NEW GENERATION

The sealed quick jaw change manual chuck

HG-2G

► ALL EXISTING TOP JAWS CAN BE USED

Customer Benefits

	HG-N	HG-2G
Minimized set up times due to the quick jaw change system	■	■
Highest accuracy of the jaw change	■	■
Universal applicable	■	■
Case hardened parts	■	■
Wedge bar drive	■	■
Jaw safety interlock	■	■
Ideal for vertical mounting of chuck		■
Sealed wedge bars and base jaws		■
Optimized lubrication in the jaw guides		■
Low maintenance		■

Economic and Efficiency

Example: Maintenance costs at high accumulation of dirt / coolant

		HG-N	HG-2G
Lubrication interval		every shift	every 3rd shift
Required time for lubricating		10 Min.	10 Min.
Working days / year		230	230
Required time / year		2.300 Min.	767 Min.
Machine costs / hour		$ 60.–	$ 60.–
Total costs / year		$ 2.300.–	$ 767.–
Profit / year *	**at 1-shift operation**		**$ 1.533.–**
	at 2-shift operation		**$ 3.066.–**
	at 3-shift operation		**$ 4.599.–**

* Additionally the profit is increased by reducing the down time of the machine, as the 2G-chucks also need less disassembling for cleaning.

Clamping glossary

HG-2G: Evolution of the quick jaw change power chuck HG-N.
The HG-2G features additional seals and an improved lubrication system for low maintenance. **The chuck still offers all the same advantages as the HG-N.**

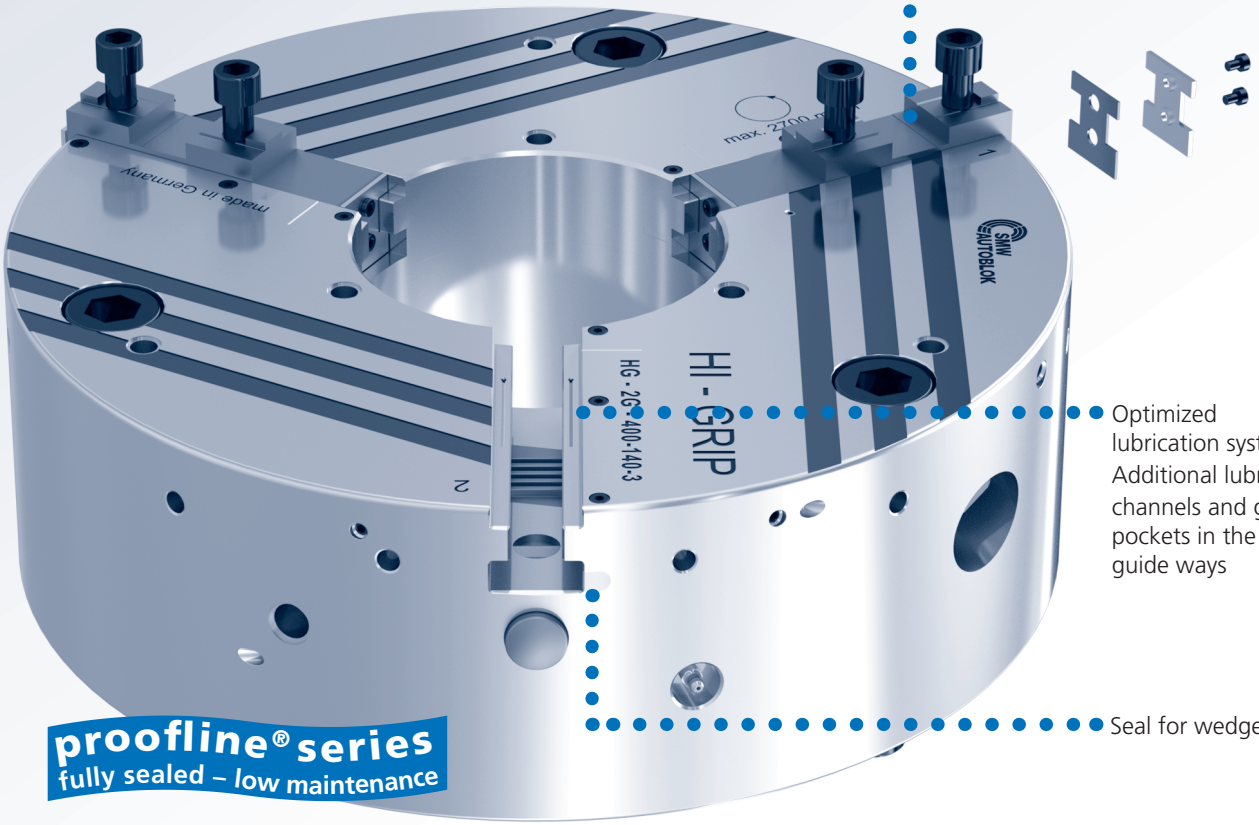
The proven wedge bar drive guaranties unmatched accuracy and rigidity. A low loss of grip force due to centrifugal force makes the chuck ideal for high speed applications.

