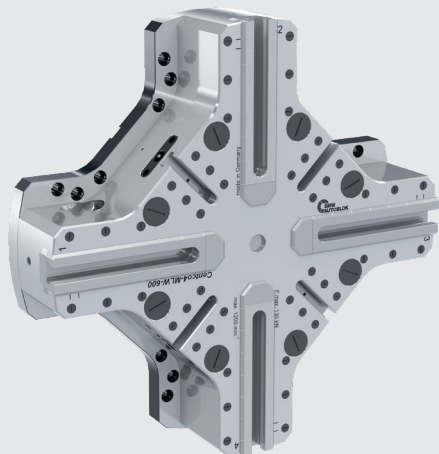


- 2+2 self centering
- Independent self centering clamping in 2 axis
- Weight-optimized chuck body



Application/customer benefits

- Independent self centering clamping in 2 axis via 1 central, manual actuating mechanism
- Mechanical centering of the workpiece
- Clamping of every workpiece geometry possible
- Weight-optimized chuck body
- Less workpiece deformation compared to 3-jaw chucks
- Long lifetime due to case hardened parts
- Large range of standard top jaws
- Suitable for OD and ID clamping

Technical features

- Centrifugal force compensation
- Optimized lubrication system

Standard equipment

4-jaw manual chuck,
8 pieces T-nuts and bolts
Actuation wrench

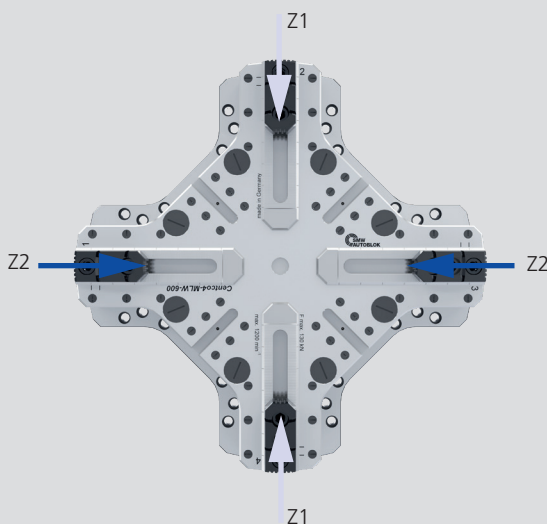
Ordering example

Centco4-MLW-D-600-4

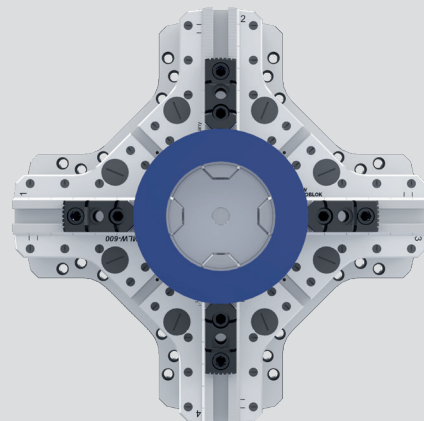
Function / Application examples

2+2 self centering and compensating clamping*

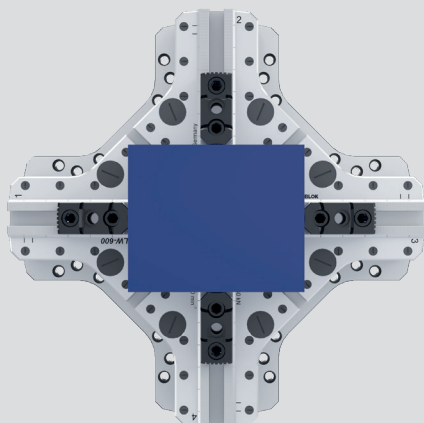
In the beginning the jaw pairs **Z1** + **Z2** only apply a centering force that is necessary to center the workpiece. Only if both jaw pairs **Z1** and **Z2** are in contact with the workpiece, the clamping force necessary for machining is applied.



