

ST5-2G

Sealed 5-axis self-centering vise

Ideal usable

for automation and pallet systems

Sealed

for protection against contamination

Extra large clamping range

maximum flexibility
for O.D. and I.D. clamping

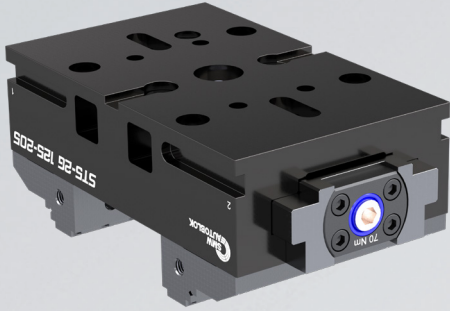
SMW
AUTOBLOK

2

Flexible mounting

on the machine table
via clamps (optional)

Interfaces below



for zero point clamping systems and mounting holes as a standard

Guideway hardened and precision ground

for highest precision and repeatability

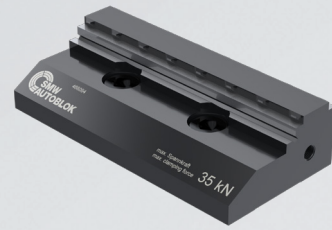
Jaw versions:

BASIC - with Gripper top jaws

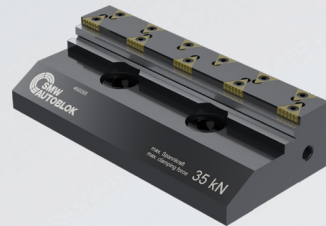
PREMIUM - with SinterGrip top jaws

Reversible jaws for lowest clamping depth of workpieces without pre-stamping

Basic top jaws with gripper



Premium top jaws with SinterGrip



Manual actuation

sealed from both sides with highest transmission offers highest clamping forces for maximum hold of the workpiece and highest process reliability

Clamping glossary

Extra large clamping range

offers maximum application flexibility
For external and internal clamping



Spindle

Completely sealed, low-dirt spindle.



5-axis machining

Optimal accessibility for 5-side machining without interfering contours. Ideally suited for automation and pallet systems.



Interfaces

for zero point clamping systems (ZeroAct, WPS, APS)

Chip discharge window
guarantees optimized chip flow

- Sealed – protected spindle
- Self-centering

Application/customer benefits

- Compact design for best accessibility and with large chip evacuation windows
- Large clamping range, for external and internal clamping
- Ideal for OP 10 and OP 20
- Self-centering clamping with highest repeatability
- Extensive range of jaws, to accommodate quick and easy changeover
- Different interfaces for mounting integrated

Technical features

- Sealed spindle for protection against contamination
- Sided chip discharge window to guarantee optimal chip and coolant discharge
- Base body manganese-phosphated, for protection against corrosion and cold welding
- Clamping force: up to 18 kN (ST5-2G 080), up to 35 kN (ST5-2G 125)
- Manual actuation from both sides
- Interface for zero point clamping systems

Standard equipment

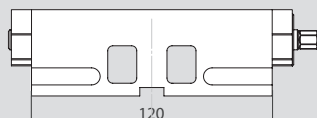
- ST5-2G with wrench



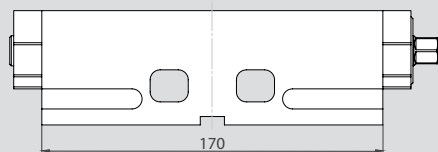
proofline® series
fully sealed – low maintenance