Sealing: The HG-2G is sealed by seals attached to both faces of the base jaws. Also the wedge bars are protected by mechanical seals. The seals **protect the chuck** against penetration of dirt and swarf.

Low Maintenance: The **lubrication system of the HG-2G is optimized**. Additional lubrication channels and grease pockets integrated in the jaw guide ways ensure constant clamping force. The lubrication intervals are significantly longer reducing down times and cost for maintenance.

Mass production: The sealing and the new lubrication system make the HG-2G also suitable for use on machining centers or turning and milling centers in vertical operation.

Compatibility: The HG-2G is interchangeable with the standard series of quick jaw change chucks HG-N. Existing master jaws still can be used without sealing. A small modification made to the master jaws and a **mounting kit** can upgrade existing master jaws to become 2G master jaws.

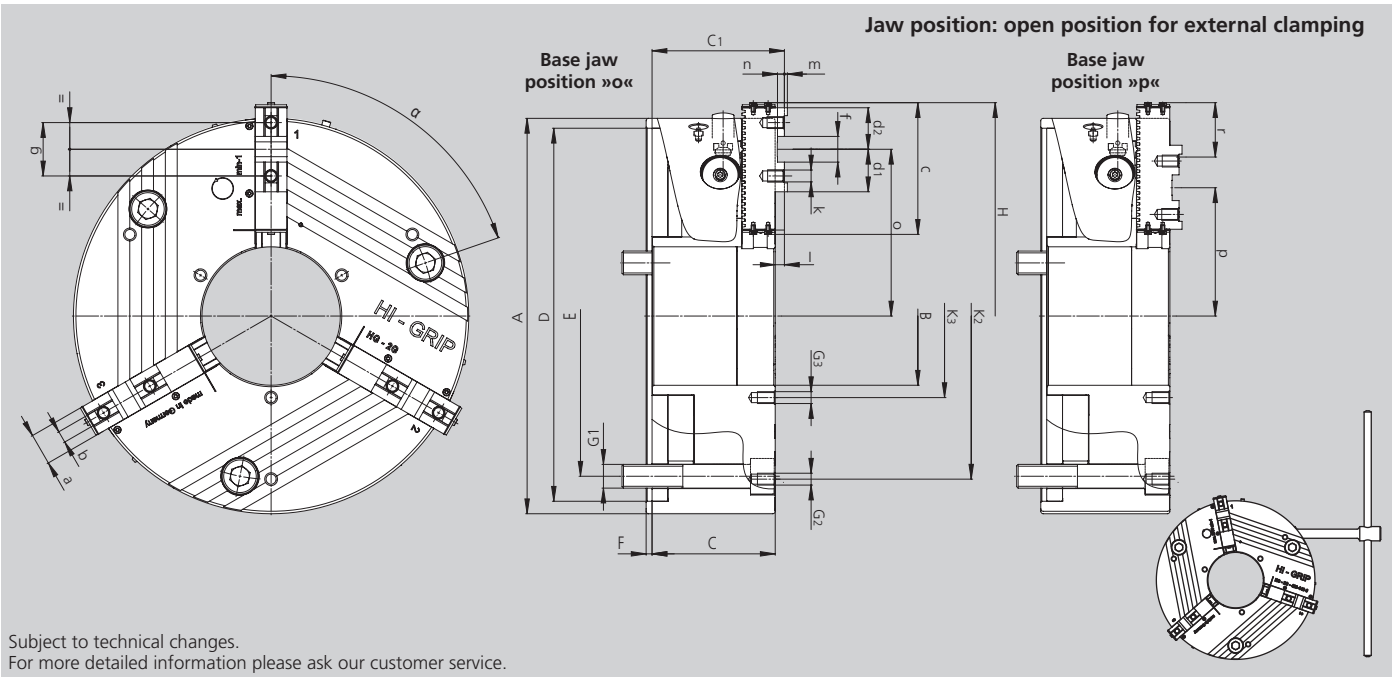


HG-2G

QUICK JAW CHANGE
Jaw system original SMW

Manual chuck

■ Main dimensions and technical data

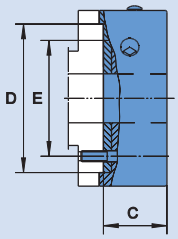


Subject to technical changes.
For more detailed information please ask our customer service.

SMW-AUTOBLOK Type		HG-2G 315-102	HG-2G 400-140	HG-2G 500-165	HG-2G 630-254
Mounting	**Size**	**Z300**	**Z380**	**Z380**	**Z380**
	A	315	400	500	630
	B	102	140	165	254
	C	110,8	124.6	136	143
	C1	120,1	133.9	146	153
H6	**D**	300	380	380	380
