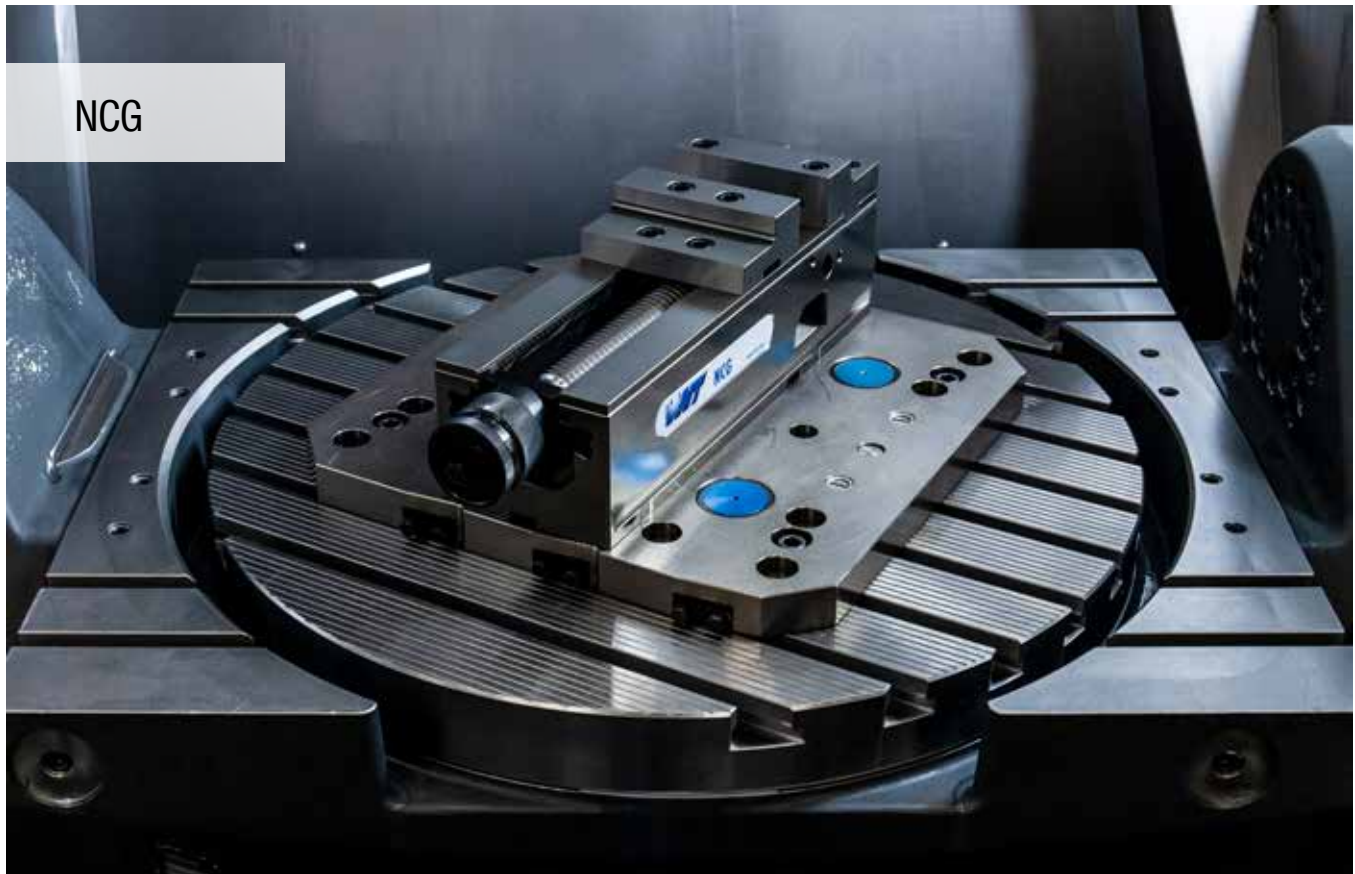
Manual machine vice

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

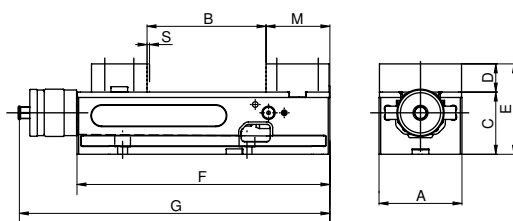


NC-quick clamping vice with standard jaw

- ▲ 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.



											Y4	
											Article no.	
											80 890 ...	
											£	
A	B	C _{-0,02}	D	E	F	G	M	S	Clamping force			
mm	mm	mm	mm	mm	mm	mm	mm	mm	kN	kg		
100	0 - 155	75	34	109	305	374	77	2.5	4 - 30	19.5	2,516.83	600
125	0 - 212	100	39	139	390	457	89	3.0	4 - 40	35.0	2,926.15	625
160	0 - 314	115	49	164	530	600	108	3.0	4 - 40	70.0	3,863.99	660

Vice guide

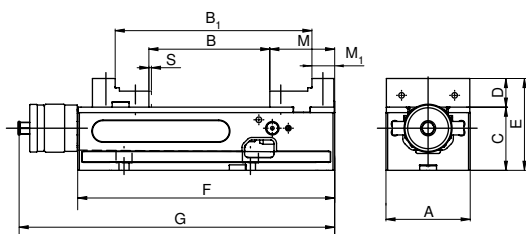
Underside Dimensions	10	System accessories	12-15
MNG/PNG zero point clamping system	63-78	General accessories	91-103

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.



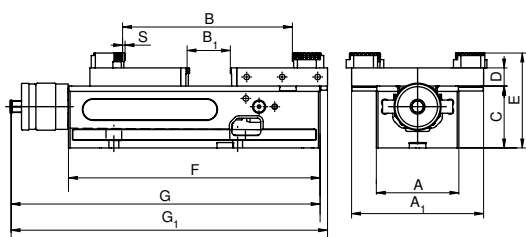
													Y4
													Article no.
													80 890 ...
A	B	B ₁	C _{-0,02}	D	E	F	G	M	M ₁	S	Clamping force		£
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kN	kg	
100	0 - 155	91 - 245	75	34	109	305	374	77	27	2.5	4 - 30	19	2,591.01
125	0 - 212	96 - 307	100	39	139	390	457	89	39	3.0	4 - 40	34	2,999.01
160	0 - 314	113 - 426	115	49	164	530	600	108	52	3.0	4 - 40	68	3,938.19
													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



													Y4
													Article no.
													80 890 ...
A	A ₁	B	B ₁	C _{-0,02}	D	E	F	G	G ₁	S	Clamping force		£
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kN	kg	
100	160	10 - 230	0 - 77	75	22	115	305	374	383	2.5	4 - 30	19	2,695.67
125	192	16 - 343	0 - 152	100	22	140	390	457	478	3.0	4 - 40	34	3,138.09
160	256	15 - 506	0 - 237	115	22	155	530	600	631	3.0	4 - 40	68	4,140.85
													636
													637
													638

Vice guide

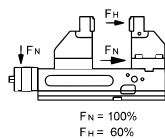
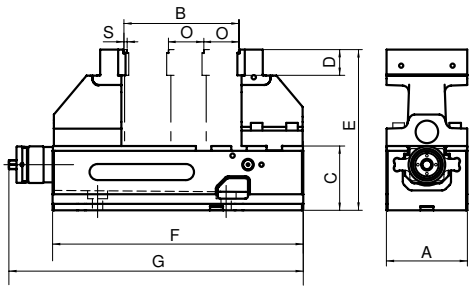
Underside Dimensions	10	System accessories	12-15
MNG/PNG zero point clamping system	63-78	General accessories	91-103

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

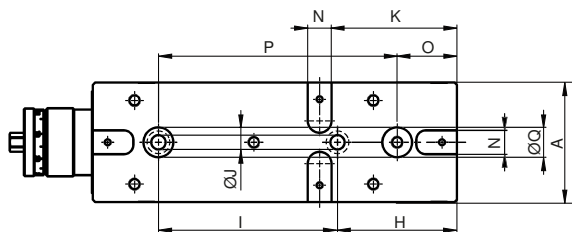
Y4
Article no. 80 890 ...
£
3,135.43 605
3,617.61 635

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		

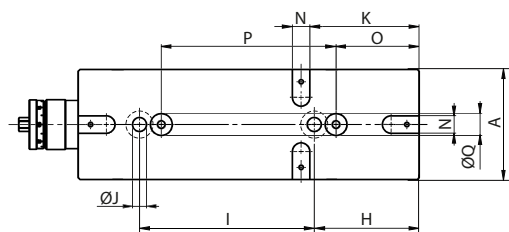
NCG underside dimensions

Base width 100 mm NCG



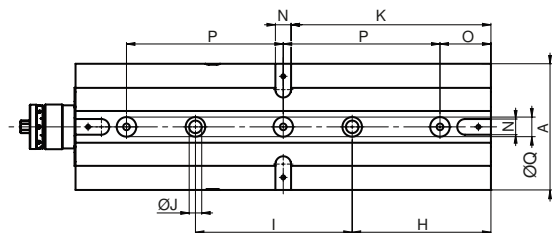
A	H	I	J	K	N	O	P	Q
mm	mm	mm	mm	mm	mm	mm	mm	mm
100	100	150	12	105	20	50	200	25

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

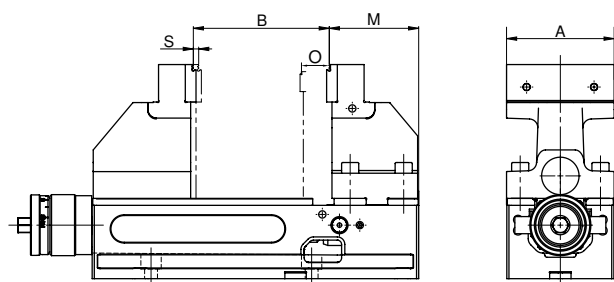
Base width 160 mm NCG



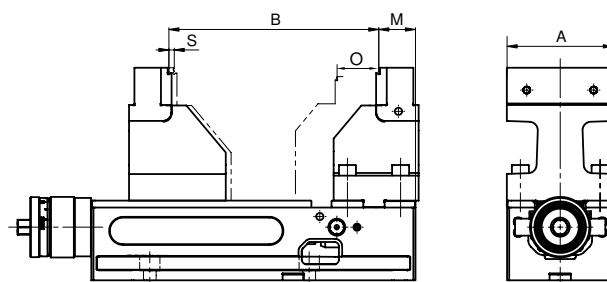
A	H	I	J	K	N	O	P	Q
mm	mm	mm	mm	mm	mm	mm	mm	mm
160	177	200	16	255	20	65	200	25

NCG 5A structural dimension table for different jaw arrangements

NCG 5A 100

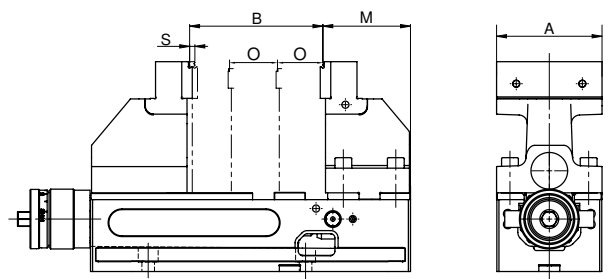


A	B	M	O	S
mm	mm	mm	mm	mm
100	6 - 127	84,5	50	2,5

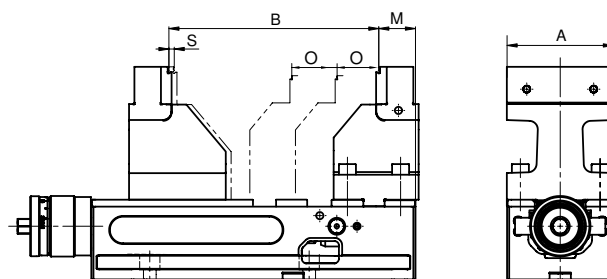


A	B	M	O	S
mm	mm	mm	mm	mm
100	97 - 199	34,5	50	2,5

NCG 5A 125



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

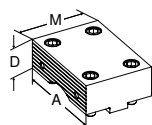


A	B	M	O	S
mm	mm	mm	mm	mm
125	117 - 269	36	55	3

System jaws overview

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

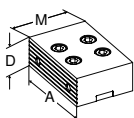
Standard reversible jaw, fixed



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

						£	Y4		NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
100		34		76		234.46	80 890 323	●									
125		39		88		308.65	80 890 324	●									
160		49		108		389.44	80 890 325	●									

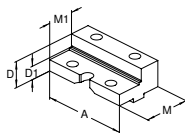
Standard reversible jaw, movable



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

						£	Y4		NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
100		34		67		234.46	80 890 327	●									
125		39		82		308.65	80 890 328	●									
160		49		108		389.44	80 890 329	●									

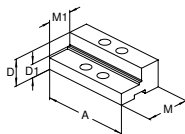
Combi reversible jaw, fixed



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

						£	Y4		NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
100		34	23	76	50	271.56	80 890 343	●				●					
125		39	25	88	50	345.73	80 890 344	●									
160		49	28	108	56	426.52	80 890 342	●									

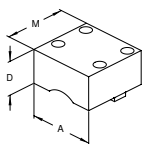
Combi reversible jaw, movable



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

						£	Y4		NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
100		34	23	67	40	271.56	80 890 347	●				●					
125		39	25	82	45	345.73	80 890 348	●									
160		49	28	108	56	426.52	80 890 346	●									

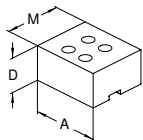
Soft jaw, steel, fixed



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

						£	Y4		NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
100		50		95		102.00	80 890 763	●									
125		50		110		98.87	80 890 764	●									

Soft jaw, steel, movable



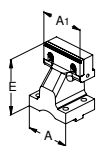
- ▲ for the production of form jaws
- ▲ without fixing bolts
- ▲ price per piece

						£	Y4		NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
100		50		85		119.22	80 890 767	●									
125		50		100		113.92	80 890 768	●									

System jaws overview

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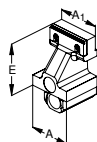
5A carrier jaw, fixed



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

							£	Y4	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
100	100				125		531.18	80 890 364	●								
125	125				150		637.16	80 890 366	●								

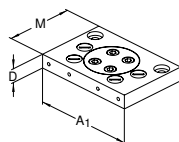
5A carrier jaw, movable



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

							£	Y4	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
100	100				125		564.30	80 890 365	●								
125	125				150		698.09	80 890 367	●								

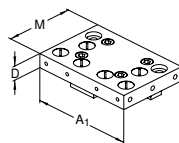
Pendulum jaw, movable



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

							£	Y4	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
100	160	22				110	382.83	80 890 322	●			●					
125	192	22				130	450.39	80 890 338	●								
160	256	22				170	556.35	80 890 340	●								

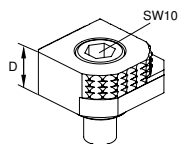
Fixed adaptor jaw



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

							£	Y4	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
100	160	22				110	264.93	80 890 321	●								
125	192	22				130	380.17	80 890 337	●								
160	256	22				170	498.07	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

							£	Y4	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
		18					71.53	80 892 246	●	●	●	●	●	●	●	●	●

System accessories overview

Spindle body

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

NCG

NCG
5A

for width mm	Article no. 80 890 ...	£	
100		160.27	385
125		188.09	387
160		213.27	389

Spring Loaded Locator

NCG

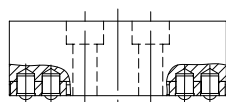


for width mm	Article no. 80 890 ...	£	
100/125		2.32	008
160		2.32	014

Protection plate

▲ for moving standard and combi reversible jaw

NCG



for width mm	Article no. 80 890 ...	£	
100		2.32	010
125		3.51	012
160		20.65	013

Cover plate set

NCG

NCG
5AC

for width mm	Article no. 80 890 ...	£	
100		25.16	442
125		26.05	443
160		30.48	444

Drawbar extension

▲ For connecting 2 NCG vices

NCG

NCG
5A

for width mm	B mm	Article no. 80 890 ...	£	
100	305 - 460		303.34	460
125	390 - 602		332.48	470

Carrying handle

▲ for simple and safe transporting

Scope of supply:

1 piece Hand grip including fixing bolts

NCG

NCG
5AC

for width mm	Article no. 80 890 ...	£	
100/125		11.93	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		£	
				119.78	501

Y4

High-speed operation device

▲ For faster span adjustment with removable grip

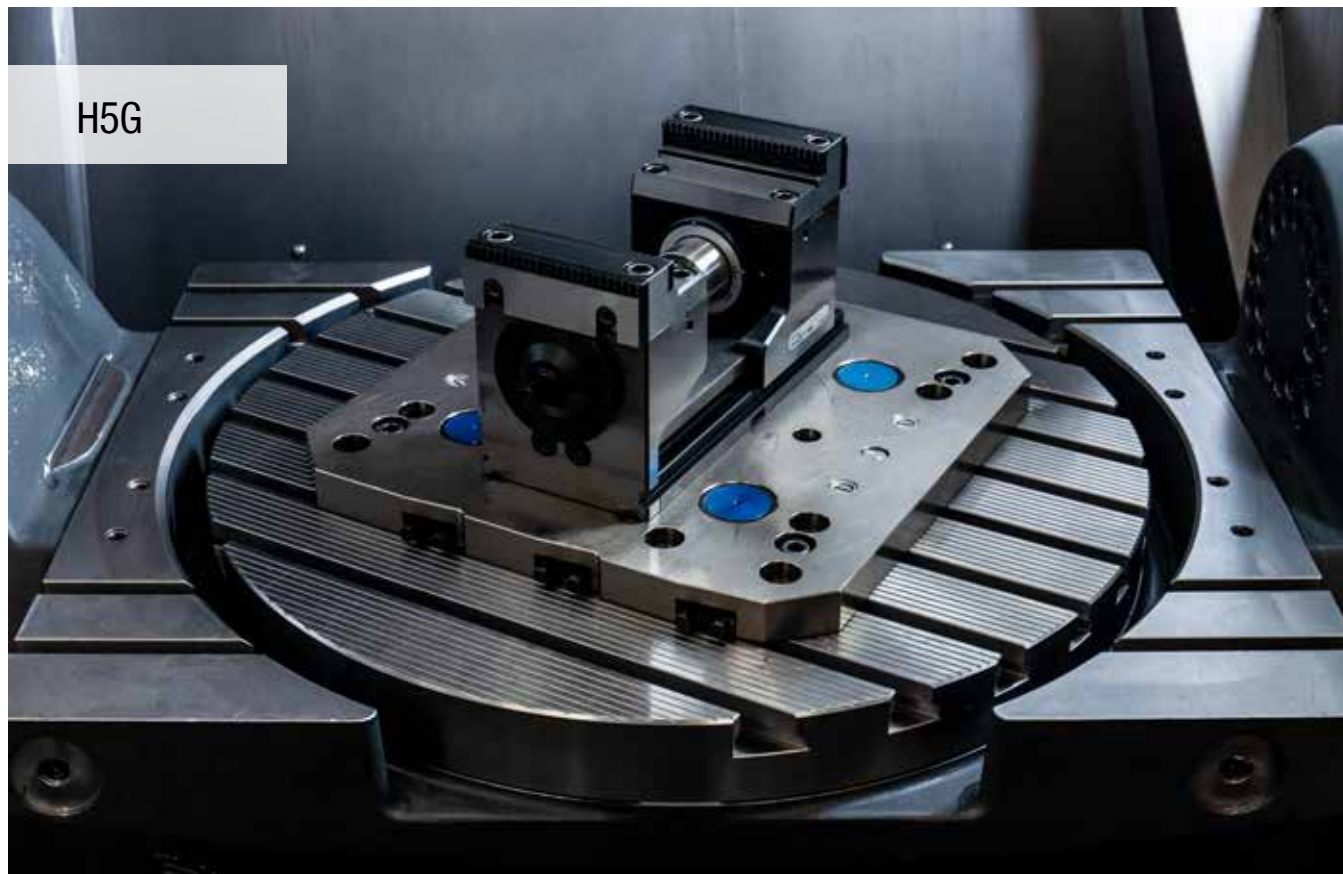
NCG	NCG 5AC
-----	------------



for width mm		Article no. 80 890 ...	
100		£	
125/160		54.67	550
		64.13	551

Y4

H5G

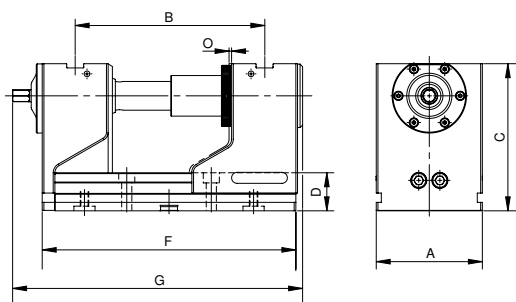


5-axis vice with quick adjustment, 174 mm height

- ▲ 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.



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

Y4
Article no.
80 898 ...
£
3,041.40

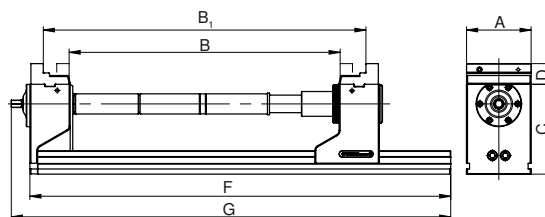
125

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

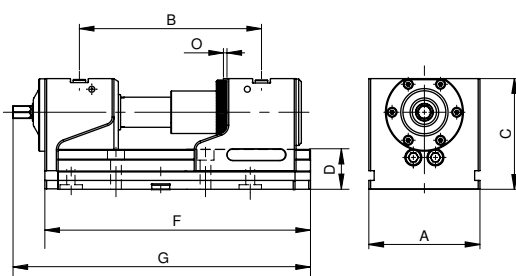
i The H5G 125 mm can be extended by a maximum of 250 mm with 2 extensions. The extension results in approximately 10 % loss of clamping force.
Base plate available in long version with the desired hole pattern on request.

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

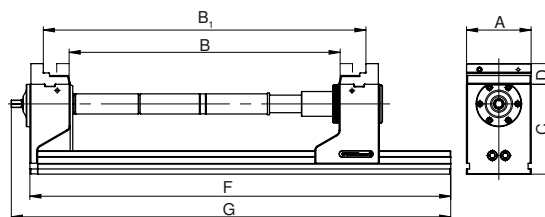
Y4
Article no.
80 898 ...
£
2,780.44 123 ¹⁾
2,838.73 124

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

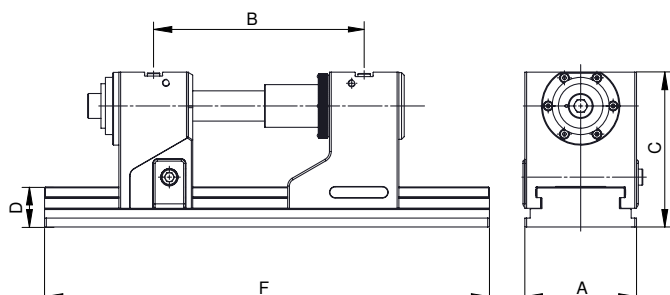
i The H5G-S 125 mm can be extended by a maximum of 250 mm with 2 extensions. The extension results in approximately 10 % loss of clamping force.
Base plate available in long version with the desired hole pattern on request.