Size comparison

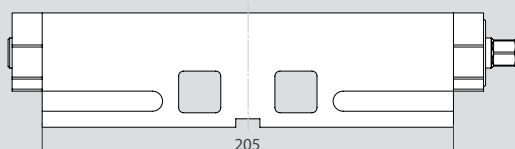
ST5-2G 080 - 120



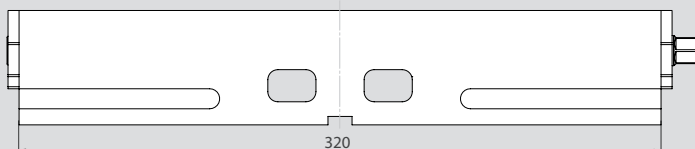
ST5-2G 125 - 170



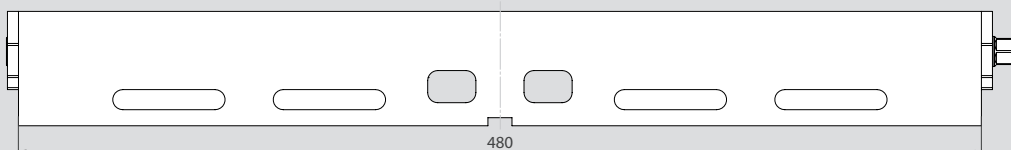
ST5-2G 125 - 205



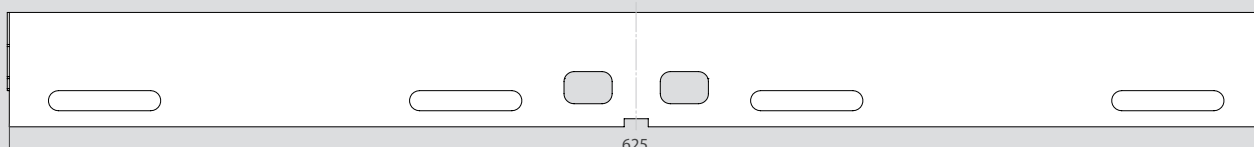
ST5-2G 125 - 320



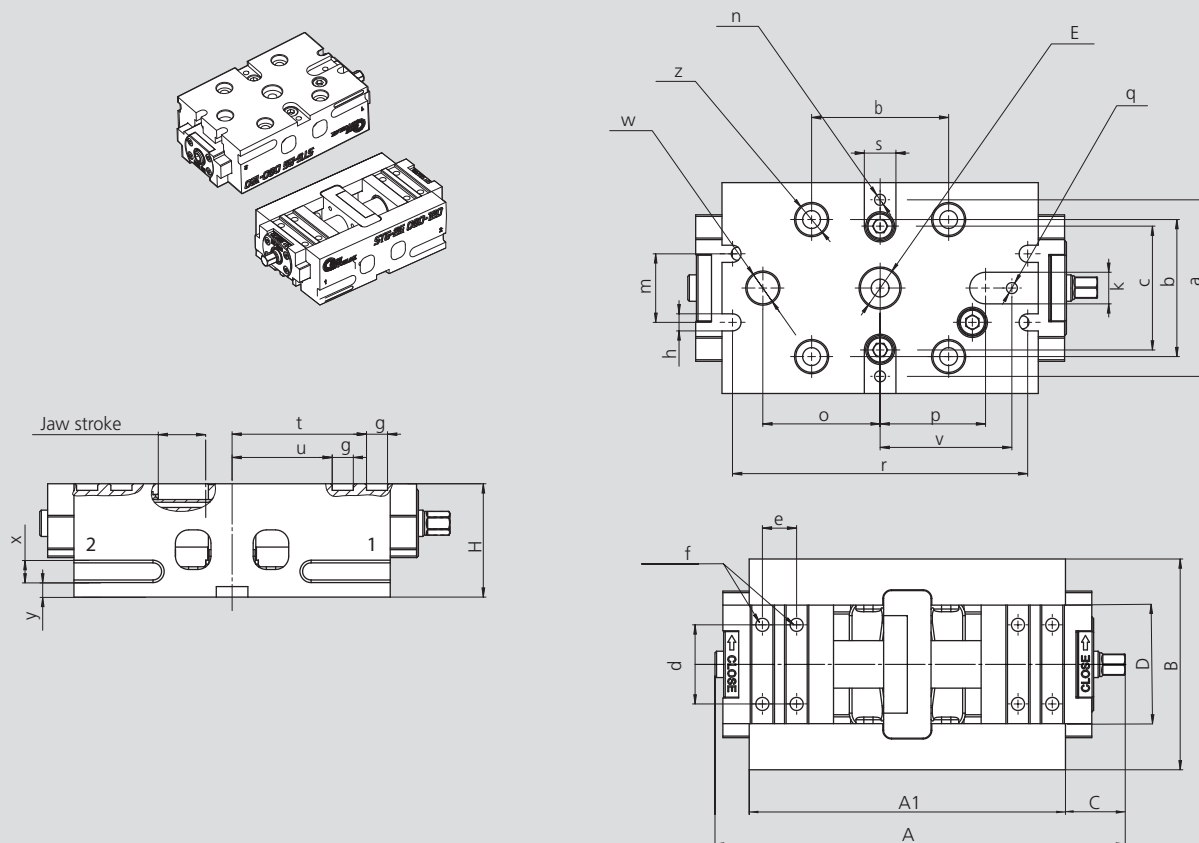
ST5-2G 125 - 480



ST5-2G 125 - 625



- Sealed – protected spindle
- Self-centering



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

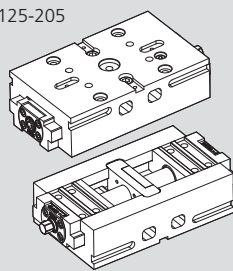
SMW-AUTOBLOK Type ST5-2G			080-120
Id. No.			466065
Overall length	A	mm	154
Base length	A1	mm	120
Width	B	mm	80
	C	mm	22.5
Jaw width	D	mm	45
Fitting / depth / center thread	E	mm	15H6 / 5.2 / M8x8.5
