

- TVH-N: Normal stroke
- TVH-L: Long stroke
- TVH-F: One fixed jaw

Application/customer benefits

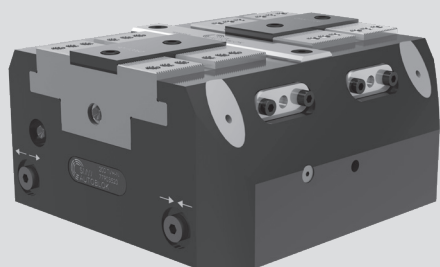
- Compact design
- Linear pressure adjustment
- Highest repeatability
- Highest rigidity

Technical features

- H7 quality pilot bore
- 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 1.5 mm x 60°
- OD and ID clamping
- Lubrication with SMW-AUTOBLOK K67 grease
- Stroke control via proximity switches (optional)

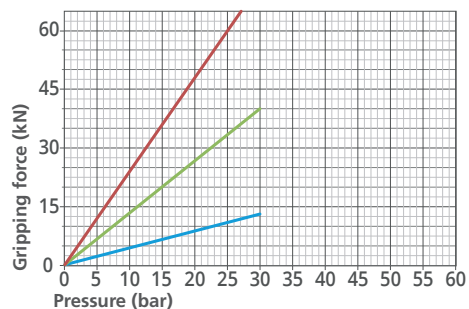
Standard equipment

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

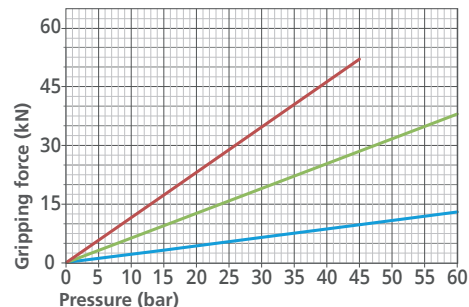


Gripping force diagrams

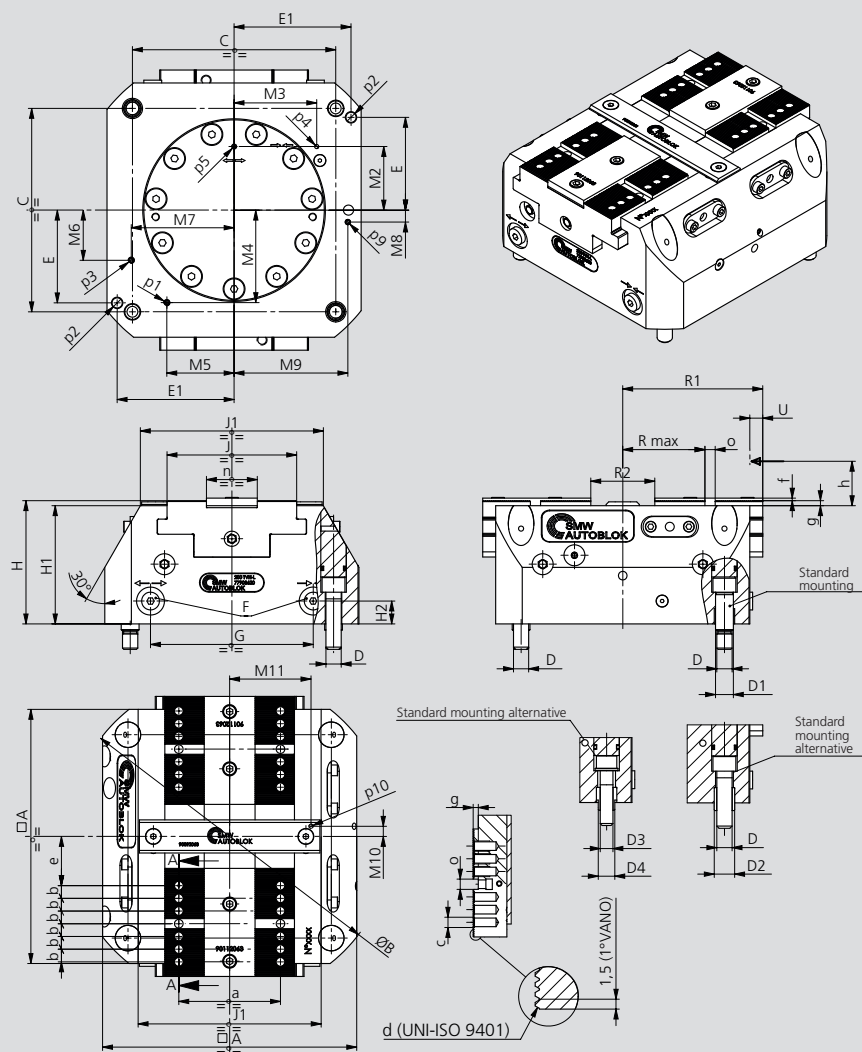
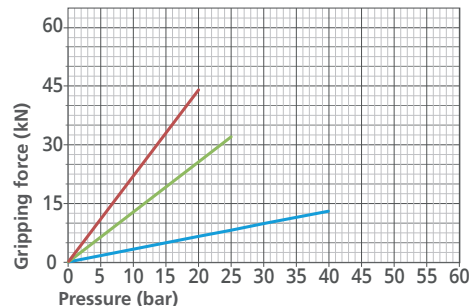
TVH-N 100 160 200