	E	235	330.2	330.2	330.2
	F	6	6	8	8
	G1	M20	M24	M24	M24
	G2	M10 / 3x120°	M12 / 3 x 120°	M16 / 9 x 40°	M16 / 6 x 60°
	G3	M10 / 3x120°	M12 / 3 x 120°	M12 / 3 x 120°	M12 / 3 x 120°
Swing dia.	**H**	361	432	on request	on request
	K2	268	330	420	550
	K3	120	165	195	290
	α	71°	71°	71°	74°
Master jaw		GBK-2G 315	GBK-2G 400	GBK-2G 500	GBK-2G 630
	a	32	32	45	45
f7	**b**	12	12	18	18
	c	122,2	133.2	167.7	209.7
	d1	36	43	53	53
	d2	34	42	48.25	49.7
H7	**f**	20	26	30	30
	g	40	54	60	60
Thread / thread depth	**k**	M12 / 17	M12 / 17	M16 / 34	M16 / 34
	l	9,3	9.3	10	10
	m	3	3	4	4
	n	6	7	9	9
Max. / min.	**o**	138,2 / 99,7	168.8 / 113.8	211 / 141	291.5 / 200.5
Max. / min.	**p**	94,2 / 55,7	129.8 / 74.8	150 / 80	191.5 / 100.5
Base jaw tooth pitch	**-**	5,5	5.5	7	7
Master jaw offset	**r**	38,5	55	70	91
Master jaw offset	teeth	7	10	10	13
Usable jaw stroke	mm	7	8.5	11.5	13
Max. total gripping force	kN	180	220	250	250
At max. torque Md	Nm	200	250	260	350
Speed	r.p.m.	3500	2700	1500	1000
Weight without jaws	kg	53	99	161	270
Moment of inertia	kg·m²	0,73	1.9	4.5	12

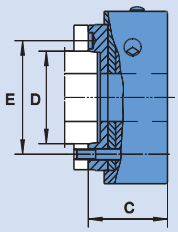
Further sizes on request.

Chuck with center mounting DIN 6350



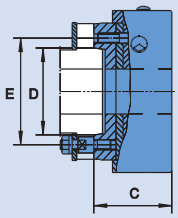
Chuck	HG-2G 315-102	HG-2G 400-140	HG-2G 500-165	HG-2G 630-254
Mounting	Z300	Z380	Z380	Z380
C	111	125	136	136
D	300	380	380	380
E	235,0	330.2	330.2	330.2
Chuck with GBK-2G + WAK				
Id. No.	164104	161729	161813	161827
Chuck with GBK-2G + GUA				
Id. No.	164105	161800	161814	161828