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 ±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

Y4
Article no. 80 907 ...
£
3,452.57
3,615.85
3,919.69

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

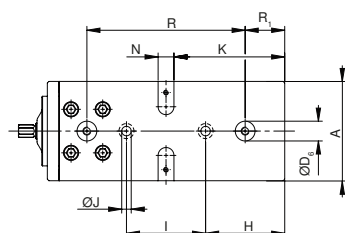
Combi reversible jaws 80 898 225 + stepped jaw 80 907 302	Base body 430 mm		Base body 500 mm		Base body 630 mm	
	min.	max.	min.	max.	min.	max.
H5G-Z/430	14	139				
H5G-Z/430 + Drawbar extension 125 mm	139	235				
H5G-Z/500			14	139		
H5G-Z/500 + Drawbar extension 125 mm			139	264		
H5G-Z/500 + Drawbar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

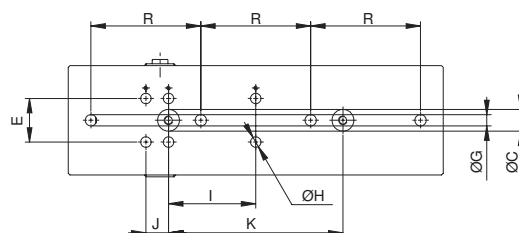
H5G/H5G-Z underside dimensions

Base width 125 mm and 300 mm length



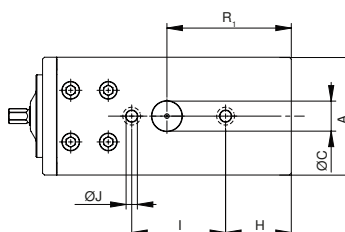
A	D ₆ H ₇	H	I	Ø J F ₇	K	N	R	R ₁
mm	mm	mm	mm	mm	mm	mm	mm	mm
125	25	100	100	12	140	20	200	50

Base width 125 mm and 430 mm length



E	R	J	I	K	Ø H H ₇	Ø G	Ø C H ₆
mm	mm	mm	mm	mm	mm	mm	mm
50	126	26	100	200	12	13	25

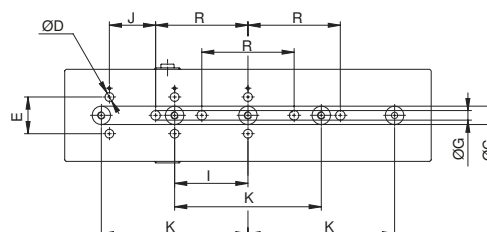
Base width 125 mm and 265 mm length



A	Ø C H ₆	H	I	Ø J F ₇	R ₁
mm	mm	mm	mm	mm	mm
125	32	70	100	12	132.5

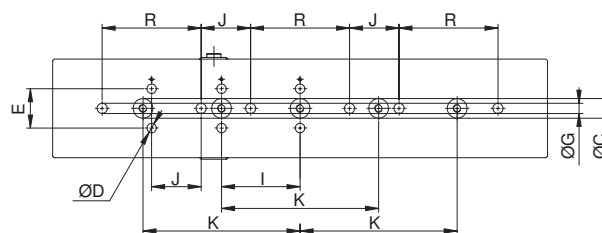
i H5G with 265 mm length is not compatible with MNG

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

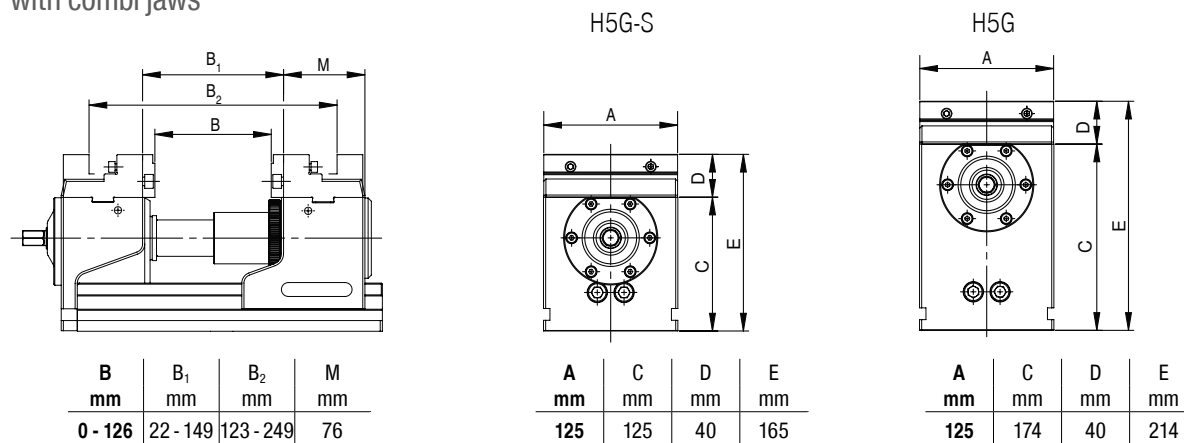
Base width 125 mm and 630 mm length



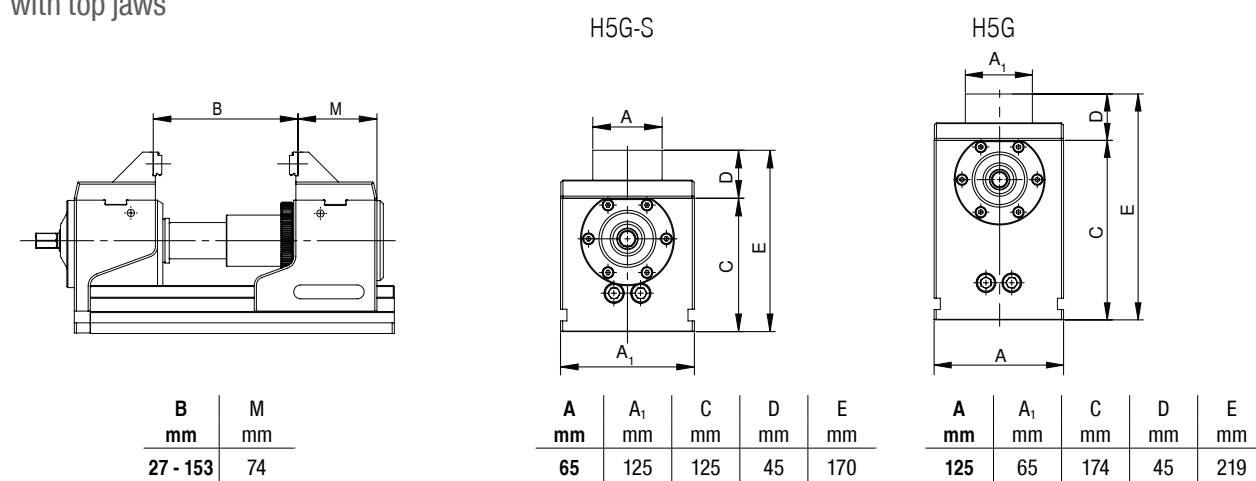
E	R	J	I	K	Ø G	Ø C H ₆	Ø D H ₇
mm	mm	mm	mm	mm	mm	mm	mm
50	126	63	100	200	13	25	12

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

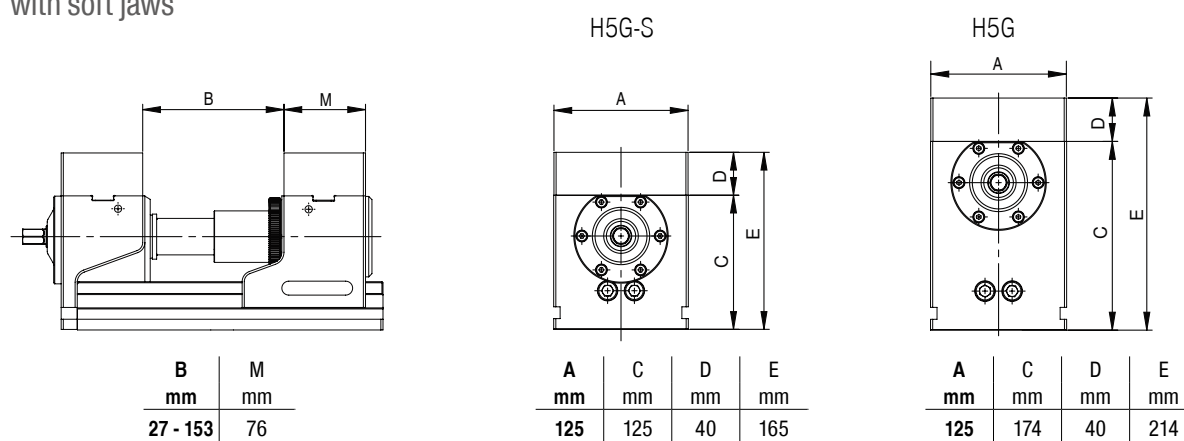
with combi jaws



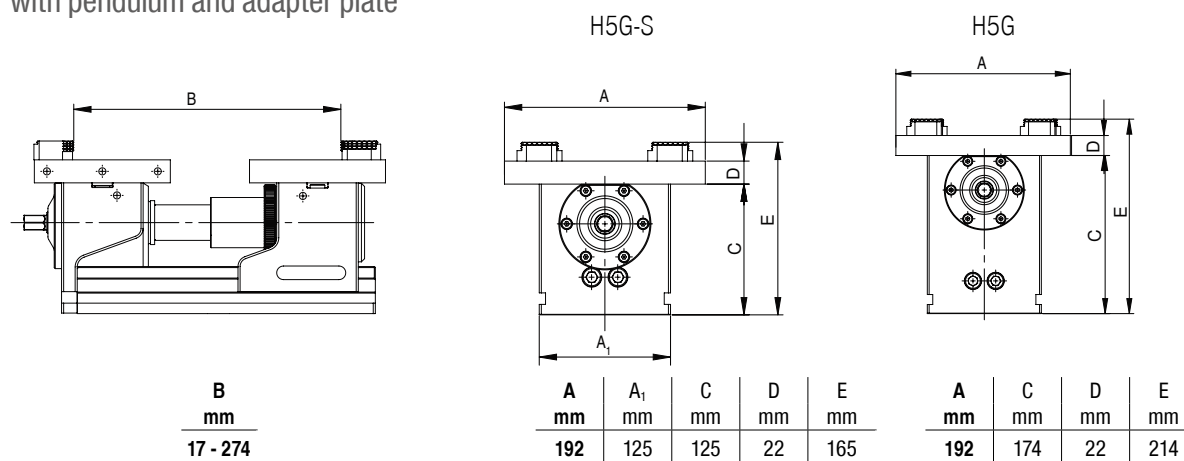
with top jaws



with soft jaws

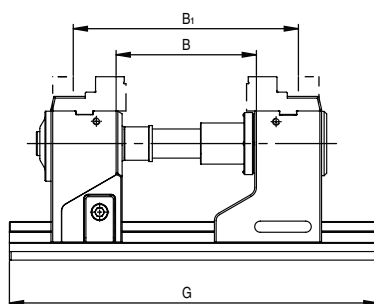


with pendulum and adapter plate

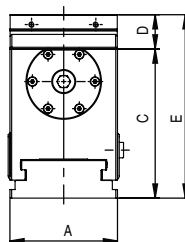


H5G-Z structural dimension table for the different jaws

with combi jaws



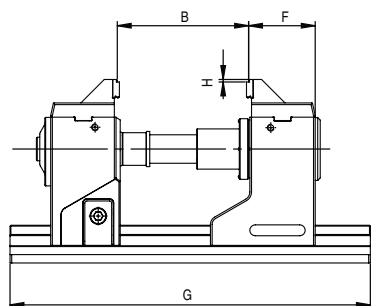
B mm	B ₁ mm	G mm
14 - 139	157 - 282	430



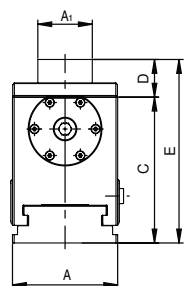
A mm	C mm	D mm	E mm
125	174	40	214

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

with top jaws

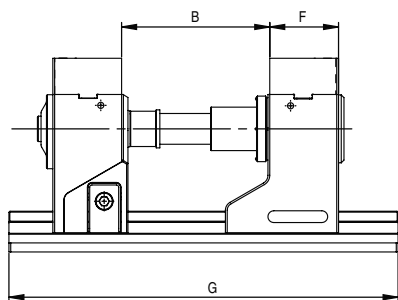


B mm	F mm	G mm	H mm
50 - 175	79,5	430	3

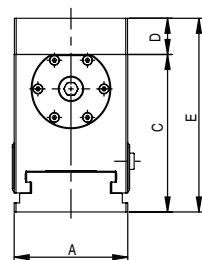


A mm	A ₁ mm	C mm	D mm	E mm
125	65	174	40	214

with soft jaws

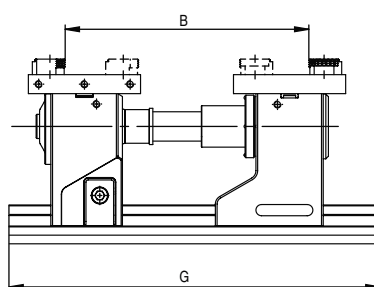


B mm	G mm	F mm
57 - 182	430	76

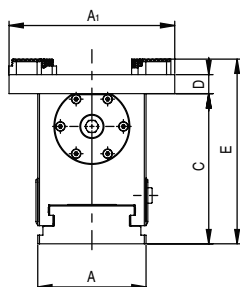


A mm	C mm	D mm	E mm
125	174	40	214

with pendulum and adapter plate



B mm	G mm
11 - 300	430

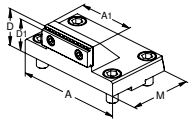


A mm	A ₁ mm	C mm	D mm	E mm
125	192	174	22	214

System jaws overview

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

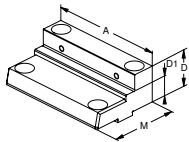
5A stepped top jaw



- ▲ including 125/65 mm attachment and 3 mm grip step
- ▲ price per piece

125	65	45	42		76	£	Y4	80 898 325	NCG H5G / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2
-----	----	----	----	--	----	---	----	------------	--

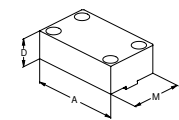
Combi reversible jaw



- ▲ to extend the clamping range
- ▲ price per piece

125		40	22		76	£	Y4	80 898 225	NCG H5G / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2
-----	--	----	----	--	----	---	----	------------	--

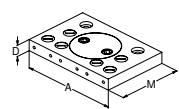
Soft Alu-jaw



- ▲ for producing shaped jaws
- ▲ price per piece

125		40			76	£	Y4	80 898 625	NCG H5G / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2
-----	--	----	--	--	----	---	----	------------	--

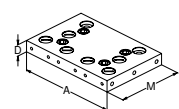
Pendulum jaw, movable



- ▲ to accommodate 6-way reversible jaws
- ▲ price per piece

192		22			130	£	Y4	80 898 525	NCG H5G / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2
-----	--	----	--	--	-----	---	----	------------	--

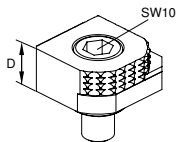
Adapter plate



- ▲ to accommodate 6-way reversible jaws
- ▲ price per piece

192		22			130	£	Y4	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				£	Y4	80 892 246	NCG H5G / -S / -Z ESG 4 ESG mini HDG 2 ZSG 4 ZSG 3 DSG 4 MSG 2
--	--	----	--	--	--	---	----	------------	--

Description	A	D	D ₁	D ₂	M	M ₁	Price	Article No.	Type association
-------------	---	---	----------------	----------------	---	----------------	-------	-------------	------------------

Technical drawing of a rectangular block. The drawing shows a perspective view of a block with a rectangular top surface. The dimensions are labeled as follows: A is the length of the block, M is the width of the block, D_1 is the height of the block, D_2 is the height of the block, and D is the height of the block.

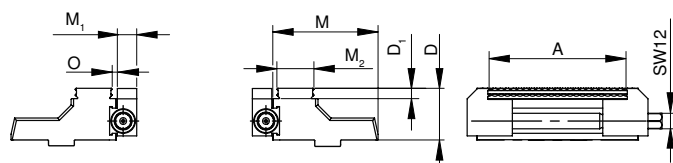
- ▲ improved accessibility through tapered rear section
- ▲ price per piece

						£	Y4	NCG	H5G	ESG	ESG	HDG	ZSG	ZSG	DSG	MSG
125	40	37	18	78		335.20	80 907 300		●							

	●	ESG 4	ESG mini	HSG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
NCG		HSG / -S / Z						

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

H5G
-Z



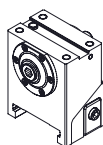
for width mm	A mm	D mm	D ₁ mm	M mm	M ₁ mm	M ₂ mm	O mm	kg
125	37 - 101	40	8	81.5	15	28.7	3.2	4.5

Y4	Article no.	80 898 ...
£		1,952.77

System accessories overview

Movable fixed jaw

▲ price per piece

H5G
-Z

Y4

Article no.
80 907 ...

£

1,508.41 301 ¹⁾for width
mm

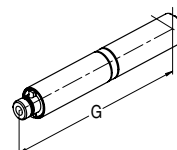
125

1) Not ex-stock

Drawbar

▲ Incl. anti-rotation

H5G

H5G
-SH5G
-Z

Y4

Article no.
80 898 ...

£

342.85 826

388.43 827

for width
mm

125

G
mm

125

250

Protection plugs

▲ price per piece

H5G
-Z

Y4

Article no.
80 907 ...

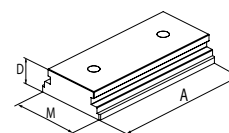
£

0.56 501

D₁
mm

19

Base plate to extend



Y4

Article no.
80 898 ...

£

609.26 725

A
mm

250

D
mm

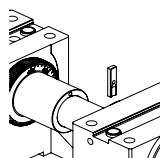
45

M
mm

125.5

Anti-twist plate

H5G



Y4

Article no.
80 898 ...

£

11.93 024

Clamping lever

▲ including control accessories

NCG

H5G

NCG
5A

Y4

Article no.
80 890 ...

£

119.78 501

for width
mm

100/125/160

SW
mm

14

Hand crank

▲ for fast adjustment

H5G-Z
Y4Article no.
80 907 ...

£

73.53 500

H5G-S
Y4Article no.
80 898 ...

£

74.18 026

H5G
Y4Article no.
80 898 ...

£

74.18 025

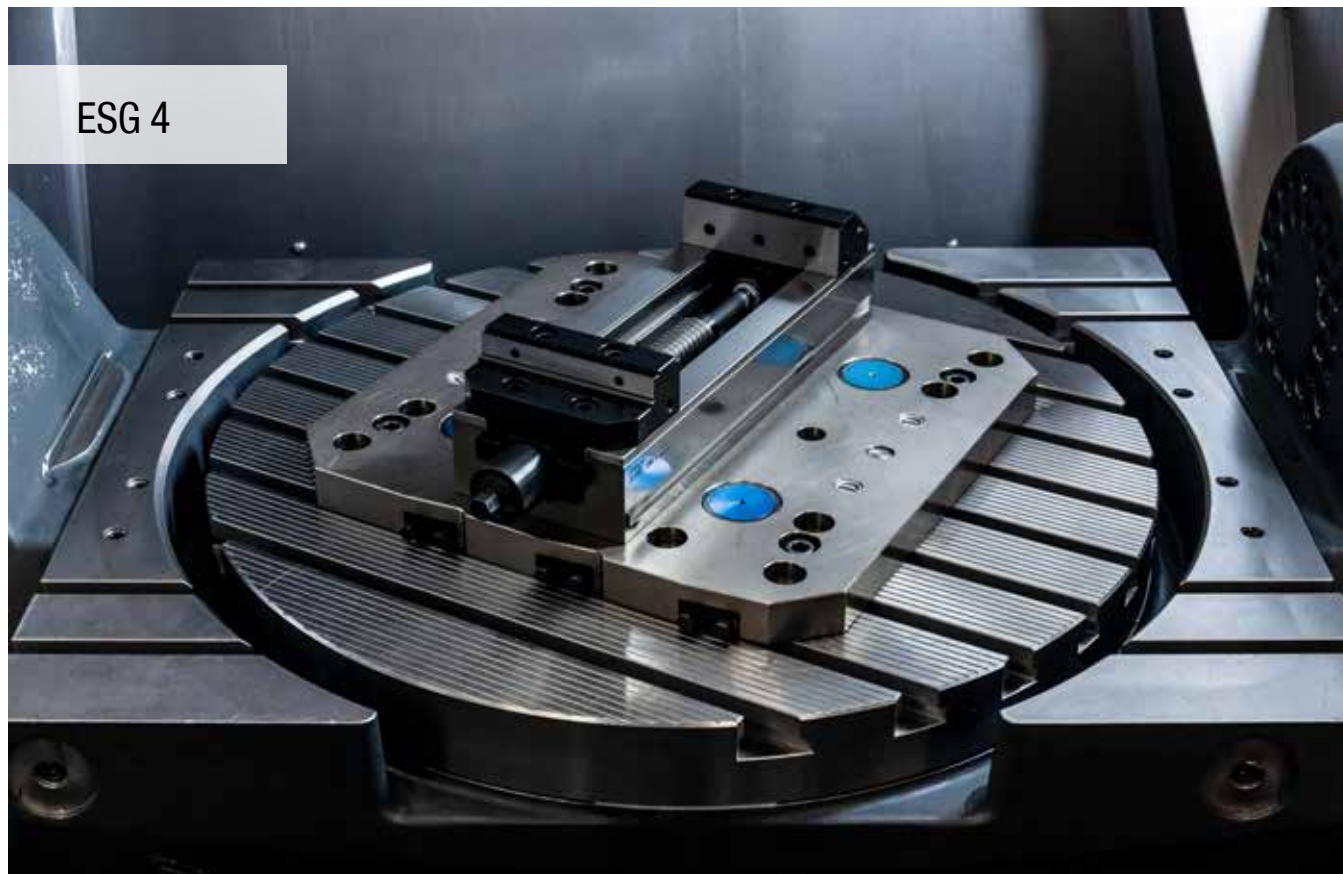
for width
mm

125

SW
mm

14

ESG 4

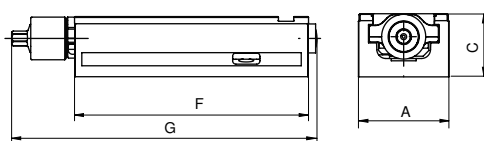


Single vice without system jaws

- ▲ 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

Y4
Article no.
80 901 ...
£
1,182.05
1,466.52
2,148.96

080
125
160

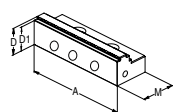
Vice guide

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
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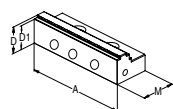
Indexable jaw, grip 3 mm, fixed



▲ price per piece

					£	Y4			NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
80		28	25	40	157.76	80 901 306					●					●	
125		40	37	66	217.53	80 901 302					●					●	
160		50	47	81	392.03	80 901 300					●						

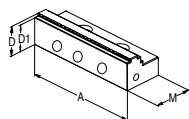
Indexable jaw, grip 3 mm, movable



▲ price per piece

					£	Y4			NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
125		40	37	66	217.53	80 901 303					●					●	

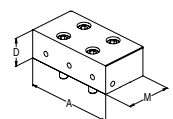
Indexable jaw, grip 3 mm, movable



▲ price per piece

					£	Y4			NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
80		28	25	40	152.16	80 878 810					●			●		●	
160		50	47	81	443.81	80 878 610					●			●			

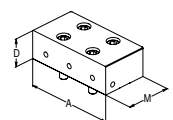
Block jaw, fixed



▲ price per piece

					£	Y4			NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
80		28		40	277.91	80 901 31200					●						
125		40		66	387.09	80 901 31400					●						
160		50		81	488.83	80 901 31600					●						

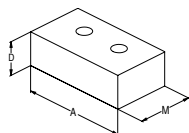
Block jaw, movable



▲ price per piece

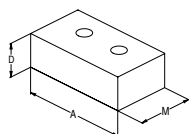
					£	Y4			NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
80		28		40	269.22	80 901 31300					●			●		●	
125		40		66	378.40	80 901 31500					●			●		●	
160		50		81	477.66	80 901 31700					●			●			

Alu jaw, fixed

▲ for producing shaped jaws
▲ price per piece

					£	Y4			NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
80		28		48	98.01	80 901 307					●						
125		40		68	106.38	80 901 304					●						
160		50		85	119.52	80 901 301					●						

Alu jaw

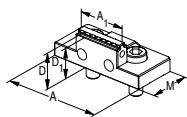
▲ for producing shaped jaws
▲ price per piece

					£	Y4			NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
80		28		48	95.10	80 878 850					●			●		●	
125		40		68	109.38	80 878 550					●			●		●	
160		50		85	119.52	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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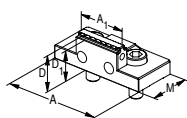
Reversible grip jaw, width 40 mm, fixed



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

							£	Y4	NCG	HSG / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
80	80	40	28	25	40		190.05	80 901 308	●								

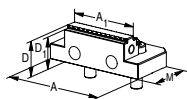
Indexable grip jaw 3 mm, width 40 mm, movable



- ▲ price per piece

							£	Y4	NCG	HSG / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
80	80	40	28	25	40		202.89	80 878 840	●								

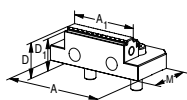
5-axis reversible grip jaw, width 65 mm, fixed



- ▲ price per piece
- ▲ double sided grip step

							£	Y4	NCG	HSG / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
125	125	65	33	30	57		206.78	80 901 305	●								

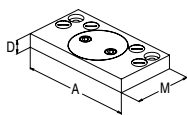
5-axis indexable jaw, grip 3 mm, width 65 mm, movable



- ▲ price per piece
- ▲ double sided grip step

							£	Y4	NCG	HSG / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
125	95	65	33	30	57		215.57	80 878 565	●								

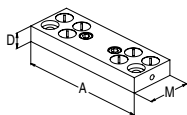
Pendulum jaw, movable



- ▲ price per piece

							£	Y4	NCG	HSG / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
80	125		19		76		450.16	80 878 870	●								
125	180		22		95		472.36	80 878 570	●								
160	256		22		170		798.87	80 878 670	●								

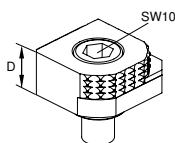
Adapter jaw



- ▲ price per piece

							£	Y4	NCG	HSG / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
80	125		19		48		282.07	80 901 501	●								
125	180		22		62		335.85	80 901 502	●								
160	256		22		125		470.91	80 901 503	●								

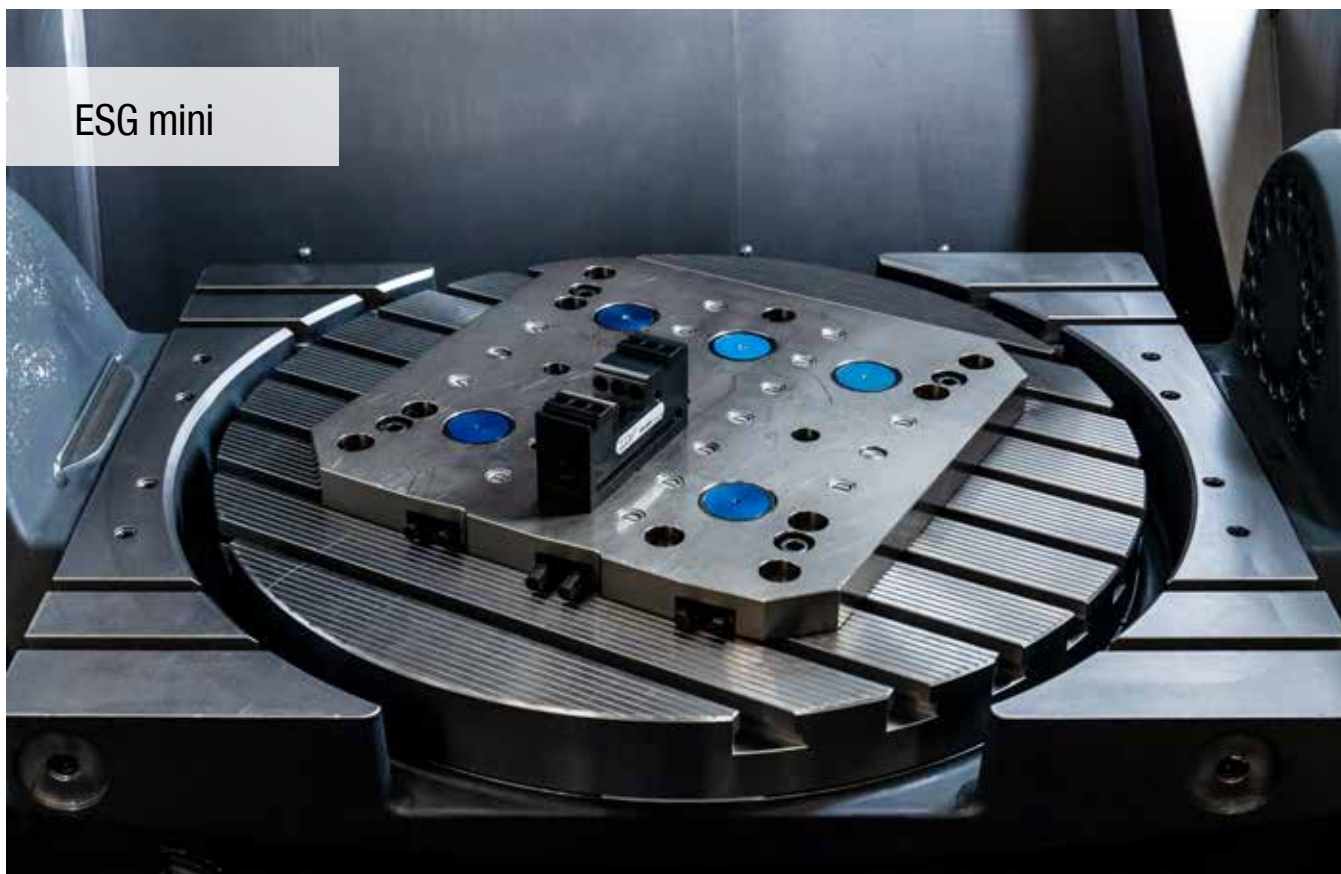
6 function indexable jaw



- ▲ 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

							£	Y4	NCG	HSG / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
			18				71.53	80 892 246	●	●	●	●		●		●	

ESG mini

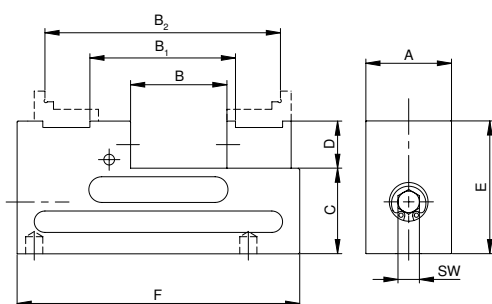


Sealed single small parts vice, 40 mm

- ▲ 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

Y4

Article no.