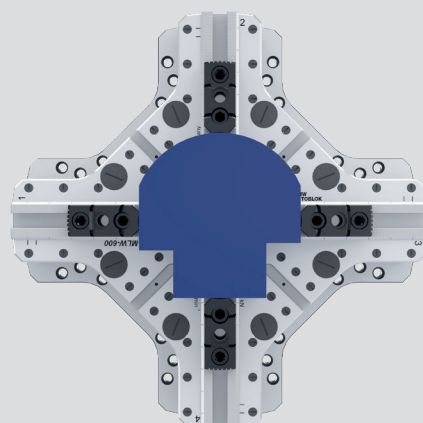
2+2 self centering clamping of round or thin-walled workpieces



2+2 self centering and compensating clamping of rectangular or square workpieces



2+2 self centering and compensating clamping of unshaped workpieces



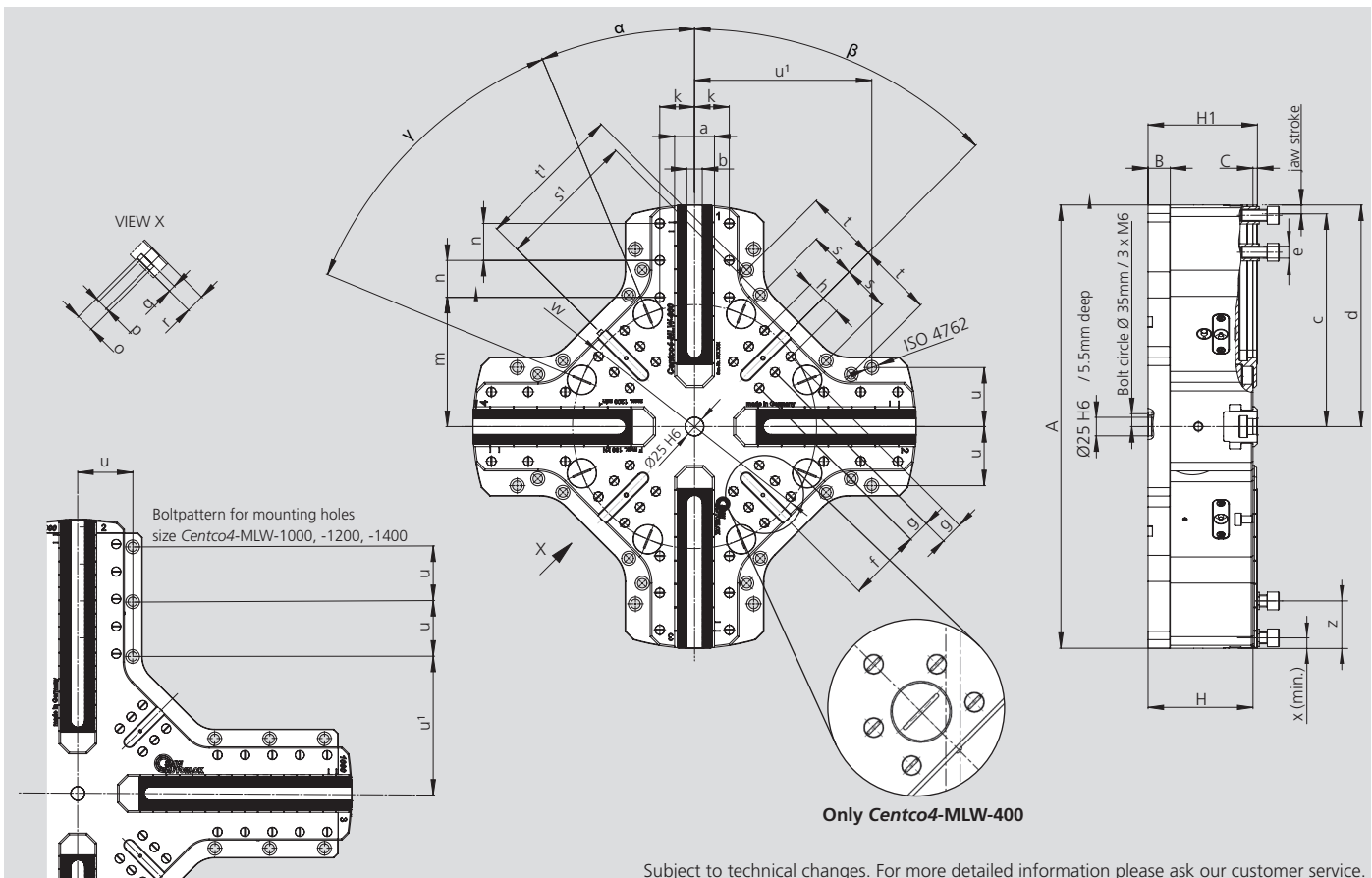
* **Z1**: Self centering clamping axis 1 / **Z2**: self centering clamping axis 2
Z1 is compensating to **Z2**

