

NEW GENERATION

The sealed quick jaw change manual chuck

HG-2G

Customer Benefits

	HG-N	HG-2G
Minimized set up times due to the quick jaw change system	■	■
Highest accuracy of the jaw change	■	■
Universal	■	■
Case hardened parts	■	■
Wedge bar drive	■	■
Jaw safety interlock	■	■
Ideal for vertical mounting of chuck		■
Sealed base jaws		■
Sealed chuck body		■
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 per year	€ 2.300.–	€ 767.–
Profit per year	at 1-shift operation	€ 1.533.–
	at 2-shift operation	€ 3.066.–
	at 3-shift operation	€ 4.599.–

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 advantages same 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.

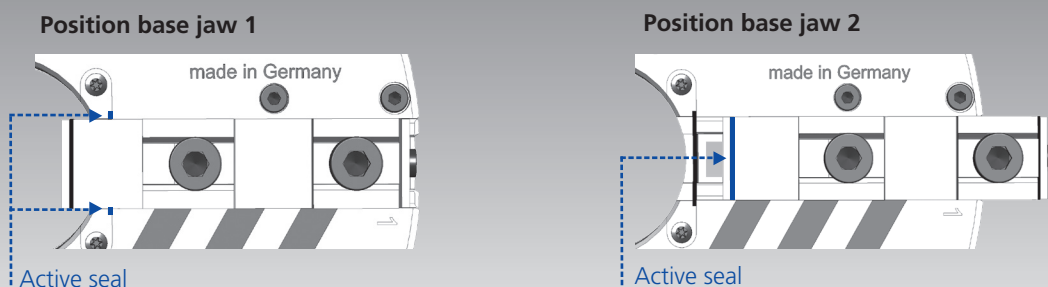
Sealing: The HG-2G is sealed by seals attached to both faces of the base jaws and additional seals in the chuck body. The seals protect the chuck against penetration of dirt and swarf. Also the wedge bar is protected by mechanical seals.

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.

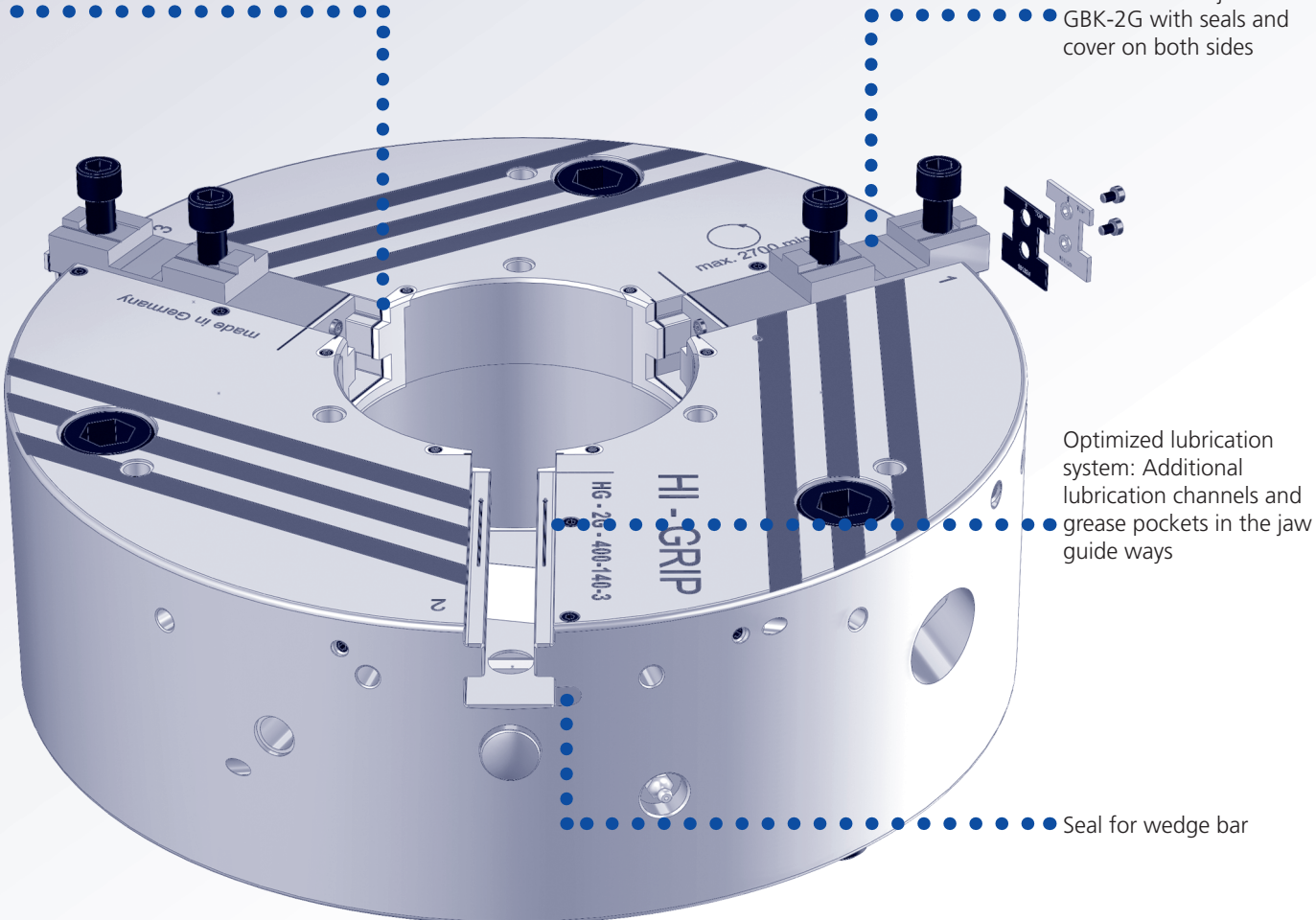
Mass production: The sealing and the new lubrication system make the HG-2G also suitable for use on machining centers or turning and milling centers in vertical operation.