80 897 ...

£

549.74

040

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

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		

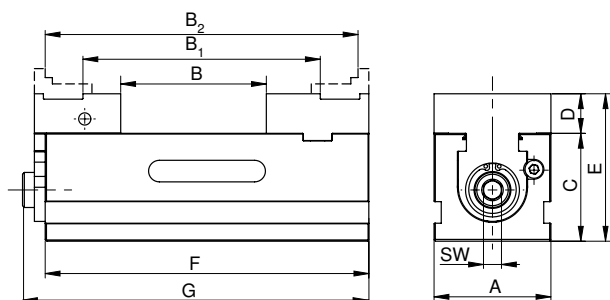
Sealed small parts single vice, 65 mm

▲ adapter plate for mounting with MNG possible

Scope of supply:

ESG mini incl. base jaws

**ESG
mini**



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

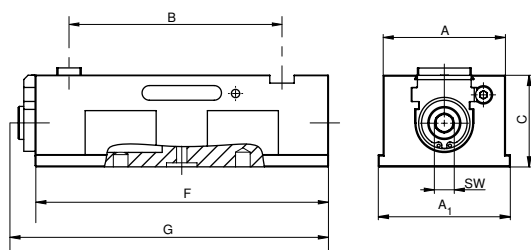
Y4
Article no.
80 897 ...
£
964.35 067

Sealed single vice, 100 mm

Scope of supply:

ESG 100 single vice without base jaws and wrench

**ESG
mini**



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

Y4
Article no.
80 897 ...
£
1,447.84 100

Vice guide

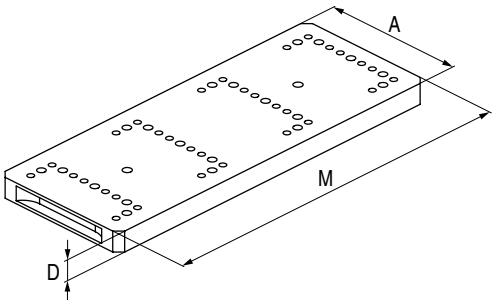
Underside Dimensions	32	Structural dimension tables for the different jaws	33
System accessories	34-36	MNG/PNG zero point clamping system	63-78
General accessories	91-103		

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



					Y4	
					Article no.	
					80 897 ...	
					£	
for	adapter	A mm	D mm	M mm	618.61	944 ¹⁾
ESG mini-40	4	140	20	360	955.07	946 ¹⁾
ESG mini-40	6	140	20	560		

1) Not ex-stock

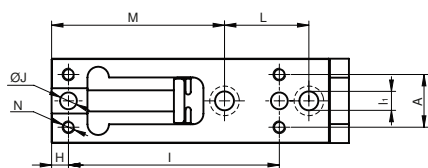
Vice guide

MNG/PNG zero point clamping system

63-78

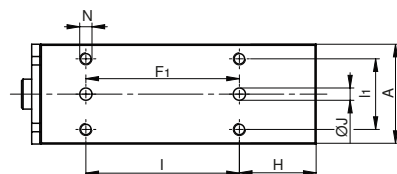
ESG mini underside dimensions

Base width 40 mm



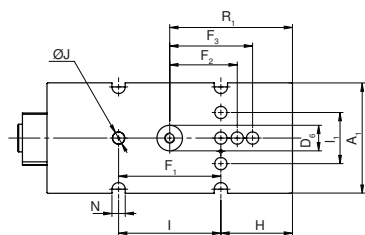
A mm	H mm	I _{±0,02} mm	I ₁ mm	J _{H7} mm	L mm	M mm	N
40	8	100	25	8	40	82	M6

Base width 65 mm



A mm	F _{1±0,015} mm	H mm	I mm	I ₁ mm	J _{H7} mm	N
65	100	50	100	46	8	M8

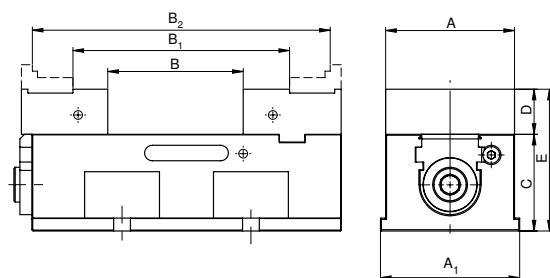
Base width 100 mm



A ₁ mm	D _{6 H7} mm	F _{1±0,015} mm	F _{2±0,015} mm	F _{3±0,015} mm	H mm	I _{±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

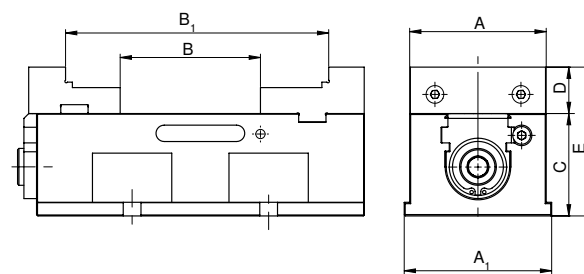
ESG mini-100 structural dimension table for the different jaws

with standard base jaws and
smooth jaw VS



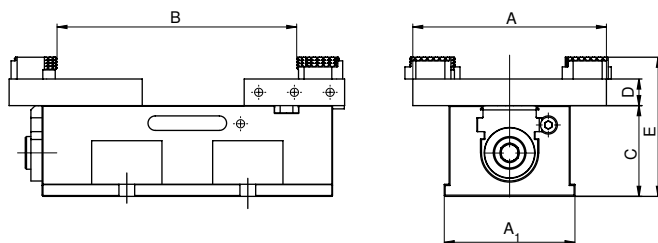
A mm	A ₁ mm	B mm	B ₁ mm	B ₂ mm	C mm	D mm	E mm
100	108	21 - 117	84 - 180	147 - 243	75	35	110

with combi jaws from the NCG 100 system



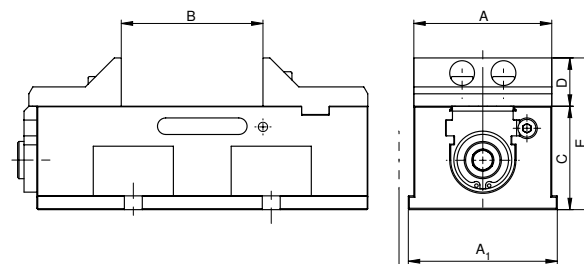
A mm	A ₁ mm	B mm	B ₁ mm	C mm	D mm	E mm
100	108	21 - 117	111 - 207	75	34	109

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



A mm	A ₁ mm	B mm	C mm	D mm	E mm
160	108	24 - 212	75	22	115

with 5-axis base jaws

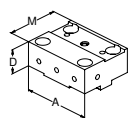


A mm	A ₁ mm	B mm	C mm	D mm	E mm
100	108	21 - 117	75	35	110

System jaws overview

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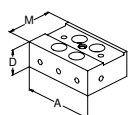
Standard base jaws, fixed



▲ price per piece

100		35		76		£	Y4	218.57	80 897 900	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
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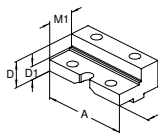
Standard base jaw, movable



▲ price per piece

100		35		67		£	Y4	218.57	80 897 901	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
-----	--	----	--	----	--	---	----	--------	------------	-----	---------------	-------	----------	-------	-------	-------	-------	-------

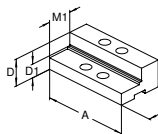
Combi reversible jaw, fixed



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

100		34	23	76	50	£	Y4	271.56	80 890 343	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
-----	--	----	----	----	----	---	----	--------	------------	-----	---------------	-------	----------	-------	-------	-------	-------	-------

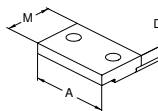
Combi reversible jaw, movable



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

100		34	23	67	40	£	Y4	271.56	80 890 347	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
-----	--	----	----	----	----	---	----	--------	------------	-----	---------------	-------	----------	-------	-------	-------	-------	-------

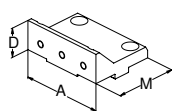
Soft jaw, horizontal



- ▲ for producing shaped jaws
- ▲ price per piece

65		11.5	8.6	40		£	Y4	33.39	80 895 338	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
100		13.5	10.6	50		£		40.35	80 895 348									

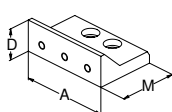
5 axis base jaws, fixed



▲ price per piece

100		35		76		£	Y4	218.57	80 897 916	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
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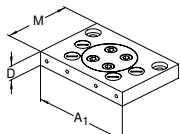
5 axis base jaws, movable



▲ price per piece

100		35		67		£	Y4	218.57	80 897 917	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
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Pendulum jaw, movable



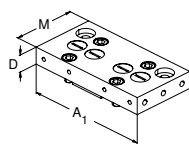
- ▲ for holding 6-way reversible jaws
- ▲ price per piece
- ▲ incl. 6 cover screws
(with A = 100 mm, 4 pieces)

100	160	22		110		£	Y4	382.83	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

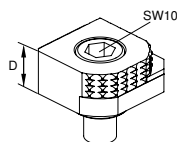


- ▲ for holding 6-way reversible jaws
- ▲ price per piece
- ▲ incl. 6 cover screws
(with A = 100 mm, 4 pieces)

							£	Y4	
100	160	22		83			264.93	80 897 920	

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

							£	Y4	
		18					71.53	80 892 246	

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

System accessories overview

Cover for combi reversible jaws, fixed

▲ price per piece

Scope of supply:

including 2 fixing screws

ESG
mini



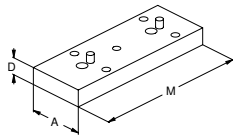
		Y4
Article no.		80 897 ...
£		
for width		
mm		
100	56.10	911

MNG-Adapter plate for ESG mini

Scope of supply:

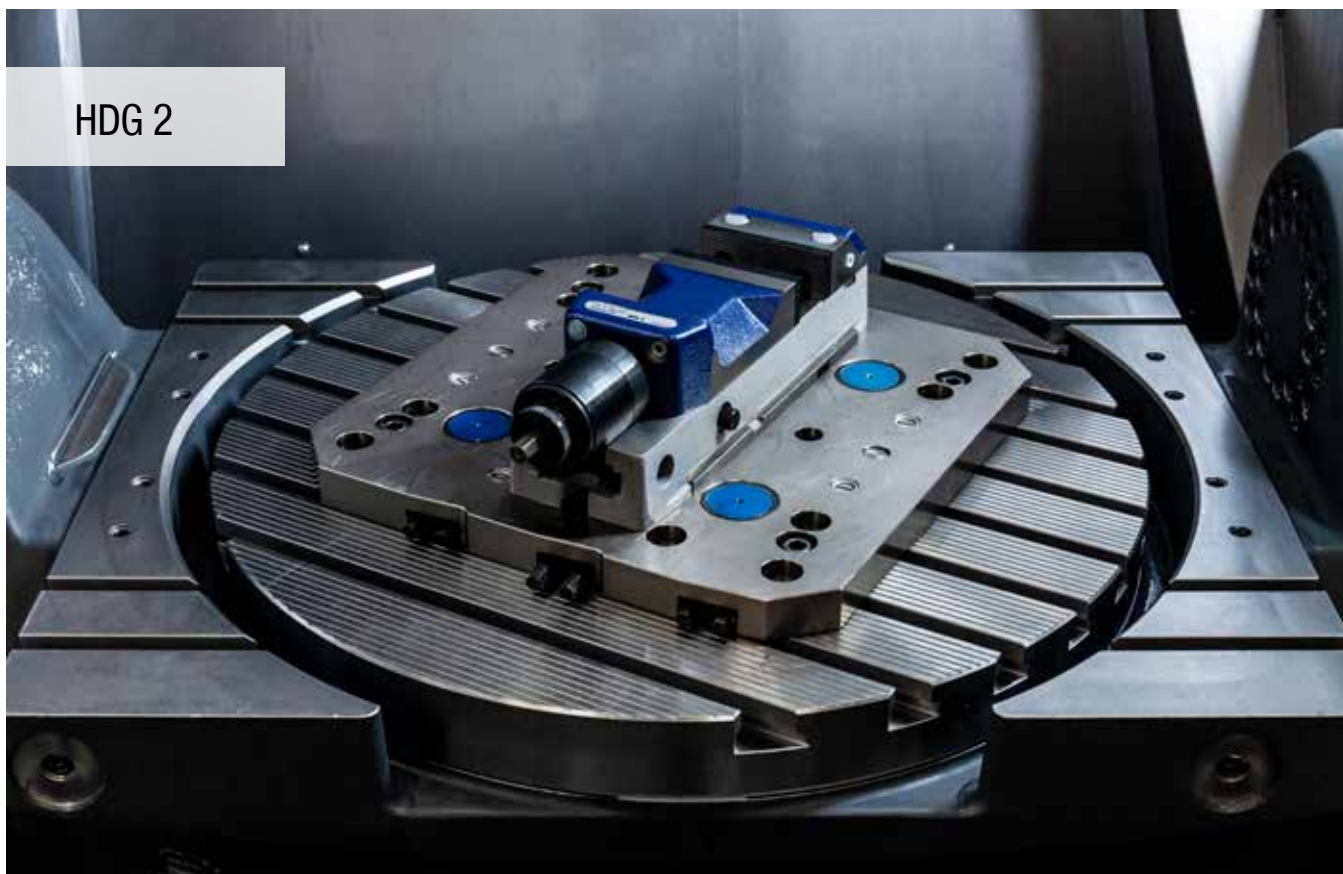
plate including mounting accessories

ESG
mini



				Y4	
				Article no.	
				80 897 ...	
				£	
for width	A	D	M		
mm	mm	mm	mm		
40	65	17	132	324.55	904
65	65	20	180	437.14	906

HDG 2



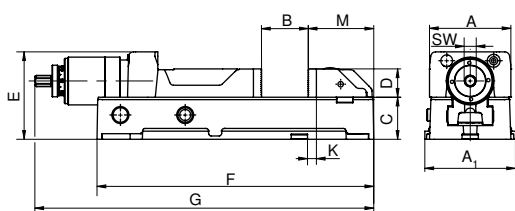
High pressure vice

- ▲ 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

Y4

Article no.
80 892 ...

£

1,899.55

2,169.78

2,923.49

100

125

160

Vice guide

Underside Dimensions

39

System accessories

39

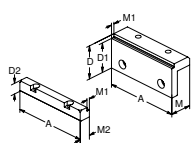
General accessories

91-103

System jaws overview

Description	A	D	D ₁	D ₂	M	M ₁	M ₂	Price	Article No.	Type association
-------------	---	---	----------------	----------------	---	----------------	----------------	-------	-------------	------------------

Jaws for clamping range extension



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

							£	Y4									
100	56	50	22	37	5	19	339.12	80 892 225									
125	56	50	22	37	5	19	458.33	80 892 226									
160	71	65	23	47	5	23.5	512.63	80 892 227									

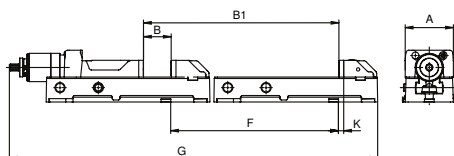
Illustration with extended clamping range



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



A mm	B mm	B ₁ mm	F mm	G mm	K mm		
100	0-159	350-509	350	871.30	11		
125	0-201	410-611	410	994.10	28		
160	0-300	550-850	550	1334.15	40		

NEW Y4

Article no.
80 892 ...

£

1,255.56 51000

1,375.91 51100

1,890.78 51200

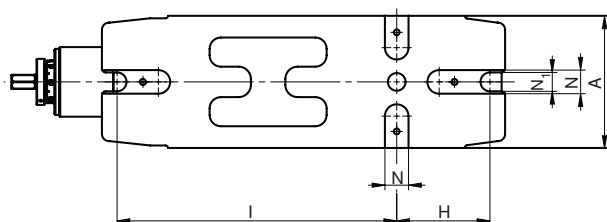
Shown with base body extension



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



Y4

Article no.
80 892 ...

£

for width
mm

100/125
160

386.79

314

419.91

315

Hand crank

▲ for fast adjustment

HDG
2



Y4

Article no.
80 892 ...

£

for width
mm

100/125
160

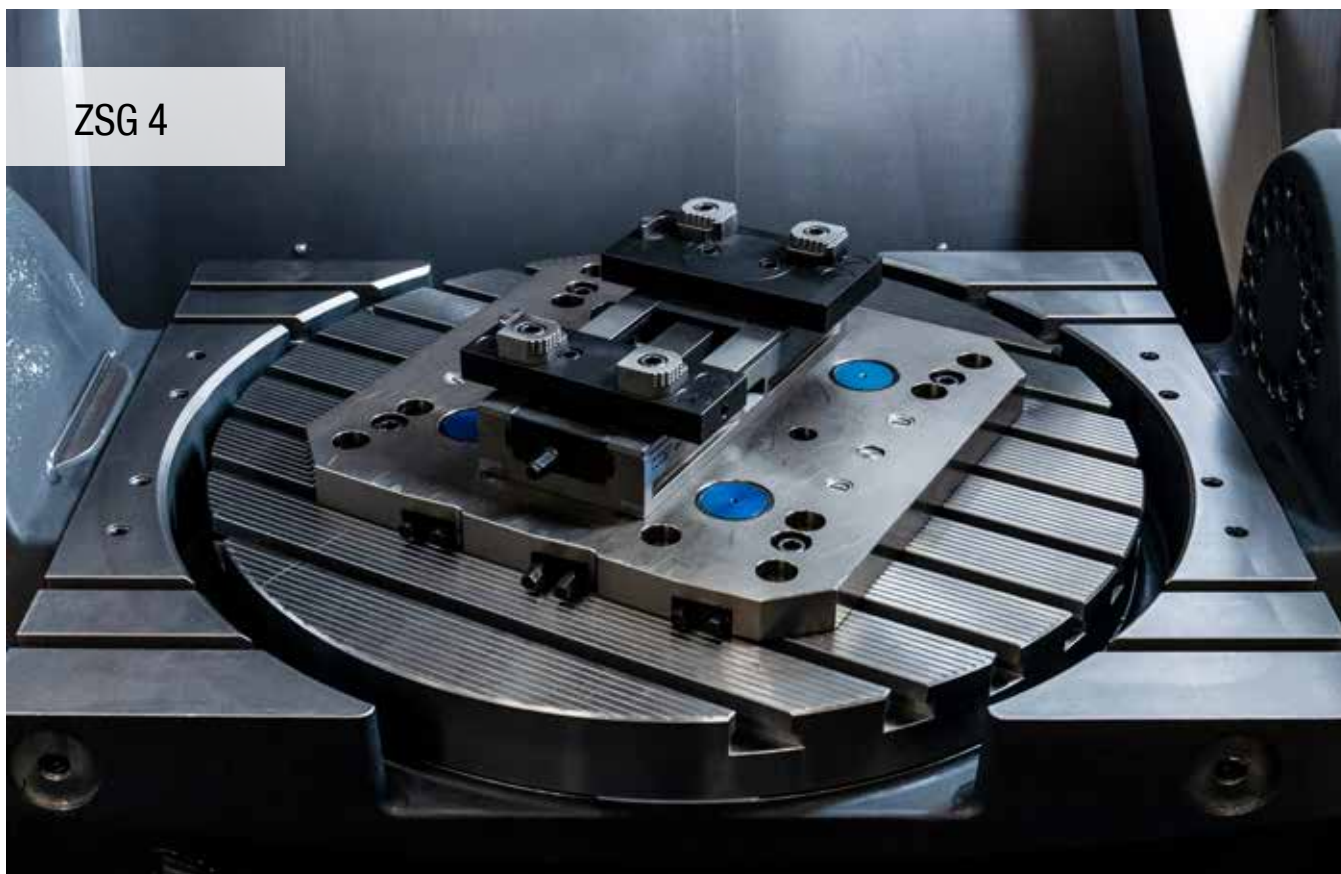
70.81

124

88.74

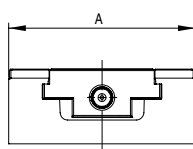
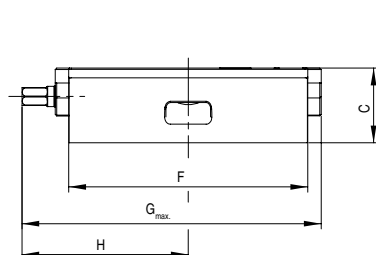
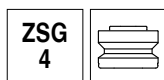
164

ZSG 4



Sealed Centric Vice

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



							Y4	
							Article no.	
							80 878 ...	
							£	
A	C ± 0.01	F	G _{max}	H	Clamping force			
mm	mm	mm	mm	mm	kN	kg		
80	50	130	157	81.0	25	3.0	627.68	081
80	50	190	206	104.0	25	4.5	738.20	08400
125	50	160	200	111.5	35	6.4	805.22	225
125	50	300	340	181.0	35	11.8	1,252.19	226
160	70	280	315	172.0	50	21.0	1,662.53	160
160	70	480	524	276.0	50	35.0	3,556.86	260

Vice guide

Underside Dimensions

43

System accessories

44-46

MNG/PNG zero point clamping system

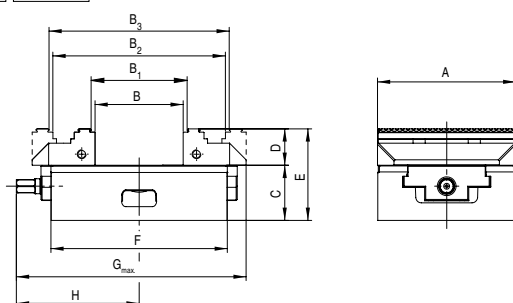
63-78

General accessories

91-103

Sealed Centric vice

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



Y4

Article no.
80 878 ...