4-jaw manual chuck

- 2+2 self centering
- Independent self centering clamping in 2 axis
- Weight-optimized chuck body

Centco4-MLW-D

INCH
SERRATION



SMW-AUTOBLOK Type Centco4-MLW-D			400-4 163180	600-4 163210	750-4 163240	1000-4 163270	1200-4 163470	1400-4 163520
Outside diameter	A	mm	400	600	750	1000	1200	1400
Base plate height	B	mm	25	30	30	36	36	36
Chuck height	C	mm	5	6	6	6	6	6
	H	mm	118	142	142	170	170	170
Jaw width	H1	mm	123	148	148	176	176	176
	a	mm	49	54	54	69	69	69
Slot width	b	mm	17	21	21	25.5	25.5	25.5
Min.	c	mm	179.5	288	363	486	586	686
Max.	d	mm	186	300	375	500	600	700
Bolt ISO4762-12.9	e	mm	M12	M16	M16	M20	M20	M20
	f	mm	80	99	99	138	138	138
	g	mm	2 x 30	2 x 30	2 x 30	2 x 30	2 x 30	2 x 30
	h	mm	50	50	50	60	60	60
	k	mm	37	47	47	70	70	70
	m	mm	145	175	200	255	255	255
T-slot width	n	mm	30	2 x 50	3 x 50	4 x 50	6 x 50	8 x 50
	o	mm	-	24	24	30	30	30
T-slot width	p	mm	-	14	14	18	18	18
Height of width o	q	mm	-	9.2	9.2	12.2	12.2	12.2
Total depth T-slot	r	mm	-	25	25	30	30	30
	s/s'	mm	63 / 152.1	63 / 189	63 / 189	-	-	-
	t/t'	mm	-	100 / 200	100 / 200	-	-	-
	u/u'	mm	-	80 / 240	80 / 240	100 / 250	100 / 250	100 / 250
	w	mm	235 / 4 x 90°	330.2	330.2	-	-	-
Min.	x	mm	13.7	12	12	14	14	14
Min. / max.	z	mm	25 / 115	36 / 190	36 / 265	42 / 358	42 / 457	42 / 558
	α	deg.	45	17.5	17.5	-	-	-
	β	deg.	45	45	45	45	45	45
	γ	deg.	-	45	45	-	-	-
Serration		inch	1/16"	1/16"	1/16"	3/32"	3/32"	3/32"
Max. speed		min ⁻¹	2500	1200	1000	800	700	600
Max. total clamping force at max. actuating torque (Md)		kN	110	130	130	180	180	180
		Nm	120	200	200	200	200	200
Stroke per jaw		mm	6.5	12	12	14	14	14
Compensation stroke per jaw		mm	5	10	10	12	12	12
Weight (without jaws)		kg	77	165	201	410	480	530
Moment of inertia		kg·m ²	1.3	5.5	9.83	36.4	55.6	80

Ordering review

SMW-AUTOBLOK Type Centco4-MLW-D	400-4	600-4	750-4	1000-4	1200-4	1400-4
Id.-No.	163180	163210	163240	163270	163470	163520

