



10706422

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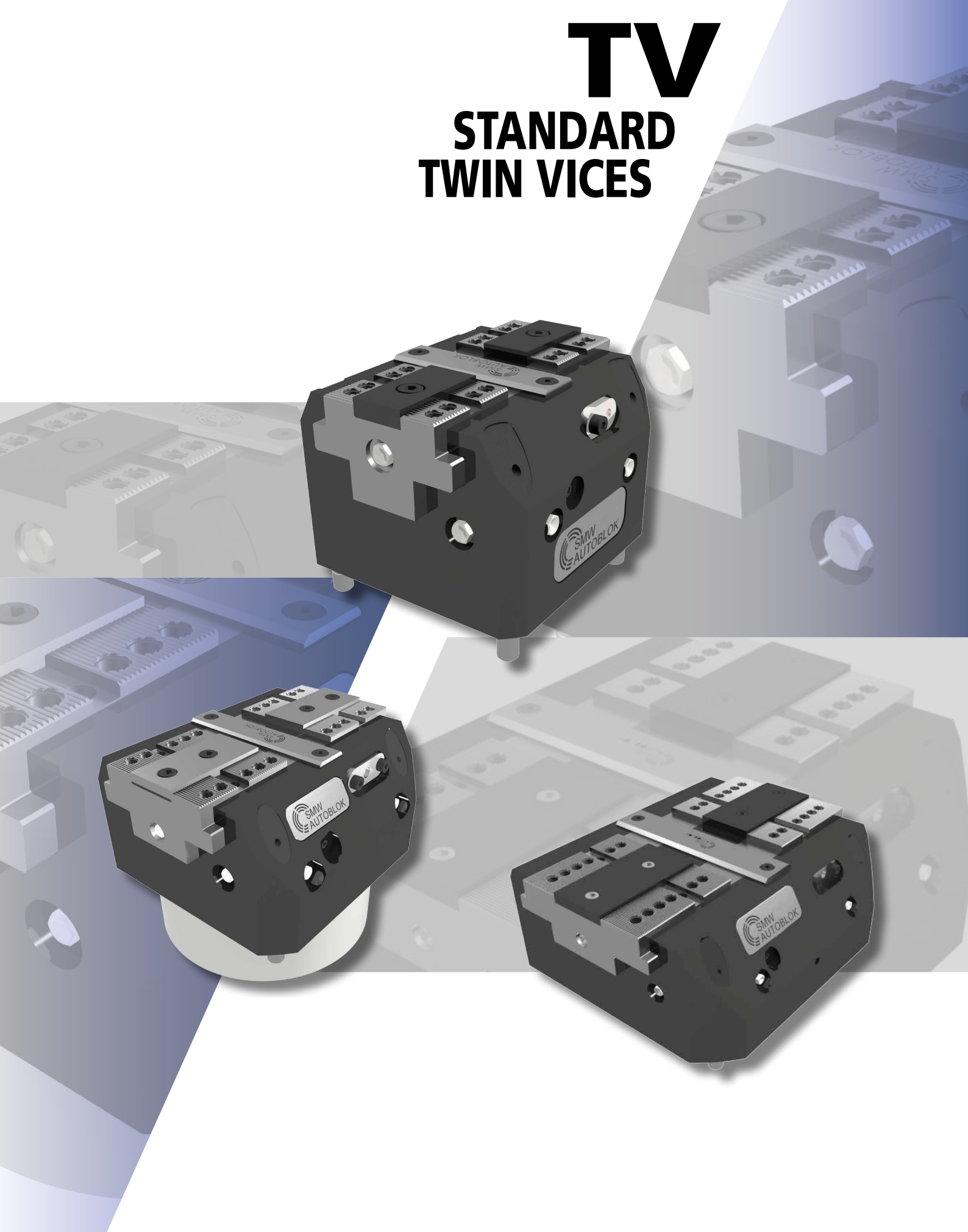
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TV STANDARD TWIN VICES



100-160-200-250-315

TVP-N TVP-L TVP-F

PNEUMATIC TWIN VICE

- Normal stroke: TVP-N
- Long stroke: TVP-L
- Fixed jaw: TVP-F

Application/customer benefits

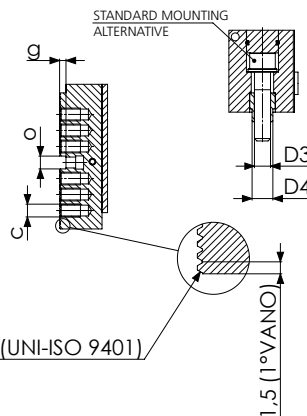
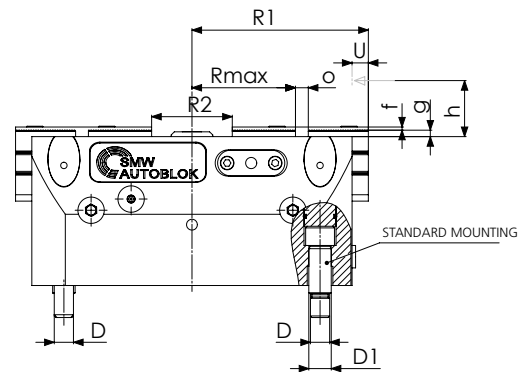
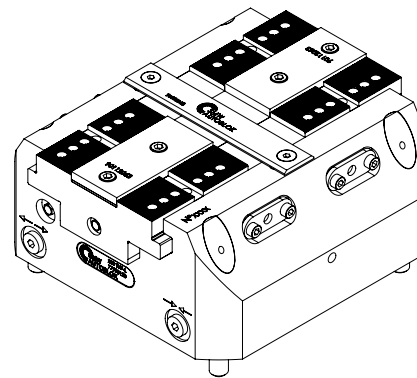
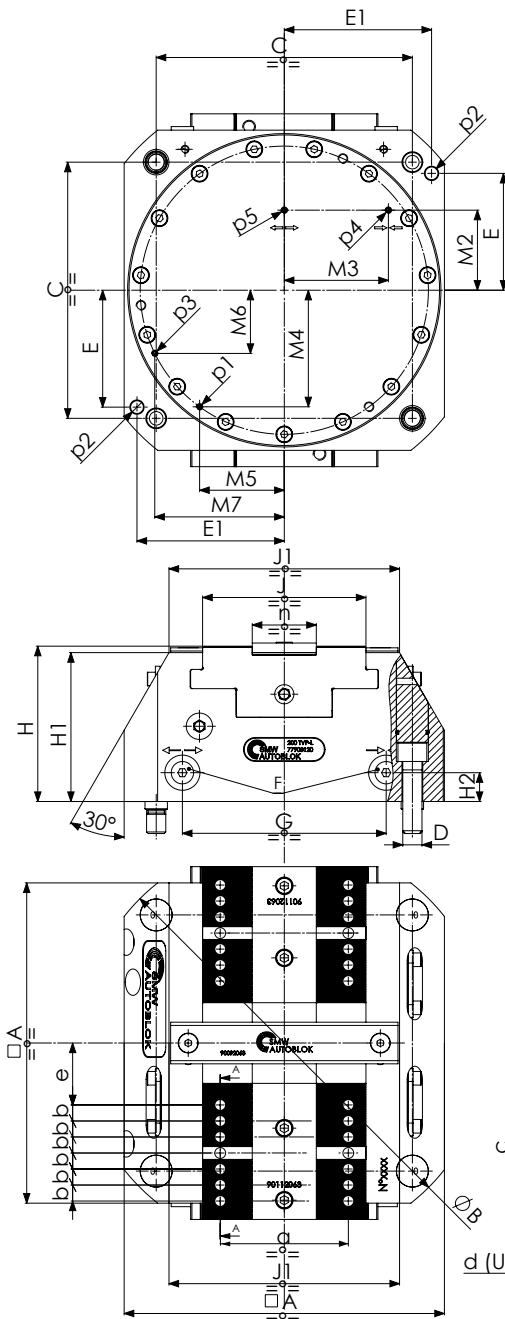
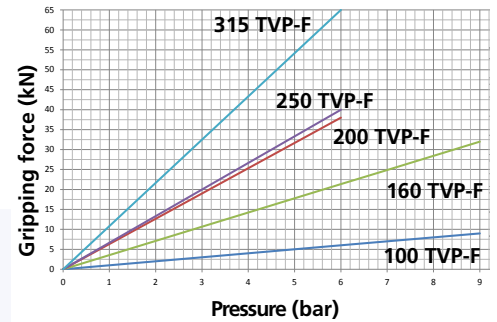
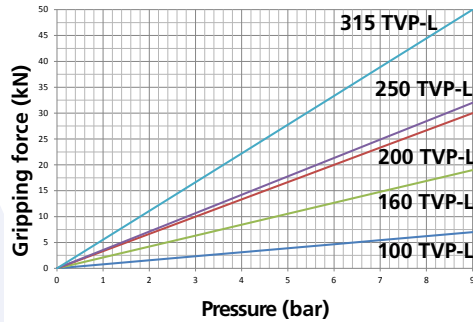
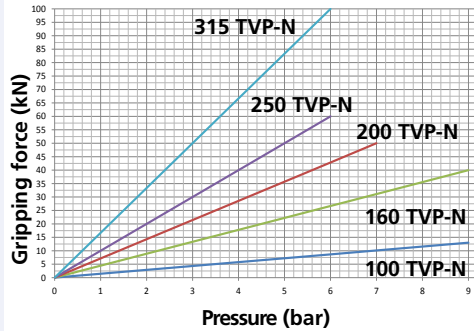
- Compact design
- Linear pressure adjustment
- Highest repeatability
- Highest rigidity

Standard equipment

Self-centering vice without top jaws
All bolts and centering bushings included

Technical features

- H7 quality pilot bore (see p2 below)
- Housing and functional parts hardened for high precision and long life
- Ready for air purge
- Ready for central grease lubrication
- Master jaws with both Tongue & Groove and fine serration 1,5mmx60°
- OD and ID clamping
- Lubrication with SMW-Autoblok K67 grease
- Stroke control via proximity switches (optional see page 26)



Subject to technical changes

TECHNICAL DATA

TYPE	ID. No.	STROKE TYPE	MAX. CLAMPING FORCE	STROKE/JAW	MAX OPERATING PRESSURE	REPEATABILITY	WEIGHT
100 TVP-N	77903010	Normal	13 kN	2.6 mm	9 bar	0.01 mm	4.3 kg
100 TVP-L	77903110	Long	7 kN	6 mm	9 bar	0.01 mm	4.3 kg
100 TVP-F	77903210	Fixed jaw	9 kN	6 mm	9 bar	0.01 mm	4.3 kg
160 TVP-N	77903016	Normal	40 kN	3 mm	9 bar	0.01 mm	13 kg
160 TVP-L	77903116	Long	19 kN	8.4 mm	9 bar	0.01 mm	13 kg
160 TVP-F	77903216	Fixed jaw	32 kN	8.4 mm	9 bar	0.01 mm	13 kg
200 TVP-N	77903020	Normal	50 kN	4.2 mm	7 bar	0.02 mm	23 kg
200 TVP-L	77903120	Long	30 kN	10.2 mm	9 bar	0.02 mm	23 kg
200 TVP-F	77903220	Fixed jaw	38 kN	10.2 mm	6 bar	0.02 mm	23 kg
250 TVP-N	77903025	Normal	60 kN	5.3 mm	6 bar	0.02 mm	39 kg
250 TVP-L	77903125	Long	32 kN	15 mm	9 bar	0.02 mm	39 kg
250 TVP-F	77903225	Fixed jaw	40 kN	15 mm	6 bar	0.02 mm	39 kg
315 TVP-N	77903031	Normal	100 kN	6.4 mm	6 bar	0.03 mm	84 kg
315 TVP-L	77903131	Long	50 kN	18 mm	9 bar	0.03 mm	84 kg
315 TVP-F	77903231	Fixed jaw	65 kN	18 mm	6 bar	0.03 mm	84 kg

TVP-N	TVP-L	TVP-F	100	160	200	250	315
A			100	160	200	250	315
B(Ø)			132	205	255	314	394
C			80	125	160	200	250
D(Ø)			M8x15	M10x18	M12x20	M12x20	M16x23
D1 (Øf7)			10x4	12x4	14x5	14x5	18x6
D2 (Øjs7)			11x4	13x6	16x6	16x6	21x6
D3			-	-	M10x18	-	-
D4 (Øjs7)			-	-	13x6	-	-
E			32	53	73	77	105
E1			45	73	92	115	140
F			M5	G1/8"	G1/8"	G1/8"	G1/8"
G			59.3	99	127.3	157	200.8
H			75.5	89.7	97	105	139
H1			72	86	93	100	133
H2			15	18	18	20	25
J			47	75	102	125	160
J1			72	108	144	180	230
M2			32	40	50	64	80
M3			29.5	50	65	75	90
M4			34.2	59	72.8	89.8	117.7
M5			27.7	41	52.9	65.2	79.4
M6			14.2	30.7	39.5	48.7	57.8
M7			41.1	62.9	80.9	99.8	129.7
p1	Lubrication		M4	M4	M4	M5	M5
p2 ØH7			6x14	8x14	8x14	10x20	12x20
p3	Air purge		M4	M4	M4	M5	M5
p4	Vice Closed		M4	M4	M4	M5	M5
p5	Vice Open		M4	M4	M4	M5	M5
R2	min/max (long stroke)		20/32	26/42.8	30/50.4	39/69	50/86
R1	min/max (long stroke)		50/56	82.5/90.9	100/110.2	119.5/134.5	151.5/169.5
Rmax	min/max (long stroke)		25.6/31.6	44.8/53.2	54.5/64.7	51.5/66.5	81.5/99.5
R2	min/max (normal stroke)		19.8/25	26/32	30.6/39	34.4/45	49.2/62
R1	min/max (normal stroke)		47.4/50	82.5/85.5	95.8/100	119.7/125	151.1/157.5
Rmax	min/max (normal stroke)		25.4/28	45/48	54.5/58.7	55.7/61	87.1/93.5
R2	min/max (fixed jaw)		20/26	26/34.4	30/40.2	39/54	56/74
R1	min/max (fixed jaw)		50/56	82.5/90.9	100/110.2	119.5/134.5	151.5/169.5
Rmax	min/max (fixed jaw)		25.6/31.6	44.8/53.2	54.5/64.7	51.5/66.5	81.5/99.5
U	long stroke		6	8.4	10.2	15	18
U	normal stroke		2.6	3	4.2	5.3	6.4
U	fixed jaw stroke		6	8.4	10.2	15	18
a			35	60	80	90	120
b			7	10	10	12	15
c			M6x10	M8x12	M8x12	M10x15	M12x17
d	serration		1,5x60°	1,5x60°	1,5x60°	1,5x60°	1,5x60°
e	min/max (normal stroke)		14.4/17	19/22	28.5/32.7	24.7/30	33.1/39.5
e	min/max (long stroke)		14.6/20.6	18.8/27.2	28.5/38.7	32.5/47.5	42.5/60.5
e	min/max (fixed jaw)		14.6/20.6	18.8/27.2	28.5/38.7	32.5/47.5	42.5/60.5
f			1.8	1.8	2	2.5	2.5
g			2.7	3.2	4	4	4
h			16	25	35	40	40
o (H7)			6	8	8	10	12
n (g6)			20	32	40	50	60