£

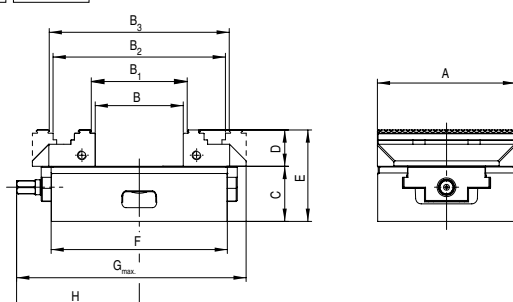
A mm	B mm	B ₁ mm	B ₂ mm	B ₃ mm	C mm	D mm	E mm	F mm	G _{max.} mm	H mm	Clamping force kN	kg	
80	0 - 59	4 - 63	59 - 117	63 - 121	50	28	78	130	157	81.0	25	4.0	881.29 080
80	0 - 123	4 - 127	59 - 181	63 - 185	50	28	78	190	206	104.0	25	5.5	986.34 08300
125	0 - 80	8 - 87	77 - 156	84 - 163	50	33	83	160	208	111.5	35	8.7	1,085.76 025
125	0 - 220	8 - 227	77 - 296	84 - 303	50	33	83	300	348	181.0	35	14.0	1,534.32 026



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



Y4

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	1,115.87 125



WNT MNG



Schunk VERO-S / WNT - PNG



Lang Quick Point 96 x 96



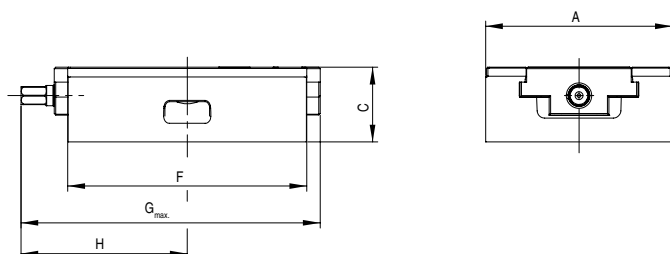
Lang Quick Point 52 x 52

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



A mm	C mm	F mm	G _{max} mm	H mm	Clamping force kN	kg
125	50	160	200	111.5	35	6.3

Y4
Article no.
80 878 ...
£
836.92 325



WNT MNG



Schunk VERO-S / WNT - PNG



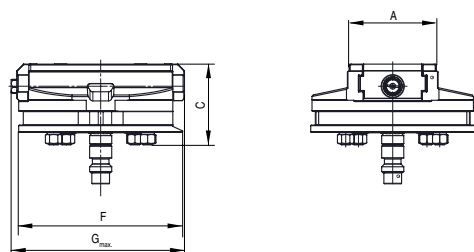
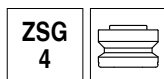
Lang Quick Point 96 x 96



Lang Quick Point 52 x 52

Sealed centric vice for Erowa ITS 148

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



A mm	C mm	F mm	G _{max} mm	Clamping force kN	kg
80	73	148	157	25	5.6

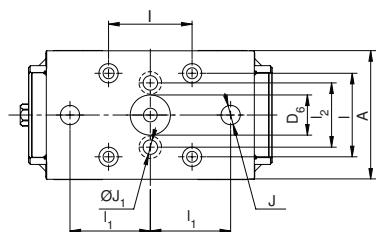
Y4
Article no.
80 878 ...
£
1,320.70 082

Vice guide

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

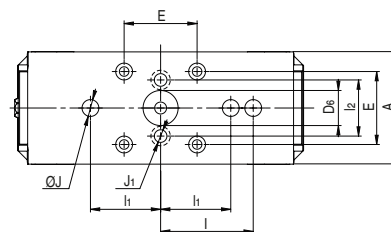
ZSG 4 underside dimensions

Base width 80 mm and 130 mm length



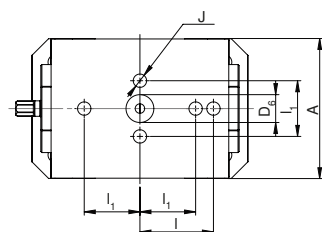
A	D ₆ H6	I ±0,015	I ₁ ±0,015	I ₂	J H7	J ₁
mm	mm	mm	mm	mm	mm	mm
80	25	52	50	40	12	9

Base width 80 mm and length 190 mm



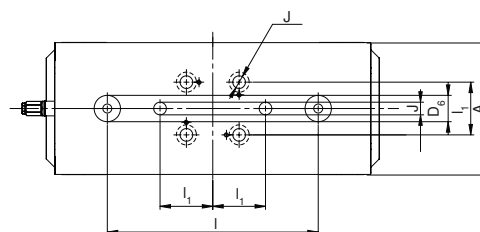
A	D ₆ H6	E ±0,015	I ₁ ±0,015	I ±0,015	J H7	J ₁	I ₂
mm	mm	mm	mm	mm	mm	mm	mm
80	25	52	50	66	12	9	40

Base width 125 mm and length 160 mm



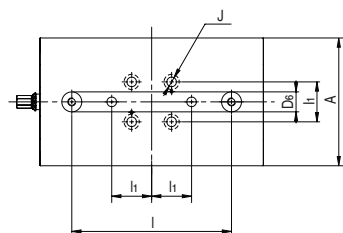
A	D ₆ H6	I ±0,015	I ₁ ±0,015	J H7
mm	mm	mm	mm	mm
125	25	66	50	12

Base width 125 mm and 300 mm length



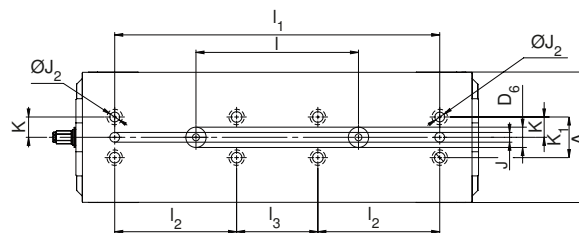
A	D ₆ H6	I ±0,015	I ₁ ±0,015	J H7
mm	mm	mm	mm	mm
125	25	200	50	12

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

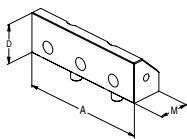


A	D ₆ H6	I ±0,015	I ₁ ±0,015	I ₂	I ₃	J H7	J ₂ F7	K ±0,02	K ₁
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
160	25	200	400	150	100	12	12	25	50

System jaws overview

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

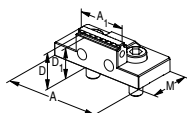
5-axis jaw, movable



▲ price per piece

						£	Y4		NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
	125		40		45.5	248.86	80 878 625										
	160		50		73	304.32	80 878 660							●			

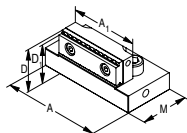
Indexable grip jaw 3 mm, width 40 mm, movable



▲ price per piece

						£	Y4		NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
80	80	40	28	25	40	202.89	80 878 840				●			●			

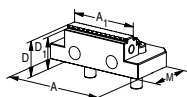
5-axis jaw, grip 3 mm, width 65 mm, movable



▲ price per piece

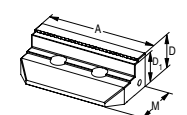
						£	Y4		NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
125	95	65.5	40	37	57	286.89	80 878 665							●			

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


 ▲ double sided grip step
 ▲ price per piece

						£	Y4		NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
125	95	65	33	30	57	215.57	80 878 565				●			●			

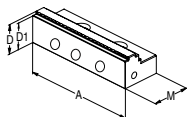
Indexable jaw, grip 3 mm, height 40 mm, smooth 18 mm, movable



▲ price per piece

						£	Y4		NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
	125		40	37	59	310.67	80 878 520							●			

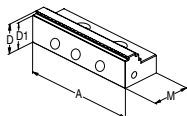
Indexable jaw, grip 3 mm, movable



▲ price per piece

						£	Y4		NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
	80		28	25	40	152.16	80 878 810				●			●			
	125		33	30	57	166.44	80 878 510				●			●		●	
	160		50	47	81	443.81	80 878 610				●			●			

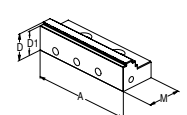
Indexable jaw, grip 5 mm, movable



▲ price per piece

						£	NEW Y4		NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
	80		28	23	41	176.18	80 878 81100							●			
	125		33	28	57	196.03	80 878 51100							●			

Indexable grip jaw, for aluminium and plastic



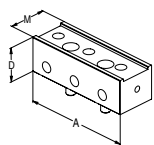
▲ price per piece

						£	NEW Y4		NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
	80		28	23	40	210.92	80 878 81200							●			
	125		33	28	57	230.77	80 878 51200							●			

System jaws overview

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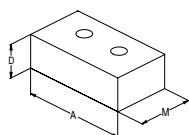
Combi jaw



▲ price per piece

							£	Y4	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
	125		40			45.5	191.79	80 878 530						●			

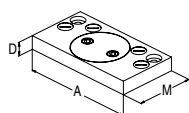
Alu jaw



▲ for producing shaped jaws
▲ price per piece

							£	Y4	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
	80		28			48	95.10	80 878 850			●			●		●	
	125		40			68	109.38	80 878 550			●			●		●	
	160		50			85	119.52	80 878 305			●			●			

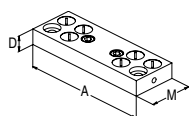
Pendulum jaw, movable



▲ price per piece

							£	Y4	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
80	125		19			76	450.16	80 878 870			●			●		●	
125	180		22			95	472.36	80 878 570			●			●		●	
160	256		22			170	798.87	80 878 670			●			●			

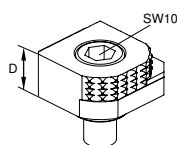
Adapter jaw



▲ price per piece

							£	Y4	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
80	125		19			39	329.70	80 878 890						●			
125	180		22			62	383.59	80 878 590						●			
160	256		22			125	532.56	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

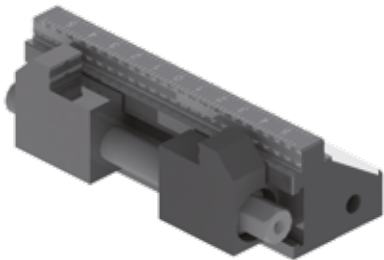
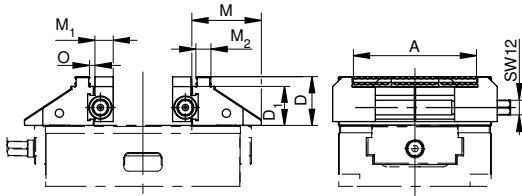
							£	Y4	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
			18				71.53	80 892 246	●	●	●	●	●	●		●	

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

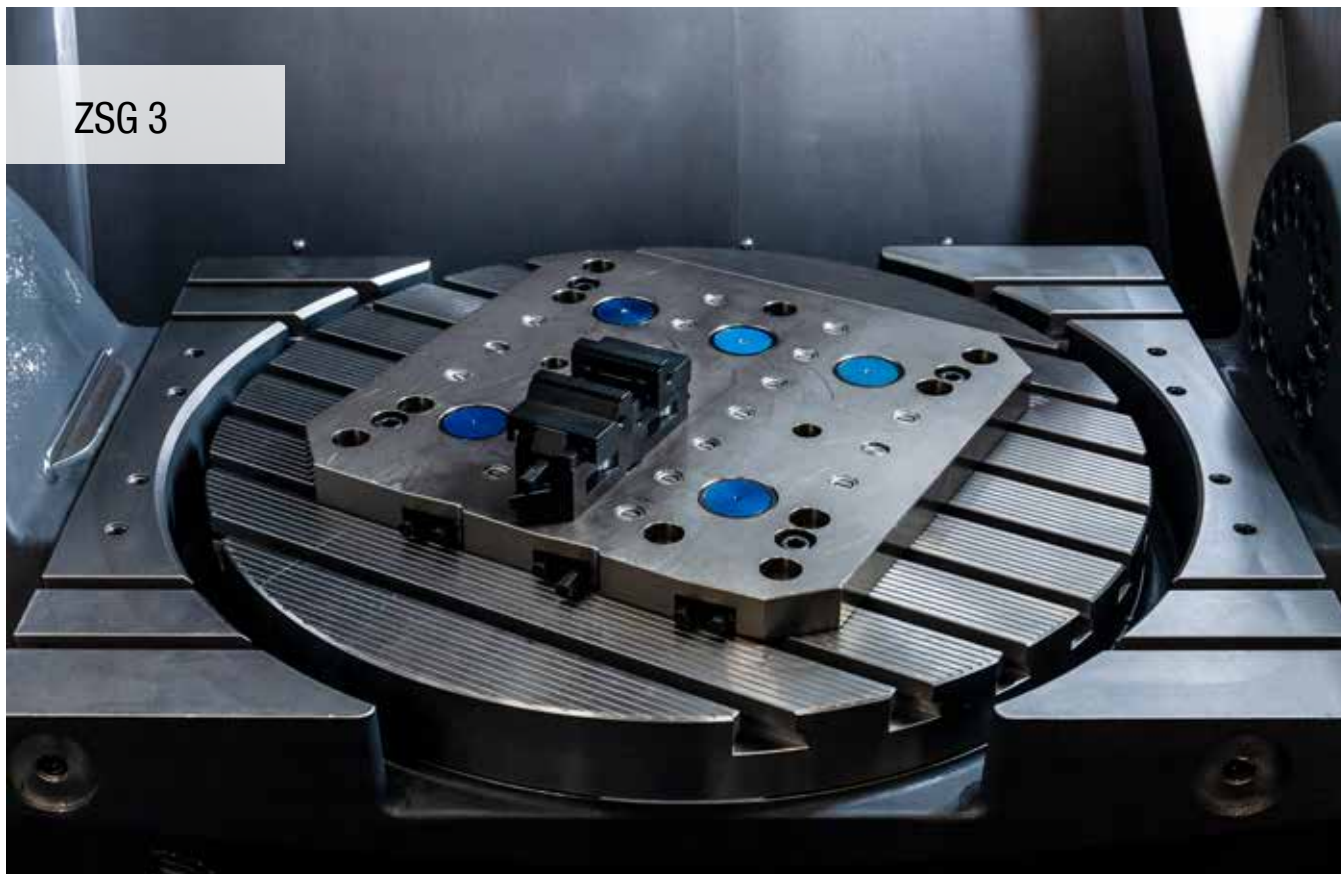
ZSG
4



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

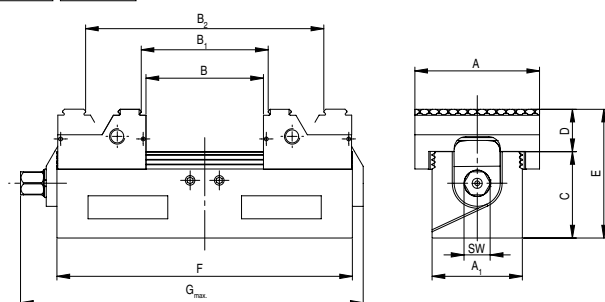
Y4
Article no.
80 878 ...
£
1,952.77 525

ZSG 3



Sealed small parts centric vice with grip jaws

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



A	A ₁	B	B ₁	B ₂	C	D	E	F	G _{max.}	SW	M _{max.}	Clamping force	kg
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	Nm	kN	
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

1) not standardised

Y4
Article no.
80 884 ...

£

556.35

781.54

040 ¹⁾

065

Vice guide

Underside Dimensions

49

System accessories

50

MNG/PNG zero point clamping system

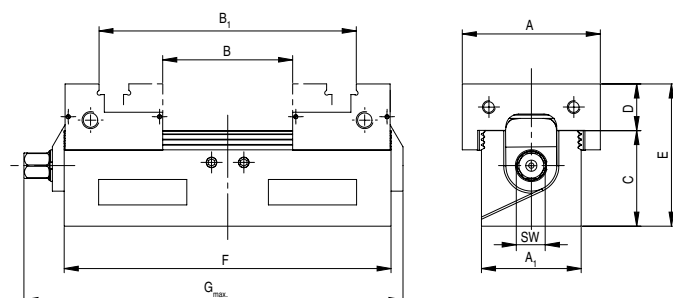
63-78

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

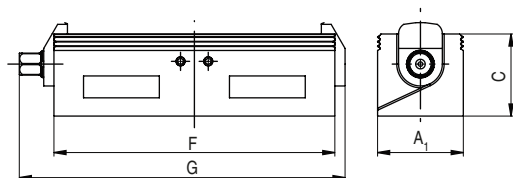
ZSG
3


													Y4	
													Article no.	
													80 884 ...	
A	A ₁	B	B ₁	C	D	E	F	G _{max}	SW	M _{max}	Clamping force	kg	£	
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	Nm	kN			
40	30	0-34	33-67	30	16	46	89	106.0	7	20	7	0.8	724.58	041 ¹⁾
65	47	0-60	61-120	45	22	67	154	178.5	12	50	15	2.9	955.07	066

1) not standardised

Sealed small parts centric vice

- ▲ without jaws

ZSG
3


								Y4	
								Article no.	
								80 884 ...	
A ₁	C	F	G _{max}	SW	M _{max}	Clamping force	kg	£	
mm	mm	mm	mm	mm	Nm	kN			
30	30	89	106.0	7	20	7	0.6	450.16	140 ¹⁾
47	45	154	178.5	12	50	15	2.1	653.04	165

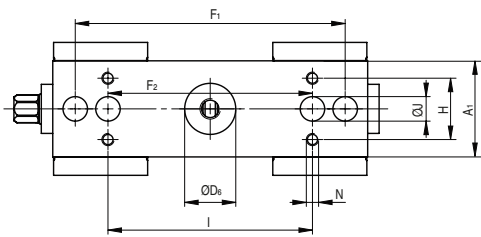
1) not standardised

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



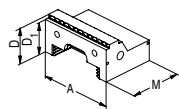
A ₁ mm	D ₆ H7 mm	F ₁ ±0,015 mm	F ₂ ±0,015 mm	H mm	I mm	J H7 mm	N
30			60	20	60	8	M6
47	25	132	100	30	100	12	M6

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
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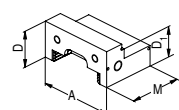
Reversible jaw, grip



▲ price per piece

							£	Y4	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
	40		25	23	29		100.67	80 884 300									
	65		31.5	29	46		123.19	80 884 350							●		

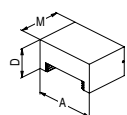
Reversible jaw with ground step



▲ price per piece

							£	Y4	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
	40		25	20	29		157.64	80 884 310							●		
	65		31.5	26	46		180.15	80 884 360							●		

Soft steel jaw

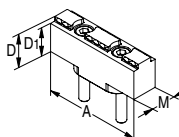


▲ for production of formed jaws

▲ price per piece

							£	Y4	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
	40		25		28		78.16	80 884 320							●		
	65		31.5		46		83.32	80 884 370							●		

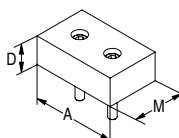
Centre jaw, grip



▲ price per piece

							£	Y4	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
	65		22	19	16.6		114.12	80 884 380							●		

Centre Jaw, soft



▲ price per piece

							£	Y4	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
	65		22		40		101.44	80 884 390							●		

Workpiece stop

ZSG
3

Y4

Article no.
80 884 ...£
40.35

400

Type

ZSG3-40mm

Clamping claw

▲ price for 2 pieces

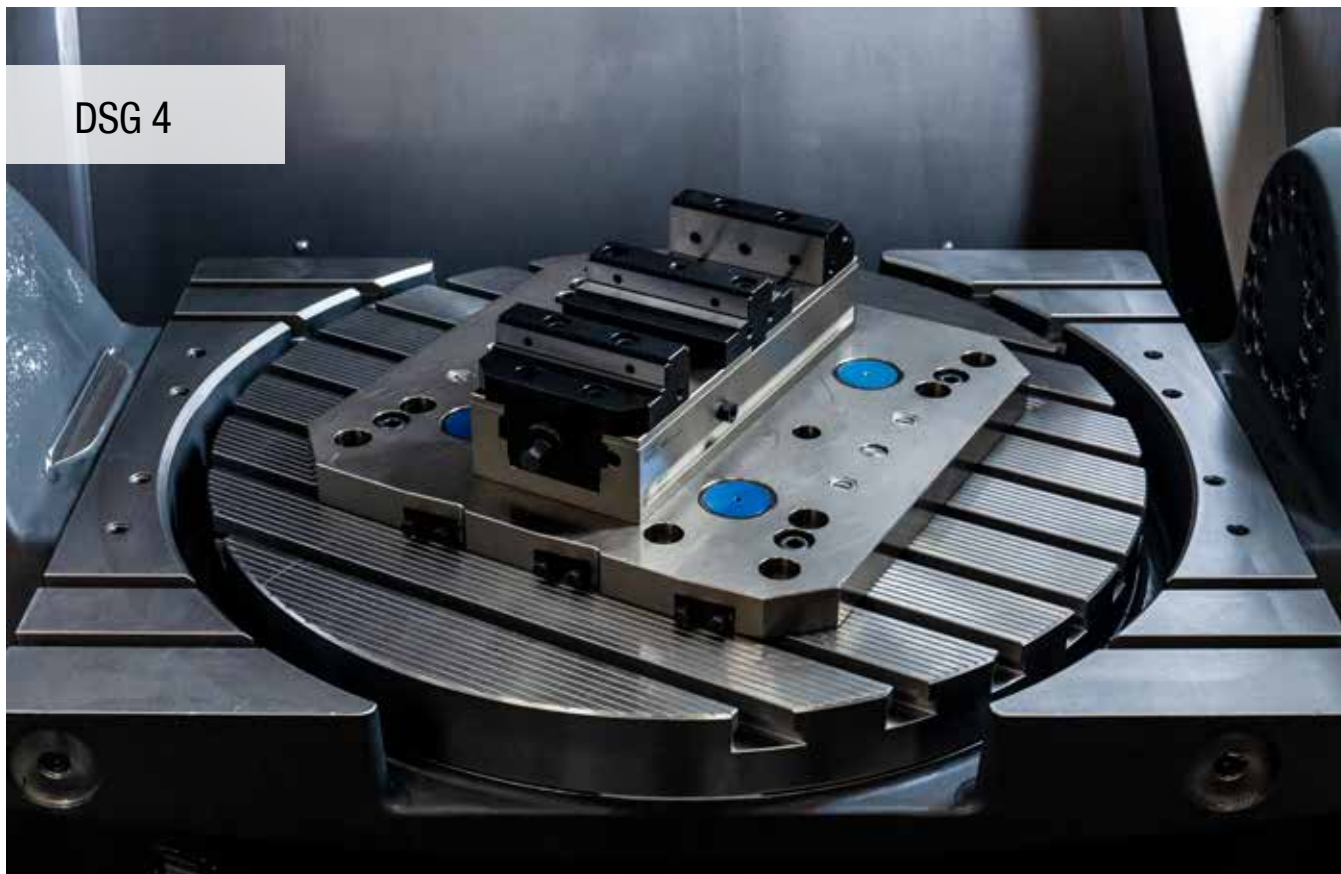
ZSG
3

Y4

Article no.
80 884 ...£
37.76

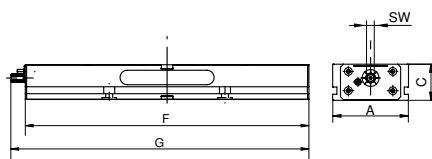
440

DSG 4



Double vice without jaws

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



								Y4	
								Article no.	
								80 906 ...	
								£	
A	C	F	G	SW	M _{max.}	Clamping force	kg		
mm	mm	mm	mm	mm	Nm	kN			
80	55	300	308	12	90	0 - 25	8	1,503.00	080
125	60	320	347	14	100	0 - 40	14	1,779.81	125
125	60	390	417	14	100	0 - 40	17	2,264.23	12700
125	60	460	487	14	100	0 - 40	20	2,548.34	12800
125	60	530	557	14	100	0 - 40	24	2,776.63	12900
125	60	600	627	14	100	0 - 40	27	3,002.43	13000
125	60	670	697	14	100	0 - 40	30	3,143.87	13100
125	60	740	767	14	100	0 - 40	34	2,855.70	126

Vice guide

'Third hand' operation

53

System accessories

52+53

MNG/PNG zero point clamping system

63-78

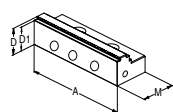
General accessories

91-103

System jaws overview

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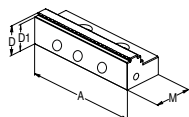
Indexable grip jaw, 3 mm, movable



▲ price per piece

							£	Y4	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
125			40	37	66		217.53	80 901 303			●					●	

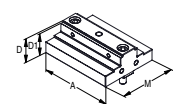
Indexable grip jaw, 3 mm, movable



▲ price per piece

							£	Y4	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
80			28	25	40		152.16	80 878 810			●			●		●	

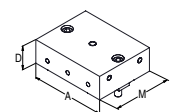
Centre jaw, grip



▲ price per piece

							£	Y4	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
80			28	25	72		268.16	80 906 300								●	
125			40	37	98		350.34	80 906 304								●	

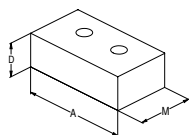
Centre jaw, smooth



▲ price per piece

							£	Y4	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
80			28		72		205.45	80 906 301								●	
125			40		98		306.01	80 906 305								●	

Alu jaw

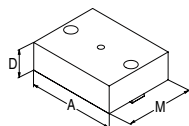


▲ for producing shaped jaws

▲ price per piece

							£	Y4	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
80			28		48		95.10	80 878 850			●			●		●	
125			40		68		109.38	80 878 550			●			●		●	

Centre jaw, Alu

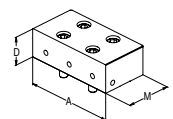


▲ for producing shaped jaws

▲ price per piece

							£	Y4	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
80			28		72		75.69	80 906 302								●	
125			40		98		100.56	80 906 306								●	

Block jaw, movable



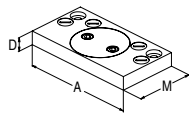
▲ price per piece

							£	NEW Y4	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
80			28		40		269.22	80 901 31300			●			●		●	
125			40		66		378.40	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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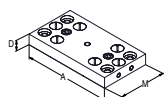
Pendulum jaw, movable



▲ price per piece

						£	Y4	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
80	125		19		76	450.16	80 878 870			●			●		●	
125	180		22		95	472.36	80 878 570			●			●		●	

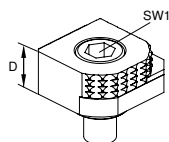
Centre jaw adapter plate, fixed



▲ price per piece

						£	Y4	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
80	125		19		72	281.14	80 906 303								●	
125	180		22		98	334.12	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

						£	Y4	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
			18			71.53	80 892 246	●	●	●	●		●		●	

Plastic protection plugs

DSG
4



Y4

Article no.
80 906 ...

£

1.30 500

G

M10x12

'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.

MSG 2

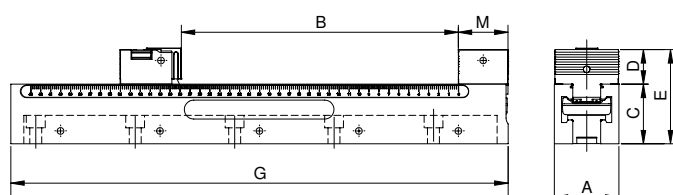


Multiple clamping base body 65 mm

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

Scope of supply:

body without jaws

MSG
2

										Y4	
										Article no.	
										80 887 ...	
										£	
A	B	C _{-0,01}	D	E	G	M	Clamping force				
mm	mm	mm	mm	mm	mm	mm	kN	kg			
65	7 - 108	60	34.8	94.8	220	50	0 - 50	4.1		806.68	226
65	7 - 208	60	34.8	94.8	320	50	0 - 50	5.7		917.67	326
65	7 - 288	60	34.8	94.8	400	50	0 - 50	7.3		1,085.46	406
65	7 - 388	60	34.8	94.8	500	50	0 - 50	9.2		1,218.41	506
65	7 - 538	60	34.8	94.8	650	50	0 - 50	11.8		1,715.32	656

Vice guide

Underside Dimensions

56

Structural dimension tables for the different jaws

57

System accessories

58-60

General accessories

91-103

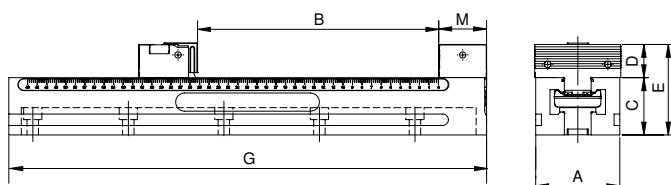
Multiple clamping base body 90 mm

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

Scope of supply:

body without jaws

MSG
2

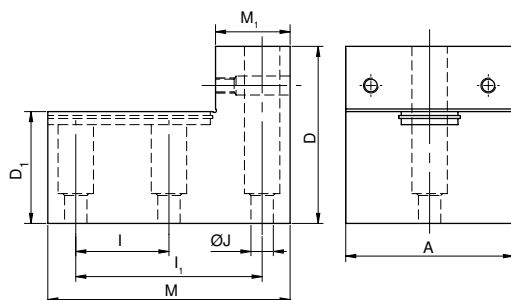


									Y4	
									Article no.	
									80 887 ...	
									£	
A	B	C	D	E	G	M	Clamping force			
mm	mm	-0,01 mm	mm	mm	mm	mm	kN	kg		
90	7-288	60	34.8	94.8	400	50	0 - 50	10.5	1,193.87	409
90	7-388	60	34.8	94.8	500	50	0 - 50	13.2	1,364.25	509
90	7-488	60	34.8	94.8	600	50	0 - 50	15.9	1,541.09	609
90	7-538	60	34.8	94.8	650	50	0 - 50	16.9	1,715.32	659

Stop jaw, fixed

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

MSG
2



								Y4	
								Article no.	
								80 888 ...	
								£	
A	D	D1	I	I1	J	M	M1		
mm	mm	mm	±0,015 mm	±0,015 mm	F7 mm	mm	mm		
65	95	60	50	100	12	130	40	547.25	655
90	95	60	50	100	12	130	40	602.74	905

Vice guide

Underside Dimensions

56

Structural dimension tables for the different jaws

57

System accessories

58-60

General accessories

91-103

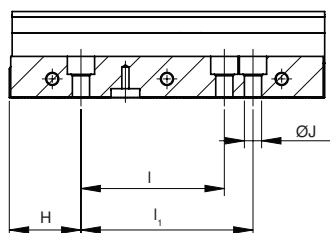


MSG 2 – Fast setup and easy clamping for large workpieces

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.