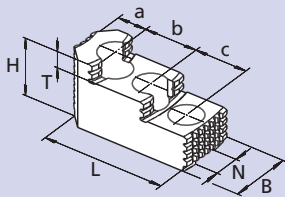
Equipment review

SMW-AUTOBLOK - Assembling tool	400-4	600-4	750-4	1000-4	1200-4	1400-4
Id.-No.	OBM6801			OBM6401		

Jaws

MHB-D (INCH SERRATION)

Hard, reversible stepped top jaws

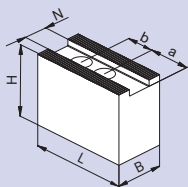


Centco4-MLW-D	400-4	600-4	750-4	1000-4	1200-4	1400-4
Jaw type	MHB-D 200	MHB-D 251	MHB-D 251	MHB-D 500	MHB-D 500	MHB-D 500
Id. No.	12082038	12083038	12083038	12084548	12084548	12084548
Serration	1/16" x 90°	1/16" x 90°	1/16" x 90°	3/32" x 90°	3/32" x 90°	3/32" x 90°
B	40	45	45	60	60	60
H	45	56	56	75	75	75
L	82	106.2	106.2	140.8	140.8	140.8
T	10.5	13.5	13.5	19	19	19
N	17	21	21	25.5	25.5	25.5
a	19	26	26	38	38	38
b	23	30	30	38	38	38
c	23	30	30	38	38	38
kg / set	2.3	2.9	2.9	9.5	9.5	9.5

MWB-D (INCH SERRATION)

Soft top jaws

Tall version

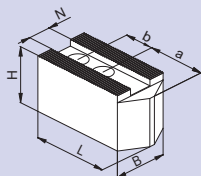


Centco4-MLW-D	400-4	600-4	750-4	1000-4	1200-4	1400-4
Jaw type	MWB-D 200	MWB-D 250	MWB-D 250	MWB-D 400	MWB-D 400	MWB-D 400
Id. No.	5318837	5319680	5319680	5319831	5319831	5319831
Serration	1/16" x 90°	1/16" x 90°	1/16" x 90°	3/32" x 90°	3/32" x 90°	3/32" x 90°
B	40	50	50	60	60	60
H	60	80	80	90	90	90
L	90	120	120	170	170	170
N	17	21	21	25.5	25.5	25.5
a	43	62	62	90	90	90
b	22	28	28	35	35	35
kg / set	4.1	9.2	9.2	21.6	21.6	21.6

AWB-D (INCH SERRATION)

Soft top jaws

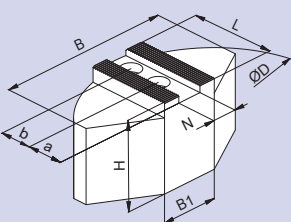
Low version



Centco4-MLW-D	400-4	600-4	750-4	1000-4	1200-4	1400-4
Jaw type	AWB-D 200	AWB-D 250	AWB-D 250	AWB-D 400	AWB-D 400	AWB-D 400
Id. No.	5318838	5319681	5319681	5319834	5319834	5319834
Serration	1/16" x 90°	1/16" x 90°	1/16" x 90°	3/32" x 90°	3/32" x 90°	3/32" x 90°
B	40	50	50	60	60	60
H	40	50	50	60	60	60
L	110	120	120	170	170	170
N	17	21	21	25.5	25.5	25.5
a	53	70	70	115	115	115
b	22	28	28	35	35	35
kg / set	2.7	5.4	5.4	14.5	14.5	14.5

SBS-D (INCH SERRATION)

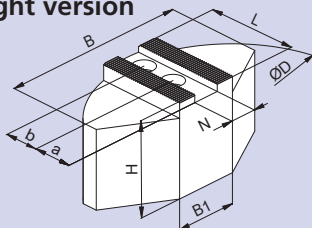
Soft pie jaws



Centco4-MLW-D	400-4	600-4	750-4	1000-4	1200-4	1400-4
Jaw type	SBS-D 200	SBS-D 200	SBS-D 200	SBS-D 400	SBS-D 400	SBS-D 400
Id. No.	5318839	5319684	5319684	5319832	5319832	5319832
Serration	1/16" x 90°	1/16" x 90°	1/16" x 90°	3/32" x 90°	3/32" x 90°	3/32" x 90°
B	140	180	180	330	330	330
B1	64	50	50	190	190	190
D	200	250	250	440	440	440
H	60	70	70	85	85	85
L	70	80	80	155	155	155
N	17	21	21	25.5	25.5	25.5
a	35	30	30	85	85	85
b	22	29	29	35	35	35
kg / set	10.3	18.3	18.3	71	71	71

