





Precision clamping chucks for metrology, EDM, laser applications,

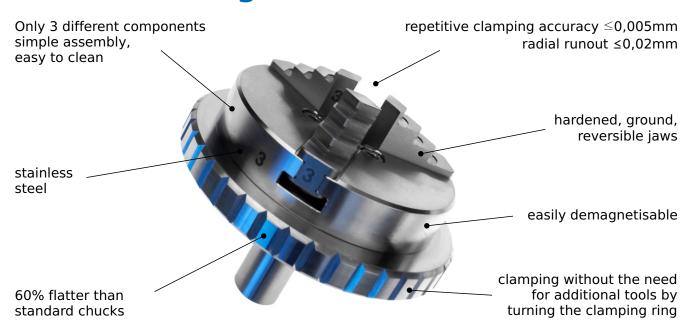
jewelry making...



Stainless hand-operated chucks

for EDM, metrology, ..

Benefits at a glance



Applications



metrology

measurement of gearbox shafts measurement of spindles testing of needles and cannulas



underwater applications

ultrasonic testing ultrasound cleaning



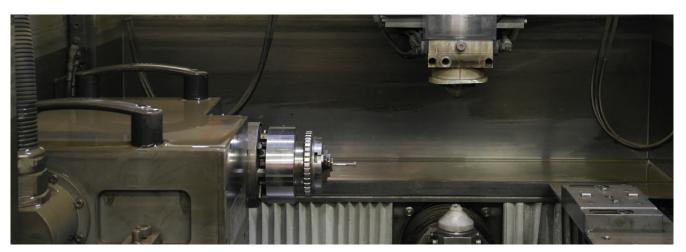
electrical discharge machining

wire erosion with rotating spindle usage as work piece holder in dividing machines



laser / electron beam

laser marking laser welding





for EDM, metrology, ..

All chucks of this type are made of stainless steel. The chucks are built to be flat and light. The adjustment of the chuck is done by turning the clamping ring. Thus a fast clamping can be done by hand - without the need for any additional tools.

Dimensions





DBF55

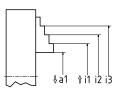


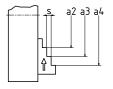


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	_		-	v	v

_		d2	d1
	x1		

	1 +
	d2 d1
x1	•





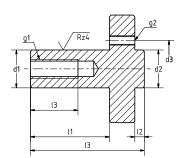
					- drilling	
outer dim.1	DBF34		DBF63		DBF140	
d_1	35	55,5	69,5	119	138	159
d ₂	12	11	8,2	15,2	58	23
X_1	18,5	29,8	29,25	42,7	43,6	56,8

clamping range¹

ciap.i.g								
i ₁	11-23	13-28	12-32	20-60	24-68	24-82		
i ₂	-	23-28	24-44	40-80	54-98	52-110		
i ₃	-	33-48	36-56	60-100	84-128	80-138		
$a_{\scriptscriptstyle 1}$	0-14	0-16	0-20	0-40	0-44	0-56		
a_2	20-32	12-24	15,4-32	30-74	30-74	30-80		
a_3	-	22-34	27,4-44	60-104	60-104	58-108		
a ₄	-	32-44	39,4-56	90-134	90-134	86-136		
S	4,5	3	3	4,5	4,5	7		

additional information

weight ²	85g	280g	380g	1,6kg	2,2kg	5,0kg	
jaws	hardened, ground, reversible						



standard fixture³

l ₃	36	26	36	52,5	_4	60
g_2 / d_3	3xM2/Ø16,5	3xM3 / Ø18	3xM3/Ø18	3xM4 / Ø30	_4	3xM6 / Ø36
g_1 / I_3	Ø12 through	Ø11 through	M5 / 12	M6 / 15	_4	M8 / 15
d_2 / l_2	14h6 / 3	14h6 / 3	12h6 / 3	24h6 / 3	_4	28h6 / 3
$d_{\scriptscriptstyle 1}$ / $l_{\scriptscriptstyle 1}$	14h6 / 30	16h6 / 18	12h6 / 25	18h6 / 37,5	_4	25h6 / 45

¹ drawings and CAD-data can be found on our website www.kochmaschinenbau.de

² weight without fixture

³ special fixtures available on demand

⁴ chuck is delivered without fixture by default



for jewelry and watchmaking

The chucks are especially suited for light and precise work with low clamping forces in individual construction. Tensioning the work pieces is performed by turning the geared scroll without a key.

Applications





Dimensions

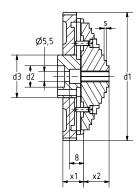








U6-BF7



outer dimensions	DF56/3		RF 75		6-BF75	
$d_{\scriptscriptstyle 1}$	55,5	55,5	75	75	75	75
d_2/d_3	8H6 / 35	8H6 / 35	12H6 / 24	12H6 / 24	12H6 / 24	12H6 / 24
\mathbf{X}_1	15	15	12	12	12	12

clamping range

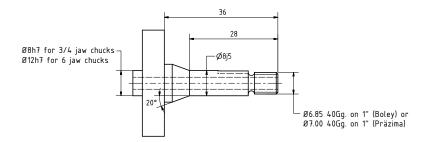
rings inner Ø	12-50	12-50	10-65	-	-	-
discs outer Ø	8-49	8-49	-	8-65	-	36-50
biggest twist-out Ø	-	-	-	-	66	50
S	1,6	1,6	1,4	1,4	-	1-2
X_2	8	8	14	13	13	8

additional information

jaws	hardened	hardened	twist-out	twist-out	twist-out	twist-out	
fixture	All types can be delivered with mounting shank for watchmaker lathes:						

• Ø8 mm thread 6,85x40 Gg., e.g. Boley & Leinen

• Ø8 mm thread 7x40 Gg., e.g. Andrä&Zwingenberger, Präzima, Saupe&Sohn





Custom made chucks

Stainless hand-operated chucks

All chucks can be customized and a number of different varieties can be manufactured. We will develop a concept on the basis of your requirements.

Fixtures

All chucks can be delivered with fixtures specifically designed for your needs. A wide variety of fixtures has already been constructed and manufactured.



adaptor for Hirschmann PrisFix



morse taper fixture



special fixture with fine adjustment and special jaws

Jaws

Special jaws can be manufactured individually based upon your requirements. The jaws can be made out of different materials such as aluminum, bronze or high strength plastic PEEK. Jaws with special shapes - specifically designed for your demands - can be constructed and manufactured.



DBF100 with bronze jaws



jaws for DBF160 made out of PEEK (high-performance plastic)

Marking

All chucks can be produced with special imprints such as your company logo.



imprint on customer demand



>>> Präzision von Anfang an

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