

HFKS-2G

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High precision optimized power chucks

- Weight reduced chuck body and large through hole
- Centrifugal force compensation
- Direct lubrication system



Application/customer benefits

- Universal use for turning and milling
- Flats on the chuck body for best accessibility with live tools and to reduce weight and inertia
- Wedge hook mechanism combined with a multiple jaw guidance guarantee maximum precision and sensitivity for the workpiece clamping
- Also suitable for large batch production, with heavy duty cutting or clamping of easy deformed workpieces
- Centrifugal force compensation for highest speed
- Constant clamping forces due to the direct lubrication system
- Maximum durability due to case hardened chuck components
- Wide range of standard top jaws

Technical features

- Centrifugal force compensation
- Multiple jaw guides
- Direct lubrication system
- Large through hole
- Wedge hook mechanism

Standard equipment

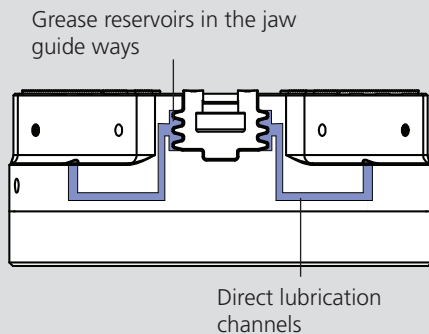
3 jaw chuck, 6 pcs. T-nuts and screws

Ordering example

3 jaw chuck HFKS-2G-D-210-58-3-Z170

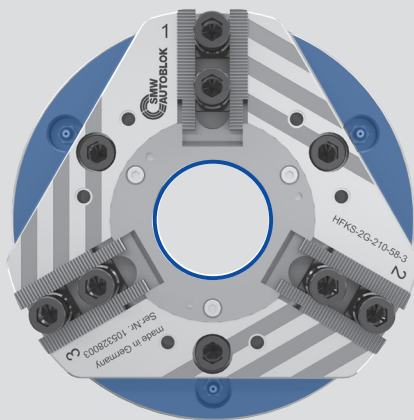
Product features

Direct lubrication system



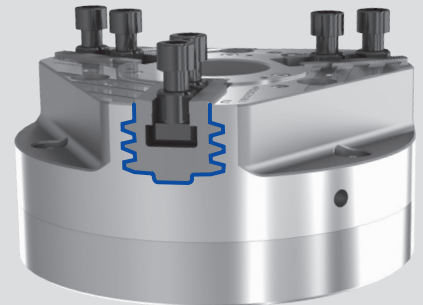
Direct lubrication system: additional lubrication channels and grease reservoirs integrated in the jaw guide ways ensure constant clamping force.

Weight optimized chuck body with large through hole



Flats on the chuck body for best accessibility with live tools and weight reduction. Large through hole.

Multi jaw guide



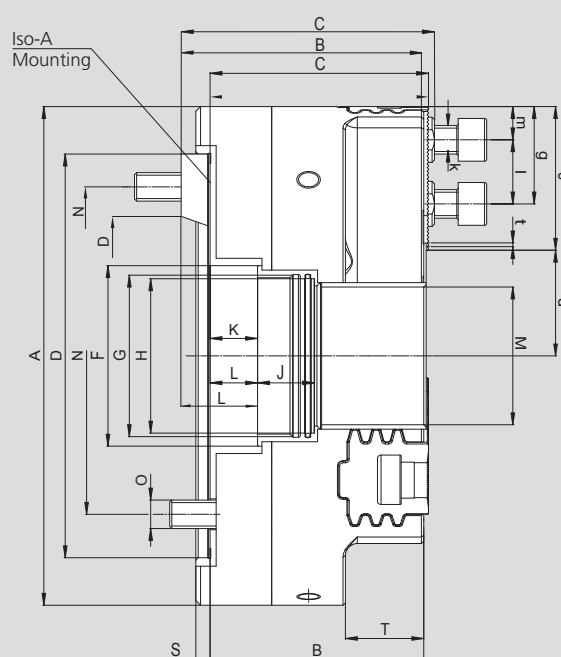
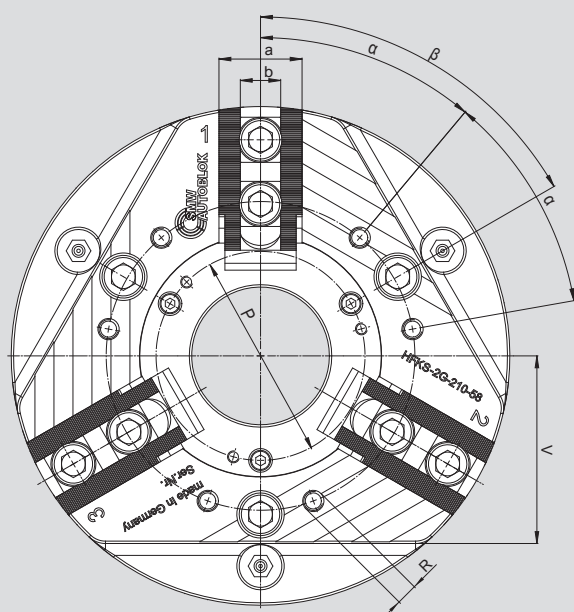
Wedge hook mechanism combined with a multi jaw guide and centrifugal force compensation for maximum precision and sensitivity (also for easy deformed workpieces). Ideal also for I. D. gripping and for milling.