- Normal stroke: TVH-N
- Long stroke:TVH-L

TECHNICAL DATA

TYPE	ID. No.	STROKE TYPE	MAX. CLAMPING FORCE	STROKE/JAW	MAX OPERATING PRESSURE	REPEATABILITY	WEIGHT
100 TVH-N	77903510	Normal	13 kN	2.6 mm	30 bar	0.01 mm	4.5 kg
100 TVH-L	77903610	Long	13 kN	6 mm	60 bar	0.01 mm	4.5 kg
160 TVH-N	77903516	Normal	40 kN	3 mm	30 bar	0.01 mm	14 kg
160 TVH-L	77903616	Long	38 kN	8.4 mm	60 bar	0.01 mm	14 kg
200 TVH-N	77903520	Normal	60 kN	4.2 mm	25 bar	0.02 mm	25 kg
200 TVH-L	77903620	Long	52 kN	10.2 mm	45 bar	0.02 mm	25 kg

TVH-N	TVH-L	100	160	200
A		100	160	200
B(Ø)		132	205	255
C		80	125	160
D(Ø)		M8x15	M10x18	M12x20
D1 (Øf7)		10x4	12x4	14x5
D2 (Øjs7)		11x4	13x6	16x6
D3		-	-	M10x18
D4 (Øjs7)		-	-	13x6
E		32	53	73
E1		45	73	92
F		G1/8"	G1/8"	G1/8"
G		55	98	128
H		75.5	89.7	97
H1		72	86	93
H2		15	18	18
J		47	75	102
J1		72	108	144
M2		32	40	50
M3		29.5	50	65
M4		34.2	59	72,8
M5		27.7	41	52,9
M6		14.2	30.7	39,5
M7		41.1	62.9	80,9
p1	Lubrication	M4	M5	M5
p2 ØH7		6x14	8x14	8x14
p3	Air purge	M4	M5	M5
p4	Vice Closed	M4	M4	M4
p5	Vice Open	M4	M4	M4
R2	min/max (long stroke)	20/32	26/42.8	30/50.4
R1	min/max (long stroke)	50/56	82.5/90.9	100/110.2
Rmax	min/max (long stroke)	25.6/31.6	44.8/53.2	54.5/64.7
R2	min/max (normal stroke)	19.8/25	26/32	30.6/39
R1	min/max (normal stroke)	47,4/50	82.5/85.5	95.8/100
Rmax	min/max (normal stroke)	25,4/28	45/48	54.5/58.7
U	long stroke	6	8.4	10.2
U	normal stroke	2.6	3	4.2
a		35	60	80
b		7	10	10
c		M6x10	M8x12	M8x12
d	serration	1,5x60°	1,5x60°	1,5x60°
e	min/max (normal stroke)	14.4/17	19/22	28.5/32.7
e	min/max (long stroke)	14.6/20.6	18.8/27.2	28.5/38.7
f		1.8	1.8	2
g		2.7	3.2	4
h		16	25	35
o (H7)		6	8	8
n (g6)		20	32	40

TVS-L TVS-F

SPRING CLAMPING TWIN VICE

- Long stroke: TVS-L
- Fixed jaw: TVS-F
- Spring to clamp

Application/customer benefits

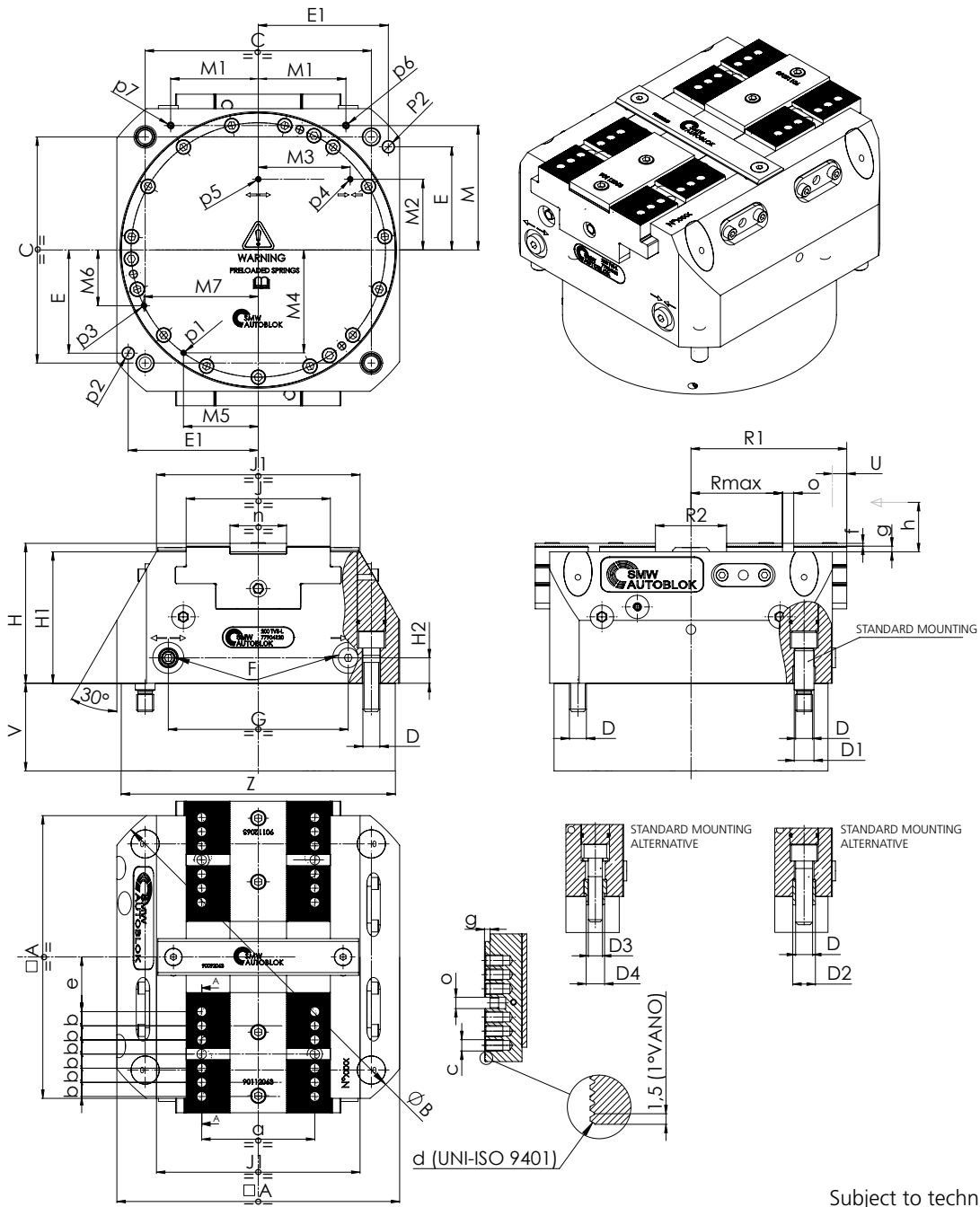
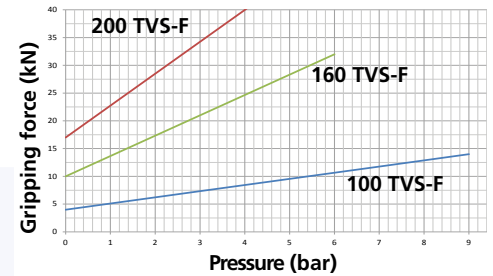
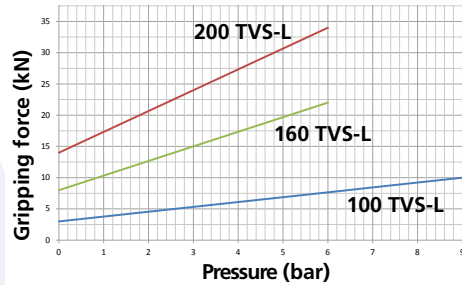
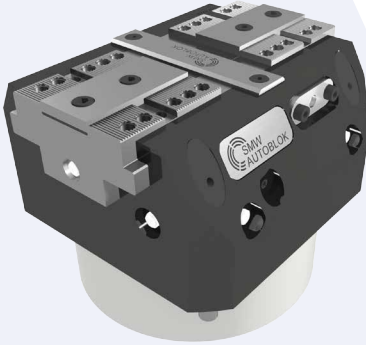
- Compact design
- Highest repeatability
- Highest rigidity

Standard equipment

Self-centering vice without top jaws.
All bolts and centering bushings included

Technical features

- Spring to clamp, pneumatic open
- Increase of the clamping force via Turbo function
- H7 quality pilot bore (see p2 below)
- Housing and functional parts hardened for high precision and long life
- Ready for air purge
- Ready for central grease lubrication
- Master jaws with both Tongue & Groove and fine serration 1,5mmx60°
- OD clamping only
- Lubrication with SMW-Autoblok K67 grease
- Stroke control via proximity switches (optional see page 26)



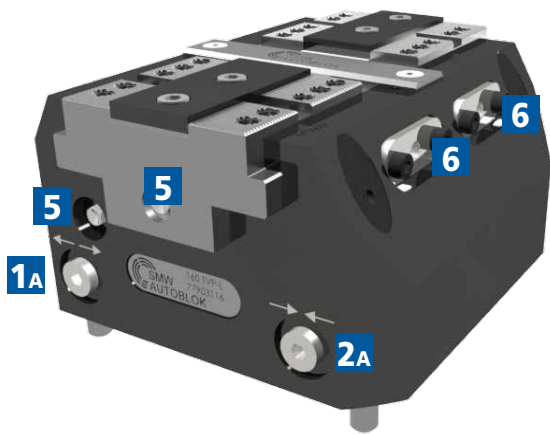
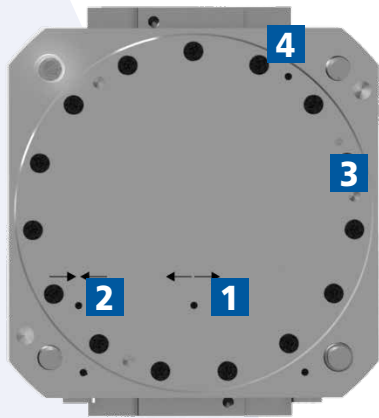
Subject to technical changes

TECHNICAL DATA

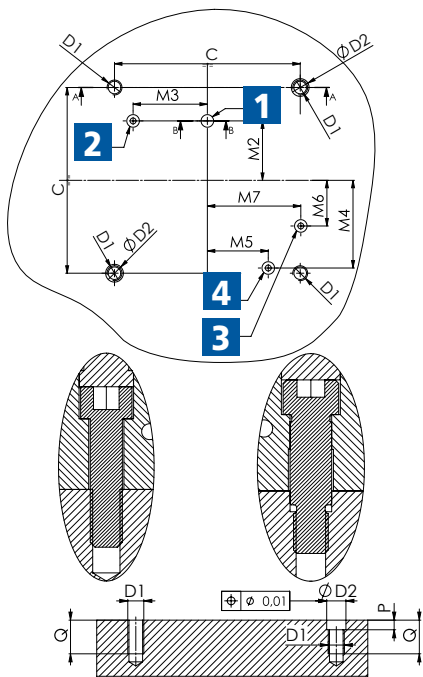
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			ONLY SPRINGS	SPRINGS+TURBO				
100 TVS-L	77904110	Long	3kN	10 kN	6 mm	9 bar	0.01 mm	5 kg
100 TVS-F	77904210	Fixed jaw	4kN	14 kN	6 mm	9 bar	0.01 mm	5 kg
160 TVS-L	77904116	Long	8kN	22 kN	8.4 mm	6 bar	0.01 mm	16 kg
160 TVS-F	77904216	Fixed jaw	10kN	32 kN	8.4 mm	6 bar	0.01 mm	16 kg
200 TVS-L	77904120	Long	14kN	34 kN	10.2 mm	6 bar	0.02 mm	26 kg
200 TVS-F	77904220	Fixed jaw	17kN	40 kN	10.2 mm	4 bar	0.02 mm	26 kg
250 TVS-L	77904125	Long	14kN	46 kN	15 mm	6 bar	0.02 mm	44 kg