TVH-L 100 160 200



TVH-F 100 160 200



Subject to technical changes.

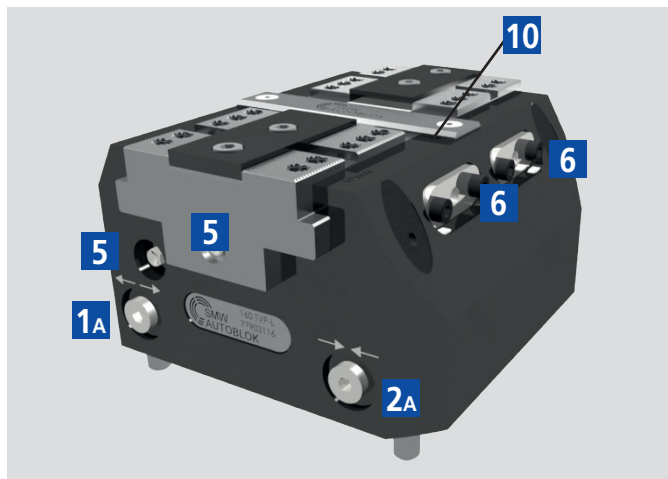
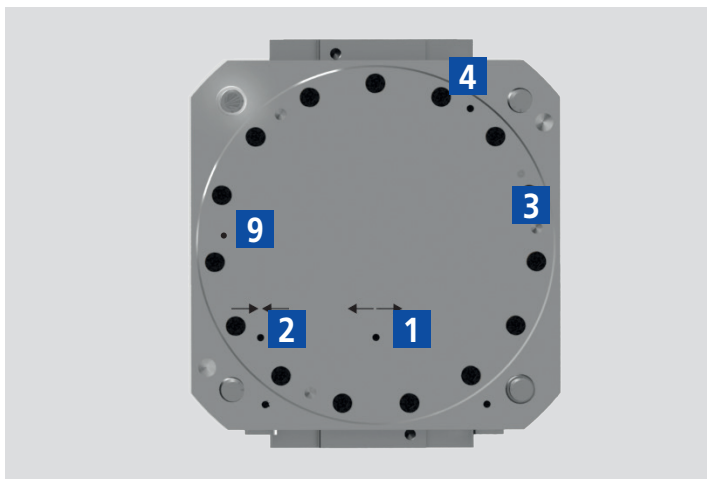
TVH-N/TVH-L/TVH-F

