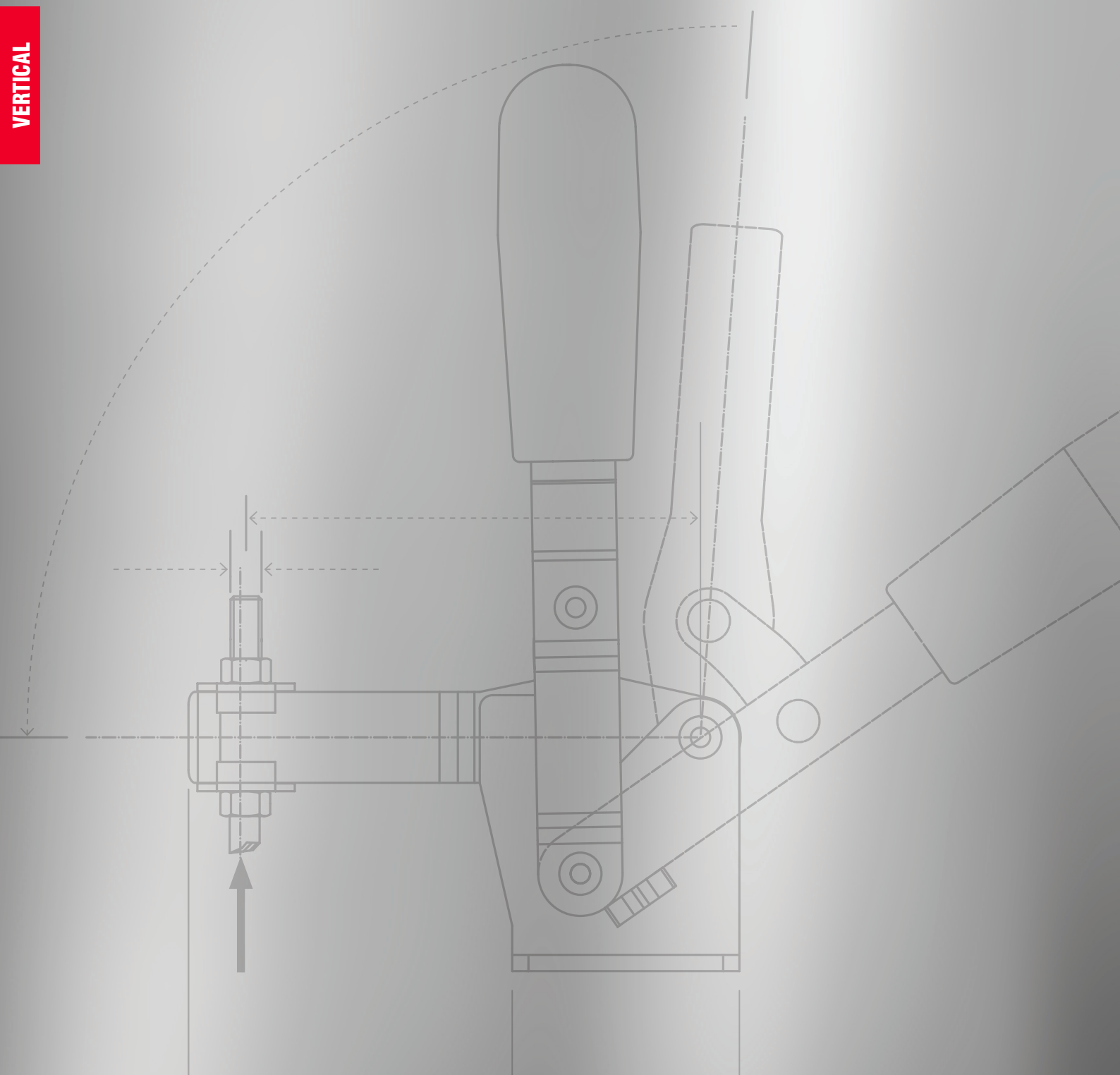


VERTICAL SERIES

VERTICAL



Here you can download
2D and 3D CAD drawings
of all products.



The tools of this family are characterized by the vertical position of the control lever in the clamping position. The clamping and control levers normally move in the same direction.