TVS-L TVS-F		100	160	200	250
A		100	160	200	250
Z(Ø)		95.8	153.8	193.8	238.8
B(Ø)		132	205	255	314
C		80	125	160	200
D(Ø)		M8x15	M10x18	M12x20	M12x20
D1 (Øf7)		10x4	12x4	14x5	14x5
D2 (Øjs7)		11x4	13x6	16x6	16x6
D3		-	-	M10x18	-
D4 (Øjs7)		-	-	13x6	-
E		32	53	73	77
E1		45	73	92	115
F		M5	G1/8"	G1/8"	G1/8"
G		59.3	99	127.3	157
H		75.5	89.7	97	105
H1		72	86	93	100
H2		15	18	18	20
V		37.3	50	62	80
J		47	75	102	125
J1		72	108	144	180
M		45	69	88	113
M1		29	48	62	77
M2		32	40	50	64
M3		29.5	50	65	75
M4		34.2	59	72.8	89.8
M5		27.7	41	52.9	65.2
M6		14.2	30.7	39.5	48.7
M7		41.1	62.9	80.9	99.8
p1	Lubrication	M4	M4	M4	M5
p2 ØH7		6x14	8x14	8x14	10x20
p3	Air purge	M4	M4	M4	M5
p4	Vice Closed	M4	M4	M4	M5
p5	Vice Open	M4	M4	M4	M5
p6	Vice Closed	M4	M4	M5	M5
p7	Vice Open	M4	M4	M5	M5
R2	min/max (long stroke)	20/32	26/42.8	30/50.4	39/69
R1	min/max (long stroke)	50/56	82.5/90.9	100/110.2	119.5/134.5
Rmax	min/max (long stroke)	25.6/31.6	44.8/53.2	54.5/64.7	51.5/66.5
R2	min/max (fixed jaw)	20/26	26/34.4	30/40.2	-
R1	min/max (fixed jaw)	50/56	82.5/90.9	100/110.2	-
Rmax	min/max (fixed jaw)	25.6/31.6	44.8/53.2	54.5/64.7	-
U	long stroke	6	8.4	10.2	15
U	fixed jaw stroke	6	8.4	10.2	-
a		35	60	80	90
b		7	10	10	12
c		M6x10	M8x12	M8x12	M10x15
d	serration	1,5x60°	1,5x60°	1,5x60°	1,5x60°
e	min/max (long stroke)	14.6/20.6	18.8/27.2	28.5/38.7	32.5/47.5
e	min/max (fixed jaw)	14.6/20.6	18.8/27.2	28.5/38.7	-
f		1.8	1.8	2	2.5
g		2.7	3.2	4	4
h		16	25	35	40
o (H7)		6	8	8	10
n (g6)		20	32	40	50

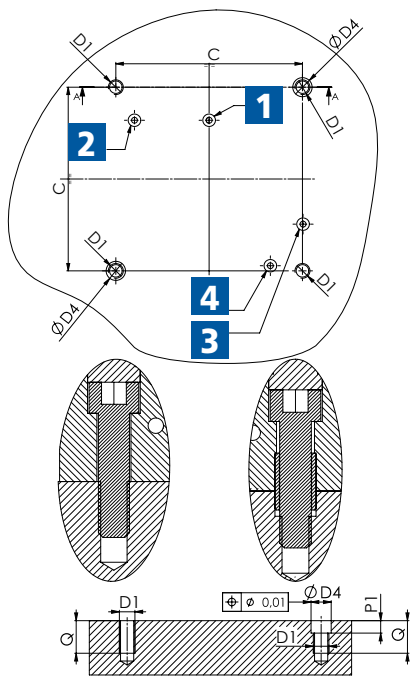
MOUNTING INSTRUCTION



SOLUTION 1 STANDARD
± 0,03 mm to clamping center

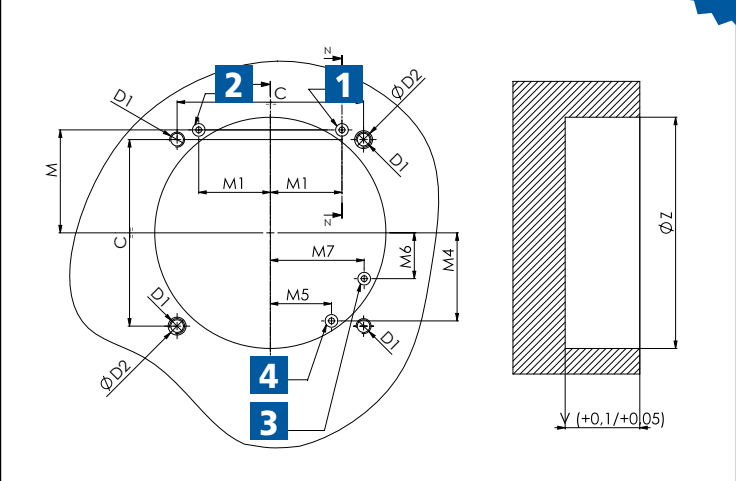


SOLUTION 2 STANDARD
± 0,025 mm to clamping center

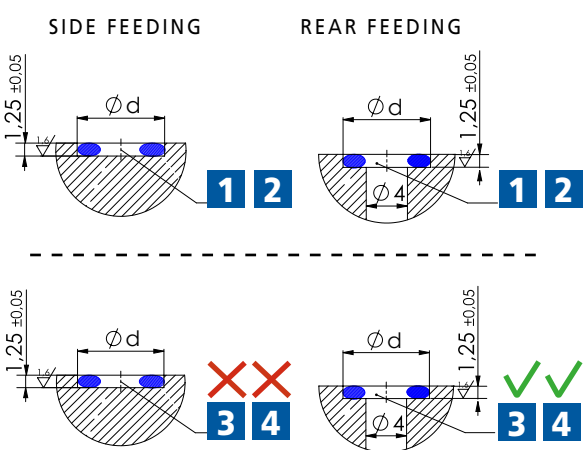


ALL BOLTS
AND
CENTERING
BUSHINGS
INCLUDED

SOLUTION WITH SPRINGS



FEEDING SEATS:



- 1

Open-Rear feeding
- 2

Closed-Rear feeding
- 3

Air purge
- 5

Lubrication fitting

1A

Open-Side feeding

2A

Closed-side feeding

4

Central lubrication

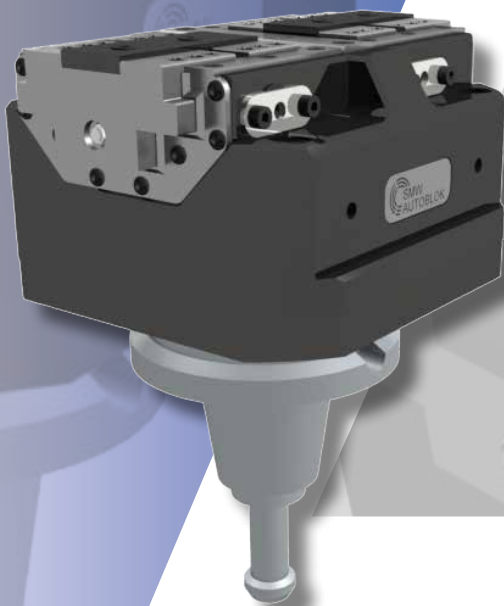
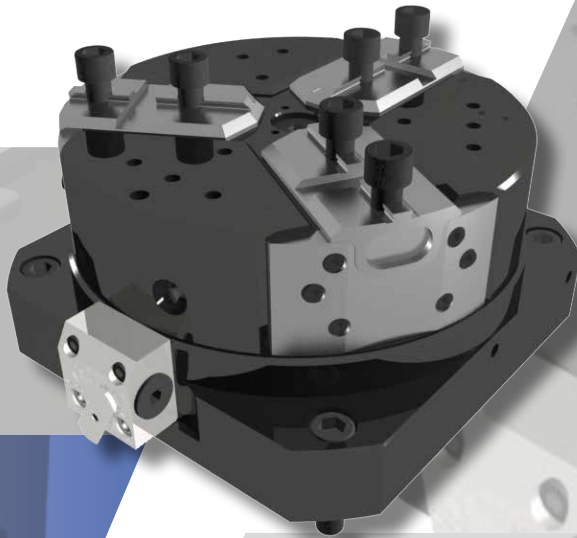
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Proximity switches seats

TV	C	D1	D2H7	D4H7	M	M1	M2	M3	M4	M5	M6	M7	P	P1	Q	V	Z	Ød	OR
100	80	M8	10	11	45	29	32	29,5	34,2	27,7	14,2	41,1	6	6	18	37,3	96,5	8	OR2018
160	125	M10	12	13	69	48	40	50	59	41	30,7	62,9	6	7	21	50	155	8	OR2018
200	160	M12	14	16	88	62	50	65	72,8	52,9	39,5	80,9	7	7	24	62	195	8,8	OR2021
250	200	M12	14	16	113	77	64	75	89,8	65,2	48,6	99,8	7	7	24	80	239	8,8	OR2021
315	250	M15	18	21	-	-	80	90	115,7	84	62,7	128,5	8	7	27	-	-	8,8	OR2021

STV

SPRING AND AIR OPERATED TWIN VICES



125-180-225

STV-2N STV-2L

SPRING AND AIR OPERATED TWIN VICE

- Protected
- Springs clamping
- Pneumatic jaw stroke control valve
- Normal stroke: STV-2N
- Long stroke: STV-2L

Application/customer benefits

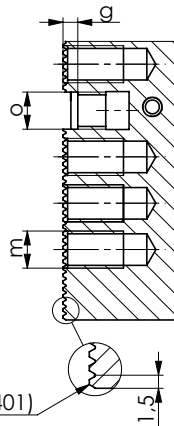
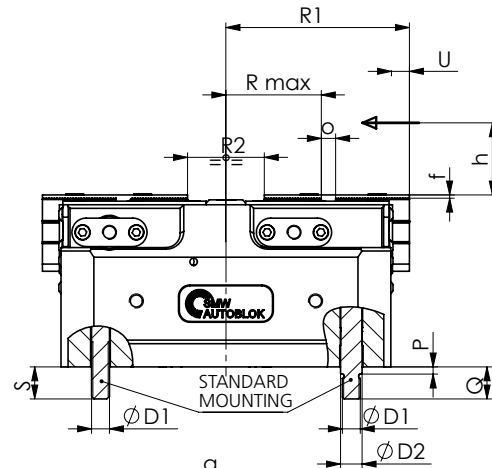
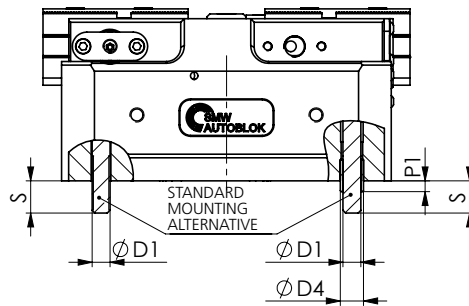
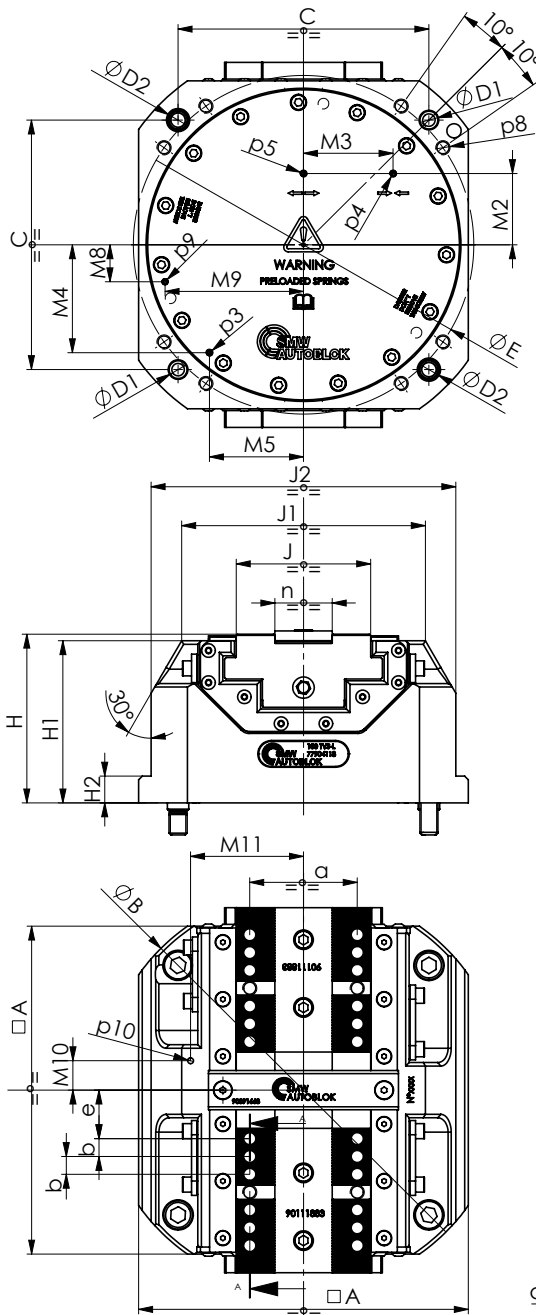
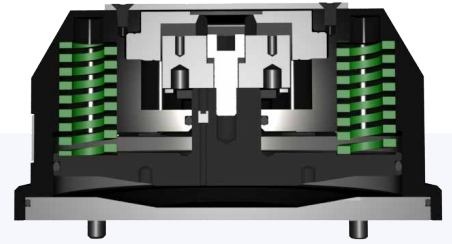
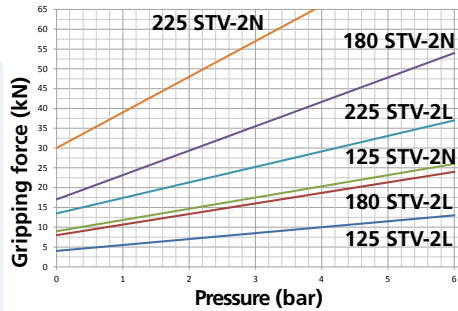
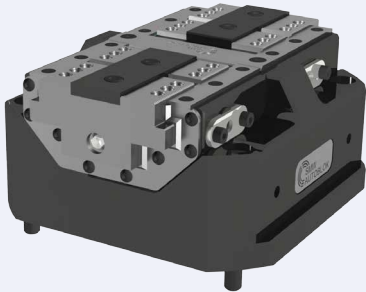
- Compact design
- Master jaws guide protected against swarf and chips
- Highest repeatability
- Highest rigidity