Chuck with ISO-A mounting DIN 55026



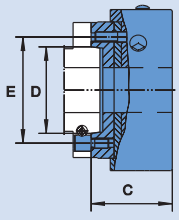
Chuck	HG-2G 315-102		HG-2G 400-140		HG-2G 500-165		HG-2G 630-254	
Mounting	A08	A11	A11	A15	A11	A15	A11	A15
C	141	141	165	161	176	172	176	172
D	139,73	196,88	196.88	285.77	196.88	285.77	196.88	285.77
E	171,4	235,0	235.0	330.2	235.0	330.2	235.0	330.2
Chuck with GBK-2G + WAK								
Id. No.	164106	164108	161801	161807	161815	161821	161829	161835
Chuck with GBK-2G + GUA								
Id. No.	164107	164109	161802	161808	161816	161822	161830	161836

Chuck with bayonet mounting DIN 55027 Type C



Chuck	HG-2G 315-102		HG-2G 400-140		HG-2G 500-165		HG-2G 630-254	
Mounting	C08	C11	C11	C15	C11	C15	C11	C15
C	141	141	161	161	172	172	172	172
D	139,73	196,88	196.88	285.77	196.88	285.77	196.88	285.77
E	171,4	235,0	235.0	330.2	235.0	330.2	235.0	330.2
Chuck with GBK-2G + WAK								
Id. No.	164110	164112	161803	161809	161817	161823	161831	161837
Chuck with GBK-2G + GUA								
Id. No.	164111	164113	161804	161810	161818	161824	161832	161838

Chuck with Camlock mounting DIN 55029 Type S



Chuck	HG-2G 315-102		HG-2G 400-140		HG-2G 500-165		HG-2G 630-254	
Mounting	S08	S11	S11	S15	S11	S15	S11	S15
C	154	154	175	175	186	186	186	186
D	139,73	196,88	196.88	285.77	196.88	285.77	196.88	285.77
E	171,4	235,0	235.0	330.2	235.0	330.2	235.0	330.2
Chuck with GBK-2G + WAK								
Id. No.	164114	164116	161805	161811	161819	161825	161833	161839
Chuck with GBK-2G + GUA								
Id. No.	164115	164117	161806	161812	161820	161826	161834	161840

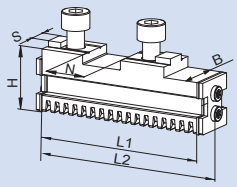
Parts included: Fixing elements (screws resp. studs resp. camlock bolts).
Further sizes on request.

HG-2G

QUICK JAW CHANGE

■ Jaws

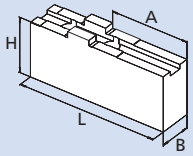
GBK-2G
Hardened base jaws



Chuck	HG-2G 315	HG-2G 400	HG-2G 500	HG-2G 630
Jaw type	GBK-2G 315	GBK-2G 400	GBK-2G 500	GBK-2G 630
Id. No.	161329	161605	161843	161846
B	32	32	45	45
H	43	43	57	57
L1	112	123	158	198
L2 *	122.2	133.2	168.2	208.2
N	20	26	30	30
S	12	12	18	18
kg / set	2.7	3.0	7.1	9.0

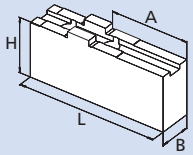
* Dimension incl. seals, cover and screws

WAK
Soft top jaws



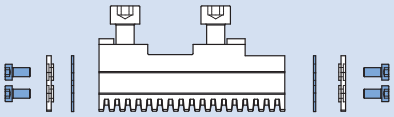
Chuck	HG-2G 315	HG-2G 400	HG-2G 500	HG-2G 630
Jaw type	WAK 250-10	WAK 400-10	WAK 500-10	WAK 500-10
Id. No.	012493	012494	012495	012495
B	30	35	50	50
H	50	54	73	73
L	125	145	180	180
A	70	74	100	100
kg / set	3,6	5.8	13.7	13.7

WAKS
Wide soft top jaws



Chuck	HG-2G 315	HG-2G 400	HG-2G 500	HG-2G 630
Jaw type	WAKS 250-30	WAKS 400-30	WAKS 500-30	WAKS 500-30
Id. No.	012499	012500	012501	012501
B	80	80	90	90
H	55	64	73	73
L	90	100	130	130
A	44	44	65	65
kg / set	8,5	11.0	16.4	16.4

Seal Kit

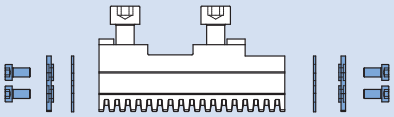


for hardened base jaws GBK-2G

Consisting of seals (6 pcs.)
and mounting screws (12 pcs.)