- TVH-N: Normal stroke
- TVH-L: Long stroke
- TVH-F: One fixed jaw

Hydraulic Twin Vise

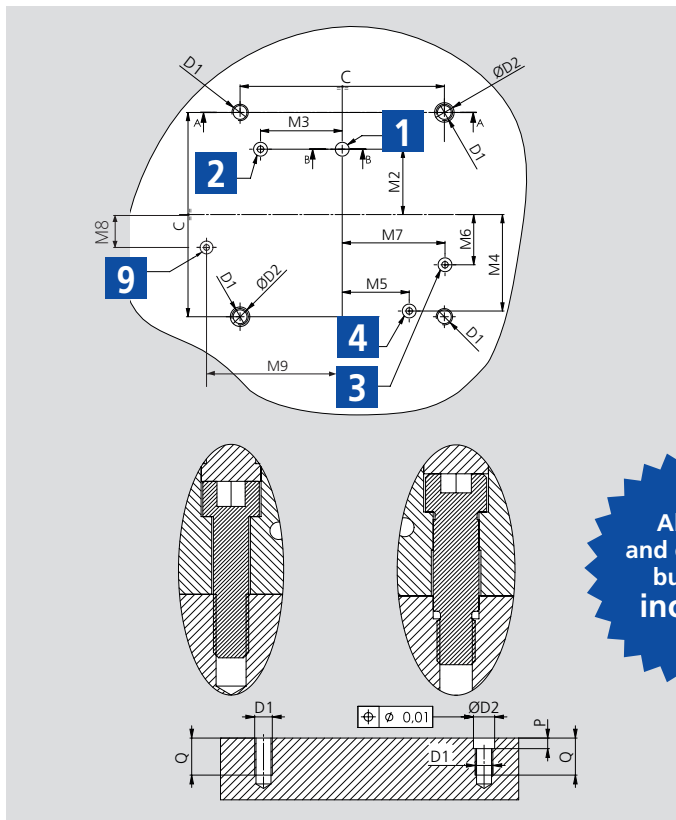
Type	Id. No.	Stroke type	Max. clamping force [kN]	Stroke / jaw [mm]	Max. operating pressure [bar]	Repeatability [mm]	Weight [kg]
100 TVH-N	77903510	Normal	13	2.6	30	0.01	4.5
100 TVH-L	77903610	Long	13	6	60	0.01	4.5
100 TVH-F	77903710	Fixed jaw	13	6	40	0.01	4.5
160 TVH-N	77903516	Normal	40	3	30	0.01	14
160 TVH-L	77903616	Long	38	8.4	60	0.01	14
160 TVH-F	77903716	Fixed jaw	32	8.4	25	0.01	14
200 TVH-N	77903520	Normal	60	4.2	25	0.02	25
200 TVH-L	77903620	Long	52	10.2	45	0.02	25
200 TVH-F	77903720	Fixed jaw	44	10.2	20	0.02	25

SMW-AUTOBLOK Type TVH			100	160	200
	A	mm	100	160	200
	B(Ø)	mm	132	205	255
	C	mm	80	125	160
	D(Ø)	mm	M8x15	M10x18	M12x20
	D1 (Øf7)	mm	10x4	12x4	14x5
	D2 (Øjs7)	mm	11x4	13x6	16x6
	D3	mm	-	-	M10x18
	D4 (Øjs7)	mm	-	-	13x6
	E	mm	32	53	73
	E1	mm	45	73	92
	F	mm	G1/8"	G1/8"	G1/8"
	G	mm	55	98	128
	H	mm	75.5	89.7	97
	H1	mm	72	86	93
	H2	mm	15	18	18
	J	mm	47	75	102
	J1	mm	72	108	144
	M2	mm	32	40	50
	M3	mm	29.5	50	65
	M4	mm	34.2	59	72.8
	M5	mm	27.7	41	52.9
	M6	mm	14.2	30.7	39.5
	M7	mm	41.1	62.9	80.9
	M8	mm	8.3	4.9	9.4
	M9	mm	42.7	69.8	89.5
	M10	mm	5	5	8
	M11	mm	34	52	64
Lubrication	p1	mm	M4	M5	M5
	p2 ØH7	mm	6x14	8x14	8x14
Air purge	p3	mm	M4	M5	M5
Vise closed	p4	mm	M4	M4	M4
Vise open	p5	mm	M4	M4	M4
Air sensing connection	p9	mm	M4	M5	M5
Air sensing outlet	p10	mm	M4	M4	M4
Min. / max. (long stroke)	R2	mm	20 / 32	26 / 42.8	30 / 50.4
Min. / max. (long stroke)	R1	mm	50 / 56	82.5 / 90.9	100 / 110.2
Min. / max. (long stroke)	Rmax	mm	25.6 / 31.6	44.8 / 53.2	54.5 / 64.7
Min. / max. (normal stroke)	R2	mm	19.8 / 25	26 / 32	30.6 / 39
Min. / max. (normal stroke)	R1	mm	47.4 / 50	82.5 / 85.5	95.8 / 100
Min. / max. (normal stroke)	Rmax	mm	25.4 / 28	45 / 48	54.5 / 58.7
Min. / max. (fixed jaw)	R2	mm	20 / 26	26 / 34.4	30 / 40.2
Min. / max. (fixed jaw)	R1	mm	50 / 56	82.5 / 90.9	100 / 110.2
Min. / max. (fixed jaw)	Rmax	mm	25.6 / 31.6	44.8 / 53.2	54.5 / 64.7
Long stroke	U	mm	6	8.4	10.2
Normal stroke	U	mm	2.6	3	4.2
Fixed jaw stroke	U	mm	6	8.4	10.2
	a	mm	35	60	80
	b	mm	7	10	10
	c	mm	M6x10	M8x12	M8x12
Serration	d	mm	1.5 x 60°	1.5 x 60°	1.5 x 60°
Min. / max. (normal stroke)	e	mm	14.4 / 17	19 / 22	28.5 / 32.7
Min. / max. (long stroke)	e	mm	14.6 / 20.6	18.8 / 27.2	28.5 / 38.7
Min. / max. (fixed jaw)	e	mm	14.6 / 20.6	18.8 / 27.2	28.5 / 38.7
	f	mm	1.8	1.8	2
	g	mm	2.7	3.2	4
	h	mm	16	25	35
	o (H7)	mm	6	8	8
	n (g6)	mm	20	32	40