Standard equipment

Self-centering vice without top jaws
All bolts and centering bushings included

Technical features

- Spring to clamp, pneumatic open
- Increase of the clamping force via Turbo function
- Housing and functional parts hardened for high precision and long life
- Ready for air purge
- Master jaws with both Tongue & Groove and fine serration 1,5mmx60°
- OD clamping only
- Safety valve SAB-1 to maintain air pressure during pallet transportation/storage and machining without feed (optional see page 27)
- Pneumatic jaw stroke control valve (optional see page 27)
- Lubrication with SMW-Autoblok K67 grease
- Stroke control via proximity switches (optional see page 26)
- Air sensing



d (UNI-ISO 9401)

Subject to technical changes

TECHNICAL DATA

TYPE	ID. No.	TYPE STROKE	MAX. CLAMPING FORCE MIDDLE STROKE		STROKE/ JAW	PISTON AREA	RE-OPENING PRESSURE	MAX. OPERATING PRESSURE	REPEATABILITY	WEIGHT
			ONLY SPRINGS	SPRINGS+TURBO						
125 STV-2N	77904312	Normal	9 kN	26 kN	2.6 mm	78 cm ²	5 bar	6 bar	0.01 mm	7 Kg
125 STV-2L	77904412	Long	4 kN	13 kN	6 mm					
180 STV-2N	77904318	Normal	17 kN	54 kN	3 mm	170 cm ²	5 bar	6 bar	0.01 mm	17,5 Kg
180 STV-2L	77904418	Long	8 kN	24 kN	8,4 mm					
225 STV-2N	77904322	Normal	30 kN	66 kN	4,2 mm	250 cm ²	6 bar	4 bar	0.02 mm	28 Kg
225 STV-2L	77904422	Long	13,5 kN	37 kN	10,2 mm			6 bar		

STV-2		125	180	225
A		125	184	225
B(Ø)		162	225	284
C		100	140	180
D1(Ø)		M8	M10	M12
D2 (Øf7)		10	12	14
D4 (Øjs7)		11	13	16
E (ø)		136	190	240
H		80,5	94,7	102
H1		77	91	98
H2			15	15
J		47	75	94
J1		100	136	172
J2		125	170	216
M2		32	40	50
M3		29.5	50	65
M4		40,5	60,5	79
M5		38,5	52,5	63
P		4	4	5
P1		4	6	6
Q		15	18	20
R max	min/max (long stroke)	25.6/31.6	44.8/53.2	54.5/64.7
R max	min/max (normal stroke)	25,4/28	45/48	54.5/58.7
R1	min/max (long stroke)	64,5/70,5	94/102.4	114,5/124.7
R1	min/max (normal stroke)	64,4/67	94,5/97,5	114.8/119
R2	min/max (long stroke)	20/32	26/42.8	30/50.4
R2	min/max (normal stroke)	19.8/25	26/32	30.6/39
S		15	18	20
U	long stroke	6	8.4	10.2
U	normal stroke	2.6	3	4.2
a		35	60	80
b		7	10	10
d	serration	1,5x60°	1,5x60°	1,5x60°
e	min/max (long stroke)	14.6/20.6	18.8/27.2	28.5/38.7
e	min/max (normal stroke)	14.4/17	19/22	28.5/32.7
f		1.8	1.8	2
g		2.7	3.2	4
h		16	25	35
m		M6x10	M8x12	M8x12
n (g6)		20	32	40
o (H7)		6	8	8
p3	Air stroke control or Air purge	M4	M4	M4
p4	Vice Closed	M4	M4	M4
p5	Vice Open	M4	M4	M4
p8		M6x12	M8x16	M10x18
p9		M4	M4	M4
p10		M4	M4	M4
M8		10,6	20,7	15
M9		54,5	77,3	99,9
M10		10,5	16,5	15
M11		46	63	81

STV-3N

SPRING AND AIR OPERATED TWIN VICE

- Protected
- 3 jaws
- Springs to clamp
- Normal stroke: STV-3N
- Pneumatic jaw stroke control valve

Application/customer benefits

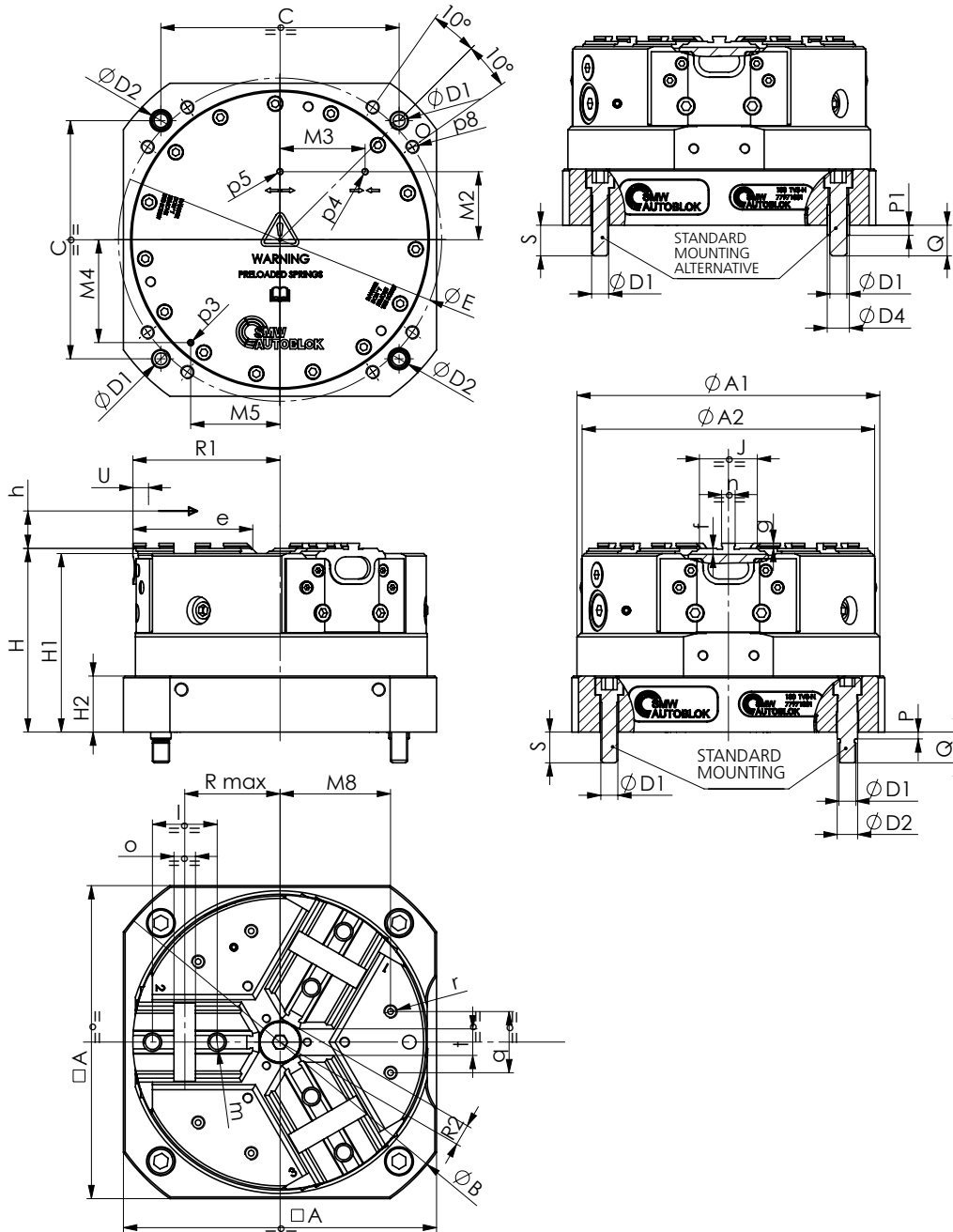
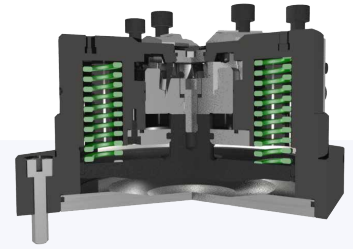
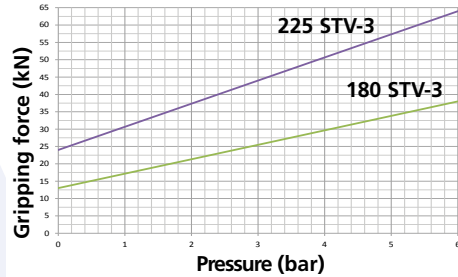
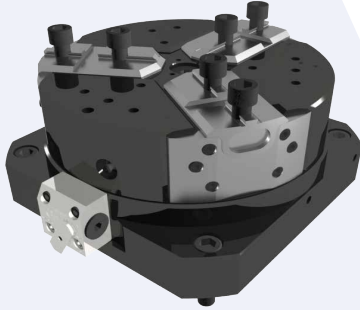
- Compact design
- Master jaws guide protected against swarf and chips
- Highest repeatability
- Highest rigidity

Standard equipment

Self-centering vice without top jaws
All bolts and centering bushings included

Technical features

- Spring clamped, air open
- Increase of the clamping force via Turbo function
- Housing and functional parts hardened for high precision and long life
- Ready for air purge
- 3 jaw interfaces: Tongue & Groove
- OD clamping only
- Safety valve SAB-1 to maintain air pressure during pallet transportation/storage and machining without feed (optional see page 27)
- Pneumatic jaw stroke control valve (optional see page 27)
- Lubrication with SMW-Autoblok K67 grease



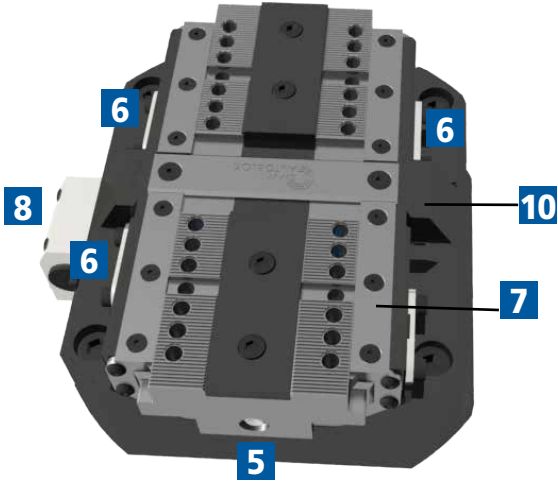
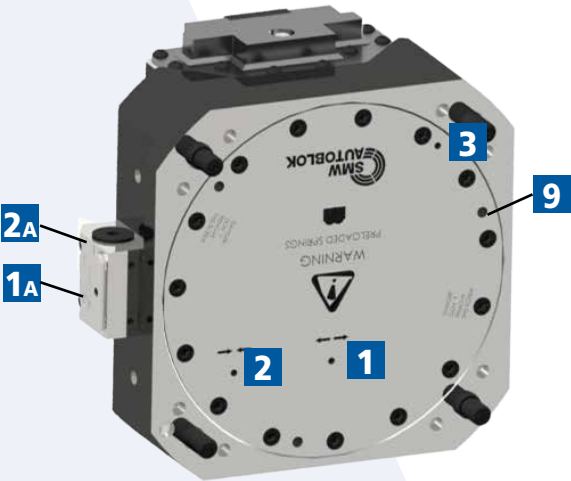
Subject to technical changes

TECHNICAL DATA

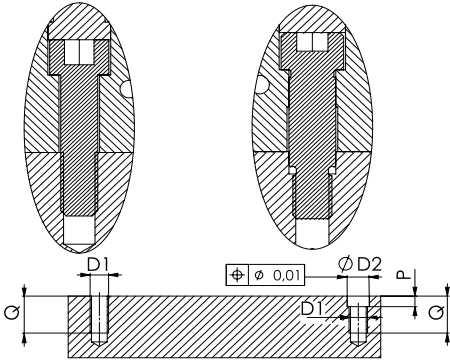
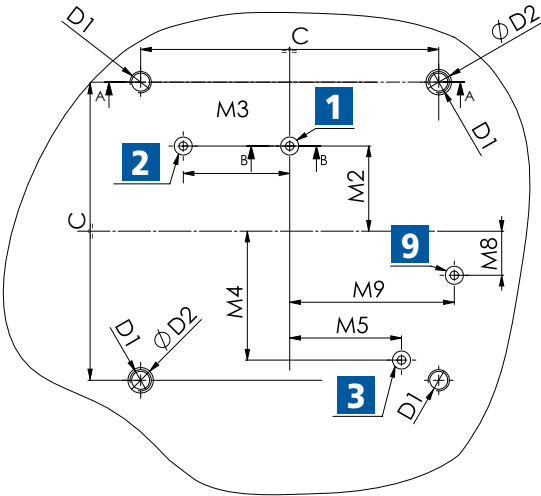
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			ONLY SPRINGS	SPRINGS+TURBO					
125 STV-3	on request	Normal							
180 STV-3	77904618	Normal	13 kN	38 kN	3.8 mm	170 cm ²	5 bar	6 bar	18 Kg
225 STV-3	77904622	Normal	24 kN	64 kN	4.2 mm	250 cm ²	6 bar	6 bar	29.5 Kg

STV-3		180	225
A		184	225
A1		178	222
A2		172	216
B(Ø)		225	284
C		140	180
D1(Ø)		M10	M12
D2 (Øf7)		12	14
D4 (Øjs7)		13	16
E (ø)		190	240
H		108	115
H1		105	112
H2		33	38
J		34	46
M2		40	50
M3		50	65
M4		60,5	79
M5		52,5	63
M8		65	80
P		4	5
P1		6	6
Q		18	20
R max	min/max	52.2/56	67,8/72
R1	min/max	82,7/86,5	103.8/108
R2	min/max	8,7/12,5	12.8/17
S		18	20
U		3,8	4.2
e		70	87
f		3,5	3,5
g		3	3
h		25	35
l		38	44,4
m		M10x12	M12x14
n (h8)		7,94	7,94
o (H7)		12,68	12,68
p3	Air stroke control or Air purge	M4	M4
p4	Vice Closed	M4	M4
p5	Vice Open	M4	M4
p8		M8x16	M10x18
q		36	45
r		M8x10	M8x10
t	min/max	9/15,6	13.5/20,9