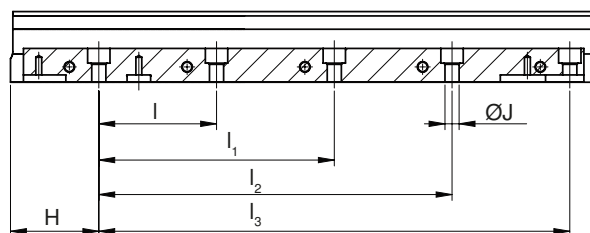
MSG 2 underside dimensions

Base width 65 mm and length 220 mm



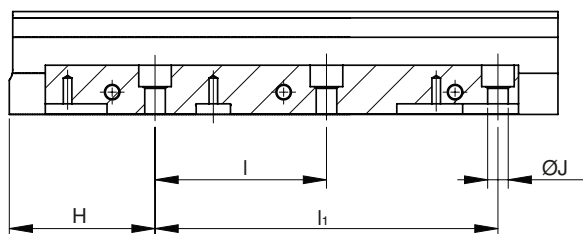
H $\pm 0,02$ mm	l $\pm 0,02$ mm	l ₁ $\pm 0,02$ mm	J F7 mm
50	100	120	12

Base width 65 mm and 90 mm, length 500 mm



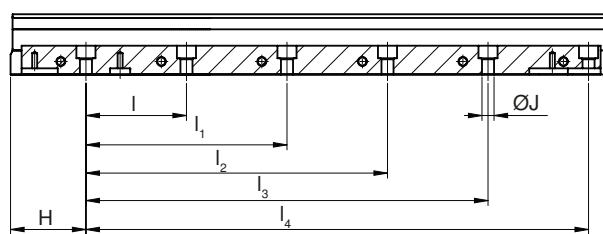
H $\pm 0,02$ mm	l $\pm 0,02$ mm	l ₁ $\pm 0,02$ mm	l ₂ $\pm 0,02$ mm	l ₃ $\pm 0,02$ mm	J F7 mm
75	100	200	300	400	12

Base width 65 mm and length 320 mm



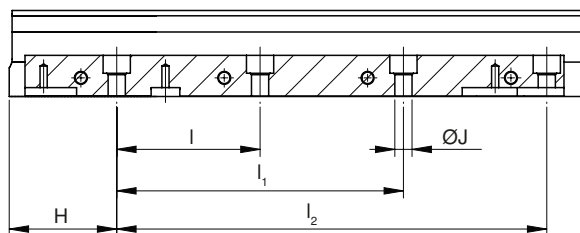
H $\pm 0,02$ mm	l $\pm 0,02$ mm	l ₁ $\pm 0,02$ mm	J F7 mm
85	100	200	12

Base width 90 mm and length 600 mm



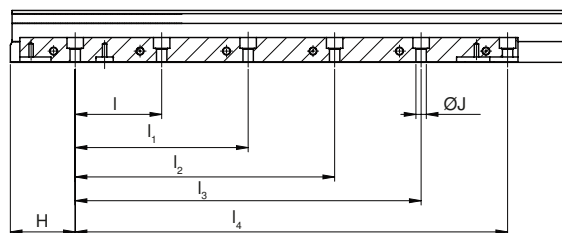
H $\pm 0,02$ mm	l $\pm 0,02$ mm	l ₁ $\pm 0,02$ mm	l ₂ $\pm 0,02$ mm	l ₃ $\pm 0,02$ mm	l ₄ $\pm 0,02$ mm	J F7 mm
75	100	200	300	400	500	12

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

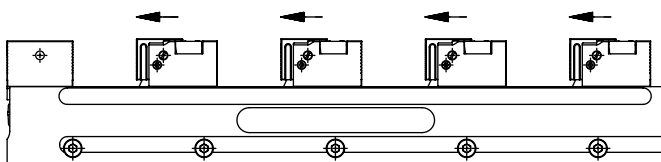


H $\pm 0,02$ mm	l $\pm 0,02$ mm	l ₁ $\pm 0,02$ mm	l ₂ $\pm 0,02$ mm	l ₃ $\pm 0,02$ mm	l ₄ $\pm 0,02$ mm	J F7 mm
75	100	200	300	400	500	12

MSG 2 structural dimension table for the different jaws

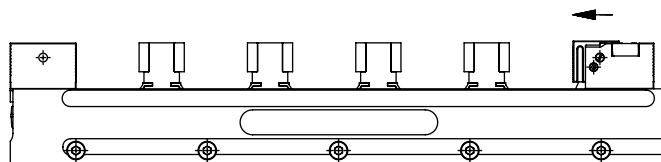
The spans are valid for use when using adjustment jaws without jaws and can therefore be reduced depending on the application.

Clamping with fixed and adjustable jaws



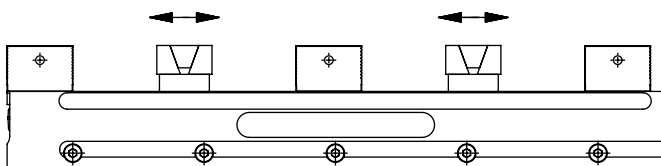
MSG 2	Standard multiple vice range							
	1	2	3	4	5	6	7	8
220	108	23						
320	208	73	28	5				
400	288	113	54	25	8			
500	388	163	88	50	28	13		
600	488	213	121	75	48	29	16	
650	538	238	138	88	58	38	23	

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



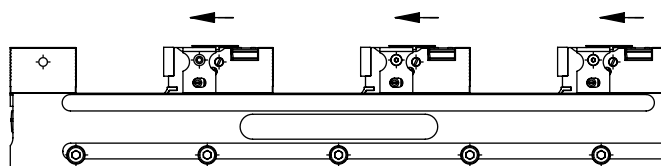
MSG 2	Standard multiple vice range									
	1	2	3	4	5	6	7	8	9	10
220	108	36	12							
320	208	87	45	25	13	5				
400	288	126	72	45	29	18	11	5		
500	388	176	106	70	49	35	25	17	11	7
600	488	226	139	95	69	52	39	30	23	17
650	538	251	155	108	79	60	46	36	28	22

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

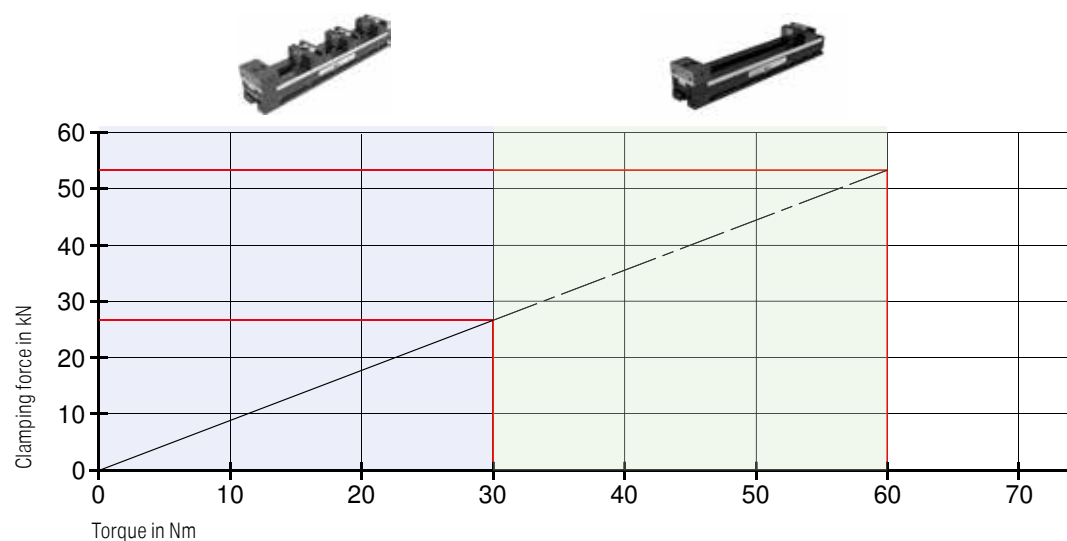
Clamping with fixed, adjustable and base jaws with guide



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



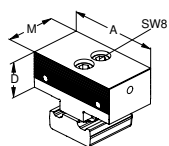
Maximum clamping force with **Multi vice**
for MSG 2 40, 60 and 90 mm.
27 kN per tie point corresponding to 30 Nm tightening force.

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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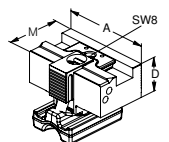
Reversible jaw set, short



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

						£	Y4		NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
40		34.8		50		271.56	80 888 401										●
65		34.8		50		271.56	80 888 651										●
90		34.8		50		294.07	80 888 901										●

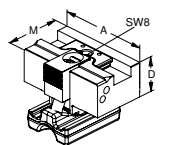
Reversible adjustable jaw profiled



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

						£	Y4		NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
40		34.8		61.5		376.21	80 888 403										●
65		34.8		61.5		376.21	80 888 653										●
90		34.8		61.5		409.32	80 888 903										●

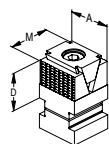
Reversible adjustable jaw with a pyramid profile



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

						£	Y4		NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
40		34.8		61.5		430.51	80 888 404										●
65		34.8		61.5		430.51	80 888 654										●
90		34.8		61.5		463.62	80 888 904										●

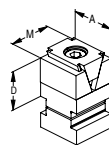
Wedge jaw



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

						£	Y4		NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
40		35		40		184.12	80 888 408										●

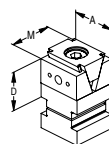
Wedge jaw



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

						£	Y4		NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
40		35		40		184.12	80 888 405										●

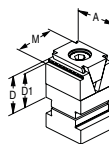
Wedge jaw



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

						£	Y4		NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
40		35		40		184.12	80 888 407										●

Wedge grip jaw, 3 mm



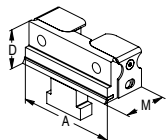
- ▲ including support and clamp
- ▲ price per piece

						£	Y4		NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
40		35	32	40		209.68	80 888 51000	NEW									●

System jaws overview

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

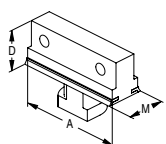
Top jaw with guide



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

						£	Y4		NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
	40		34.8			39	144.40	80 888 406									●
	65		34.8			39	144.40	80 888 656									●
	90		34.8			39	157.53	80 888 906									●

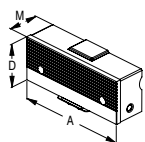
Central jaw for clamping multiples and single piece machining



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

						£	Y4		NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
	65		35			27	135.11	80 888 658									●
	90		35			27	152.33	80 888 908									●

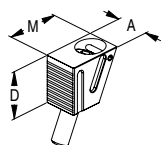
Top jaw with spring



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

						£	Y4		NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2
	65	66		35.8		26	119.22	80 888 607									●
	90	92		35.8		26	121.09	80 888 907									●

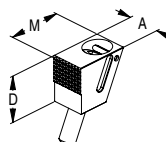
Jaw, narrow profiled



- ▲ price per piece

						£	Y4		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	111.27	80 888 002										●

Jaw, narrow with pyramid profile



- ▲ price per piece

						£	Y4		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	162.94	80 888 004										●

System accessories overview

Joint

▲ to connect 2 basic bodies

MSG
2Y4
Article no.
80 889 ...£
70.81 002

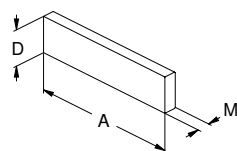
Adjustable stop with basic body

▲ for vibration damping

MSG
2NEW Y4
Article no.
80 888 ...£
266.74 51100

Cover

▲ stainless steel, cut to size

MSG
2Y4
Article no.
80 889 ...£
8.72 001

A mm	D mm	M mm
440	32	0.7

Support

▲ for vibration damping

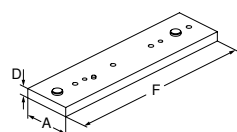
MSG
2NEW Y4
Article no.
80 888 ...£
65.76 51200
65.76 51300

H mm
9 - 25
14 - 30

MNG-Adapter plate for MSG 2

Scope of supply:

plate including mounting accessories

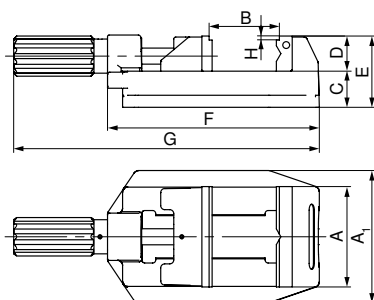
MSG
2Y4
Article no.
80 887 ...£
618.61 400
694.12 500
772.27 600
810.68 650

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



Y4

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

239.75

080

262.28

100

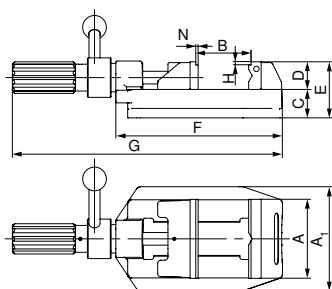
438.45

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



Y4

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

426.52

101

610.66

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



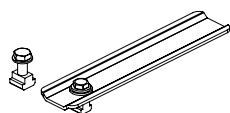
for width
mm
80/100/125

Y4
Article no.
80 893 ...
£
40.35 265

Guide rail

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

HSG



for width
mm
80/100/125

Y4
Article no.
80 893 ...
£
43.71 260

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.

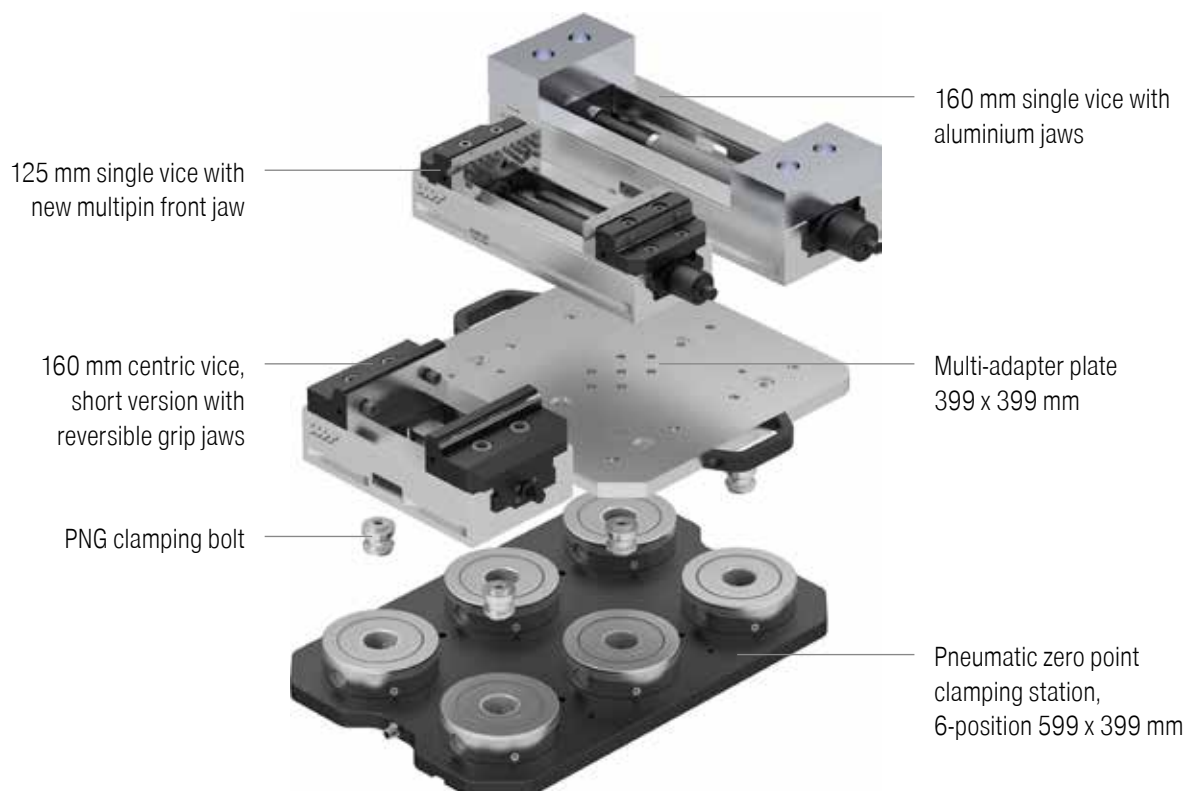
HSG



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

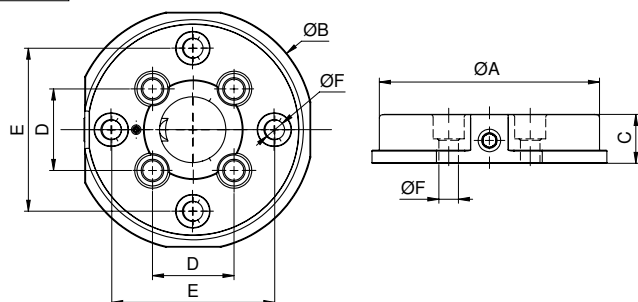
Y4
Article no.
80 893 ...
£
113.92 250

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


A mm	B mm	C _{+0,005} mm	D mm	E mm	F _{H7} mm	kg
135	148	30	50	100	12	3.5

Y4
Article no.
80 899 ...
£
498.16 125

Vice guide

System accessories

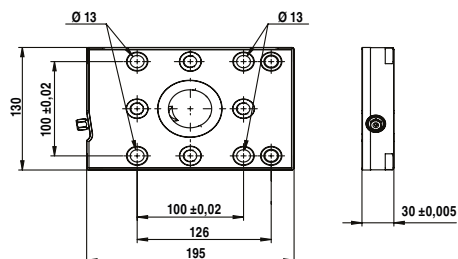
73+74 General accessories

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 Y4

Article no.
80 899 ...

£

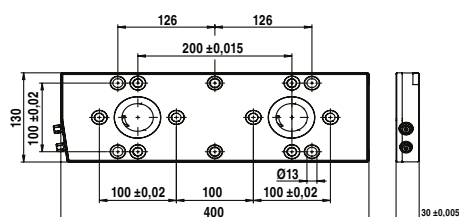
763.02 65000

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 Y4

Article no.
80 899 ...

£

1,569.45 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): 252, 200 ± 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.
- Right edge dimensions (from top to bottom): 30 ± 0.005 .
- Internal dimensions and tolerances: 50 ± 0.005 ± 0.01 (twice).
- Feature dimensions: $\varnothing 13$ (twice), 252 (twice), 200 ± 0.02 (twice), 126 (twice), 100 (twice), 50 ± 0.01 (twice), 0 (center), 50 ± 0.01 (twice), 100 ± 0.015 (twice), 126 (twice).



NEW Y4
Article no.
80 899 ...
£
2.543.38 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.



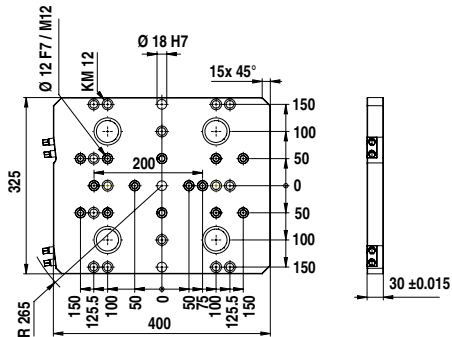
Y4	
Article no.	
80 899 ...	
£	
2,269.77	230

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 Y4

Article no.
80 899 ...

£

3,571.89 63000¹⁾

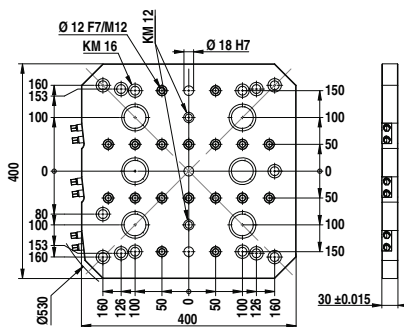
Size mm	kg
325x400	27

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 Y4

Article no.
80 899 ...

£

4,457.73 63100¹⁾

Size mm	kg
400x400	31

1) Not ex-stock

Vice guide

System accessories

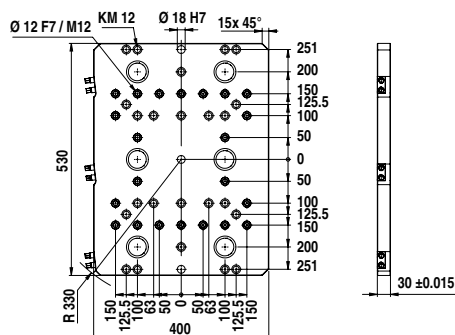
73+74 General accessories

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 Y4

Article no.

80 899 ...

£

5,310.08 63200¹⁾

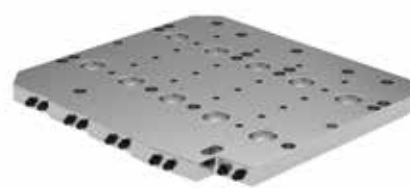
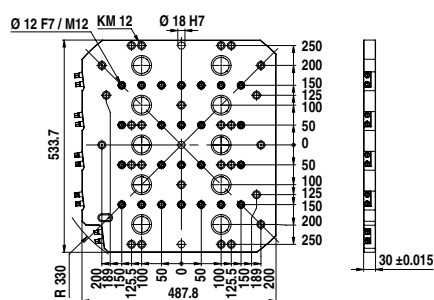
Size mm	kg
400x530	44

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 Y4

Article no.

80 899 ...

£

7,533.36 63300¹⁾

Size mm	kg
488x534	51

1) Not ex-stock

Vice guide

System accessories

73+74 General accessories

91-103

Alignment Pin

MNG



Y4

Article no.
80 899 ...

D ₁ n6 mm	D ₂ h6 mm	£	
18	14	28.11	607
18	18	35.68	608
18	20	36.76	609
18	22	37.85	610

Centering Pin

MNG



Y4

Article no.
80 899 ...

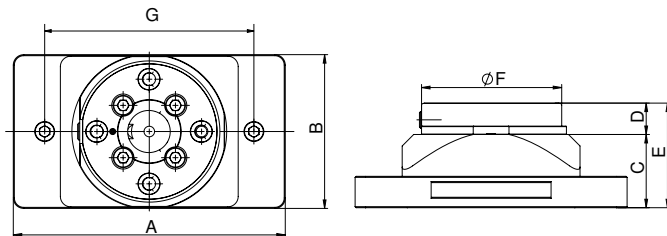
D ₁ n6 mm	D ₂ h6 mm	£	
18	30	52.98	602
18	32	38.93	603
18	50	36.76	604

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



A mm	B mm	C mm	D mm	E mm	F mm	G mm	kg
260	147	70	30	100	135	200	8.9

Y4

Article no.
80 899 ...

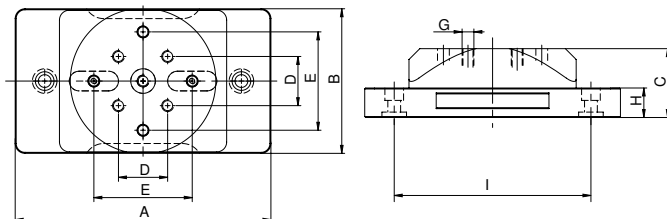
£

935.29

425

Console

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



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

Y4

Article no.
80 899 ...

£

443.76

420

Vice guide

System accessories

73+74 General accessories

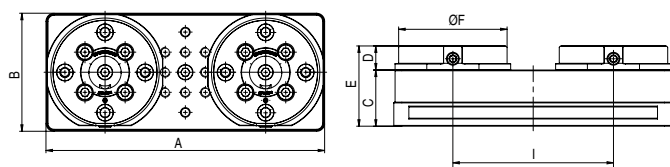
91-103

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

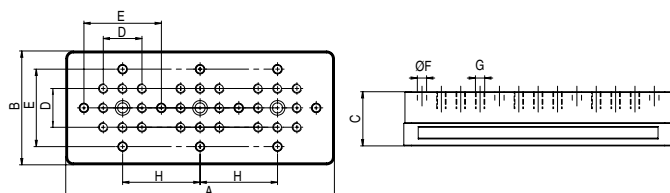


A mm	B mm	C mm	D mm	E mm	F mm	I mm	kg
347	147	70	30	100	135	200	16.5

Y4
Article no. 80 899 ...
£ 1,674.38
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

Y4
Article no. 80 899 ...
£ 760.83
430

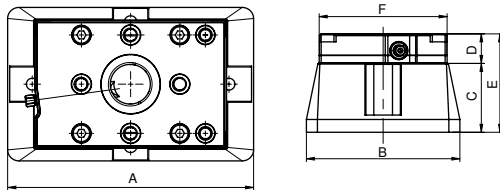
Vice guide

System accessories

73+74 General accessories

91-103

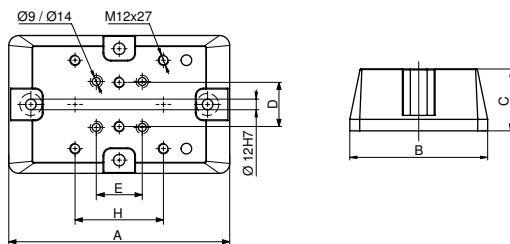
Console with zero point clamping module



NEW Y4
Article no.
80 878 ...
£
1,377.15 54000

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

Console



NEW Y4
Article no.
80 878 ...
£
614.13 54100

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

Assembly set for console



NEW Y4
Article no.
80 878 ...
£
12.41 54200

For type

ZSG-4.80.L130-L190

Vice guide

System accessories

73+74 General accessories

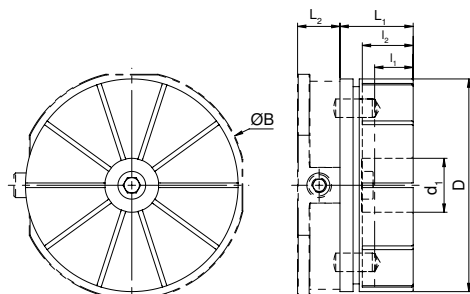
91-103

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



B mm	D mm	d ₁ mm	l ₁ mm	l ₂ mm	L ₁ mm	L ₂ mm
148	138	35	22	33	47.5	27.5

Y4

Article no.

80 899 ...

£

186.77

500



Machineable Alu chuck to suit
round MNG



Machineable Alu chuck to suit
round MNG with clamped workpiece

Available on request



Grid plate



Blank plate

i The maximum cutting depth l_1 is 22 mm

Adjustable ring for MNG form collet

MNG



Y4

Article no.