HG-2G	315 / 400	500	630
Seal kit type	GBK-2G 315 / 400	GBK-2G 500	GBK-2G 630
Id. No.	205384	206915	206915

Mounting Kit



for hardened base jaws GBK-2G

Consisting of seals (6 pcs.), covers (6 pcs.)
and mounting screws (12 pcs.)

HG-2G	315 / 400	500	630
Mounting kit type	GBK-2G 315 / 400	GBK-2G 500	GBK-2G 630
Id. No.	205388	206916	206916

Advice: Existing master jaws still can be used without seals. A small modification made to the master jaws and a mounting kit can upgrade existing master jaws to become 2G master jaws (instruction for the rework on request).



JAWS-CATALOG

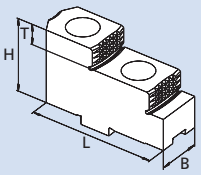
Request or download: www.smw-autoblok.de

■ Jaws
■ Grease

HG-2G

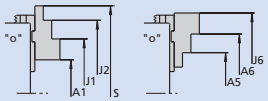
QUICK JAW CHANGE

GUA
Hardened reversible stepped top jaws

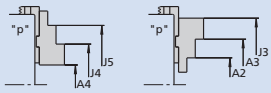


Clamping ranges

Base jaw position "o"



Base jaw position "p"



Chuck	HG-2G 315	HG-2G 400	HG-2G 500	HG-2G 630
Jaw type	GUA 250	GUA 400	GUA 500	GUA 500
Id. No.	012486	012487	012488	012488
B	30	36	45	45
H	50	56	70	70
L	90	105	130	130
T	14	15	20	20
kg / set	1,9	3.2	10.8	10.8
A1	120-205	138-258	150-308	265-469
A2	48-120	78-188	37-181	58-262
A3	130-200	186-298	144-302	179-383
A4	36-188	60-183	33-191	65-269
A5	120-205	143-268	143-301	258-462
A6	205-285	253-378	264-422	379-583
J1	202-285	218-338	259-417	374-578
J2	280-365	328-448	380-538	495-699
J3	208-280	263-380	253-411	288-492
J4	110-200	138-263	139-297	174-378
J5	198-280	248-373	260-418	295-499
J6	276-365	333-458	373-531	488-692
S	390	-	570	732



JAWS-CATALOG
Request or download:
www.smw-autoblok.de

Important for maintenance and safe operation, to be ordered with the chuck

Grease K05®

Special grease for manual and power chucks



Cartridge 14 Oz. (DIN 1284)
Grease content 500 g
Id. No. 016440

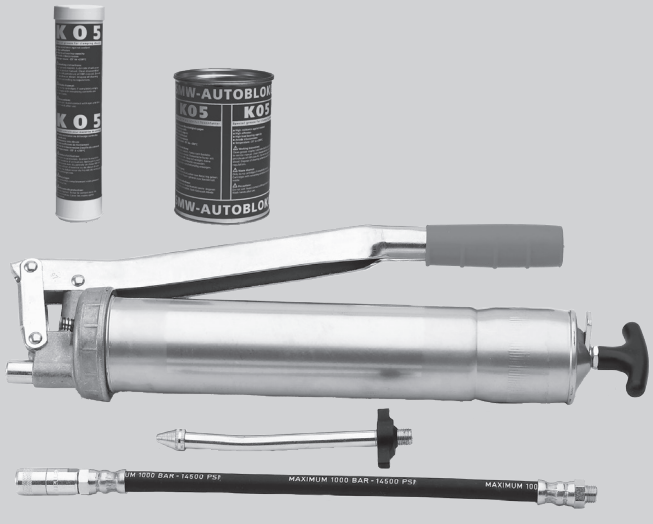
Can 1000 g
Id. No. 011881



- High adhesion
- High resistance against coolant
- High load bearing capacity
- Low friction coefficient
- Avoids tribocorrosion

Grease gun

Grease gun (DIN 1283) for cartridges 14 Oz. (DIN 1284)



Lubrication set Id. No. 083726
Supply range
- Grease gun
- 1 Adapter flexible for high pressure grease nipple
- 1 Adapter for cone grease nipple