High precision optimized power chucks

- Weight reduced chuck body and large through hole
- Centrifugal force compensation
- Direct lubrication system

HFKS-2G-D

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

SMW-AUTOBLOK Type HFKS-2G-D		210-58		255-72		320-88		320-88	
Mounting		Z170	A06	Z220	A08	Z220	A08	Z300	A11
Outside diameter	A	210		255		320		320	
	B	90	107	98	117	98	117	98	119
	C	92	109	100	119	100	119	100	121
	D H6	170	106.39	220	139.73	220	139.73	300	196.88
	F	76		90		110		110	
Piston thread / depth	G	M68 x 2 / 18		M82 x 2 / 24		M100 x 2 / 24		M100 x 2 / 24	
	H H6	65		77		93		93	
	J	24		34		34		34	
Piston stroke	K	20		20		20		20	
Max.	L	20	37	20	39	20	39	20	41
Through-hole	M	58		72		88		88	
Bolt circle	N	133.4		171.4		171.4		235	
Fixing bolt	O	M12		M16		M16		M20	
	P	130		150		170		170	
Thread / thread depth	R	M8 / 15		M8 / 15		M8 / 15		M8 / 15	
	S	6		6		6		6	
	T	33		42		42		42	
	V	79		100		100*		100*	
	a	35		45		45		45	
Groove width	b H7	17		21		21		21	
	c	60.5		72.5		99		99.5	
Max.	d	45.5		53.5		61		60.5	
Max. / min.	g	50 / 25		62 / 35		82 / 35		82 / 35	
Bolt ISO 4762 12.9	k	M12		M16		M16		M16	
Min.	l	19		19		25		25	
Min.	m	6		10		10		10	
inch serration	t	1/16" x 90°		1/16" x 90°		1/16" x 90°		1/16" x 90°	
	α°	40		40		30 / 60		30 / 60	
	β°	60		60		60		60	
Stroke per jaw	mm	5.25		5.25		5.25		5.25	
Max. actuating force	kN	40		60		60		60	
Max. total gripping force	kN	100		150		150		150	
Max. speed	r.p.m.	6300		4500		4000		4000	
Weight (without jaws)	kg	18.1		29.5		44.5		43.5	
Moment of inertia	kg·m²	0.12		0.26		0.60		0.58	

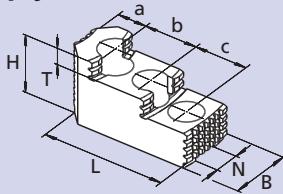
*Attention: Flat on distance V = 70 mm wide, then under 11.5°.

HFKS-2G-D

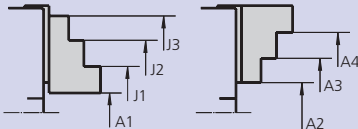
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■ Jaws

MHB-D (INCH SERRATION) Hardened reversible top jaws

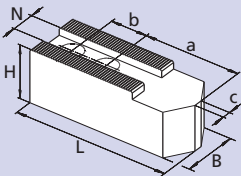


Clamping ranges



Chuck	HFKS-2G-D 210	HFKS-2G-D 255	HFKS-2G-D 320
Jaw type	MHB-D	MHB-D	MHB-D
Id. No.	12082036	12083036	12083036
Serration	1/16" x 90°	1/16" x 90°	1/16" x 90°
B	40	45	45
H	45	56	56
L	82	105	105
T	10.5	13.5	13.5
N	17	21	21
a	19	26	26
b	23	30	30
c	23	30	30
kg / set	1.71	2.85	2.85
A1	18-97	16-115	35-177
A2	-	-	-
A3	70-147	98-198	100-272
A4	148-227*	183-278*	185-357*
J1	73-147	73-158	75-232
J2	143-227*	148-242	145-317
J3	188-262*	223-318*	220-387*

AWB-D (INCH SERRATION) Soft top jaws



Chuck	HFKS-2G-D 210	HFKS-2G-D 255	HFKS-2G-D 320
Jaw type	AWB-D	AWB-D	AWB-D
Id. No.	081616	081618	081618
Serration	1/16" x 90°	1/16" x 90°	1/16" x 90°
B	40	50	50
H	40	50	50
L	90	120	120
N	17	21	21
a	53	70	70
b	22	28	28
c	4	6	6
kg / set	2.7	5.1	5.1

*Attention: The values are calculated theoretical values only. SMW-AUTOBLOK is recommending not to clamp any diameters, that are larger than the chuck O.D.

JAWS-CATALOG

Request or
download:
www.smw-autoblok.de

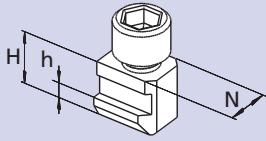


HFKS-2G-D

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■ T-Nuts

NST T-nuts suitable for HFKS-2G



Chuck	HFKS-2G-D 210	HFKS-2G-D 255	HFKS-2G-D 320
T-nut type	NST	NST	NST
Id. No.	016021	014788	014788
	17	21	21
N	23	27	27
H	7.5	10	10
h			
Cyl.-screw ISO 4762-12.9	M12 x 25	M16 x 35	M16 x 35
Torque Md max. (Nm)	70	150	150

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

Interflon Grease 2 / 3

Special grease for
manual and power chucks



Cartridge 14 Oz. (DIN 1284)
Grease content 400ml
Id. No. 205087

- Constant texture at high speed
- 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