80 899 ...

£

56.10

510

Vice guide

System accessories

73+74 General accessories

91-103

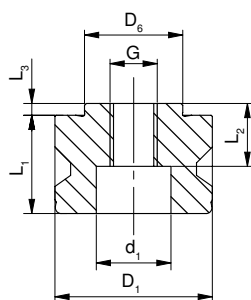
MNG pull studs

▲ centering stud Ø 25 H7

Scope of supply:

without mounting screws

MNG



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

Y4
Article no.
80 899 ...
£
41.57 025

Bungs

MNG



D ₁ mm
40

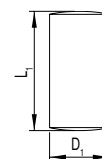
Y4
Article no.
80 899 ...
£
12.22 040

MNG Dowel Set

▲ for ESG mini 4V tower and direct workpiece clamping

▲ price per 2 Pieces

MNG



D ₁ h6 mm	L ₁ mm
12	24

Y4
Article no.
80 899 ...
£
2.60 120

Sealing plug with O-ring

MNG



G
M12

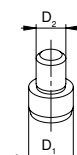
Y4
Article no.
80 899 ...
£
2.60 126

MNG positioning pin set

▲ for ESG mini and direct workpiece clamping

▲ price per 2 Pieces

MNG

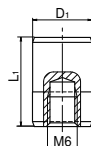


for width mm	D ₁ mm	D ₂ mm
65	12	8

Y4
Article no.
80 899 ...
£
30.48 128

MNG indexing bolt

MNG



NEW Y4

Article no.

80 899 ...

£

18.50 51500

D ₁ mm	L ₁ mm
12	18

Clamping Screw Set for T-slot for MNG

▲ price for 2 pieces

MNG



NEW Y4

Article no.

80 899 ...

£

for width mm	G		
12	M8	21.09	63800
12	M10	12.41	63400
14	M8	21.09	63900
14	M12	14.89	63500
15	M12	14.89	63700
16	M8	21.09	64000
16	M12	14.89	63600
18	M8	21.09	64100

Clamping set for 14 mm T-slot

▲ T-nuts are modified for 63 mm slot pitch

▲ price per 2 Pieces

MNG



Y4

Article no.

80 899 ...

£

87.98 614

for width mm	Slot spacing mm
14	63

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



Y4

Article no.

80 899 ...

£

G mm	for width mm		
50	12	64.91	012 ¹⁾
50	14	64.91	014
50	16	64.91	016
50	18	64.91	018
100	12	99.26	81200
100	14	99.26	81400
100	16	99.26	81600
100	18	99.26	81800

1) for 12mm width excluding clamping strip

Round claw

▲ for MNG clamping system

▲ price includes 2 pieces

MNG



Y4

Article no.

80 899 ...

£

74.18 300

Replacement clamping unit

▲ 3-Piece Set

MNG



Y4

Article no.

80 899 ...

£

62.25 026

Type		
MNG rund	62.25	026

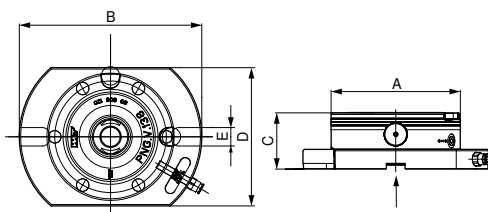
1-position clamping station

- ▲ 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



A mm	B mm	C _{±0,005} mm	D mm	E _{H5} mm	kg
138	198	60	150	20	6.9

Y4
Article no.
80 809 ...
£
1,010.59 010

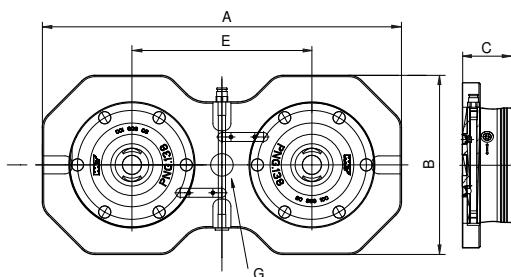
2-position clamping station, 399 x 199 mm

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

Scope of supply:

including 4 clamps

PNG



A mm	B mm	C mm	E mm	G _{H7} mm	kg
399	199	60	200	25	16.5

Y4
Article no.
80 809 ...
£
2,102.86 020

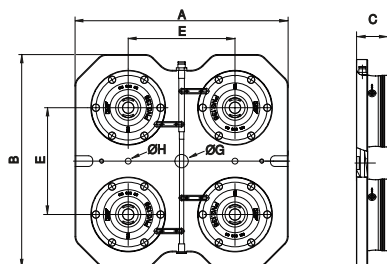
4-position clamping station, 399 x 399 mm

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

Scope of supply:

including 4 clamps

PNG



A mm	B mm	C mm	E mm	G _{H7} mm	H mm	kg
399	399	60	200	25	11	34.8

Y4
Article no.
80 809 ...
£
4,069.19 040

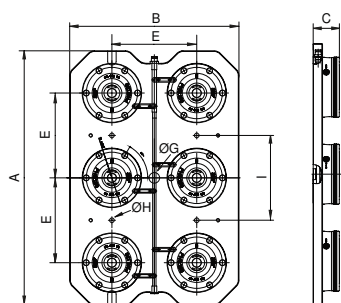
6-position clamping station, 599 x 399 mm

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

Scope of supply:

including 6 clamps

PNG



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

Y4
Article no.
80 809 ...
£
5,639.35 060

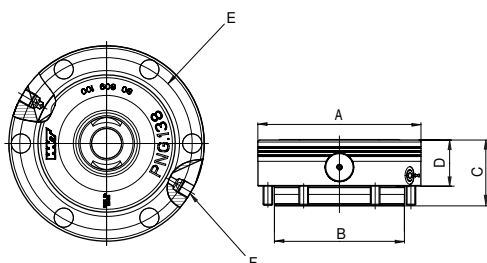
Zero point clamping module PNG.SM.138

- ▲ 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



A	B	C	D	E	F	
mm	mm	mm	mm	mm	inch	kg
138	110	56	39	121	1/8	4.4

Y4
Article no.
80 809 ...
£
809.14 100

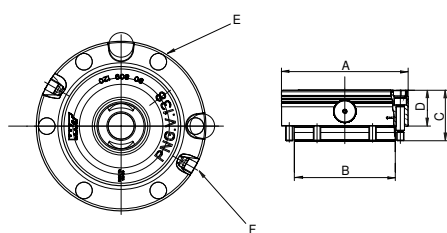
Zero point clamping module PNG.SM.V.138

- ▲ 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



A	B	C	D	E	F	
mm	mm	mm	mm	mm	inch	kg
138	110	56	39	121	1/8	4.4

Y4
Article no.
80 809 ...
£
877.40 120

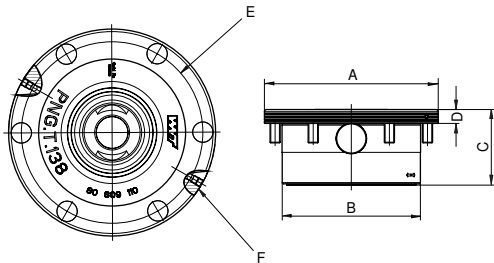
Zero point clamping system PNG.SM.T.138

- ▲ 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



A mm	B mm	C mm	D mm	E mm	F inch	kg
138	110	60	11	121	1/8	3.7

Y4
Article no. 80 809 ...
£
877.40 110

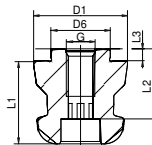
PNG clamping bolt

- ▲ 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

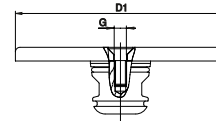
PNG



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	50.37	070	
PB	25	40	35	27	5	M12	61.56	071	
HB	25	40	35	27	5	M12	45.89	072	

PNG protective cover

PNG

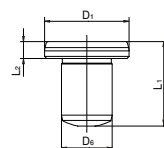


D ₁ mm	G
138	M8

Y4
Article no. 80 809 ...
£
76.10 074

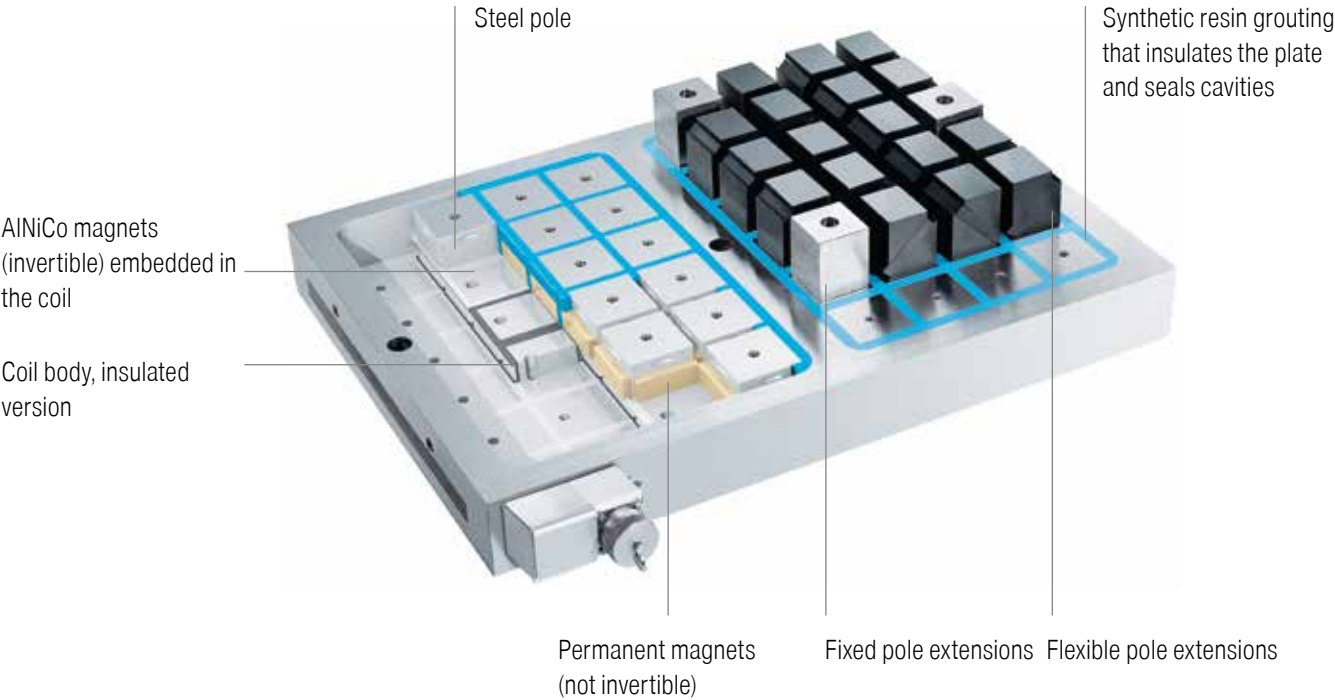
PNG indexing bolt

PNG



D ₁ h5 mm	L ₁ mm	L ₂ mm	D ₆ m6 mm	Article no. 80 809 ...	£	
20	20	4	12	41.41	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 ... £ 4,663.46	Y4 010
315x315	16	62.8		

i Maximum clamping force specified covers all poles

Magnetic chuck set 2, 430 x 315 mm

Scope of supply:
magnetic chuck MST-P 430x315 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.
430x315	24	94.2	80 808 ...
			£ 5,388.67
			Y4 020

i Maximum clamping force specified covers all poles

Magnetic chuck set 3, 430 x 430 mm

Scope of supply:
magnetic chuck MST-P 430x430 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.
430x430	36	141.3	80 808 ...
			£ 6,593.97
			Y4 030

i Maximum clamping force specified covers all poles

Magnetic chuck set 4, 600 x 430 mm

Scope of supply:

magnetic chuck MST-P 600 x 430 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

Size mm	Number of poles	Clamping force kN	Y4 Article no. 80 808 ... £ 8,346.54	040
600x430	48	188.4		

i Maximum clamping force specified covers all poles

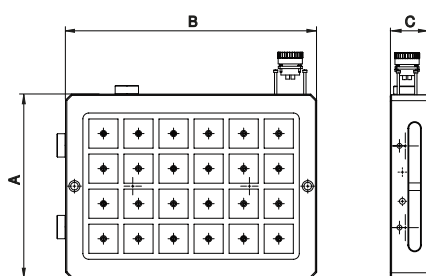
MST-P magnetic chucks

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

Scope of supply:

including fixing screws

MST



Size mm	A mm	B mm	C mm	kg	Number of poles	Clamping force kN	Y4 Article no. 80 808 ... £ 2,454.27	011
315X315	315	315	66	50	16	62.8		
430X315	430	315	66	65	24	94.2	3,016.09	021
430x430	430	430	66	85	36	141.3	4,060.24	031
600x430	600	430	66	120	48	188.4	5,165.95	041
800x600	800	600	66	220	80	314.0	8,088.03	051

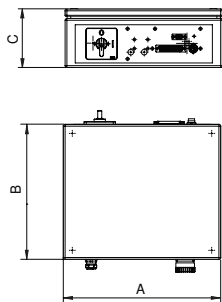
i Maximum clamping force specified covers all poles

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

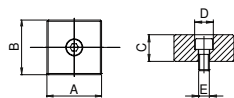
Y4
Article no.
80 808 ...
£
1,678.71
100

Fixed pole extensions

▲ price per piece

Scope of supply:

including fixing screw



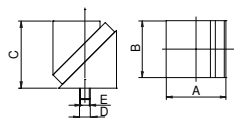
					Y4	
					Article no.	
					80 808 ...	
C	A	B	D	E	£	
mm	mm	mm	mm	mm		
20	45.0	45,0	15	9	12.31	110
54	45.0	45,0	15	9	15.66	115

Movable pole extensions

▲ price per piece

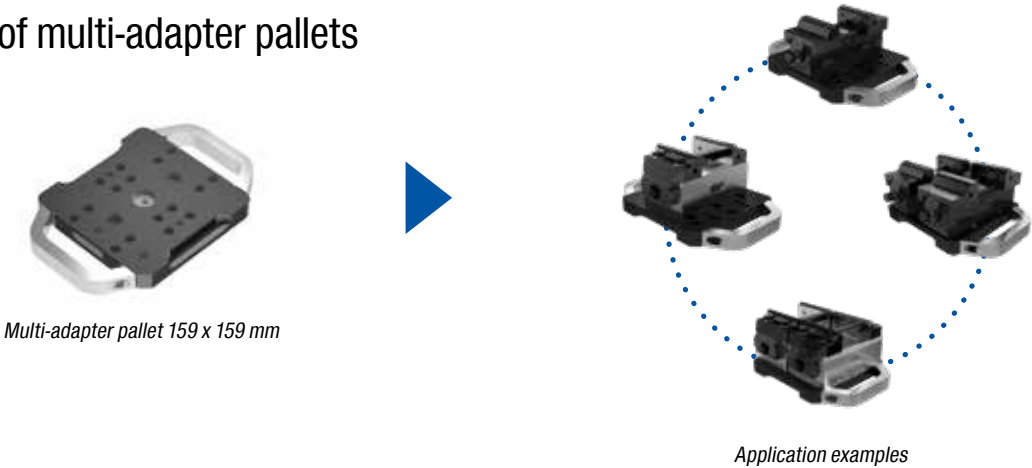
Scope of supply:

including fixing screw



					Y4	
					Article no.	
					80 808 ...	
A	B	C	D	E	£	
mm	mm	mm	mm	mm		
47.2	45,0	54	15	9	53.72	116

Overview of multi-adapter pallets



Multi-adapter pallet 159 x 159 mm

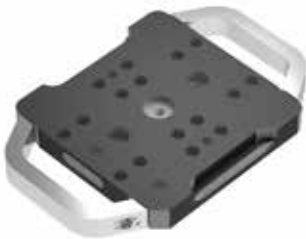
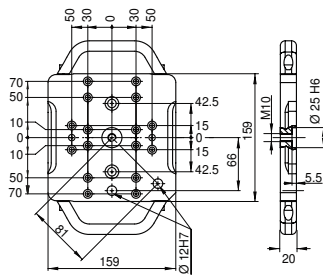
Application examples

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		Y4	
mm		Article no.	
159x159		80 809 ...	
		£	
		487.64 500	
kg			
4			

Mounting set – multi-adapter pallet 159 x 159 mm

▲ price per set

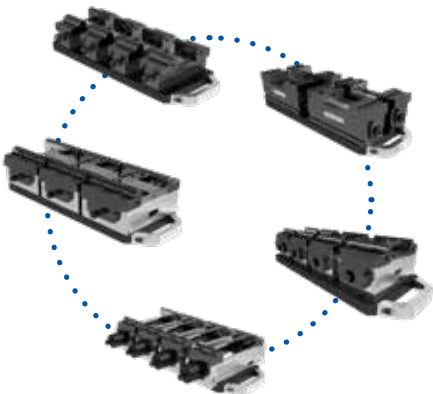


For type		Y4		Y4	
		Article no.		Article no.	
ZSG-3.40		80 878 ...		80 884 ...	
		£		£	
ZSG-3.65				16.12 500	
ZSG-4.80		16.12 503		16.12 501	

Overview of multi-adapter pallets



Multi-adapter pallet 399 x 159 mm



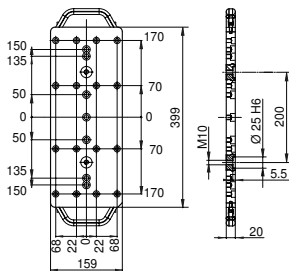
Application examples

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

Y4
Article no. 80 809 ...
£ 717.12
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

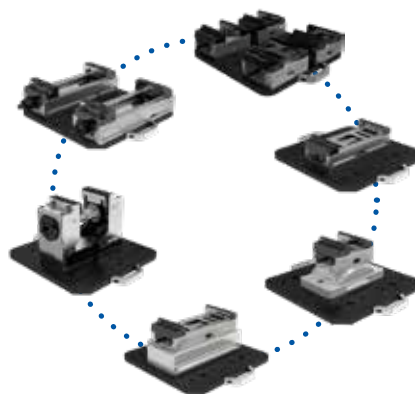
Y4
Article no. 80 897 ...
£ 16.12
500

Y4
Article no. 80 884 ...
£ 38.24
503

Overview of multi-adapter pallets



Multi-adapter pallet 399 x 399 mm



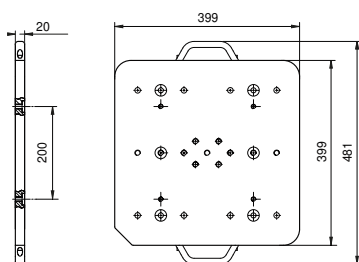
Application examples

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

Y4 Article no. 80 809 ... £	502
1,335.04	

Mounting set – multi-adapter pallet 399 x 399 mm

▲ price per set



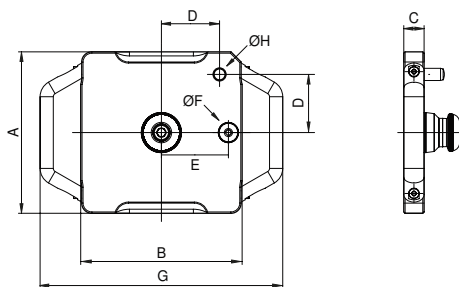
For type	Y4 Article no. 80 901 ... £	500	Y4 Article no. 80 898 ... £	500	Y4 Article no. 80 878 ... £	
ESG4.125	52.82					
H5G.125			52.82			
ZSG-4.125.L160					16.12	500
ZSG-4.125.L160.K					52.82	502
ZSG-4.125.L300					52.82	501
ZSG-4.125.L300-DK					52.82	504

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

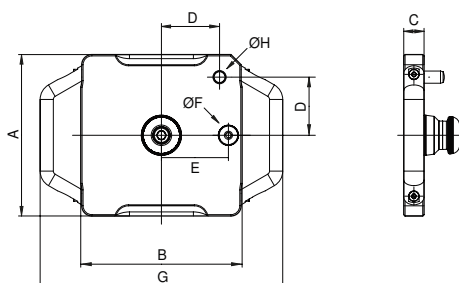
Y4
Article no.
80 809 ...
£
274.20 080

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

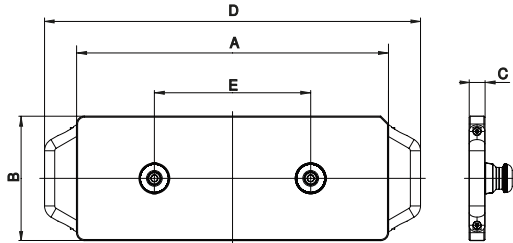
Y4
Article no.
80 809 ...
£
310.01 081

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

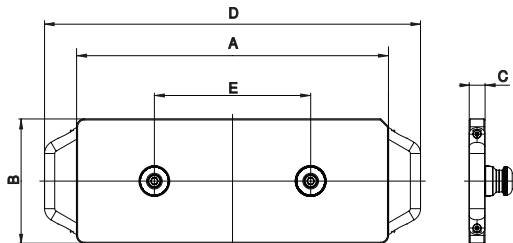
Y4
Article no. 80 809 ...
£ 549.51
082

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

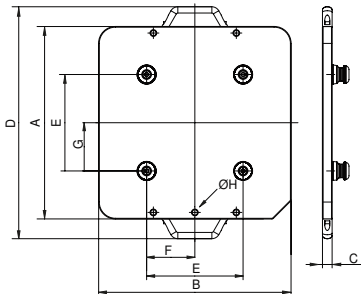
Y4
Article no. 80 809 ...
£ 483.46
083

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

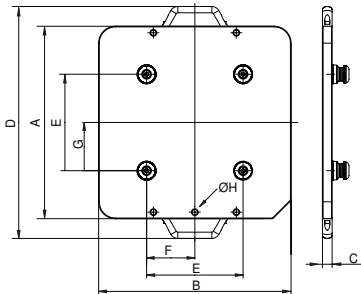
Y4
Article no. 80 809 ...
£
1,210.91 084

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

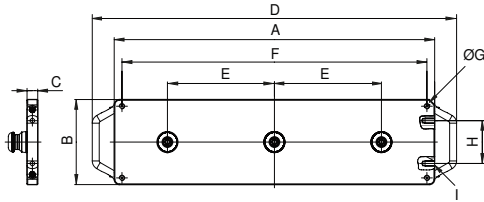
Y4
Article no. 80 809 ...
£
869.58 085

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

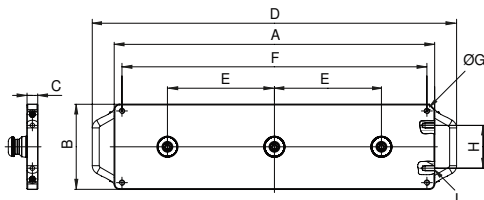
Y4
Article no. 80 809 ...
£
773.34 086

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



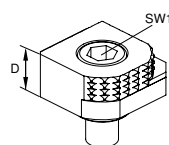
Size mm	A mm	B mm	C mm	D mm	E mm	F mm	G	H mm	I mm	kg
599x159	599	159	25	681	200	570	M10	80	M10	7.4

Y4
Article no. 80 809 ...
£
839.36 087

General top jaws overview

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

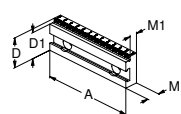
6 function indexable jaw



- ▲ 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

					£	Y4		NCG	HSG / S / Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
	18				71.53	80 892 246		●	●	●	●	●	●	●	●	●	●

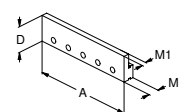
Stepped jaw, grip with T-slot



- ▲ T-slot for accommodating a positioning bar
- ▲ with 6.5 mm wide contact surface suitable for workpieces with rough edges
- ▲ laser etched graduation marks (2 mm) as a positioning aid
- ▲ price per piece

					£	Y4		NCG	HSG / S / Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
100	35	32	17.5	11.5	115.24	80 892 341		●			●	●					●
100	35	30	17.5	11.5	115.24	80 892 342		●			●	●					●
100	35	27	17.5	11.5	115.24	80 892 343		●			●	●					●
125	40	37	17.5	11.5	124.99	80 892 344		●	●	●		●	●		●		●
125	40	35	17.5	11.5	124.99	80 892 345		●	●	●		●	●		●		●
125	40	32	17.5	11.5	124.99	80 892 346		●	●	●		●	●		●		●
160	50	45	20	13.5	140.41	80 892 348		●		●		●	●		●		●
160	50	42	20	13.5	140.41	80 892 349		●		●		●	●		●		●

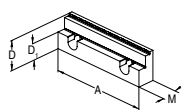
Positioning bar



- ▲ for stepped jaw with T-slot
- ▲ different clamping depths achievable through milling
- ▲ by milling the bar can be used as stop strip
- ▲ material 1.7131 can be hardened if required
- ▲ price per piece

					£	Y4		NCG	HSG / S / Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
100	32		13.5	7	39.05	80 892 338		●			●	●					●
125	32		13.5	7	41.06	80 892 339		●	●	●		●	●		●		●
160	32		13.5	7	43.71	80 892 340		●		●		●	●		●		●

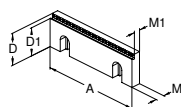
Stepped jaw, 18 mm with 3 mm Grip Step



- ▲ price per piece

					£	Y4		NCG	HSG / S / Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
125	40	22	21.5		228.25	80 892 288		●	●	●		●	●		●		●

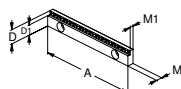
Stepped jaw, grip 3, 5 and 8 mm



- ▲ price per piece

					£	Y4		NCG	HSG / S / Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
100	35	27	10	7.5	102.20	80 892 29200		●			●	●					●
100	35	30	10	7.5	102.20	80 892 29000		●			●	●					●
100	35	32	10	7.5	102.20	80 892 29400		●			●	●					●
125	40	32	11.5	9	116.63	80 892 29300		●	●	●		●	●		●		●
125	40	35	11.5	9	116.63	80 892 29100		●	●	●		●	●		●		●
125	40	37	11.5	9	116.63	80 892 29500		●	●	●		●	●		●		●
160	50	42	13.5	11	130.49	80 892 29900		●		●		●	●		●		●
160	50	45	13.5	11	130.49	80 892 29800		●		●		●	●		●		●
160	50	47	13.5	11	130.49	80 892 29700		●		●		●	●		●		●

Stepped jaw, Grip



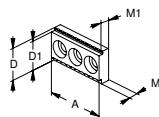
- ▲ price per piece

					£	Y4		NCG	HSG / S / Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
125	18	13	8	5.5	120.54	80 898 252		●	●	●					●		●
125	18	15	8	5.5	135.69	80 898 250		●	●	●					●		●