	H	mm	43
	a	mm	67
	b	mm	52
	c	mm	47
	d	mm	30
	e	mm	13
Thread / thread depth	f	mm	M6 / 9
Slot width	g	mm	8
	h	mm	6.5
	k	mm	12H7 / 4.2
	m	mm	26
Fixing hole	n	mm	M5 / 10
	o	mm	44.5
	p	mm	40
	q	mm	M5 / 10.5
	r	mm	112
	s	mm	12H7 / 4.2
Max. / min.	t	mm	51 / 33
Max. / min.	u	mm	38 / 20
	v	mm	50
	w	mm	12H7 / 6.5
	x	mm	8.5 / 3.2
	y	mm	5.5
Centering / center thread	z	mm	12H7 / 5.2 / M8x8
Max. Clamping force of all clamping points		kN	18
At max. torque (Md) / hexagonal		Nm	35 / 8
Stroke per jaw		mm	18
Weight (without jaws)		kg	2.49

ST5-2G 125

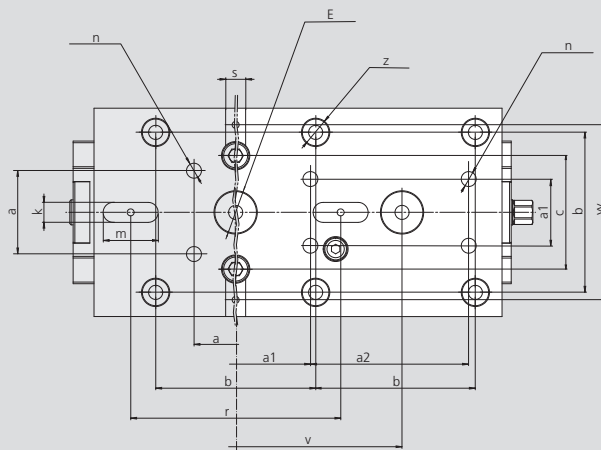
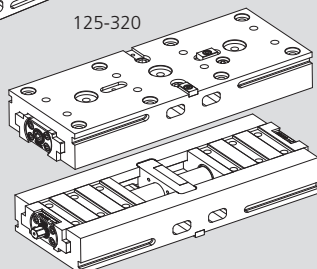
5-axis self-centering vise