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.

Safe sealing in every position of the base jaw



Seals in the chuck body to direction of the bore of the chuck

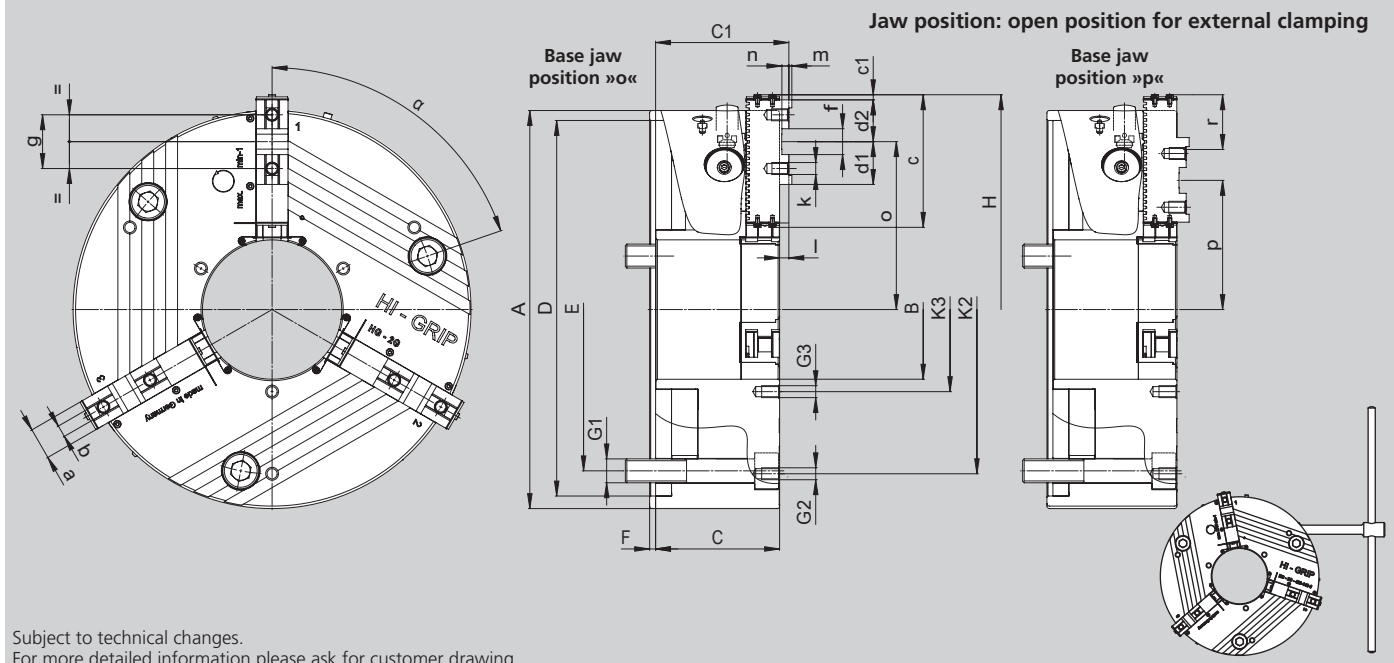


HG-2G

QUICK JAW CHANGE
Jaw system original SMW

Manual chucks Ø 400 - 630 mm

Main dimensions and technical data



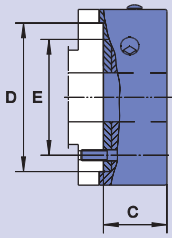
Subject to technical changes.
For more detailed information please ask for customer drawing.