General top jaws overview

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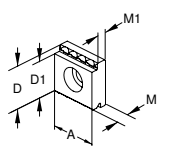
Grip stepped jaw, reversible



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

						£	Y4		NCG	HSG / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
40	22	20	8	5.5		32.54	80 895 320					●						

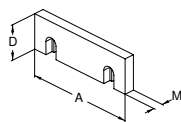
Grip jaw, indexable



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

						£	Y4		NCG	HSG / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
22	22	19	8	5.5		16.19	80 895 335			●		●	●	●	●		●	
35	35	32	10.5	8		31.70	80 895 345		●			●	●	●			●	

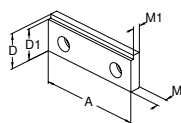
Smooth jaw



- ▲ price per piece

						£	Y4		NCG	HSG / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
100	35		10			38.06	80 892 20400		●			●	●					●
125	40		11.5			45.21	80 892 20500		●		●	●	●	●		●		●
160	50		13.5			52.95	80 892 20600		●		●	●	●	●				●

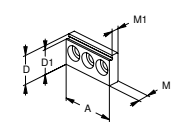
Stepped jaw, smooth



- ▲ price per piece

						£	Y4		NCG	HSG / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
71.6	35	31	10.2	7.2		29.38	80 893 081											●
80	35	31	10.2	7.2		39.05	80 893 082											●
100	35	31	10.2	7.2		37.09	80 893 102											●
125	40	36	11.8	8.8		46.86	80 893 127											●

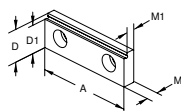
Stepped jaw, smooth



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

						£	Y4		NCG	HSG / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
40	22	19	8	5.5		64.13	80 895 318					●						

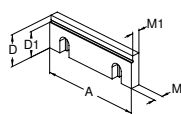
Stepped jaw, 5 mm



- ▲ price per piece

						£	Y4		NCG	HSG / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
80	28	23	10	7.5		128.08	80 878 830				●			●		●		

Stepped jaw, coated 5 mm



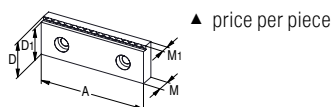
- ▲ price per piece

						£	Y4		NCG	HSG / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
125	40	35	11.5	9.5		152.16	80 892 250		●	●	●	●	●	●	●	●		●

General top jaws overview

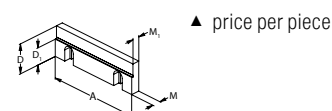
Description	Illustration	A	D	D ₁	M	M ₁	Price	Article No.	Type association
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Stepped jaw, grip, 3 mm



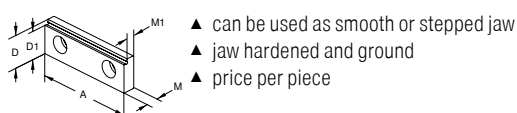
						£	Y4		NCG	HSG / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
	80	28	25	10	7	88.92	80 906 30900				●			●		●		

Stepped jaw, 17 mm



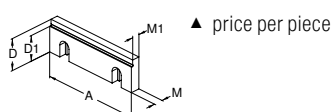
						£	Y4		NCG	HSG / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
	125	40	23	11.5	9.5	123.63	80 892 244		●	●	●	●	●	●	●	●	●	●

Stepped jaw, smooth



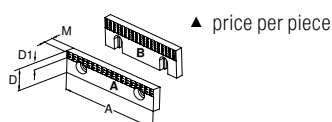
						£	Y4		NCG	HSG / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
	65	22	19	8	5.5	64.13	80 895 332			●		●					●	

Stepped jaw, smooth



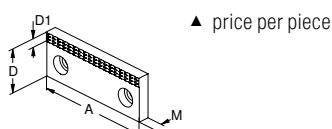
						£	Y4		NCG	HSG / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
	100	35	30	10	7.5	81.41	80 892 21400		●			●	●					●
	125	40	32	11.5	9.5	97.58	80 892 21500		●	●	●		●	●		●		●
	160	50	42	13.5	10.5	174.95	80 892 21600		●		●	●	●	●				

Jaw, grip



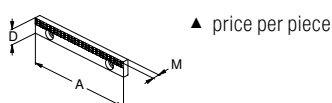
						£	Y4		NCG	HSG / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
A	40	22	7	7.8		28.06	80 892 279					●					●	
A	65	22	7	7.8		33.39	80 892 280					●			●		●	
A	90	22	7	7.8		37.09	80 892 284										●	
B	100	35	12	10		48.79	80 892 21700	●				●	●					●
B	125	40	14.5	11.5		57.69	80 892 21800	●		●		●	●			●		●
B	160	50	14.5	13.5		77.95	80 892 21900	●		●	●	●	●	●				

Jaw, grip



						£	Y4		NCG	HSG / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
	40	35	7	10		32.54	80 889 406										●	
	65	35	7	10		37.09	80 889 656										●	
	90	35	7	10		41.06	80 889 906										●	

Top jaw, grip

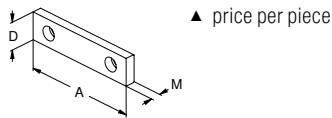


						£	Y4		NCG	HSG / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
	125	18		7.8		58.78	80 898 253		●	●	●	●	●	●	●	●	●	●

General top jaws overview

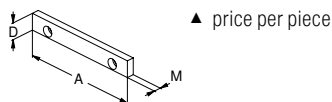
Description	A	D	D ₁	D ₂	M	M ₁	Price	Article No.	Type association
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Ground top jaw



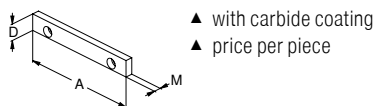
						£	Y4	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
40	22			7.7		29.38	80 889 401				●			●		●	
40	35			10		33.39	80 889 405									●	
65	22			7.7		33.39	80 889 651				●					●	
65	35			10		37.09	80 889 655									●	
90	22			7.7		37.09	80 889 901									●	
90	35			10		43.71	80 889 905									●	

Ground top jaw



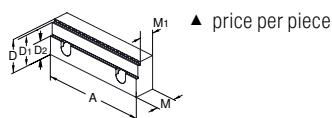
						£	Y4	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
125	18			7.6		44.27	80 898 251	●	●						●		

Top jaw, carbide coated



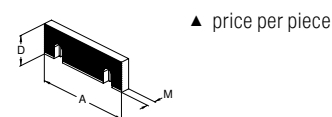
						£	Y4	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
125	18			7.6		82.13	80 898 254	●	●						●		

Stepped jaw, 18 mm with 3 mm grip step



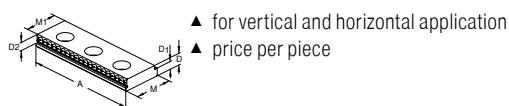
						£	Y4	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
125	40	37	22	24	19	208.69	80 907 302	●	●	●		●	●	●	●		●

Jaw, profiled



						£	Y4	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
100	35			10		42.84	80 892 20700	●			●	●					●
125	40			11.5		51.16	80 892 20800	●			●	●			●		●
160	50			13.5		59.47	80 892 20900	●			●	●					●

Grip jaw, indexable

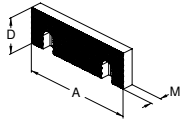


						£	Y4	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
100	10.5	8	5	35	32	45.57	80 895 343	●			●	●					●
65	8	5.5	5	22	19	32.54	80 895 340	●			●	●				●	

General top jaws overview

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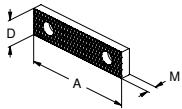
Jaw, cut



▲ price per piece

					£	Y4	NCG	HSG / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
100	35		11		49.95	80 892 20100	●			●	●					●
125	40		12.5		61.20	80 892 20200	●		●		●	●		●		●
160	50		14.5		72.75	80 892 20300	●		●		●	●				

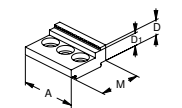
Jaw, cut



▲ price per piece

					£	Y4	NCG	HSG / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
40	22		8		29.38	80 889 404				●			●		●	
40	35		11		33.39	80 889 408				●			●		●	
65	22		8		33.39	80 889 654				●			●		●	
65	35		11		37.09	80 889 658									●	
90	22		8		37.09	80 889 904									●	
90	35		11		43.71	80 889 908									●	

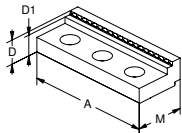
Jaw, grip, VS



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

					£	Y4	NCG	HSG / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
40	14	9	30		43.71	80 895 334				●						

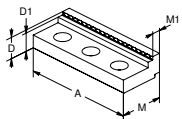
Jaw, grip, VS



▲ price per piece

					£	Y4	NCG	HSG / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
125	22	17	45		103.03	80 892 245						●				

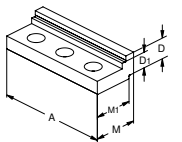
Jaw, grip, VS



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

					£	Y4	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	35.76	80 895 336				●						
100	20	17	40	8.5	71.53	80 895 346				●						

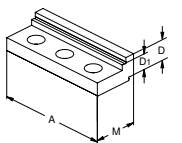
Jaw, smooth VS, carbide coated



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

					£	Y4	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	137.77	80 895 347				●						
100	19	14	40	35	152.33	80 895 349				●						

Jaw, smooth VS, carbide coated



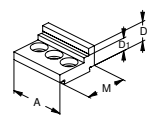
▲ increased clamping range for finish machining and 2nd operation
▲ price per piece

					£	Y4	NCG	HSG / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
125	19	14	45		242.51	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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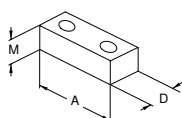
Jaw, smooth VS, carbide coated



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

						£	Y4		NCG	HSG / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
	40	14	9	30		137.77	80 895 341					●						

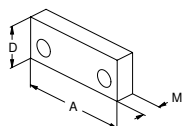
Jaw, soft



- ▲ only for vertical application
- ▲ price per piece

						£	Y4		NCG	HSG / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
	40	22		20		29.38	80 895 244											
	65	22		20		33.39	80 895 245		●		●	●		●	●		●	
	90	22		20		37.09	80 895 246										●	

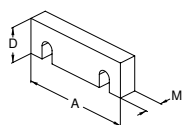
Jaw, soft



- ▲ price per piece

						£	Y4		NCG	HSG / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
	40	35		16		33.39	80 889 407										●	
	65	35		16		37.09	80 889 657										●	
	90	35		16		43.71	80 889 907										●	

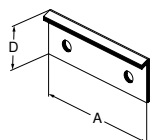
Jaw, soft



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

						£	Y4		NCG	HSG / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
	100	35		16		40.42	80 892 24700	●				●	●	●	●			●
	125	40		20		48.15	80 892 24800	●	●	●	●	●	●	●	●	●		●
	160	50		20		55.31	80 892 24900	●	●	●	●	●	●	●	●	●		●

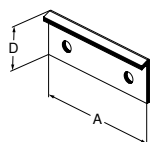
Pull down jaw with spring plate



- ▲ for finish machining
- ▲ price per piece

						£	Y4		NCG	HSG / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
	80	24				58.57	80 901 309					●		●				
	125	35				77.22	80 901 310				●			●		●		
	160	45				88.41	80 901 311				●			●				

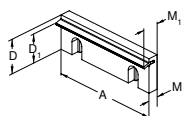
Pull down jaw with spring plate



- ▲ for finish machining
- ▲ price per piece

						£	Y4		NCG	HSG / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
	65	23				50.78	80 898 923		●			●					●	
	100	36				64.91	80 898 924		●			●						
	125	41				76.81	80 898 925					●						●
	160	51				88.54	80 898 926		●			●						

Spring Leaf Pull down jaw



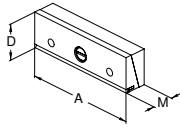
- ▲ price per piece

						£	Y4		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	55.89	80 892 22800	●				●	●	●				●
	125	40	32.5	11.5	19	65.25	80 892 22900	●			●	●	●	●		●		●
	160	50	42	13.5	21	84.88	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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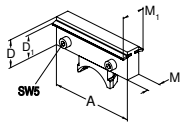
Precision pull down jaw



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

						£	Y4		NCG	HSG / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
	90	35		25		209.09	80 892 356											
	100	35		25		233.14	80 892 370		●			●						●
	125	40		25		241.09	80 892 371		●	●	●		●	●		●		●
	160	50		27.5		368.26	80 892 372		●	●			●	●				

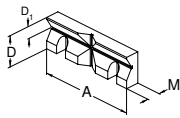
Adapter jaws with pull down



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

						£	Y4		NCG	HSG / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
	100	35	28	28	45	259.63	80 892 258		●									
	125	40	32.5	20	35	255.67	80 892 259		●				●					
	160	50	42	20	35	302.03	80 892 260		●				●					

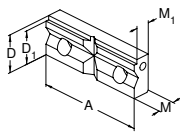
Prismatic jaw



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

						£	Y4		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		121.25	80 892 26100		●			●	●					●
14 - 48	125	40	16	17.5		136.26	80 892 26200		●	●	●		●	●		●		●
16 - 60	160	50	20	19.5		202.09	80 892 26300		●		●		●	●				

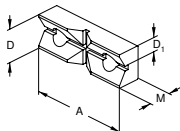
Prismatic jaw



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

						£	Y4		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	46.86	80 893 083											●
9 - 31	100	35	31	15.8	12.8	58.78	80 893 103											●
11 - 41	125	40	36	17.8	14.8	104.64	80 893 128											●
9 - 31	72	35	31	15.8	12.8	46.86	80 893 093											●

Prismatic jaw



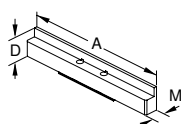
- ▲ with horizontal and vertical prism
- ▲ price per piece

						£	Y4		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		115.24	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



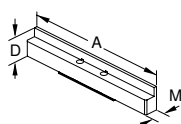
- ▲ hardened and ground
- ▲ held by means of spring wedge in the baseplate
- ▲ price for 2 pieces

					£	Y4		NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
100	11		10.5		123.19	80 890 400	●										
100	16		10.5		123.19	80 890 401	●										
100	23		10.5		123.19	80 890 409	●										
100	25.5		10.5		123.19	80 890 411	●										
100	29.5		10.5		123.19	80 890 421	●										
125	11		10.5		148.35	80 890 390	●										
125	16		10.5		148.35	80 890 391	●										
125	21		10.5		148.35	80 890 392	●										
125	25		10.5		148.35	80 890 422	●										
125	26		10.5		148.35	80 890 393	●										
125	29		10.5		148.35	80 890 394	●										
125	32.5		10.5		148.35	80 890 395	●										
125	36		10.5		148.35	80 890 396	●										
160	26		10.5		180.15	80 890 452	●										
160	39		10.5		190.75	80 890 454	●										
160	42.5		10.5		200.51	80 890 456	●										

					£	Y4		NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
125			10.5		981.55	80 890 399	●										

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

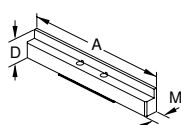
Workpiece supports, offset



- ▲ price for 2 pieces

					£	Y4		NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
65	11		10.5		116.57	80 897 011	●										
65	16		10.5		116.57	80 897 016	●										

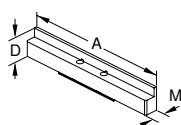
Workpiece supports, offset



- ▲ price for 2 pieces

					£	Y4		NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
40	11		10.5		116.57	80 897 004	●										
40	16		10.5		116.57	80 897 005	●										

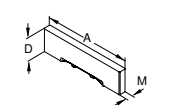
Workpiece supports, offset



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

					£	Y4		NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
125	11		10.5		148.20	80 901 703	●										
125	21		10.5		148.20	80 901 704	●										
125	25		10.5		148.20	80 901 705	●										
125	32.5		10.5		148.20	80 901 706	●										
160	26		10.5		179.28	80 901 700	●										
160	39		10.5		190.05	80 901 701	●										
160	42.5		10.5		201.99	80 901 702	●										

Workpiece supports, offset



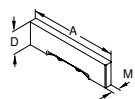
- ▲ hardened and ground
- ▲ held by means of clamping springs in the base plate
- ▲ two pieces contained in set
- ▲ price per set

					£	Y4		NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
80	15		10.5		123.11	80 901 707	●										
80	20		10.5		122.19	80 901 708	●										

Workpiece supports overview

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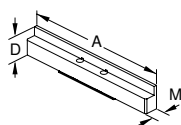
Workpiece supports, offset



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

					£	Y4	NCG	HSG / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
125	15		10.5		147.06	80 906 715								●		
125	21		10.5		147.06	80 906 721								●		
125	25		10.5		147.06	80 906 725								●		
125	32.5		10.5		147.06	80 906 732								●		
125	22		10.5		147.06	80 906 722								●		

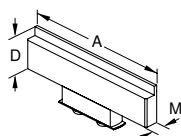
Workpiece surface, offset



- ▲ hardened and ground
- ▲ price for 2 pieces

					£	Y4	NCG	HSG / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
40	11		10.5		116.57	80 889 411									●	
40	16		10.5		116.57	80 889 416									●	
40	21		10.5		116.57	80 889 421									●	
40	25		10.5		116.57	80 889 425									●	
40	28		10.5		116.57	80 889 428									●	
40	30		10.5		116.57	80 889 430									●	
40	32.5		10.5		116.57	80 889 432									●	
65	11		10.5		116.57	80 889 611									●	
65	16		10.5		116.57	80 889 616									●	
65	21		10.5		116.57	80 889 622									●	
65	25		10.5		116.57	80 889 625									●	
65	28		10.5		116.57	80 889 628									●	
65	30		10.5		116.57	80 889 630									●	
65	32.5		10.5		116.57	80 889 632									●	
90	11		10.5		135.11	80 889 911									●	
90	16		10.5		135.11	80 889 916									●	
90	21		10.5		135.11	80 889 921									●	
90	25		10.5		135.11	80 889 925									●	
90	28		10.5		135.11	80 889 928									●	
90	30		10.5		135.11	80 889 930									●	
90	32.5		10.5		135.11	80 889 932									●	

Workpiece supports



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

					£	Y4	NCG	HSG / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
100	16		10.5		123.19	80 892 401					●					
100	25.5		10.5		123.19	80 892 411					●					
100	29.5		10.5		123.19	80 892 421					●					
125	11		10.5		148.35	80 892 390					●					
125	16		10.5		148.35	80 892 391					●					
125	21		10.5		148.35	80 892 392					●					
125	26		10.5		148.35	80 892 393					●					
125	29		10.5		148.35	80 892 394					●					
125	32.5		10.5		148.35	80 892 395					●					
125	36		10.5		148.35	80 892 396					●					
160	26		10.5		180.15	80 892 403					●					
160	39		10.5		190.75	80 892 413					●					
160	42.5		10.5		200.51	80 892 423					●					

					£	Y4	NCG	HSG / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	HSG
125			10.5		981.55	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	



		Y4	
		Article no.	
		80 897 ...	
A	for slot width	£	
mm	mm		
100	14	52.08	114
100	16	52.08	116
100	18	52.08	118

Alignment and centring set

▲ price per piece

ESG 4	DSG 4
----------	----------



		Y4	
		Article no.	
		80 906 ...	
A	for slot width	£	
mm	mm		
80	12	45.41	812
80	14	45.41	814
80	16	45.41	816
80	18	45.41	818

Clamping Screw Set for T-slot

▲ price for 2 pieces

ZSG 4	ESG 4
DSG 4	



		Y4	
		Article no.	
		80 899 ...	
for width	G	£	
mm			
12	M10	15.84	312
14	M12	15.84	314
16	M12	22.19	316
18	M12	23.85	318

Workpiece stop

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



		Y4	
		Article no.	
		80 892 ...	
		£	
		59.61	400

Workpiece stop

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

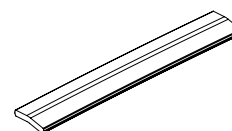


		Y4	
		Article no.	
		80 895 ...	
		£	
		40.35	010

Replacement spring plates

▲ price per piece

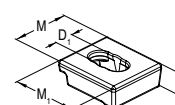
▲ for pull down and intermediate jaws



		Y4	
		Article no.	
		80 892 ...	
for width	mm	£	
	100	25.35	430
	125	22.71	431
	160	25.16	432

Clamping claws

▲ price for 2 pieces



		Y4	
		Article no.	
		80 890 ...	
D	D ₁	£	
mm	mm		
20	16	31.25	315

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

				£	Y4		NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	MNG
		1/2"		76.09		80 891 600		●		●		●				

Torque Wrench



▲ without socket

				£	Y4		NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	MNG
	10 - 100	1/2"		293.24		80 884 502				●		●				
	20 - 200	1/2"		291.66		80 884 504					●	●				

Torque key



▲ without socket

				£	Y4		NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	MNG
	5 - 50	3/8"		258.30		80 884 402							●		●	●

Socket



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

				£	Y4		NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	MNG
		1/2"	8	17.12		80 877 208										
		1/2"	10	17.12		80 877 210				●						
		1/2"	14	17.12		80 877 214		●		●						
		3/8"	8	17.12		80 877 108				●					●	●
		3/8"	5	17.12		80 877 105										

Socket



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

				£	Y4		NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	MNG
		3/8"	7	17.12		80 875 107							●			
		1/2"	12	17.12		80 875 212			●			●		●		
		3/8"	12	17.12		80 875 112						●				
		1/2"	14	17.12		80 875 214		●				●		●		

Hexagon adapter SW 12 to SW 27



▲ for compressed air impact wrench

				£	NEW Y4		NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	MNG
			12	47.15		80 875 27000						●				

Control set



▲ torque wrench including nut and screwdriver SW10

				£	Y4		NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	MNG
	8 - 50	3/8"	10	315.28		80 899 410										●

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

				£	Y4	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	MNG
	M6x8			1.25	80 895 013				●						

Clamping screw for top jaws



▲ DIN EN ISO 4762 (1998-02)

				£	Y4	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	MNG
	M8x12			1.17	80 892 296	●	●			●	●	●			

Clamping screw with shallow head for top jaws



▲ see DIN7984 (1985-05)

				£	Y4	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	MNG
	M8x10			1.17	80 889 950	●	●			●	●	●		●	

Clamping screw for system jaws



▲ price per piece

				£	Y4	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	MNG
	M12x20			2.32	80 890 630	●	●								
	M12x40			2.32	80 890 632	●	●								

Allen cap screw



▲ DIN 912

				£	Y4	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	MNG
	M12x45			2.32	80 899 124									●	●

Dowel screws



▲ price for 2 pieces

				£	Y4	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	MNG
100	M12x38	12		31.25	80 890 313	●		●							
125	M16x55	16		50.78	80 890 314	●									

Dowel screw



▲ price for 2 pieces

				£	Y4	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	MNG
125	M12x45	12		23.78	80 895 019		●	●			●		●	●	●

Fixing set for mounting through the body



▲ price per set

				£	Y4	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	MNG
	M8	8		15.84	80 897 019				●						

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

			£	Y4	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	MNG
12	M10		15.84	80 890 308	●	●	●	●	●	●	●	●	●	●
14	M12		15.84	80 890 309	●	●	●	●	●	●	●	●	●	●
16	M14		17.43	80 890 310	●	●	●	●	●	●	●	●	●	●
18	M16		19.02	80 890 311	●	●	●	●	●	●	●	●	●	●

Clamping screws for round clamps, T-Nut



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

			£	Y4	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	MNG
12	M10		15.84	80 899 112									●	●
14	M12		15.84	80 899 114									●	●
16	M12		17.43	80 899 116									●	●
18	M12		19.02	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

			£	Y4	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	MNG
100	M12		50.78	80 897 121				●						

Tenon incl. screw



- ▲ price per 2 pieces

			£	Y4	NCG	H5G / -S / -Z	ESG 4	ESG mini	HDG 2	ZSG 4	ZSG 3	DSG 4	MSG 2	MNG
12	M6		54.67	80 898 412	●	●	●		●			●	●	
14	M6		54.67	80 898 414	●	●	●		●			●	●	
16	M6		54.67	80 898 416	●	●	●		●			●	●	
18	M6		54.67	80 898 418	●	●	●		●			●	●	