MOUNTING INSTRUCTION

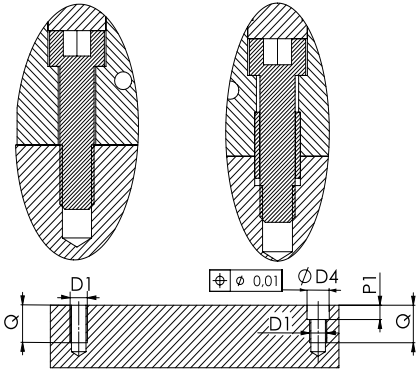
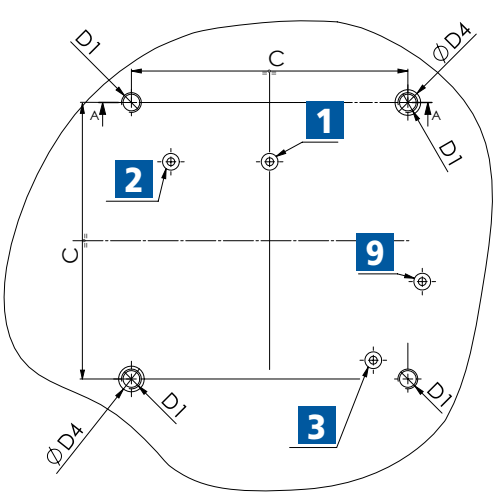


SOLUTION 1 STANDARD
± 0,03 mm to clamping center

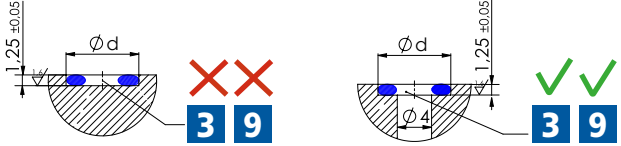
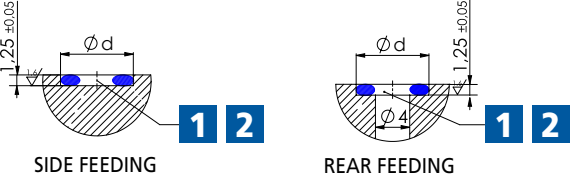


ALL BOLTS
AND
CENTERING
BUSHINGS
INCLUDED

SOLUTION 2 STANDARD
± 0,025 mm to clamping center



FEEDING SEATS:



- 1

Open-Rear feeding
- 1A

Open-Side feeding
- 10

Air sensing outlet**
(under front plate)
- 2

Closed-Rear feeding
- 2A

Closed-Side Feeding
- 3

Pneumatic stroke control or Air purge*
- 5

Lubrication fitting
- 6

Proximity switches seats
- 7

Pneumatic stroke control valve
(optional see page 27)
- 8

Safety valve
(optional see page 27)
- 9

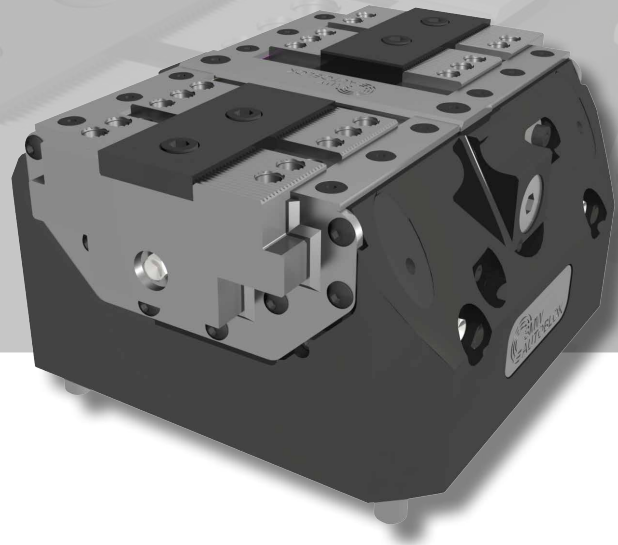
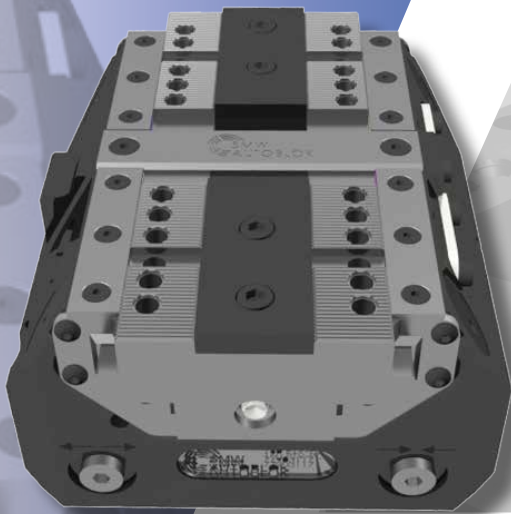
Air sensing connection**
(only bottom)

* The air purge can be used only without the valve.
**9 and 10 Points available only on 2 jaws version.

STV	C	D1	D2H7	D4H7	M2	M3	M4	M5	M8	M9	P	P1	Q	Ød	OR
125	100	M8	10	11	32	29,5	40,5	38,5	10,6	54,5	6	6	18	8	OR2018
180	140	M10	12	13	40	50	60,5	52,5	20,7	77,3	6	7	21	8,8	OR2021
225	180	M12	14	16	50	65	79	63	15	99,9	7	7	24	8,8	OR2021

PT

PROTECTED TWIN VICES



100-125-160-200

PTP-N PTP-L PTP-F

PROTECTED PNEUMATIC TWIN VICE

- Pneumatic version
- Long stroke: PTP-L
- Normal stroke: PTP-N
- Fixed jaw: PTP-F
- Pneumatic jaw stroke control valve

Application/customer benefits

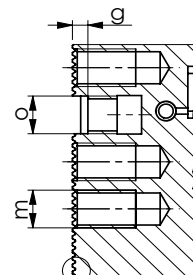
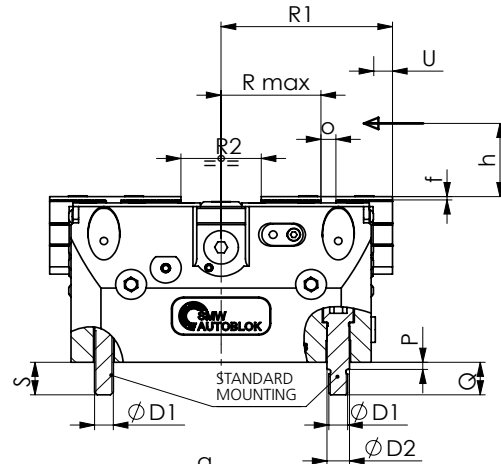
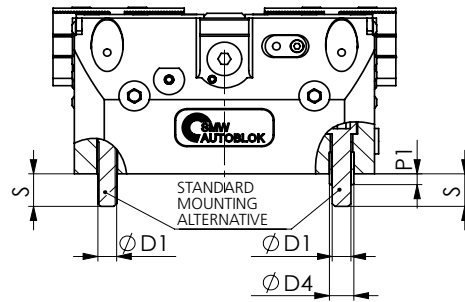
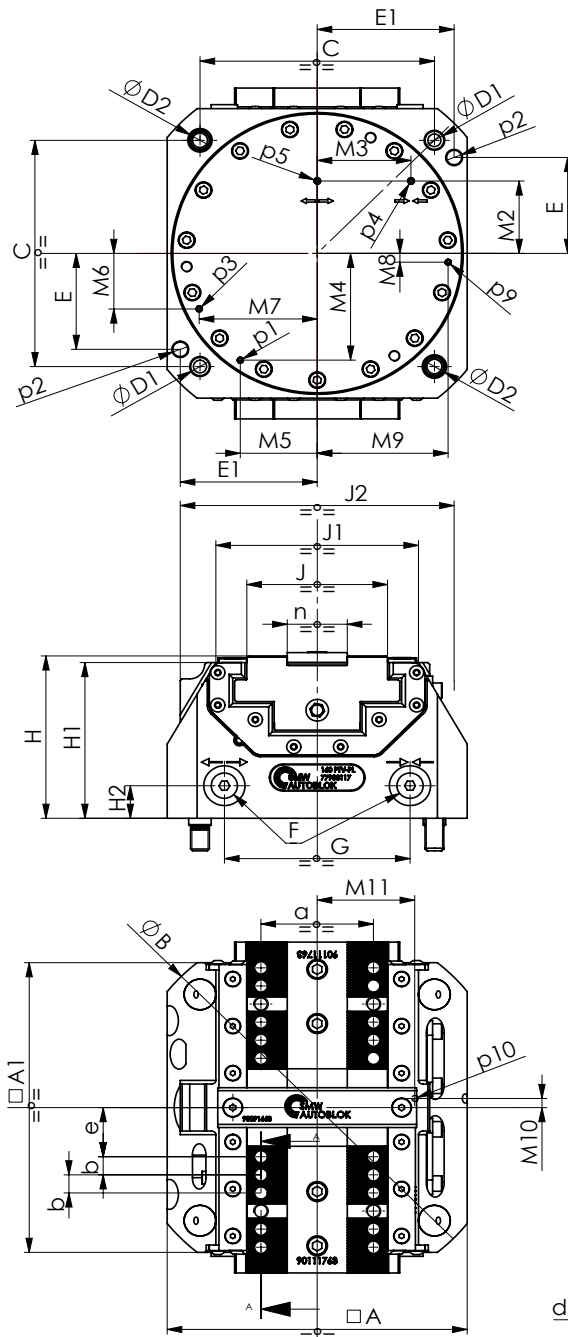
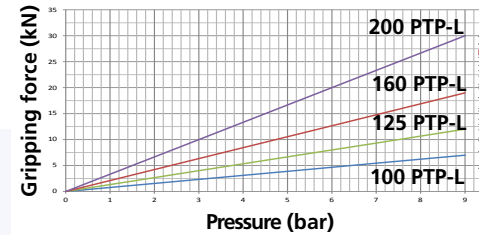
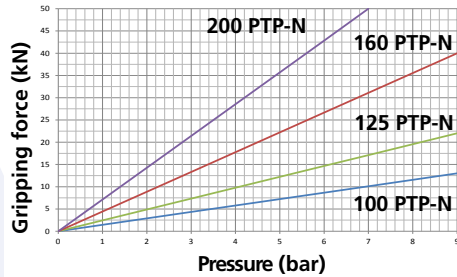
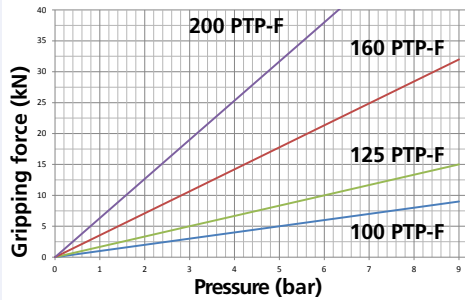
- Compact design
- Master jaws guide protected against swarf and chips
- Highest repeatability
- Highest rigidity
- Linear pressure adjustment

Standard equipment

Self-centering vice without top jaws
All bolts and centering bushings included

Technical features

- Housing and functional parts hardened for high precision and long life
- Ready for air purge
- Ready for central grease lubrication
- Master jaws with both Tongue & Groove and fine serration 1,5mmx60°
- OD and ID clamping
- Pneumatic jaw stroke control valve (optional see page 27)
- Air sensing
- Lubrication with SMW-Autoblok K67 grease
- Stroke control via proximity switches (optional see page 26) on all types and sizes except 100 PTP-F
- For 100 PTP-F only one stroke control via proximity switch for vice closed



d (UNI-ISO 9401)



Subject to technical changes

TECHNICAL DATA

TYPE	ID No.	STROKE TYPE	MAX CLAMPING FORCE	STROKE/JAW	PISTON AREA	MAX OPERATING PRESSURE	REPEATABILITY	WEIGHT
100 PTP-N	77905211	Normal	13 kN	2,6 mm	45 cm ²	9 bar	0.01 mm	5,5 Kg
100 PTP-L	77905311	Long	7 kN	6 mm				
100 PTP-F	77905411	Fixed jaw	9 kN	6 mm				
125 PTP-N	77905212	Normal	22 kN	2,6 mm	78 cm ²	9 bar	0.01 mm	7 Kg
125 PTP-L	77905312	Long	12 kN	6 mm				
125 PTP-F	77905412	Fixed jaw	15 kN	6 mm				
160 PTP-N	77905217	Normal	40 kN	3 mm	128 cm ²	9 bar	0.01 mm	13 Kg
160 PTP-L	77905317	Long	19 kN	8,4 mm				
160 PTP-F	77905417	Fixed jaw	32 kN	8,4 mm				
200 PTP-N	77905221	Normal	50 kN	4,2 mm	194 cm ²	7 bar	0.02 mm	23 Kg
200 PTP-L	77905321	Long	30 kN	10,2 mm		9 bar		
200 PTP-F	77905421	Fixed jaw	38 kN	10,2 mm		6 bar		