- Sealed – protected spindle
- Self-centering

125-170 / 125-205

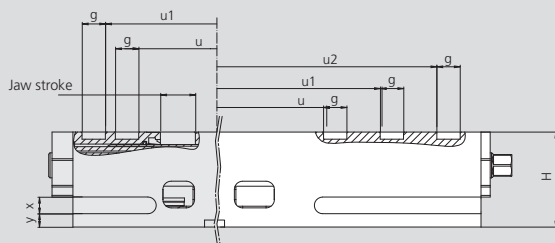
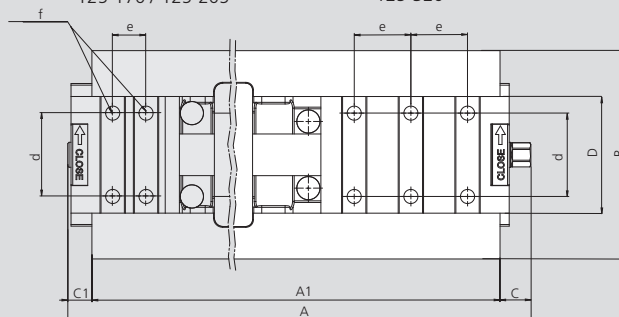


125-320



125-170 / 125-205

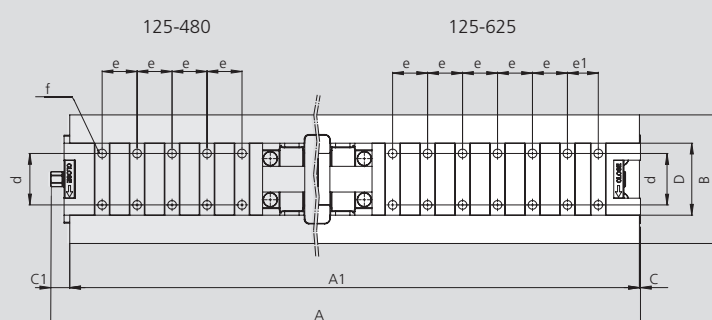
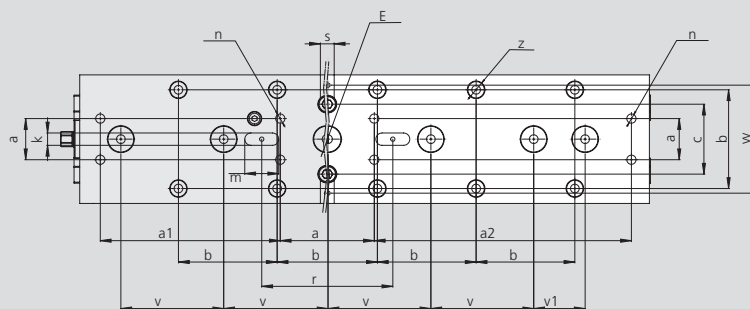
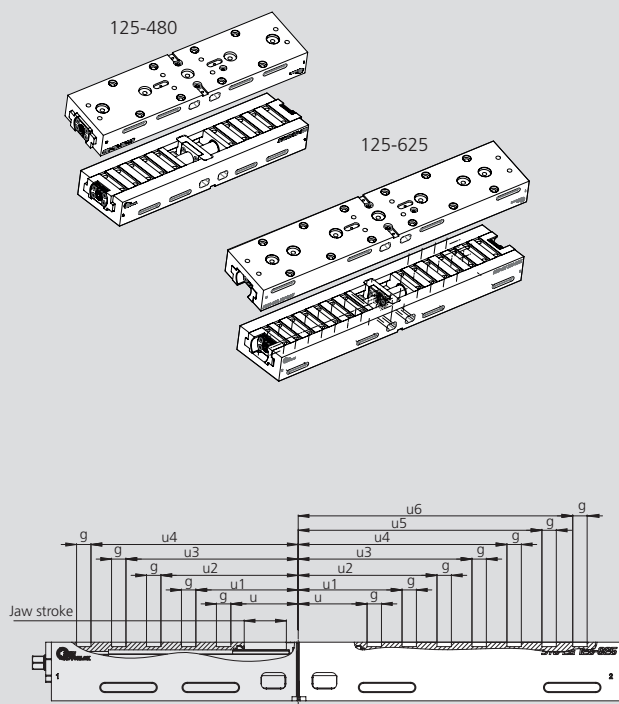
125-320