SMW-AUTOBLOK Type HG-2G		400-140	500-165	630-254	
Mounting	Size	Z380	Z380	Z380	
H6	A	400	500	630	
	B	140	165	254	
	C	124.6	136	143	
	C1	133.9	146	153	
	D	380	380	380	
	E	330.2	330.2	330.2	
	F	6	8	8	
	G1	M24	M24	M24	
	G2	M12/3 x 120°	M16/9 x 40°	M16/6 x 60°	
	G3	M12/3 x 120°	M12/3 x 120°	M12/3 x 120°	
Swing dia.	H	432	on request	on request	
	K2	330	420	550	
	K3	165	195	290	
	α°	71	71	74	
	Master jaw		GBK-2G 400	GBK-2G 500	GBK-2G 630
	f7	a	32	45	45
		b	12	18	18
c1		133.2	on request	on request	
d1		43	on request	on request	
d2		42	on request	on request	
H7	f	26	30	30	
	g	54	60	60	
Thread/thread depth	k	M12/17	M16/34	M16/34	
	l	9.3	10	10	
	m	3	4	4	
	n	7	9	9	
	o	168.8/113.8	211/141	291.5/200.5	
max./min.	p	129.8/74.8	150/80	191.5/100.5	
Base jaw tooth pitch	-	5.5	7	7	
Master jaw offset	r	55	70	91	
Master jaw offset	teeth	10	10	13	
Usable jaw stroke	mm	8.5	11.5	13	
max. total gripping force	kN	220	250	250	
at max. torque Md	Nm	250	260	260	
Speed	r.p.m.	2700	1500	1000	
Weight without jaws	kg	99	161	270	
Moment of inertia	kg·m²	1.9	4.5	12	

Further sizes on request.

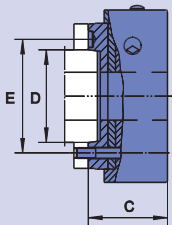
Ordering review

Chuck with center mounting DIN 6350



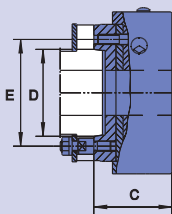
HG-2G	400-140		500-165		630-254	
Mounting	Z380		Z380		Z380	
C	125		136		136	
D	380		380		380	
E	330.2		330.2		330.2	
Chuck with GBK-2G + WAK						
Id. No.	161729		161813		161827	
Chuck with GBK-2G + GUA						
Id. No.	161800		161814		161828	

Chuck with ISO-A mounting DIN 55026



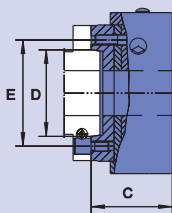
HG-2G	400-140		500-165		630-254	
Mounting	A11	A15	A11	A15	A11	A15
C	165	161	176	172	176	172
D	196.88	285.77	196.88	285.77	196.88	285.77
E	235.0	330.2	235.0	330.2	235.0	330.2
Chuck with GBK-2G + WAK						
Id. No.	161801	161807	161815	161821	161829	161835
Chuck with GBK-2G + GUA						
Id. No.	161802	161808	161816	161822	161830	161836

Chuck with bayonet mounting DIN 55027 Type C



HG-2G	400-140		500-165		630-254	
Mounting	C11	C15	C11	C15	C11	C15
C	161	161	172	172	172	172
D	196.88	285.77	196.88	285.77	196.88	285.77
E	235.0	330.2	235.0	330.2	235.0	330.2
Chuck with GBK-2G + WAK						
Id. No.	161803	161809	161817	161823	161831	161837
Chuck with GBK-2G + GUA						
Id. No.	161804	161810	161818	161824	161832	161838

Chuck with Camlock mounting DIN 55029 Type S



HG-2G	400-140		500-165		630-254	
Mounting	S11	S15	S11	S15	S11	S15
C	175	175	186	186	186	186
D	196.88	285.77	196.88	285.77	196.88	285.77
E	235.0	330.2	235.0	330.2	235.0	330.2
Chuck with GBK-2G + WAK						
Id. No.	161805	161811	161819	161825	161833	161839
Chuck with GBK-2G + GUA						
Id. No.	161806	161812	161820	161826	161834	161840

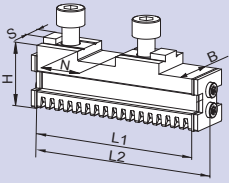
Parts included: Fixing elements (screws resp. studs resp. camlock bolts)
Further sizes on request.