PTP		100	125	160	200
A		100	125	160	200
A1		110	125	160	200
B(Ø)		136	162	205	255
C		80	100	125	160
D1(Ø)		M8	M8	M10	M12
D2 (Øf7)		10	10	12	14
D4 (Øjs7)		11	11	13	16
E		32	/	53	73
E1		45	/	73	92
F		M5	M5	G1/8"	G1/8"
G		59	59	99	127
H		75,5	80,5	89,7	97
H1		72	77	86	93
H2		15	17	18	18
J		47	47	75	94
J1		82	100	108	144
J2		100	121	146	166
M2		32	32	40	50
M3		29.5	29.5	50	65
M4		34,2	40,5	59	72,8
M5		27.7	38,5	41	52,9
M6		14,2	10,6	30,7	39,5
M7		41,1	54,5	62,9	80,9
M8		8,3	4,8	4,9	9,4
M9		42,7	55,3	69,8	89,5
M10		5	5	5	8
M11		34	34	52	60
P		4	4	4	5
P1		4	4	6	6
Q		15	15	18	20
R max	min/max (long stroke)	25.6/31.6	25.6/31.6	44.8/53.2	54.5/64.7
R max	min/max (normal stroke)	25.4/28	25.4/28	45/48	54.5/58.7
R max	min/max (fixed jaw)	25.6/31.6	25.6/31.6	44.8/53.2	54.5/64.7
R1	min/max (long stroke)	57.5/63.5	64.5/70.5	82.5/90.9	102.5/112.7
R1	min/max (normal stroke)	57.4/60	64.4/67	82.5/85.5	102.8/107
R1	min/max (fixed jaw)	57.5/63.5	64.5/70.5	82.5/90.9	102.5/112.7
R2	min/max (long stroke)	20/32	20/32	26/42.8	30/50.4
R2	min/max (normal stroke)	19.8/25	19.8/25	26/32	30.6/39
R2	min/max (fixed jaw)	20/26	20/26	26/34.4	30/40.2
S		15	15	18	20
U	long stroke	6	6	8.4	10.2
U	normal stroke	2.6	2.6	3	4.2
U	fixed jaw	6	6	8.4	10.2
a		35	35	60	80
b		7	7	10	10
d	serration	1,5x60°	1,5x60°	1,5x60°	1,5x60°
e	min/max (long stroke) (fixed jaw)	14.6/20.6	14.6/20.6	18.8/27.2	28.5/38.7
e	min/max (normal stroke)	14.4/17	14.4/17	19/22	28.5/32.7
f		1.8	1.8	1.8	2
g		2.7	2.7	3.2	4
h		16	16	25	35
m		M6x10	M6x10	M8x12	M8x12
n (g6)		20	20	32	40
o (H7)		6	6	8	8
p1	Lubrication fitting	M4	M4	M4	M4
p2 (øH7)		/	/	8x14	8x14
p3	Air stroke control or Air purge	M4	M4	M4	M4
p4	Vice Closed	M4	M4	M4	M4
p5	Vice Open	M4	M4	M4	M4
p9	Air sensing connection	M4	M4	M4	M4
p10	Air sensing outlet (under front plate)	M4	M4	M4	M4

PTH-N PTH-L

PROTECTED HYDRAULIC TWIN VICE

- Hydraulic version
- Long stroke: PTH-L
- Normal stroke: PTH-N
- Pneumatic jaw stroke control valve



Application/customer benefits

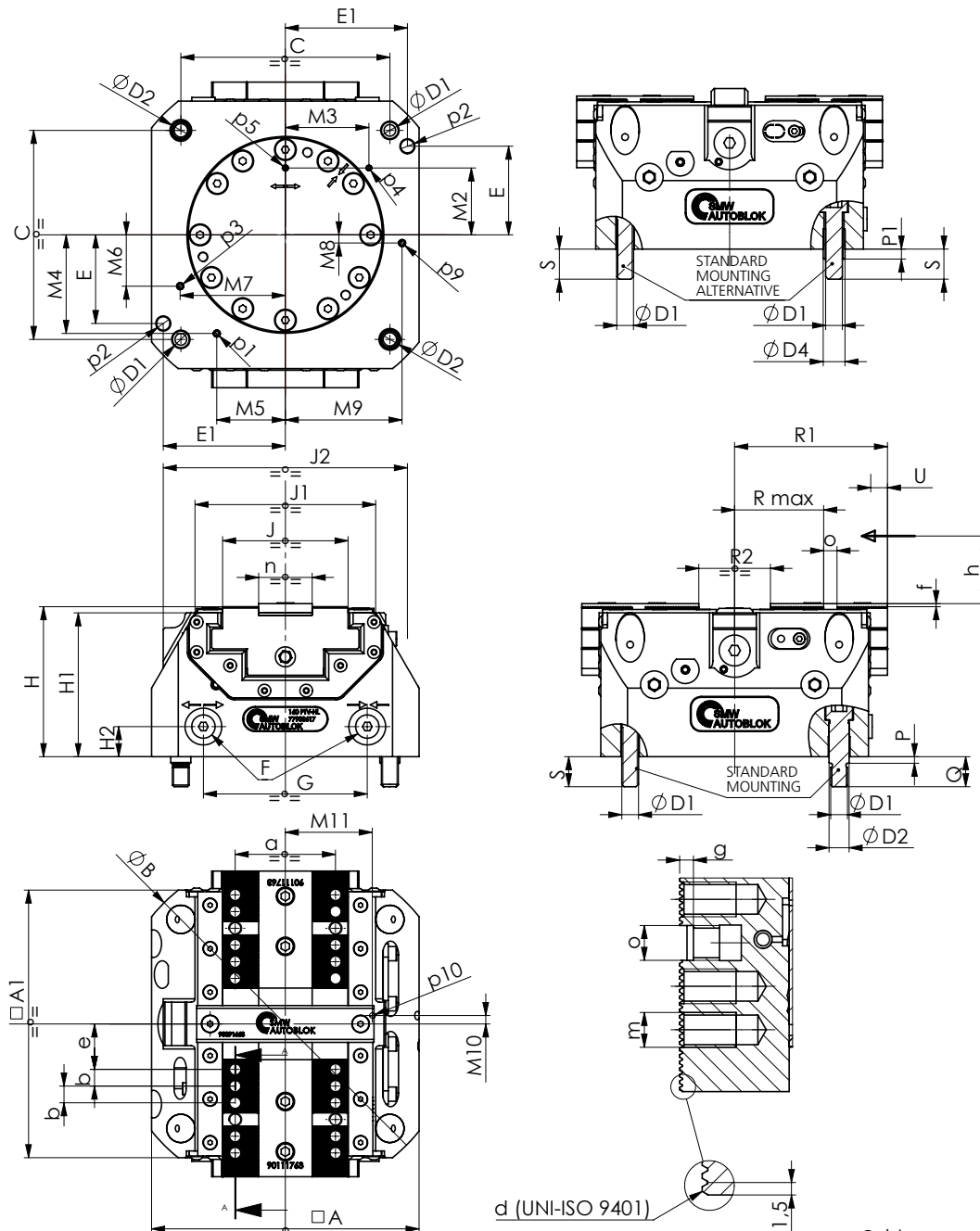
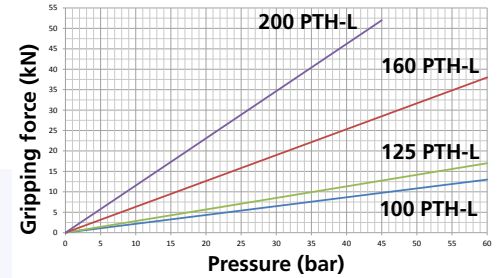
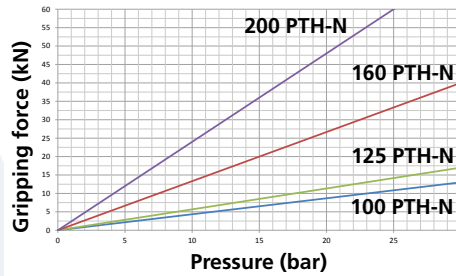
- Compact design
- Master jaws guide protected against swarf and chips
- Highest repeatability
- Highest rigidity
- Linear pressure adjustment

Standard equipment

Self-centering vice without top jaws
All bolts and centering bushings included

Technical features

- Housing and functional parts hardened for high precision and long life
- Ready for air purge
- Ready for central grease lubrication
- Master jaws with both Tongue & Groove and fine serration 1,5mmx60°
- OD and ID clamping
- Pneumatic jaw stroke control valve (optional see page 27)
- Air sensing
- Lubrication with SMW-Autoblok K67 grease
- Stroke control via proximity switches (optional see page 26)



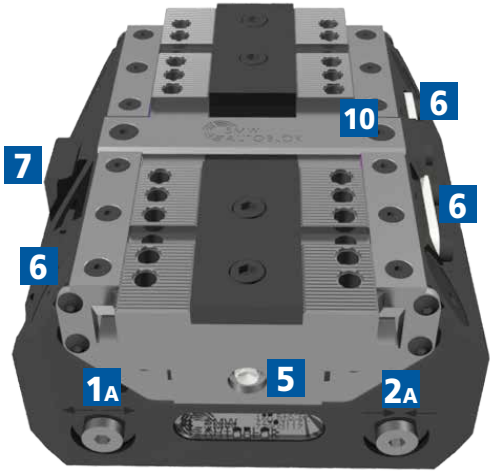
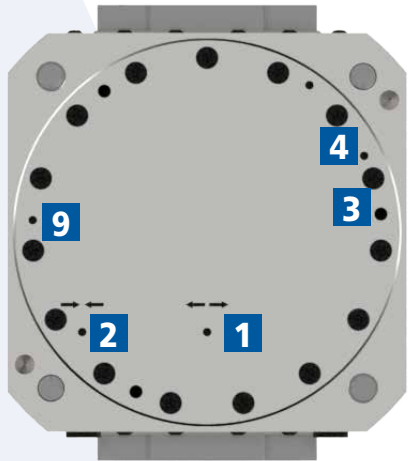
Subject to technical changes

TECHNICAL DATA

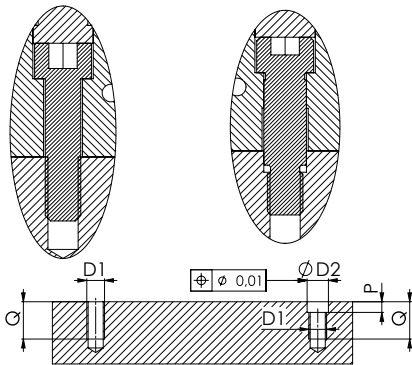
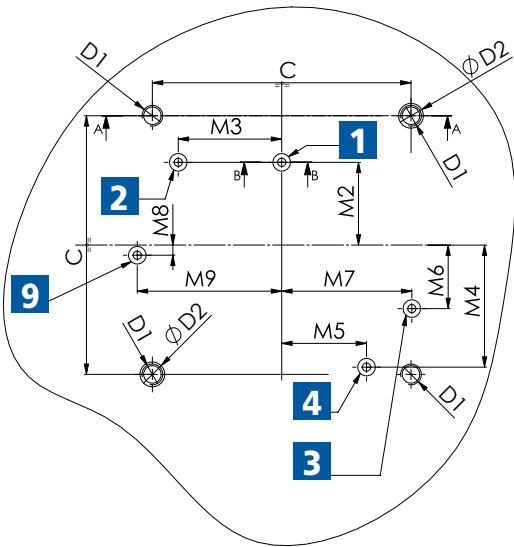
TYPE	ID. No.	STROKE TYPE	STROKE/ JAW	MAX CLAMPING FORCE	PISTON AREA	MAX. OPERATING PRESSURE	REPEATABILITY	WEIGHT
100 PTH-N	77905711	Normal	2,6 mm	13 kN	15 cm ²	30 bar	0.01 mm	6 Kg
100 PTH-L	77905811	Long	6 mm			60 bar	0.01 mm	
125 PTH-N	77905712	Normal	2,6 mm	17 kN	20 cm ²	30 bar	0.01 mm	8 Kg
125 PTH-L	77905812	Long	6 mm			60 bar	0.01 mm	
160 PTH-N	77905717	Normal	3 mm	40 kN	45 cm ²	30 bar	0.01 mm	15 Kg
160 PTH-L	77905817	Long	8,4 mm	38 kN		60 bar	0.01 mm	
200 PTH-N	77905721	Normal	4,2mm	60 kN	68 cm ²	25 bar	0.02 mm	25 Kg
200 PTH-L	77905821	Long	10,2 mm	52 kN		45 bar	0.02 mm	

PTH		100	125	160	200
A		100	125	160	200
A1		110	125	160	200
B(Ø)		136	162	205	255
C		80	100	125	160
D1(Ø)		M8	M8	M10	M12
D2 (Øf7)		10	10	12	14
D4 (Øjs7)		11	11	13	16
E		32	/	53	73
E1		45	/	73	92
F		G1/8"	G1/8"	G1/8"	G1/8"
G		55	55	98	128
H		75,5	80,5	89,7	97
H1		72	77	86	93
H2		15	17	18	18
J		47	47	75	94
J1		82	100	108	144
J2		100	121	146	166
M2		32	32	40	50
M3		29.5	29.5	50	65
M4		34,2	40,5	59	72,8
M5		27.7	38,5	41	52,9
M6		14,2	10,6	30,7	39,5
M7		41,1	54,5	62,9	80,9
M8		8,3	4,8	4,9	9,4
M9		42,7	55,3	69,8	89,5
M10		5	5	5	8
M11		34	34	52	60
P		4	4	4	5
P1		4	4	6	6
Q		15	15	18	20
R max	min/max (long stroke)	25.6/31.6	25.6/31.6	44.8/53.2	54.5/64.7
R max	min/max (normal stroke)	25,4/28	25,4/28	45/48	54.5/58.7
R1	min/max (long stroke)	57.5/63.5	64,5/70,5	82.5/90.9	102.5/112.7
R1	min/max (normal stroke)	57.4/60	64,4/67	82.5/85.5	102.8/107
R2	min/max (long stroke)	20/32	20/32	26/42.8	30/50.4
R2	min/max (normal stroke)	19.8/25	19.8/25	26/32	30.6/39
S		15	15	18	20
U	long stroke	6	6	8.4	10.2
U	normal stroke	2.6	2.6	3	4.2
a		35	35	60	80
b		7	7	10	10
d	serration	1,5x60°	1,5x60°	1,5x60°	1,5x60°
e	min/max (long stroke)	14.6/20.6	14.6/20.6	18.8/27.2	28.5/38.7
e	min/max (normal stroke)	14.4/17	14.4/17	19/22	28.5/32.7
f		1.8	1.8	1.8	2
g		2.7	2.7	3.2	4
h		16	16	25	35
m		M6x10	M6x10	M8x12	M8x12
n (g6)		20	20	32	40
o (H7)		6	6	8	8
p1	Lubrication fitting	M4	M4	M5	M5
p2 (øH7)		/	/	8x14	8x14
p3	Air stroke control or Air purge	M4	M4	M5	M5
p4	Vice Closed	M4	M4	M4	M4
p5	Vice Open	M4	M4	M4	M4
p9	Air sensing connection	M4	M4	M5	M5
p10	Air sensing outlet (under front plate)	M4	M4	M4	M4