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

SMW-AUTOBLOK Typ ST5-2G			125-170 466057	125-205 466056	125-320 466224
Id. No.					
Overall length	A	mm	213.5	253	344.5
Base length	A1	mm	170	205	320
Width	B	mm	125	125	125
	C	mm	27.5	31	18.5
	C1	mm	16	17	6
Jaw width	D	mm	70	70	70
Fitting / depth / center thread	E	mm	25H6 / 5.5 / M10x14.5	25H6 / 5.5 / M10x14.5	25H6 / 5.5 / M10x14.5
	H	mm	57	57	57
	a	mm	50	50	-
	a1	mm	-	-	90 / 40
	a2	mm	-	-	95
	b	mm	96	96	96
	c	mm	68	68	68
	d	mm	50	50	50
	e	mm	20	20	34
Thread / thread depth	f	mm	M10 / 17	M10 / 17	M10 / 13
Slot width	g	mm	14	14	14
	k	mm	12H7 / 4.2	12H7 / 4.2	12H7 / 4.2
	m	mm	33	33	33
Fixing hole	n	mm	Ø9	Ø9	Ø9
	r	mm	126	126	
	s	mm	12H7 / 4.2	12H7 / 4.2	12H7 / 4.2
Max. / min.	u	mm	47 / 25.5	65.5 / 25.5	65.5 / 25.5
Max. / min.	u1	mm	67 / 45.5	85.5 / 45.5	99.5 / 59.5
Max. / min.	u2	mm	-	-	133.5 / 93.5
	v	mm	-	-	200
	w	mm	105	105	105
	x	mm	10 / 5.2	10 / 5.2	10 / 5.2
	y	mm	8	8	8
Centering / center thread	z	mm	16H7 / 5.5 / M10x13	16H7 / 5.5 / M10x13	16H7 / 5.5 / M10x13
Max. Clamping force of all clamping points		kN	35	35	35
At max. torque (Md) / hexagonal		Nm	70 / 13	70 / 13	70 / 13
Stroke per jaw		mm	21.5	40	40
Weight (without jaws)		kg	7.63	8.59	13.68