Article No.	Tool type	Pages	Article No.	Tool type	Pages	Article No.	Tool type	Pages
80 808 010	MST	79	80 878 226	ZSG 4	40	80 887 400	MSG 2	60
80 808 011	MST	81	80 878 260	ZSG 4	40	80 887 406	MSG 2	54
80 808 020	MST	80	80 878 305	ESG 4, ZSG 4	45	80 887 409	MSG 2	55
80 808 021	MST	81	80 878 325	ZSG 4	42	80 887 500	MSG 2	60
80 808 030	MST	80	80 878 500		86	80 887 506	MSG 2	54
80 808 031	MST	81	80 878 501		86	80 887 509	MSG 2	55
80 808 040	MST	81	80 878 502		86	80 887 600	MSG 2	60
80 808 041	MST	81	80 878 503		84	80 887 609	MSG 2	55
80 808 051	MST	81	80 878 504		86	80 887 650	MSG 2	60
80 808 100	MST	82	80 878 510	ESG 4, ZSG 4	44	80 887 656	MSG 2	54
80 808 110	MST	83	80 878 520	ZSG 4	44	80 887 659	MSG 2	55
80 808 115	MST	83	80 878 525	ZSG 4	46	80 888 002	MSG 2	59
80 808 116	MST	83	80 878 530	ZSG 4	45	80 888 004	MSG 2	59
80 809 010	PNG	75	80 878 550	DSG 4, ESG 4, ZSG 4	52	80 888 401	MSG 2	58
80 809 020	PNG	75	80 878 565	ESG 4, ZSG 4	44	80 888 403	MSG 2	58
80 809 040	PNG	76	80 878 570	DSG 4, ESG 4, ZSG 4	45	80 888 404	MSG 2	58
80 809 060	PNG	76	80 878 590	ZSG 4	45	80 888 405	MSG 2	58
80 809 070	PNG	78	80 878 610	ESG 4, ZSG 4	44	80 888 406	MSG 2	59
80 809 071	PNG	78	80 878 625	ZSG 4	44	80 888 407	MSG 2	58
80 809 072	PNG	78	80 878 660	ZSG 4	44	80 888 408	MSG 2	58
80 809 073	PNG	78	80 878 665	ZSG 4	44	80 888 607	MSG 2	59
80 809 074	PNG	78	80 878 670	ESG 4, ZSG 4	45	80 888 651	MSG 2	58
80 809 080		87	80 878 690	ZSG 4	45	80 888 653	MSG 2	58
80 809 081		87	80 878 810	DSG 4, ESG 4, ZSG 4	52	80 888 654	MSG 2	58
80 809 082		88	80 878 830	DSG 4, ESG 4, ZSG 4	92	80 888 655	MSG 2	55
80 809 083		88	80 878 840	ESG 4, ZSG 4	44	80 888 656	MSG 2	59
80 809 084		89	80 878 850	DSG 4, ESG 4, ZSG 4	52	80 888 658	MSG 2	59
80 809 085		89	80 878 870	DSG 4, ESG 4, ZSG 4	45	80 888 901	MSG 2	58
80 809 086		90	80 878 890	ZSG 4	45	80 888 903	MSG 2	58
80 809 087		90	80 884 040	ZSG 3	47	80 888 904	MSG 2	58
80 809 100	PNG	77	80 884 041	ZSG 3	48	80 888 905	MSG 2	55
80 809 110	PNG	78	80 884 065	ZSG 3	47	80 888 906	MSG 2	59
80 809 120	PNG	77	80 884 066	ZSG 3	48	80 888 907	MSG 2	59
80 809 500		84	80 884 140	ZSG 3	48	80 888 908	MSG 2	59
80 809 501		85	80 884 165	ZSG 3	48	80 889 001	MSG 2	60
80 809 502		86	80 884 300	ZSG 3	50	80 889 002	MSG 2	60
80 875 107	MSG 2, ZSG 3	101	80 884 310	ZSG 3	50	80 889 401	ESG, MSG 2, ZSG 3	94
80 875 112	ZSG 3	101	80 884 320	ZSG 3	50	80 889 404	ESG, MSG 2, ZSG 3	95
80 875 212	DSG 4, ESG 4, HDG 2, ZSG 3, ZSG 4	101	80 884 350	ZSG 3	50	80 889 405	MSG 2	94
80 875 214	DSG 4, ESG 4, ZSG 4, ZSG 4	101	80 884 360	ZSG 3	50	80 889 406	MSG 2	93
80 877 105		101	80 884 370	ZSG 3	50	80 889 407	MSG 2	96
80 877 108	ESG, MNG, MSG 2	101	80 884 380	ZSG 3	50	80 889 408	MSG 2	95
80 877 208		101	80 884 390	ZSG 3	50	80 889 411	MSG 2	99
80 877 210	ESG	101	80 884 400	ZSG 3	50	80 889 416	MSG 2	99
80 877 214	ESG, H5G-Z	101	80 884 402	MNG, MSG 2, ZSG 3	101	80 889 421	MSG 2	99
80 878 025	ZSG 4	41	80 884 440	ZSG 3	50	80 889 425	MSG 2	99
80 878 026	ZSG 4	41	80 884 500		84	80 889 428	MSG 2	99
80 878 080	ZSG 4	41	80 884 501		84	80 889 430	MSG 2	99
80 878 081	ZSG 4	40	80 884 502	ESG, DSG 4, HDG 2, ZSG 4, ZSG mini	101	80 889 432	MSG 2	99
80 878 082	ZSG 4	42	80 884 503		85	80 889 611	MSG 2	99
80 878 125	ZSG 4	41	80 884 504	HDG 2, ZSG 4, ZSG mini	101	80 889 616	MSG 2	99
80 878 160	ZSG 4	40	80 887 226	MSG 2	54	80 889 622	MSG 2	99
80 878 225	ZSG 4	40	80 887 326	MSG 2	54	80 889 625	MSG 2	99

Article No.	Tool type	Pages	Article No.	Tool type	Pages	Article No.	Tool type	Pages
80 889 628	MSG 2	99	80 890 364	NCG 5AC	13	80 892 125	HDG 2	37
80 889 630	MSG 2	99	80 890 365	NCG 5AC	13	80 892 160	HDG 2	37
80 889 632	MSG 2	99	80 890 366	NCG 5AC	13	80 892 164	HDG 2	39
80 889 651	ESG, MSG 2, ZSG 3, ZSG mini	94	80 890 367	NCG 5AC	13	80 892 225	HDG 2	38
80 889 654	ESG, DSG, MSG 2, ZSG, ZSG 3, ZSG mini	95	80 890 385	NCG, NCG 5A	14	80 892 226	HDG 2	38
80 889 655	MSG 2	94	80 890 387	NCG, NCG 5A	14	80 892 227	HDG 2	38
80 889 656	MSG 2	93	80 890 389	NCG, NCG 5A	14	80 892 240	ZSG 4	95
80 889 657	MSG 2	96	80 890 390	DSG, NCG, NCG 2, ZSG	98	80 892 244	H5G, H5G-S, DSG, DSG 4, ESG 4, HDG 2, H5G, NCG, NCG 2, ZSG, ZSG 4	93
80 889 658	MSG 2	95	80 890 391	DSG, NCG, NCG 2, ZSG	98	80 892 245	ZSG 4	95
80 889 901	MSG 2	94	80 890 392	DSG, NCG, NCG 2, ZSG	98	80 892 246	DSG 4, ZSG 4, ESG, ESG 4, H5G, NCG	53
80 889 904	MSG 2	95	80 890 393	DSG, NCG, NCG 2, ZSG	98	80 892 250	H5G, H5G-S, DSG, DSG 4, ESG 4, HDG 2, H5G, NCG, NCG 2, ZSG, ZSG 4	92
80 889 905	DSG, MSG 2, NCG 2, ZSG, ZSG mini	94	80 890 394	DSG, NCG, NCG 2, ZSG	98	80 892 258	NCG, NCG 2	97
80 889 906	DSG, MSG 2, NCG 2, ZSG, ZSG mini	93	80 890 395	DSG, NCG, NCG 2, ZSG	98	80 892 259	HDG 2, NCG, NCG 2	97
80 889 907	DSG, MSG 2, NCG 2, ZSG, ZSG mini	96	80 890 396	DSG, NCG, NCG 2, ZSG	98	80 892 260	HDG 2, NCG, NCG 2	97
80 889 908	DSG, MSG 2, NCG 2, ZSG, ZSG mini	95	80 890 399	DSG, NCG, NCG 2, ZSG	98	80 892 279	ESG, MSG 2, ZSG 3	93
80 889 911	MSG 2	99	80 890 400	NCG, NCG 2	98	80 892 280	ESG, MSG 2, ZSG 3, ZSG mini	93
80 889 916	MSG 2	99	80 890 401	NCG, NCG 2	98	80 892 284	MSG 2	93
80 889 921	MSG 2	99	80 890 409	NCG, NCG 2	98	80 892 288	DSG 4, ESG 4, HDG 2, H5G, H5G, NCG, ZSG 4	91
80 889 925	MSG 2	99	80 890 411	NCG, NCG 2	98	80 892 296	H5G-S, DSG, HDG 2, H5G, NCG, NCG 2, ZSG, ZSG 3, ZSG 4	102
80 889 928	MSG 2	99	80 890 421	NCG, NCG 2	98	80 892 314	HDG 2	39
80 889 930	MSG 2	99	80 890 422	NCG, NCG 2	98	80 892 315	HDG 2	39
80 889 932	MSG 2	99	80 890 442	NCG, NCG 5AC	14	80 892 338	ESG, DSG, HDG 2, H5G, NCG, NCG 2, ZSG, ZSG mini	91
80 889 950	H5G-S, DSG, HDG 2, H5G, MSG 2, NCG, NCG 2, ZSG, ZSG 3, ZSG 4	102	80 890 443	NCG, NCG 5AC	14	80 892 339	H5G-S, DSG, DSG 4, ESG 4, HDG 2, H5G, H5G, NCG, NCG 2, ZSG, ZSG 4	91
80 890 008	NCG	14	80 890 444	NCG, NCG 5AC	14	80 892 340	ESG 4, HDG 2, NCG, NCG 2, ZSG 4	91
80 890 010	NCG	14	80 890 452	NCG, NCG 2	98	80 892 341	ESG, DSG, HDG 2, H5G, NCG, NCG 2, ZSG, ZSG mini	91
80 890 012	NCG	14	80 890 454	NCG, NCG 2	98	80 892 342	ESG, DSG, HDG 2, H5G, NCG, NCG 2, ZSG, ZSG mini	91
80 890 013	NCG	14	80 890 456	NCG, NCG 2	98	80 892 343	ESG, DSG, HDG 2, H5G, NCG, NCG 2, ZSG, ZSG mini	91
80 890 014	NCG	14	80 890 460	NCG, NCG 5A	14	80 892 344	H5G-S, DSG, DSG 4, ESG 4, HDG 2, H5G, H5G, NCG, NCG 2, ZSG, ZSG 4	91
80 890 308	ESG, DSG 4, ESG 4, HDG 2, H5G, MSG 2, NCG, ZSG 4	103	80 890 470	NCG, NCG 5A	14	80 892 345	H5G-S, DSG, DSG 4, ESG 4, HDG 2, H5G, H5G, NCG, NCG 2, ZSG, ZSG 4	91
80 890 309	ESG, DSG 4, ESG 4, HDG 2, H5G, MSG 2, NCG, ZSG 4	103	80 890 501	H5G, NCG, NCG 5A	25	80 892 346	H5G-S, DSG, DSG 4, ESG 4, HDG 2, H5G, H5G, NCG, NCG 2, ZSG, ZSG 4	91
80 890 310	ESG, DSG 4, ESG 4, HDG 2, H5G, MSG 2, NCG, ZSG 4	103	80 890 550	NCG, NCG 5AC	15	80 892 348	ESG 4, HDG 2, NCG, NCG 2, ZSG 4	91
80 890 311	ESG, DSG 4, ESG 4, HDG 2, H5G, MSG 2, NCG, ZSG 4	103	80 890 551	NCG, NCG 5AC	15	80 892 349	ESG 4, HDG 2, NCG, NCG 2, ZSG 4	91
80 890 313	ESG 4, NCG	102	80 890 600	NCG	7	80 892 356	DSG, MSG 2, NCG 2, ZSG, ZSG mini	97
80 890 314	NCG	102	80 890 602	NCG	8	80 892 370	ESG, DSG, H5G, NCG, NCG 2, ZSG, ZSG mini	97
80 890 315		100	80 890 605	NCG 5A	9	80 892 371	DSG, DSG 4, ESG 4, HDG 2, H5G, H5G, NCG, NCG 2, ZSG, ZSG 4	97
80 890 321	NCG	13	80 890 625	NCG	7	80 892 372	ESG 4, HDG 2, NCG, NCG 2, ZSG 4	97
80 890 322	ESG, NCG	34	80 890 627	NCG	8	80 892 390	HDG 2	99
80 890 323	NCG, NCG 2	12	80 890 630	H5G-S, H5G, NCG, NCG 2, NCG 5AC	102	80 892 391	HDG 2	99
80 890 324	NCG, NCG 2	12	80 890 632	H5G-S, H5G, NCG, NCG 2, NCG 5AC	102	80 892 392	HDG 2	99
80 890 325	NCG, NCG 2	12	80 890 635	NCG 5A	9	80 892 393	HDG 2	99
80 890 327	NCG	12	80 890 636	NCG	8	80 892 394	HDG 2	99
80 890 328	NCG	12	80 890 637	NCG	8	80 892 395	HDG 2	99
80 890 329	NCG	12	80 890 638	NCG	8	80 892 396	HDG 2	99
80 890 337	NCG	13	80 890 660	NCG	7	80 892 399	HDG 2	99
80 890 338	NCG	13	80 890 662	NCG	8	80 892 400		100
80 890 339	NCG	13	80 890 685	NCG, NCG 5AC	14	80 892 401	HDG 2	99
80 890 340	NCG	13	80 890 763	NCG	12	80 892 403	HDG 2	99
80 890 342	NCG	12	80 890 764	NCG	12	80 892 411	HDG 2	99
80 890 343	ESG, NCG	34	80 890 767	NCG	12	80 892 413	HDG 2	99
80 890 344	NCG	12	80 890 768	NCG	12	80 892 421	HDG 2	99
80 890 346	NCG	12	80 891 600	ESG, H5G-Z, ZSG 4	101	80 892 423	HDG 2	99
80 890 347	ESG, NCG	12	80 892 100	HDG 2	37	80 892 430		100
80 890 348	NCG	12	80 892 124	HDG 2	39	80 892 431		100

Article No.	Tool type	Pages	Article No.	Tool type	Pages	Article No.	Tool type	Pages
80 892 432		100	80 897 901	ESG	34	80 899 128	MNG	73
80 893 080	HSG	61	80 897 904	ESG	36	80 899 230	MNG	65
80 893 081	HSG	92	80 897 906	ESG	36	80 899 300	MNG	74
80 893 082	HSG	92	80 897 911	ESG	36	80 899 312	DSG 4, ESG 4, ZSG 4	100
80 893 083	HSG	97	80 897 916	ESG	34	80 899 314	DSG 4, ESG 4, ZSG 4	100
80 893 093	HSG	97	80 897 917	ESG	34	80 899 316	DSG 4, ESG 4, ZSG 4	100
80 893 100	HSG	61	80 897 920	ESG	35	80 899 318	DSG 4, ESG 4, ZSG 4	100
80 893 101	HSG	61	80 897 944	ESG	31	80 899 410	MNG	101
80 893 102	DSG, HSG, NCG 2, ZSG, ZSG mini	92	80 897 946	ESG	31	80 899 420		69
80 893 103	DSG, HSG, NCG 2, ZSG, ZSG mini	97	80 898 024	H5G	25	80 899 425	MNG	69
80 893 125	HSG	61	80 898 025	H5G	25	80 899 430		70
80 893 126	HSG	61	80 898 026	H5G-S	25	80 899 435	MNG	70
80 893 127	DSG, HSG, NCG 2, ZSG	92	80 898 123	H5G-S	17	80 899 500		72
80 893 128	DSG, HSG, NCG 2, ZSG	97	80 898 124	H5G-S	17	80 899 510	MNG	72
80 893 250	HSG	62	80 898 125	H5G	16	80 899 602	MNG	68
80 893 260	HSG	62	80 898 225	H5G-S, H5G, H5G-Z	23	80 899 603	MNG	68
80 893 265	HSG	62	80 898 230	H5G-S, H5G, H5G-Z	24	80 899 604	MNG	68
80 895 010		100	80 898 250	DSG 4, ESG 4, H5G	91	80 899 607	MNG	68
80 895 013	ESG, ZSG mini	102	80 898 251	DSG 4, ESG 4, H5G	94	80 899 608	MNG	68
80 895 019	DSG 4, ESG 4, H5G, MNG, MSG 2, ZSG 4	102	80 898 252	DSG 4, ESG 4, H5G	91	80 899 609	MNG	68
80 895 244	ESG, MSG 2, ZSG 3	96	80 898 253	DSG 4, ESG 4, H5G	93	80 899 610	MNG	68
80 895 245	ESG, ESG 4, H5G, MSG 2, ZSG 3, ZSG 4, ZSG mini	96	80 898 254	DSG 4, ESG 4, H5G	94	80 899 614	MNG	74
80 895 246	MSG 2	96	80 898 325	H5G-S, H5G, H5G-Z	23	80 901 080	ESG 4	26
80 895 318	ESG	92	80 898 412	H5G-S, DSG, DSG 4, ESG 4, HDG 2, H5G, MSG 2, NCG, NCG 2, ZSG	103	80 901 125	ESG 4	26
80 895 320	ESG	92	80 898 414	H5G-S, DSG, DSG 4, ESG 4, HDG 2, H5G, MSG 2, NCG, NCG 2, ZSG	103	80 901 160	ESG 4	26
80 895 332	ESG, H5G, MSG 2, ZSG mini	93	80 898 416	H5G-S, DSG, DSG 4, ESG 4, HDG 2, H5G, MSG 2, NCG, NCG 2, ZSG	103	80 901 300	ESG 4	27
80 895 334	ESG	95	80 898 418	H5G-S, DSG, DSG 4, ESG 4, HDG 2, H5G, MSG 2, NCG, NCG 2, ZSG	103	80 901 301	ESG 4	27
80 895 335	ESG, H5G-S, DSG, H5G, MSG 2, NCG 2, ZSG, ZSG 3, ZSG 4, ZSG mini	92	80 898 425	H5G-S, H5G, H5G-Z	23	80 901 302	DSG 4, ESG 4	27
80 895 336	ESG, ZSG mini	95	80 898 500		86	80 901 303	DSG 4, ESG 4	52
80 895 337	ESG, H5G, MSG 2, ZSG 3, ZSG 4, ZSG mini	97	80 898 525	H5G-S, H5G, H5G-Z	23	80 901 304	ESG 4	27
80 895 338	ESG, ZSG mini	34	80 898 625	H5G-S, H5G, H5G-Z	23	80 901 305	ESG 4	28
80 895 340	ESG, H5G-S, DSG, H5G, MSG 2, NCG 2, ZSG, ZSG 3, ZSG 4, ZSG mini	94	80 898 725	H5G	25	80 901 306	DSG 4, ESG 4	27
80 895 341	ESG	96	80 898 826	H5G-S, H5G, H5G-Z	25	80 901 307	ESG 4	27
80 895 343	ESG, DSG, HDG 2, HSG, NCG, NCG 2, ZSG, ZSG mini	94	80 898 827	H5G-S, H5G, H5G-Z	25	80 901 308	ESG 4	28
80 895 345	ESG, DSG, HDG 2, MSG 2, NCG, NCG 2, ZSG, ZSG mini	92	80 898 923	ESG, MSG 2, ZSG mini	96	80 901 309	DSG 4, ESG 4, ZSG 4	96
80 895 346	ESG, ZSG mini	95	80 898 924	ESG, DSG, HDG 2, HSG, NCG, NCG 2, ZSG, ZSG mini	96	80 901 310	DSG 4, ESG 4, ZSG 4	96
80 895 347	ESG, ZSG mini	95	80 898 925	DSG, HDG 2, HSG, NCG, NCG 2, ZSG	96	80 901 311	ESG 4, ZSG 4	96
80 895 348	ESG, ZSG mini	34	80 898 926	HDG 2, NCG, NCG 2	96	80 901 500		86
80 895 349	ESG, ZSG mini	95	80 899 012	MNG	74	80 901 501	ESG 4	28
80 897 004	ESG	98	80 899 014	MNG	74	80 901 502	ESG 4	28
80 897 005	ESG	98	80 899 016	MNG	74	80 901 503	ESG 4	28
80 897 011	ESG	98	80 899 018	MNG	74	80 901 700	ESG 4, DSG 4	98
80 897 016	ESG	98	80 899 025	MNG	73	80 901 701	ESG 4, DSG 4	98
80 897 019	ESG	102	80 899 026	MNG	74	80 901 702	ESG 4, DSG 4	98
80 897 040	ESG	29	80 899 040	MNG	73	80 901 703	ESG 4, DSG 4	98
80 897 067	ESG	30	80 899 112	MNG, MSG 2	103	80 901 704	ESG 4, DSG 4	98
80 897 100	ESG	30	80 899 114	MNG, MSG 2	103	80 901 705	ESG 4, DSG 4	98
80 897 114	ESG, DSG 4, H5G-Z	100	80 899 116	MNG, MSG 2	103	80 901 706	ESG 4, DSG 4	98
80 897 116	ESG, DSG 4, H5G-Z	100	80 899 118	MNG, MSG 2	103	80 901 707	ESG 4, DSG 4	98
80 897 118	ESG, DSG 4, H5G-Z	100	80 899 120	MNG	73	80 901 708	ESG 4, DSG 4	98
80 897 121	ESG	103	80 899 124	MNG, MSG 2	102	80 906 080	DSG 4	51
80 897 500		85	80 899 125	MNG	63	80 906 125	DSG 4	51
80 897 900	ESG	34	80 899 126	MNG	73	80 906 126	DSG 4	51

Article No.	Tool type	Pages	Article No.	Tool type	Pages	Article No.	Tool type	Pages
80 906 300	DSG 4	52	80 892 21800	DSG, DSG 4, ESG 4, HDG 2, HSG, NCG, NCG 2, ZSG	93	80 906 13100	DSG 4	51
80 906 301	DSG 4	52	80 892 21900	ESG 4, HDG 2, NCG, NCG 2, ZSG 4	93	80 906 30900	ESG 4, ZSG 4, DSG 4	93
80 906 302	DSG 4	52	80 892 22800	ESG, DSG, HDG 2, HSG, NCG, NCG 2, ZSG, ZSG mini	96			
80 906 303	DSG 4	53	80 892 22900	DSG, DSG 4, ESG 4, HDG 2, HSG, NCG, NCG 2, ZSG, ZSG 4	96			
80 906 304	DSG 4	52	80 892 23000	ESG 4, HDG 2, NCG, NCG 2, ZSG 4	96			
80 906 305	DSG 4	52	80 892 24700	ESG, DSG, HDG 2, HSG, NCG, NCG 2, ZSG, ZSG mini	96			
80 906 306	DSG 4	52	80 892 24800	H5G-S, DSG, DSG 4, ESG 4, HDG 2, HSG, H5G, NCG, NCG 2, ZSG, ZSG 4	96			
80 906 307	DSG 4	53	80 892 24900	ESG 4, HDG 2, NCG, NCG 2, ZSG 4	96			
80 906 500	DSG 4	53	80 892 26100	ESG, DSG, HDG 2, HSG, NCG, NCG 2, ZSG, ZSG mini	97			
80 906 715	DSG 4	99	80 892 26200	H5G-S, DSG, DSG 4, ESG 4, HDG 2, HSG, H5G, NCG, NCG 2, ZSG, ZSG 4	97			
80 906 721	DSG 4	99	80 892 26300	ESG 4, HDG 2, NCG, NCG 2, ZSG 4	97			
80 906 722	DSG 4	99	80 892 29000	ESG, DSG, HSG, H5G, NCG, NCG 2, ZSG, ZSG mini	91			
80 906 725	DSG 4	99	80 892 29100	H5G-S, DSG, DSG 4, ESG 4, HDG 2, HSG, H5G, NCG, NCG 2, ZSG, ZSG 4	91			
80 906 732	DSG 4	99	80 892 29200	ESG, DSG, HSG, H5G, NCG, NCG 2, ZSG, ZSG mini	91			
80 906 812	DSG 4, ESG 4	100	80 892 29300	H5G-S, DSG, DSG 4, ESG 4, HDG 2, HSG, H5G, NCG, NCG 2, ZSG, ZSG 4	91			
80 906 814	DSG 4, ESG 4	100	80 892 29400	ESG, HDG 2, HSG, NCG	91			
80 906 816	DSG 4, ESG 4	100	80 892 29500	H5G-S, DSG, DSG 4, ESG 4, HDG 2, HSG, H5G, NCG, NCG 2, ZSG, ZSG 4	91			
80 906 818	DSG 4, ESG 4	100	80 892 29700	ESG 4, HDG 2, NCG, NCG 2, ZSG 4	91			
80 907 125	H5G-Z	18	80 892 29800	ESG 4, HDG 2, NCG, NCG 2, ZSG 4	91			
80 907 126	H5G-Z	18	80 892 29900	ESG 4, HDG 2, NCG, NCG 2, ZSG 4	91			
80 907 127	H5G-Z	18	80 892 51000	HDG 2	38			
80 907 300	H5G-S, H5G, H5G-Z	24	80 892 51100	HDG 2	38			
80 907 301	H5G-Z	25	80 892 51200	HDG 2	38			
80 907 302	DSG 4, ESG 4, HDG 2, HSG, NCG, ZSG 4, H5G-Z	94	80 899 51500	MNG	74			
80 907 500	H5G-Z	25	80 899 63000	MNG	66			
80 907 501	H5G-Z	25	80 899 63100	MNG	66			
80 875 27000		101	80 899 63200	MNG	67			
80 878 08300	ZSG 4	41	80 899 63300	MNG	67			
80 878 08400	ZSG 4	40	80 899 63400	MNG	74			
80 878 51100	ZSG 4	44	80 899 63500	MNG	74			
80 878 51200	ZSG 4	44	80 899 63600	MNG	74			
80 878 54000	MNG	71	80 899 63700	MNG	74			
80 878 54100	ZSG 4	71	80 899 63800	MNG	74			
80 878 54200		71	80 899 63900	MNG	74			
80 878 81100	ZSG 4	44	80 899 64000	MNG	74			
80 878 81200	ZSG 4	44	80 899 64100	MNG	74			
80 888 51000	MSG 2	58	80 899 65000	MNG	64			
80 888 51100	MSG 2	60	80 899 65100	MNG	64			
80 888 51200	MSG 2	60	80 899 65200	MNG	65			
80 888 51300	MSG 2	60	80 899 81200	MNG	74			
80 892 20100	ESG, DSG, HDG 2, HSG, NCG, NCG 2, ZSG, ZSG mini	95	80 899 81400	MNG	74			
80 892 20200	DSG, DSG 4, ESG 4, HDG 2, HSG, NCG, NCG 2, ZSG, ZSG 4	95	80 899 81600	MNG	74			
80 892 20300	ESG 4, HDG 2, NCG, NCG 2, ZSG 4	95	80 899 81800	MNG	74			
80 892 20400	ESG, DSG, HDG 2, HSG, NCG, NCG 2, ZSG, ZSG mini	92	80 901 31200	ESG 4	27			
80 892 20500	DSG, DSG 4, ESG 4, HDG 2, HSG, NCG, NCG 2, ZSG, ZSG 4	92	80 901 31300	DSG 4, ZSG 4, ESG 4	52			
80 892 20600	ESG 4, HDG 2, NCG, NCG 2, ZSG 4	92	80 901 31400	ESG 4	27			
80 892 20700	ESG, DSG, HSG, H5G, NCG, NCG 2, ZSG, ZSG mini	94	80 901 31500	DSG 4, ESG 4	52			
80 892 20800	DSG, DSG 4, ESG 4, HDG 2, HSG, NCG, NCG 2, ZSG, ZSG 4	94	80 901 31600	ESG 4	27			
80 892 20900	ESG 4, H5G, NCG, NCG 2, ZSG 4	94	80 901 31700	ZSG 4, ESG 4	27			
80 892 21400	ESG, DSG, HDG 2, HSG, NCG, NCG 2, ZSG, ZSG mini	93	80 906 12700	DSG 4	51			
80 892 21500	H5G-S, DSG, DSG 4, ESG 4, HDG 2, HSG, H5G, NCG, NCG 2, ZSG, ZSG 4	93	80 906 12800	DSG 4	51			
80 892 21600	ESG 4, HDG 2, NCG, NCG 2, ZSG 4	93	80 906 12900	DSG 4	51			
80 892 21700	ESG, DSG, HDG 2, HSG, NCG, NCG 2, ZSG, ZSG mini	93	80 906 13000	DSG 4	51			

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