MOUNTING INSTRUCTION

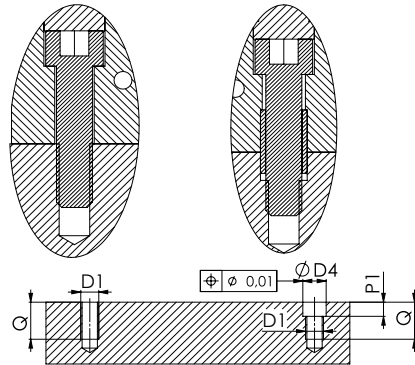
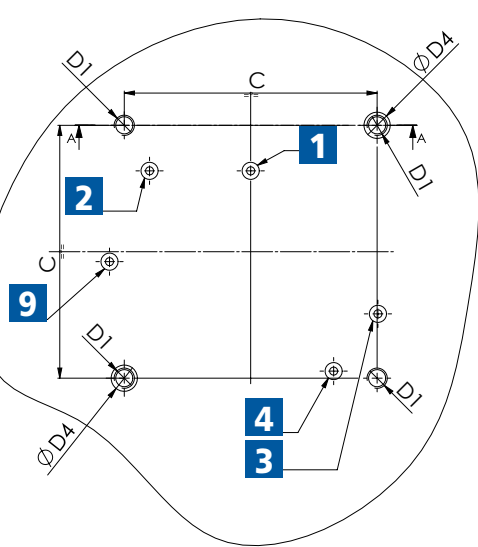


SOLUTION 1 STANDARD
± 0,03 mm to clamping center

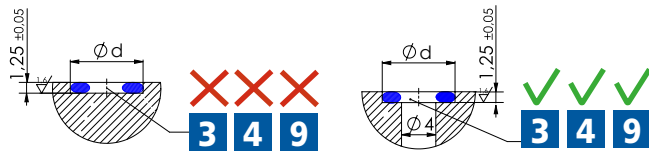
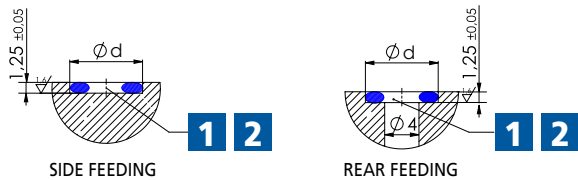


ALL BOLTS
AND
CENTERING
BUSHINGS
INCLUDED

SOLUTION 2 STANDARD
± 0,025 mm to clamping center



FEEDING SEATS:



- 1** Open-Rear feeding

1A Open-Side feeding
- 2** Closed-Rear feeding

2A Closed-Side feeding
- 3** Pneumatic stroke control or air purge connection*

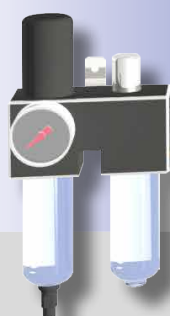
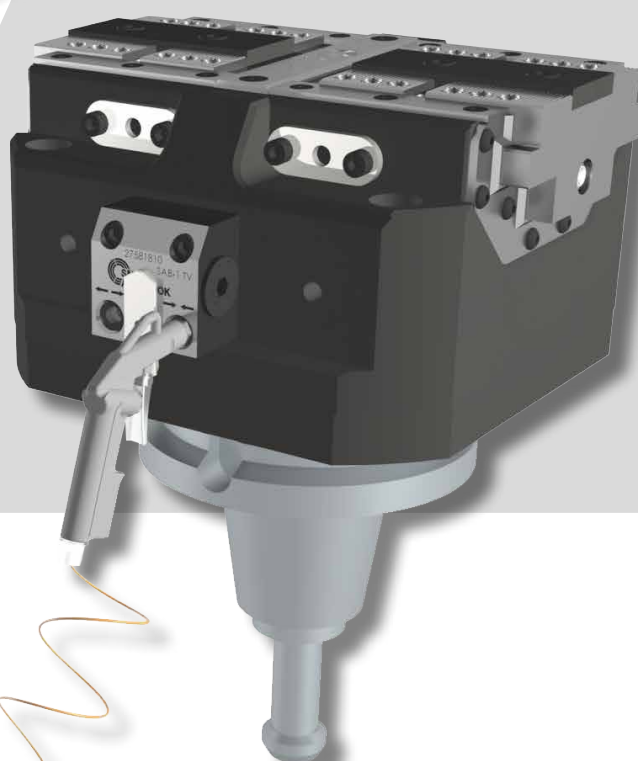
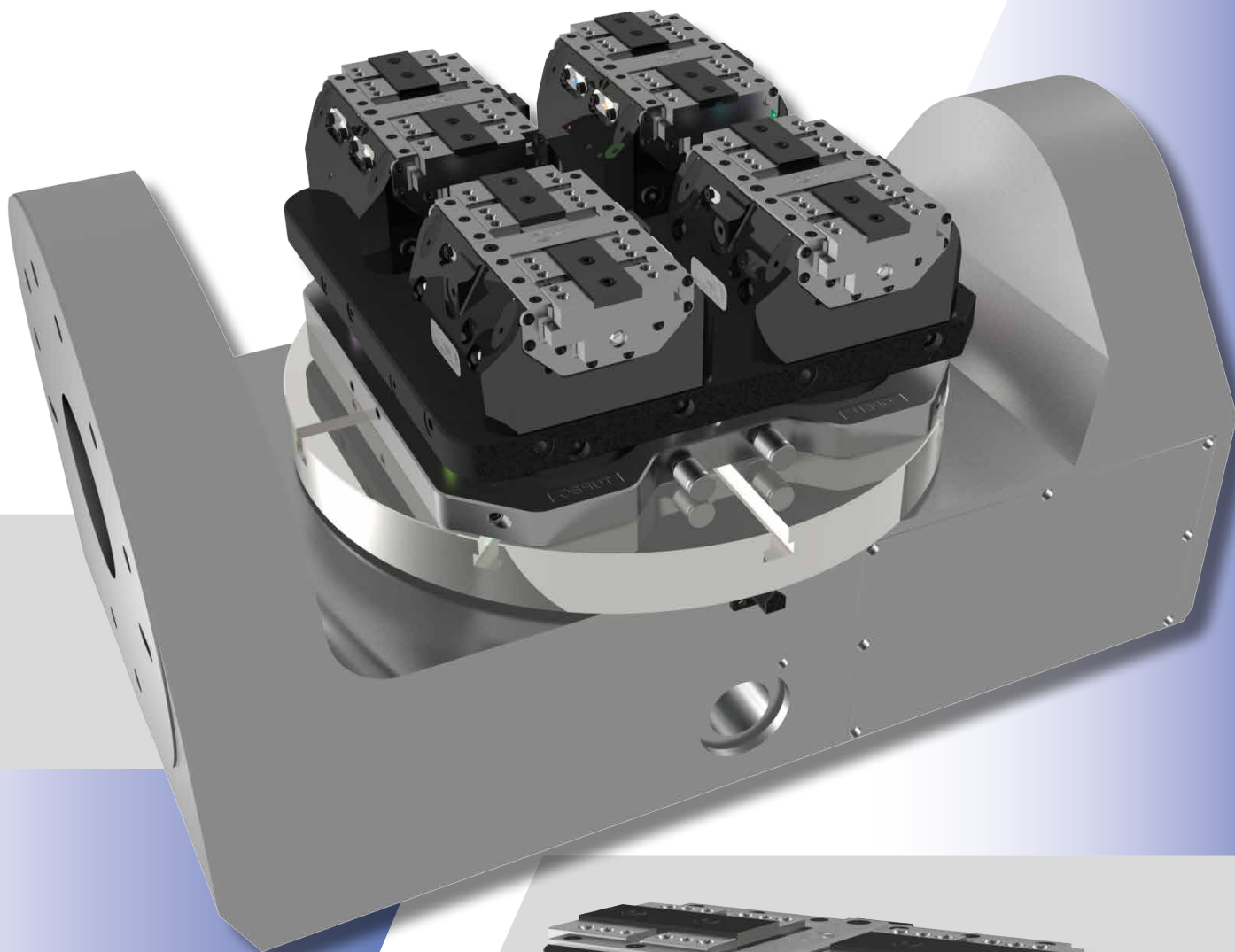
4 Central lubrication
- 5** Lubrication fitting

6 Proximity switch seats
- 7** Pneumatic jaw stroke control valve (optional see page 27)

9 Air sensing connection (only bottom)
- 10** Air sensing outlet (under front plate)

*The air purge can be used only without the valve.

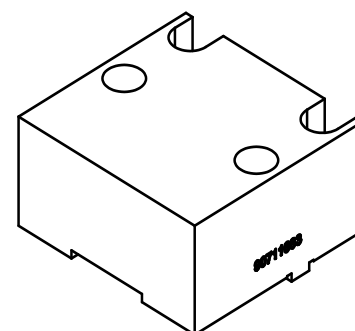
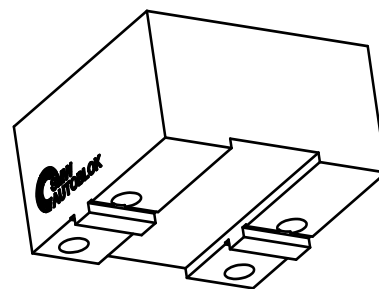
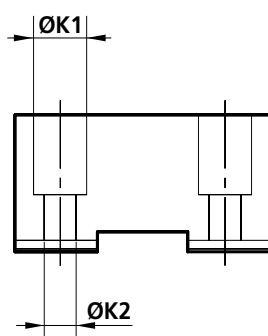
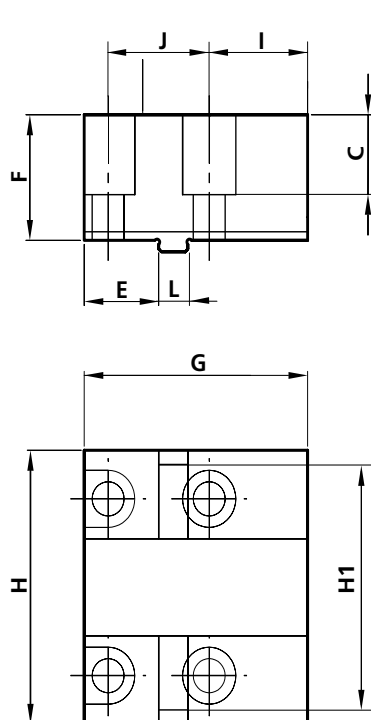
PT	C	D1	D2H7	D4H7	M2	M3	M4	M5	M6	M7	M8	M9	P	P1	Q	Ød	OR
100	80	M8	10	11	32	29,5	34,2	27,7	14,2	41,1	7	43	6	6	18	8	OR2018
125	100	M8	10	11	32	29,5	40,5	38,5	9,6	54,6	4,8	55,3	6	6	18	8	OR2018
160	125	M10	12	13	40	50	59	41	30,7	62,9	4,9	69,8	6	7	21	8	OR2018
200	160	M12	14	16	50	65	72,8	52,9	39,5	80,9	9,4	89,5	7	7	24	8,8	OR2021



APPLICATIONS

TWIN VICE JAWS

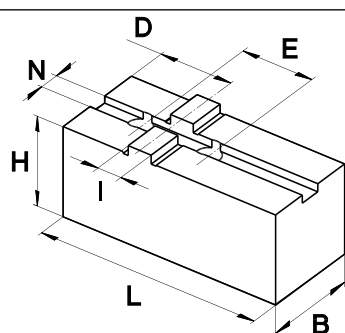
- Soft blank top jaw
- Tongue & Groove or fine serration 1.5mmx60°



Subject to technical changes

SOFT BLANK TOP JAWS, TONGUE & GROOVE

TYPE	ID No.	C	E	F	G	H	H1	I	J	K1	K2	L	CLAMP RANGE
100 TV / PT	90711063	20	18	27.5	49	54.5	45	21	21	11	7	6h7	0-70
125 STV-2 / PT	90711283	20	33	27.5	64	54.5	45	21	35	11	7	6h7	0-100
100 TV / PT	90721063	40	18	47.5	49	54.5	45	21	21	11	7	6h7	0-70
125 STV-2 / PT	90721283	40	33	47.5	64	54.5	45	21	35	11	7	6h7	0-100
160 TV / PT	90711663	27	27	37	79	79	74	38	30	14	9	8h7	0-120
180 STV-2 / PT	90711883	27	41	37	93	79	74	38	40	14	9	8h7	0-140
160 TV / PT	90721663	66.5	27	76.5	79	79	74	38	30	14	9	8h7	0-120
180 STV-2 / PT	90721883	66.5	41	76.5	93	79	74	38	40	14	9	8h7	0-140
200 TV / PT	90712063	37	37	47	98.5	109	92	47.5	40	14	9	8h7	0-150
200 TV / PT	90722063	76.5	37	86.5	98.5	109	92	47.5	40	14	9	8h7	0-150
225 STV-2	90712283	37	52	47	113.5	109	92	47.5	50	14	9	8h7	0-180
225 STV-2	90722283	76.5	52	86.5	113.5	109	92	47.5	50	14	9	8h7	0-180
250 TV	90712563	31	59	47	120	124		44	48	18	11	10h7	0-170
250 TV	90722563	81.5	59	97.5	120	124		44	48	18	11	10h7	0-170
315 TV	90713163	42	54	57	150	160		75	60	20	13.5	12h7	on request
315 TV	90723163	87.5	54	102.5	150	160		75	60	20	13.5	12h7	on request