Depending on the different needs of the application, you can choose between four different executions:

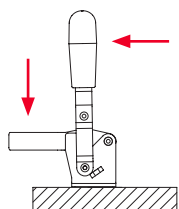
LIGHT SERIES: It has holding forces from 75 to 875 daN. They are available in galvanized steel and stainless steel.

HEAVY-DUTY SERIES: It has retention forces from 1000 to 3000 daN. The heavy-duty version is used when there are resistant forces of high intensity, for example: in the closing of moulds for foams, polyurethanes, etc. The tools of this series are built so that they can be easily disassembled so as to allow the reworking of the individual elements according to the needs of use. The products are made of phosphated weldable steel.

REINFORCED HEAVY-DUTY SERIES: It has holding forces from 220 to 1540 daN. The hot forged parts, as well as the tempered and ground pins and bushings, make this series suitable for heavy loads and a long service life. They are normally used on welding masks, carpentry work, moulds and generally where large clamping forces and strong repetitiveness of movements are required.

HIGH TEMPERATURE SERIES: It has holding forces from 160 to 1500 daN. These tools are free of plastic parts and with the appropriate modifications compared to the light series models (couplings with different tolerances, changes in geometries, different finishes, etc., etc.) that make them suitable for use in environments that can reach 240-300 °C. The products are made of phosphated weldable steel.

They are normally used in the rotational moulding of plastic and require a type of clamping capable of working safely and quickly at high temperatures without uncertainties in closing and opening.



A/AX - E/EX

VERTICAL TOGGLE CLAMPS WITH FOLDED BASE

Material:

Galvanized Steel (A/E) or **AISI 304 stainless steel** (AX/EX).

Riveted Pivots:

Galvanized steel (A/E) or **AISI 304 stainless steel** (AX/EX).

Supporting bushes (for sizes ≥ 130):

Hardened and ground galvanized or stainless steel.

Handle:

Red polyurethane; resistant to oils, greases and other chemical agents.

Executions:

- **A/AX**: open clamping lever with two flanged washers, included in the supply.
- **E/EX**: full clamping lever and bolt retainer, included in the supply, to be welded in the desired position and angle.

Features and applications:

During closing, the clamping lever is guided laterally to ensure greater stability against any transverse stresses.

The movement of the levers has been designed to ensure the safety of the operator's fingers and prevent them from being crushed during the movement of the tool.