HG-2G

JAWS

QUICK JAW CHANGE

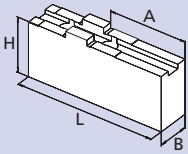
GBK-2G Hardened base jaws



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

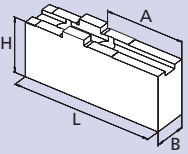
* Dimension incl. seals, cover and screws

WAK Soft top jaws



Chuck	HG-2G 400	HG-2G 500	HG-2G 630
Jaw type	WAK 400-10	WAK 500-10	WAK 500-10
Id. No.	012494	012495	012495
B	35	50	50
H	54	75.5	75.5
L	145	180	180
A	74	100	100
kg/set	5.8	13.7	13.7

WAKS Wide soft top jaws

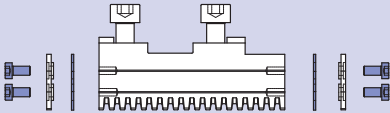


Chuck	HG-2G 400	HG-2G 500	HG-2G 630
Jaw type	WAKS 400-30	WAKS 500-30	WAKS 500-30
Id. No.	012500	012501	012501
B	80	90	90
H	64	73	73
L	100	130	130
A	44	65	65
kg/set	11.0	16.4	16.4

Seal Kit

for hardened base jaws GBK-2G

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

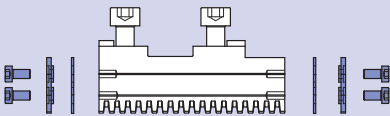


HG-2G	400	500	630
Jaw type	GBK-2G 400	GBK-2G 500	GBK-2G 630
Id. No.	205385	206915	206915

Mounting Kit

for hardened base jaws GBK-2G

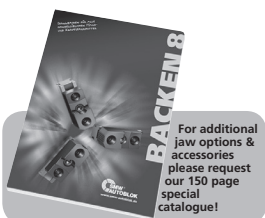
Consisting of seals (6 pcs.), covers (6 pcs.)
and mounting screws (12 pcs.)



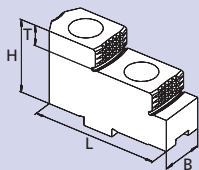
HG-2G	400	500	630
Jaw type	GBK-2G 400	GBK-2G 500	GBK-2G 630
Id. No.	205389	206916	206916

Advice:

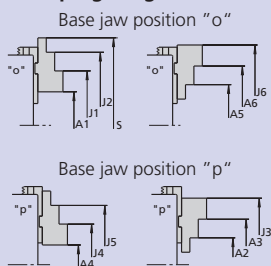
Existing master jaws still can be used without seals. A small modification made to the master jaws and a mounting kit can upgrade existing master jaws to become 2G master jaws (instruction for the rework on request).



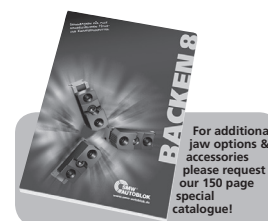
GUA
Hardened reversible stepped top jaws



Clamping ranges



Chuck	HG-2G 400	HG-2G 500	HG-2G 630
Jaw type	GUA 400	GUA 500	GUA 500
Id. No.	012487	012488	012488
B	36	45	45
H	56	70	70
L	105	130	130
T	15	20	20
kg/set	3.2	10.8	10.8
A1	138-258	190-336	190-336
A2	78-188	80-200	80-200
A3	186-298	200-320	200-320
A4	60-183	55-200	55-200
A5	143-268	190-335	190-335
A6	253-378	315-455	315-455
J1	218-338	305-450	305-450
J2	328-448	425-570	425-570
J3	263-380	335-450	335-450
J4	138-263	170-310	170-310
J5	248-373	290-430	290-430
J6	333-458	425-570	425-570
S	-	590	590



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
- High gripping force
- Avoids tribocorrosion

Grease gun

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

■ Also refillable from grease can 1000 g.



Lubrication set Id. No. 083726

- Supply range
- Grease gun
 - 1 Adapter flexible for high pressure grease nipple
 - 1 Adapter for cone grease nipple