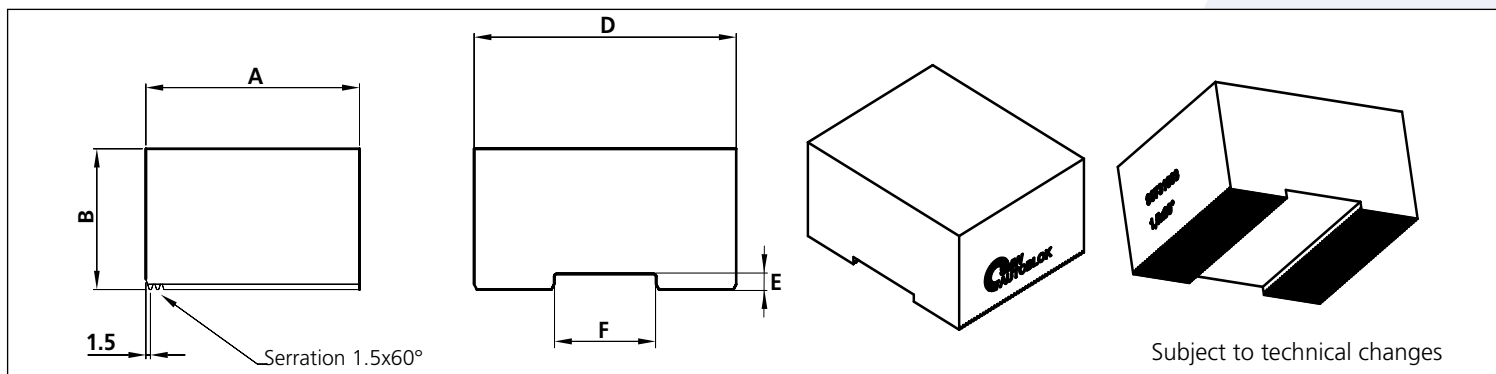


TONGUE & GROOVE SOFT BLANK TOP JAWS "C" FOR TWIN VICE STV-3

TYPE	ID No.	B	H	L	N	D	E	I
180 STV-3	12041660	30	32	80	7.94	30	38.1	12.68
225 STV-3	12042060	35	37	100	7.94	35	44.4	12.68

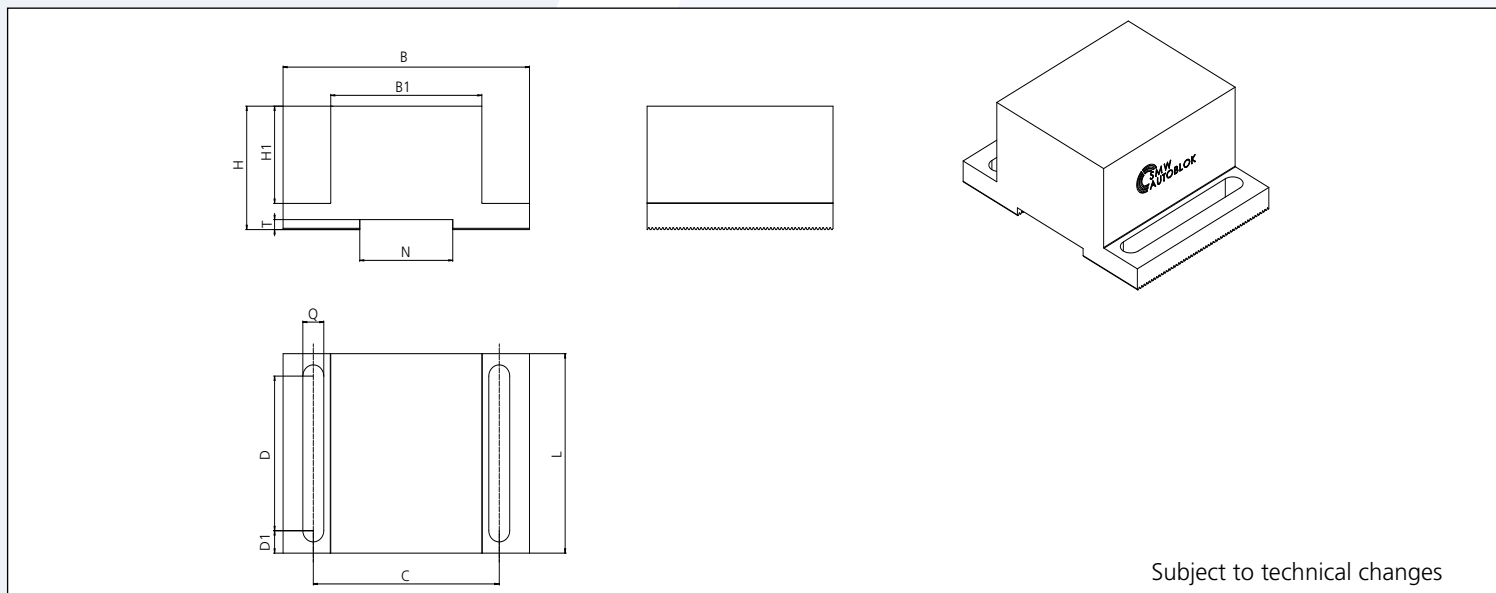
TWIN VICE JAWS

- Soft blank top jaw
- Tongue & Groove or fine serration 1.5mmx60°



SOFT BLANK TOP JAWS, FINE SERRATION 1.5mmX60°

TYPE	ID No.	A	B	D	E	F
100-125 TV	90731063	42	29.5	54.5	2.5	20H8
100-125 TV	90741063	47	49.5	54.5	2.5	20H8
160-180 TV	90731663	66	39.5	79	3	32H8
160-180 TV	90741663	76	79	79	3	32H8
200-225 TV	90732063	87	49.5	109	4	40H8
200-225 TV	90742063	87	89	109	4	40H8
250 TV	90732563	108	49.5	124	4	50H8
250 TV	90742563	108	99	124	4	50H8
315 TV	90733163	160	49.5	160	4	60H8
315 TV	90743163	160	105	160	4	60H8

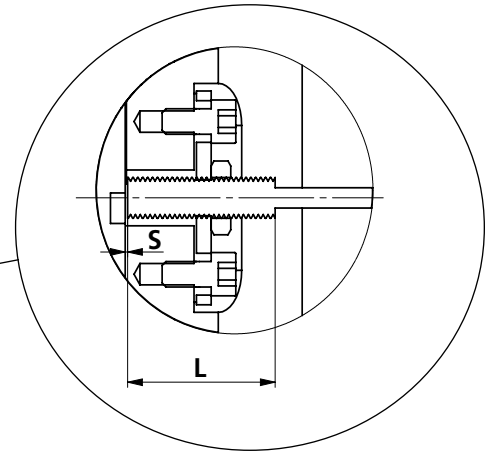
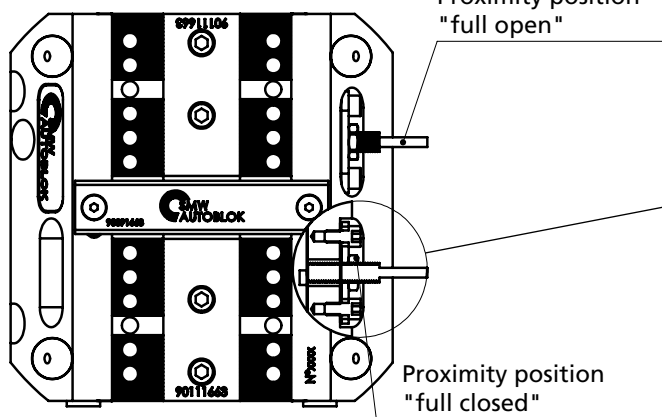


SOFT BLANK TOP JAWS, NARROW, FINE SERRATION 1.5mmx60°

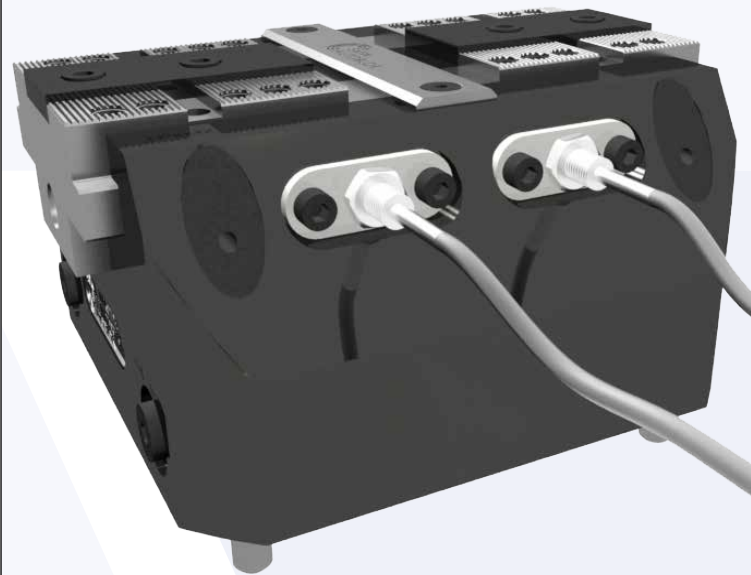
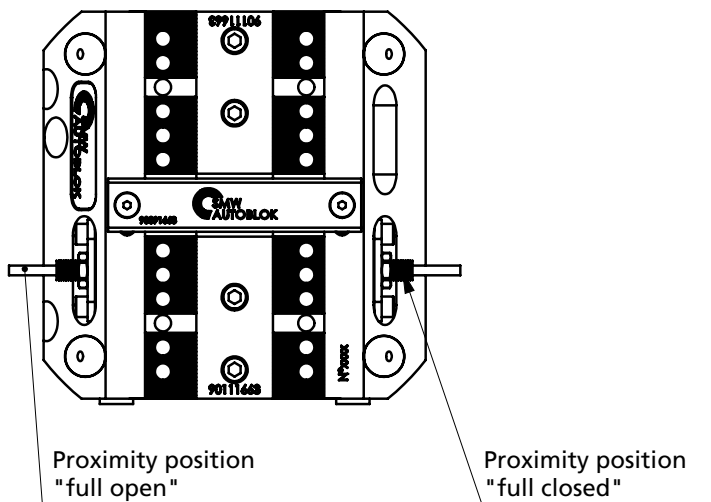
TYPE	ID No.	B	B1	C	D	D1	H	H1	L	N	Q	T
100-125 TV	90751063	54.5	24	35	30	6	29.5	21.5	42	20H8	6.6	2.5
160-180 TV	90751663	79	45	60	42	9	39.5	29	60	32H8	9	3
200-225 TV	90752063	109	65	80	62	9	49.5	39	80	40H8	9	4
250 TV	90752563	124	72	90	62	14	49.5	33	90	50H8	11	4
315 TV	90753163	160	90	120	82	12	49.5	31.5	106	60H8	13.5	4

PROXIMITIES STROKE CONTROL (OPTIONAL)

2 SLIDING JAWS SOLUTION



1 FIXED JAW SOLUTION



TWIN VICE TYPE	THREAD	SENSOR BALLUFF RECOMMENDED BY SMW-AUTOBLOK	OMRON ALTERNATIVE	TELEMECANIQUE ALTERNATIVE	S	L
100 TV	M5x0,5	BES516-3005-G-E4-C-PU02	E2EX1-B1	XS1N05PA310	0.5	20
160-200-250 TV	M8x1	BES516-324-G-E4-C-PU02	E2AS08KS02-WP-B12M	XS508B1PAL2	1	30
315 TV	M8x1	BES08EF-PSC20B-BP02	E2AS08LS02-WP-BI2M	XS508BLPAL2	1	40
125 STV-2	M5x0,5	BES516-3005-G-E4-C-PU02	E2EX1-B1	XS1N05PA310	0.5	20
180-225 STV-2	M8x1	BES516-324-G-E4-C-PU02	E2AS08KS02-WP-B12M	XS508B1PAL2	1	30
100-125 PT	M5x0,5	BES516-3005-G-E4-C-PU02	E2EX1-B1	XS1N05PA310	0.5	20
160-200 PT	M8x1	BES516-324-G-E4-C-PU02	E2AS08KS02-WP-B12M	XS508B1PAL2	1	30

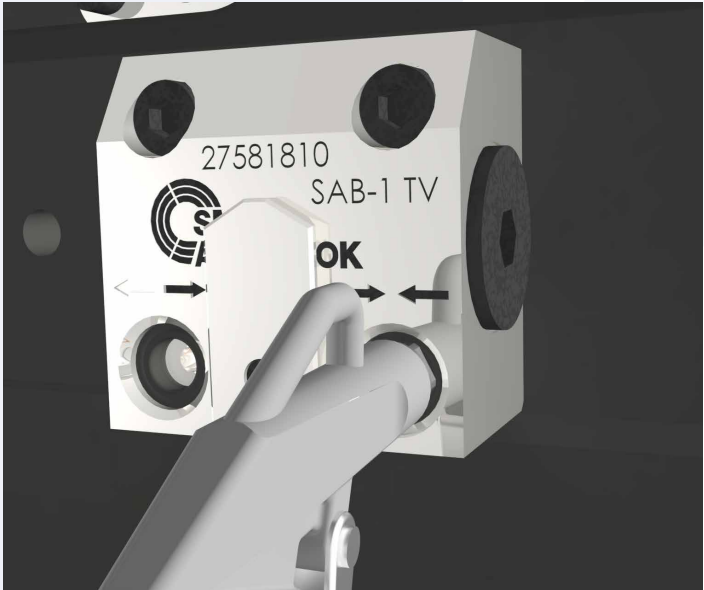
PNEUMATIC JAW STROKE CONTROL VALVE (OPTIONAL)



AVAILABLE
ON
STV-2
STV-3
PTP PTH

TWIN VICE TYPE	SMW-AUTOBLOK PART NUMBER FOR PNEUMATIC JAW STROKE CONTROL VALVE
125 STV-2	90902283
180 STV-2	90902283
225 STV-2	90902283
180 STV-3	97901801
225 STV-3	97902204
100 PTP PTH	90901163
125 PTP PTH	90901763
160 PTP PTH	90901763
200 PTP PTH	90901763

SAFETY VALVE SAB-1 (OPTIONAL)



Safety valve SAB-1 to maintain air pressure during pallet transportation/storage and machining without feed.

ONLY FOR
STV-2
STV-3

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E-mail > vertrieb@smw-autoblok.de
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