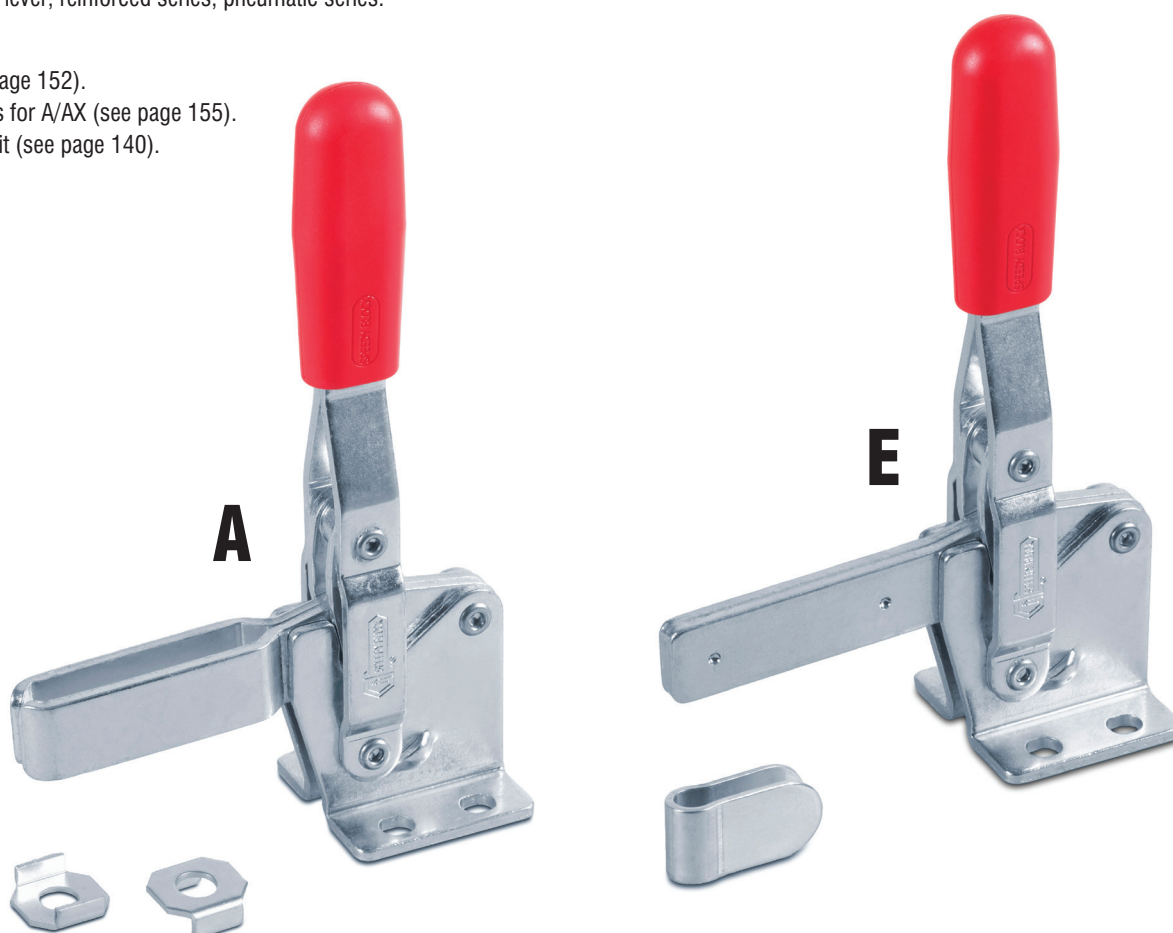
A special grease is applied to the contact surfaces to reduce friction and make the movement smoother.

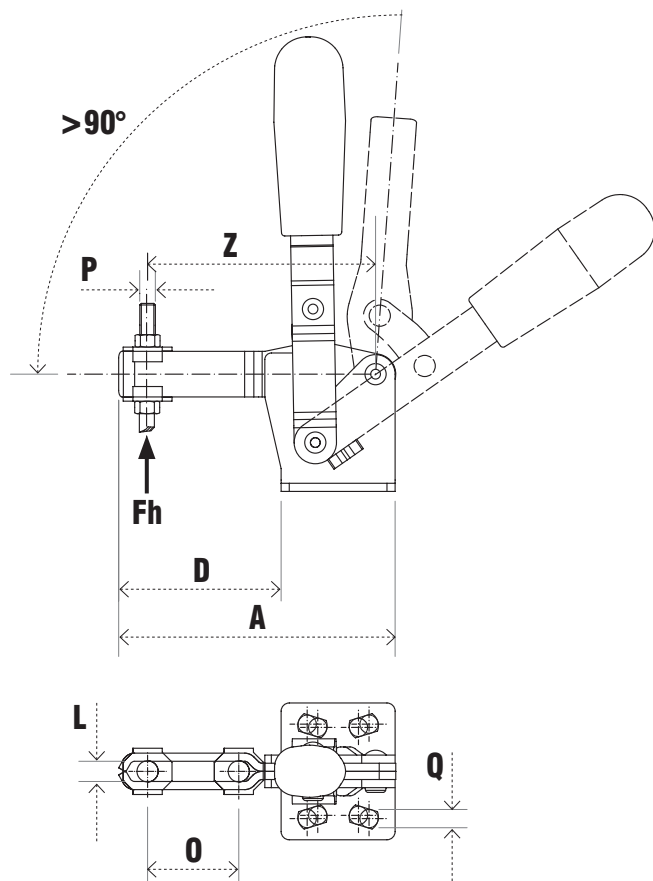
Other available executions:

Series with safety lever, reinforced series, pneumatic series.