SBA-D (INCH SERRATION)

Soft pie jaws aluminium light version



Centco4-MLW-D	400-4	600-4	750-4	1000-4	1200-4	1400-4
Jaw type	SBA-D 200	SBA-D 250	SBA-D 250	SBA-D 400	SBA-D 400	SBA-D 400
Id. No.	5318840	5319685	5319685	5319833	5319833	5319833
Serration	1/16" x 90°	1/16" x 90°	1/16" x 90°	3/32" x 90°	3/32" x 90°	3/32" x 90°
B	120	160	160	330	330	330
B1	40	50	50	190	190	190
D	200	250	250	440	440	440
H	58	78	78	98	98	98
L	72.5	87.5	87.5	160	160	160
N	17	21	21	25.5	25.5	25.5
a	35	40	40	85	85	85
b	22	29	29	35	35	35
kg / set	3.7	7.2	7.2	32	32	32

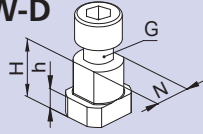
* SMW-AUTOBLOK is recommending not to clamp any diameters, that are larger than the chuck O.D.

SMW-AUTOBLOK Jaws-catalog

Request or download:
www.smw-autoblok.de

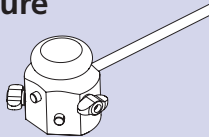
■ T-Nuts

NST T-Nuts suitable for Centco4- MLW-D



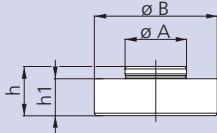
Centco4-MLW-D	400-4	600-4	750-4	1000-4	1200-4	1400-4
T-nut type	NST17	NST21	NST21	NST25	NST25	NST25
Id. No.	016021	014788	014788	014812	014812	014812
N	17	21	21	25.5	25.5	25.5
H	23	27	27	29	29	29
h	9	10	10	11	11	11
Cyl.-screw ISO 4762-12.9	G	M12 x 30	M16 x 35	M16 x 35	M20 x 40	M20 x 40
Torque Md max. (Nm)	70	150	150	250	250	250

Jaw pre positioning fixture



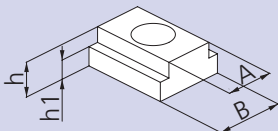
Centco4-MLW	400-4	600-4	750-4	1000-4	1200-4	1400-4
Id. No.	163518	163514	163514	163515	163516	163517

Center pin



Centco4-MLW	400-4	600-4	750-4	1000-4	1200-4	1400-4
Id. No.	163239					
Ø A	25 h6					
Ø B	50 g6					
h	20					
h1	15					

Slot-nuts



Id.-No.	209210	209194	209173
A	12	14	16
B	20	20	20
h	10	10	10
h1	5.5	5.5	5.5
Id.-No. Cyl.-screw (not included)	010166	010166	010166

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

Grease K67

Special grease for
manual and power chucks



Cartridge 14 Oz. (DIN 1284)
Grease content 500g
Id. No. 10731223

Can 1000 g
Id. No. 10731224

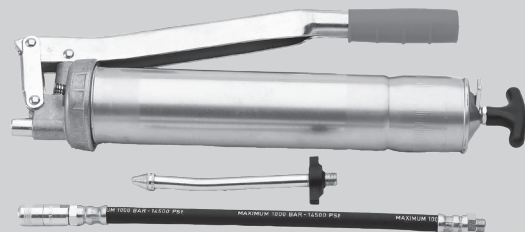


- High adhesion
- High resistance against coolant
- High load bearing capacity
- Low friction coefficient
- High gripping force
- Avoids tribocorrosion

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