- Sealed – protected spindle
- Self-centering



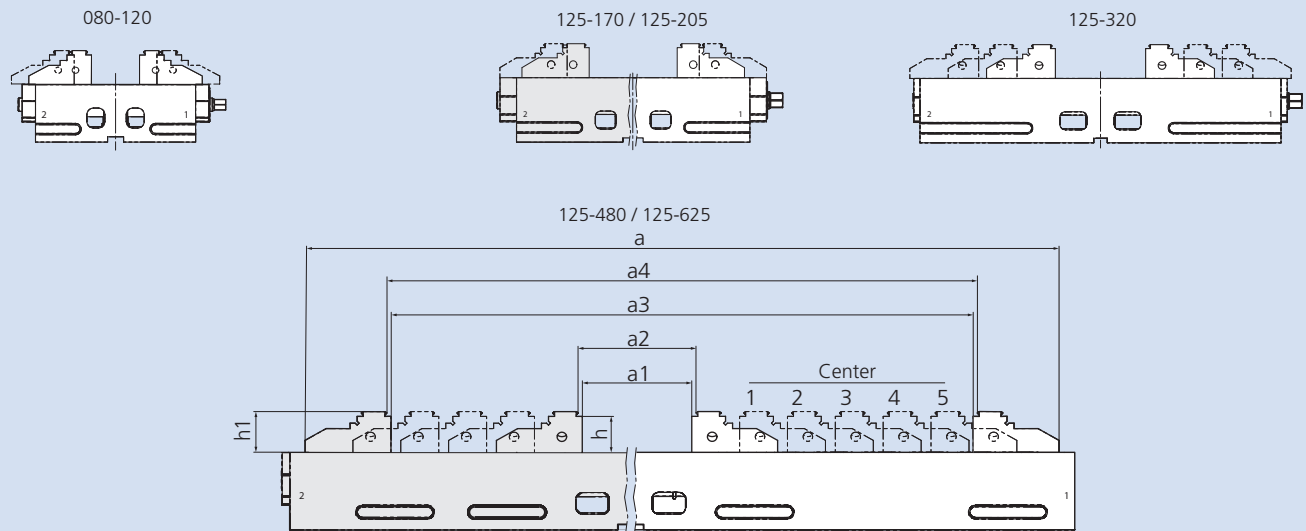
Subject to technical changes. For more detailed information please ask our customer service.

SMW-AUTOBLOK Typ ST5-2G			125-480	125-625
Id. No.			466602	466645
Overall length	A	mm	504.5	-
Base length	A1	mm	480	625
Width	B	mm	125	125
	C	mm	18.5	1
	C1	mm	6	-
Jaw width	D	mm	70	70
Fitting / depth / center thread	E	mm	25H6 / 5.5 / M10x12	25H6 / 5.5 / M10x12
	H	mm	57	57
	a	mm	90 / 40	90 / 40
	a1	mm	175	-
	a2	mm	-	250
	b	mm	96	96
	c	mm	68	68
	d	mm	50	50
	e / e1	mm	34 / -	34 / 30
Thread / thread depth	f	mm	M10 / 17	M10 / 17
Slot width	g	mm	14	14
	k	mm	12H7 / 4.2	12H7 / 4.2
	m	mm	33	33
Fixing hole	n	mm	Ø9	Ø9
	r	mm	126	126
	s	mm	12H7 / 4.2	12H7 / 4.2
Max. / min.	u	mm	65.5 / 25.5	65.5 / 25.5
Max. / min.	u1	mm	99.5 / 59.5	99.5 / 59.5
Max. / min.	u2	mm	133.5 / 93.5	133.5 / 93.5
Max. / min.	u3	mm	167.5 / 127.5	167.5 / 127.5
Max. / min.	u4	mm	201.5 / 161.5	201.5 / 161.5
Max. / min.	u5	mm	-	235.5 / 195.5
Max. / min.	u6	mm	-	265.5 / 225.5
	v	mm	100	100
	v1	mm	-	50
	w	mm	105	105
	x	mm	10 / 5.2	10 / 5.2
	y	mm	8	8
Centering / center thread	z	mm	16H7 / 5.5 / M10x13	16H7 / 5.5 / M10x13
Max. Clamping force of all clamping points		kN	35	35
At max. torque (Md) / hexagonal		Nm	70 / 13	70 / 13
Stroke per jaw		mm	40	40
Weight (without jaws)		kg	21.65	28.11