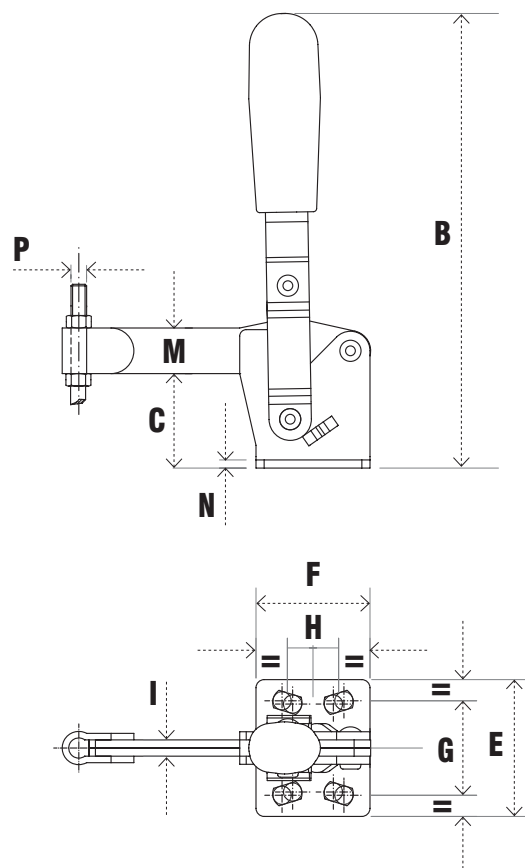
Accessories:

- Spindles (see page 152).
- Lever crossbars for A/AX (see page 155).
- Safety sensor kit (see page 140).





A/AX



E/EX

Code	Description	A	B	C	D	E	F	G	H	I	L	M	N	O	P	Q	Z	Fh (daN)	Gr. Δ
AA520	75/A	67	98	20.5	38	34	29	24	15÷16		5.2	11	2	20	M5	4.5	56	75	98
AA524	75/E	67.5	98	20.5	38.5	34	29	24	15÷16	4		11	2		M5	4.5		75	100
AA530	130/A	85	142	28	50	42	35	27÷29	12.5÷19		6.2	16	2.5	28	M6	5.6	71	105	230
AA534	130/E	86	142	28	51	42	35	27÷29	12.5÷19	5		16	2.5		M6	5.6		105	235
AA540	230/A	110.5	168	33.5	67.5	45	43	32	18÷21		8.5	18	3	40	M8	6.7	94	200	380
AA544	230/E	112	168	33.5	69	45	43	32	18÷21	6		18	3		M8	6.7		200	390
AA550	330/A	129	195	43	79	65	50	45÷46	29÷32		10.5	22	3.5	43	M10	8.5	108	240	604
AA554	330/E	130.5	195	43	80.5	65	50	45÷46	29÷32	7		22	3.5		M10	8.5		240	604
AA560	430/A	164	247	55.5	106	65	58	45	32		12.5	26	4	64	M12	8.5	138	280	1100
AA564	430/E	166	247	55.5	108	65	58	45	32	10		26	4		M12	8.5		280	1100
AA570	530/A	223	303	84.5	143	95	80	70	50÷51		12.5	32	7	90	M12	12.5	195	450	2110
AA574	530/E	225	303	84.5	145	95	80	70	50÷51	10		32	7		M12	12.5		450	2110



Code	Description	A	B	C	D	E	F	G	H	I	L	M	N	O	P	Q	Z	Fh (daN)	Gr. Δ
AS095	75/AX	67	98	20.5	38	34	29	24	15÷16		5.2	11	2	20	M5	4.5	56	75	98
AS105	75/EX	67.5	98	20.5	38.5	34	29	24	15÷16	4		11	2		M5	4.5		75	100
AS150	130/AX	85	142	28	50	42	35	27÷29	12.5÷19		6.2	16	2.5	28	M6	5.6	71	105	230
AS160	130/EX	86	142	28	51	42	35	27÷29	12.5÷19	5		16	2.5		M6	5.6		105	235
AS180	230/AX	110.5	168	33.5	67.5	45	43	32	18÷21		8.5	18	3	40	M8	6.7	94	200	380
AS190	230/EX	112	168	33.5	69	45	43	32	18÷21	6		18	3		M8	6.7		200	390