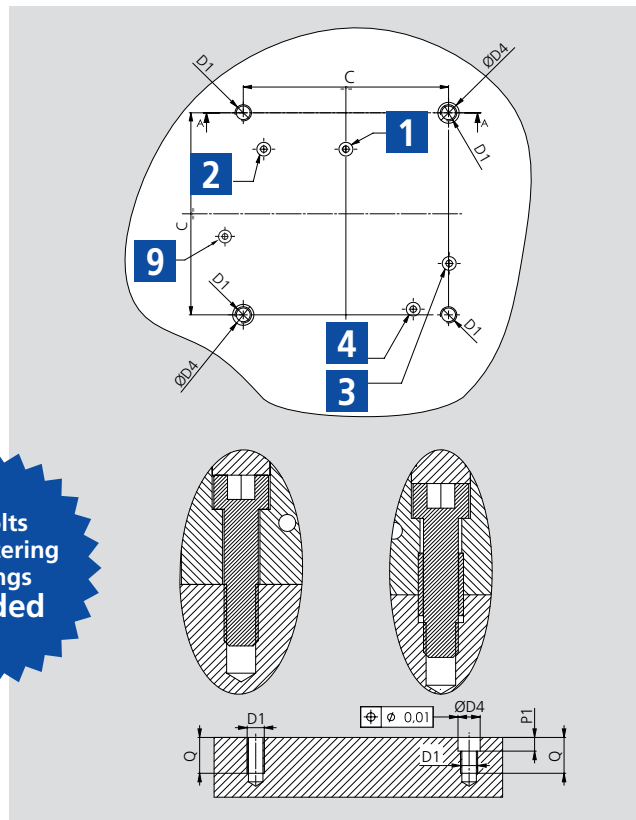
Solution 1 standard

± 0.03 mm to clamping center



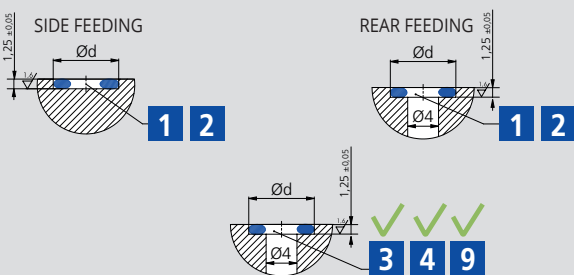
Solution 2 standard

± 0.025 mm to clamping center



All bolts
and centering
bushings
included

Feeding seats: Obligated execution



- 1** Open-Rear feeding
- 2** Closed-Rear feeding
- 3** Air purge
- 1A** Open-Side feeding
- 2A** Closed-Side feeding
- 4** Central lubrication
- 5** Lubrication fitting
- 6** Proximity switches seats
- 9** Air sensing connection
- 10** Air sensing outlet

TV	C	D1	D2H7	D4H7	M	M1	M2	M3	M4	M5	M6	M7	M8	M9	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	8.3	42.7	6	6	18	37.3	96.5	8	OR2018
160	125	M10	12	13	69	48	40	50	59	41	30.7	62.9	4.9	69.8	6	7	21	50	155	8	OR2018
200	160	M12	14	16	88	62	50	65	72.8	52.9	39.5	80.9	9.4	89.5	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	11.6	110.4	7	7	24	80	239	8.8	OR2021
315	250	M15	18	21	-	-	80	90	115.7	84	62.7	128.5	12.4	141.5	8	7	27	-	-	8.8	OR2021