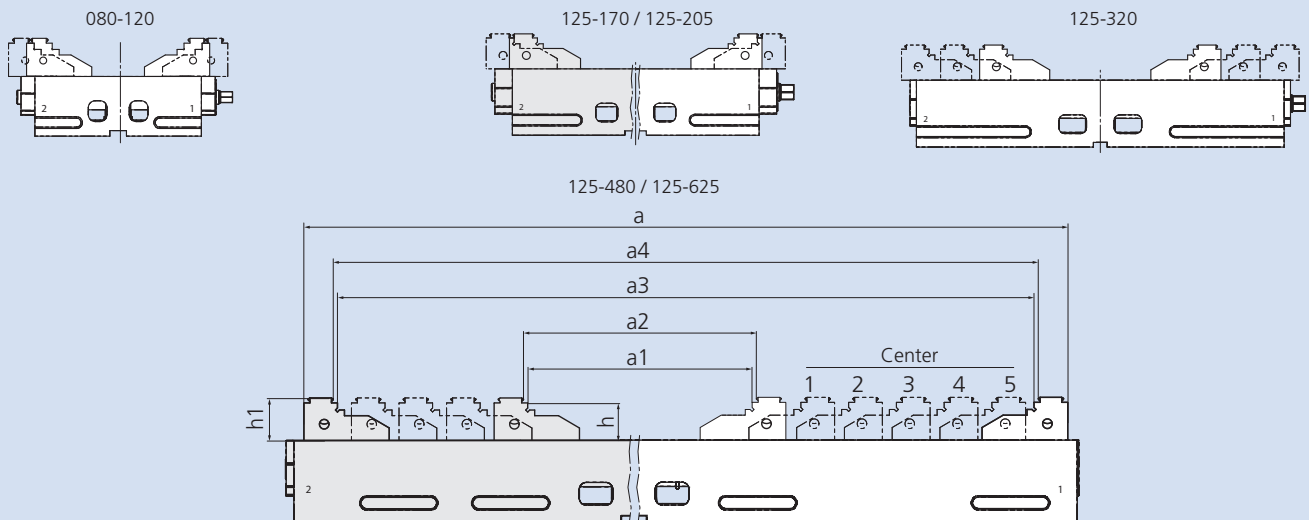
ST5-2G

5-axis self-centering vise

■ Clamping range



Type		080-120	125-170	125-205	125-320	125-480	125-625
Interference contour	a	156	202	242	338	474	602
Inner position	a1	0-36	0-43	0-80	0-80	0-80	0-80
Inner position	a2	6-42	6-49	6-86	6-86	6-86	6-86
Center 1		-	-	-	68-148	68-148	68-148
Center 1		-	-	-	74-154	74-154	74-154
Center 2		-	-	-	-	136-216	136-216
Center 2		-	-	-	-	142-222	142-222
Center 3		-	-	-	-	204-284	204-284
Center 3		-	-	-	-	210-290	210-290
Center 4		-	-	-	-	-	272-352
Center 4		-	-	-	-	-	278-358
Center 5		-	-	-	-	-	340-420
Center 5		-	-	-	-	-	346-426
Outer position	a3	26-62	40-83	40-120	136-216	272-352	400-480
Outer position	a4	32-68	46-89	46-126	142-222	278-358	406-486
Support height	h	24	26.5	26.5	26.5	26.5	26.5
Jaw height	h1	27.5	30	30	30	30	30



Type		080-120	125-170	125-205	125-320	125-480	125-625
Interference contour	a	158	210	250	346	482	610
Inner position	a1	59-95	82-125	82-162	82-162	82-162	82-162
Inner position	a2	65-101	88-131	88-168	88-168	88-168	88-168
Center 1		-	-	-	122-202	150-230	150-230
Center 1		-	-	-	128-208	156-236	156-236
Center 2		-	-	-	-	218-298	218-298
Center 2		-	-	-	-	224-304	224-304
Center 3		-	-	-	-	286-366	286-366
Center 3		-	-	-	-	292-372	292-372
Center 4		-	-	-	-	-	354-434
Center 4		-	-	-	-	-	360-440
Center 5		-	-	-	-	-	422-502
Center 5		-	-	-	-	-	428-508
Outer position	a3	85-121	122-165	122-202	218-298	354-434	482-562
Outer position	a4	91-127	128-171	128-208	224-304	360-440	488-568