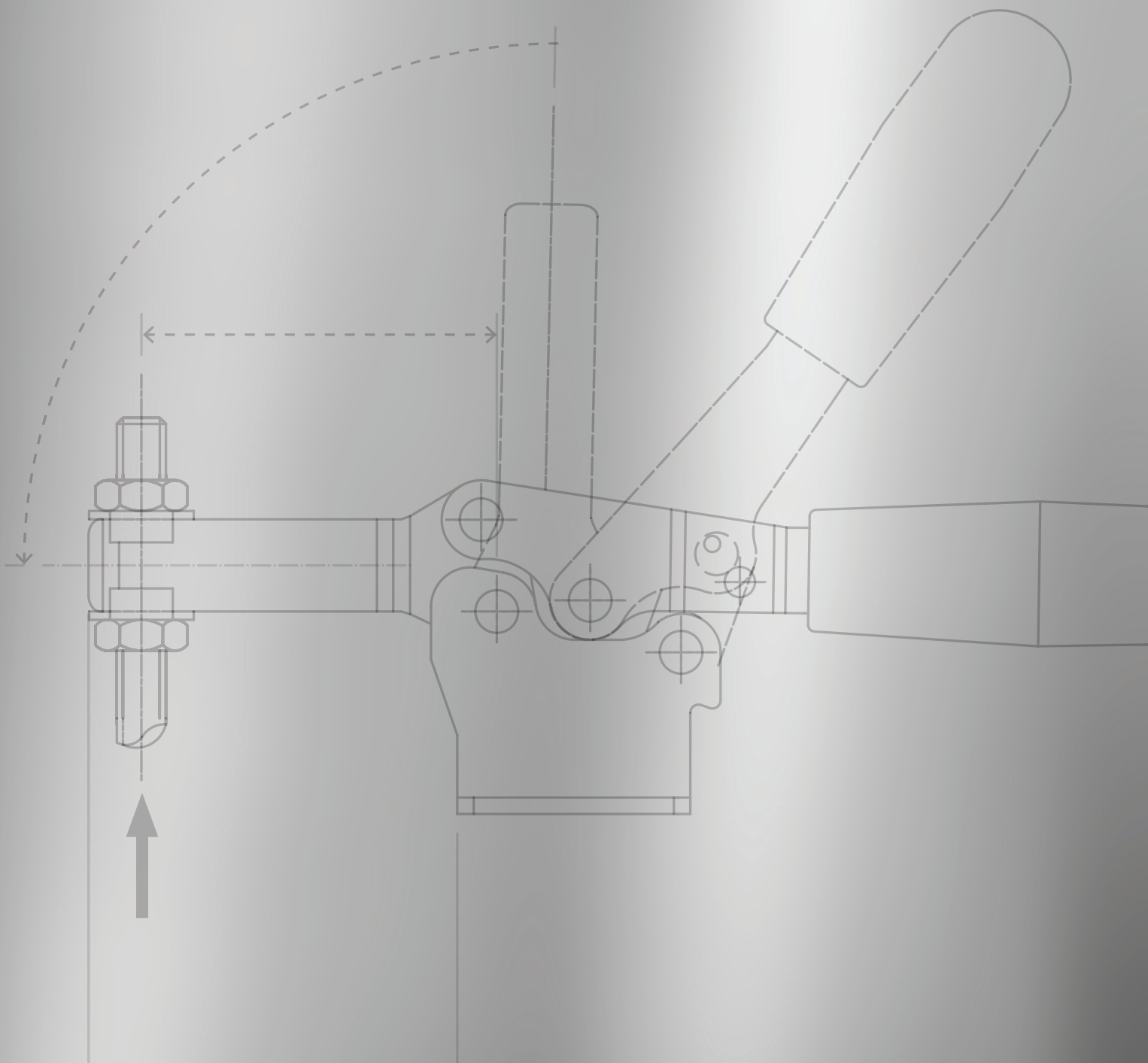
HORIZONTAL SERIES



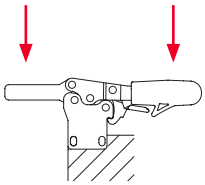
Here you can download
2D and 3D CAD drawings
of all products.

The tools of this family are characterized by the horizontal position of the control lever in the clamping position. The clamping and control levers normally move in opposite directions.

They are available in two different executions:

LIGHT SERIES:
It has holding forces from 40 to 620 daN.
They are available in galvanized steel and stainless steel.

HIGH TEMPERATURE SERIES:
It has holding forces from 100 to 180 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 that requires a type of clamping capable of working safely and quickly at high temperatures without uncertaintiesin closing and opening.



NL/NLX - PL/PLX

HORIZONTAL TOGGLE CLAMPS WITH STRAIGHT BASE AND SAFETY LEVER

Material:
Galvanized steel (NL/PL) or **AISI 304 stainless steel** (NLX/PLX).

Riveted Pivots:
Galvanized steel (NL/PL) or **AISI 304 stainless steel** (NLX/PLX).

Supporting bushes (for NL/PL sizes >= 355):
Hardened and ground steel.

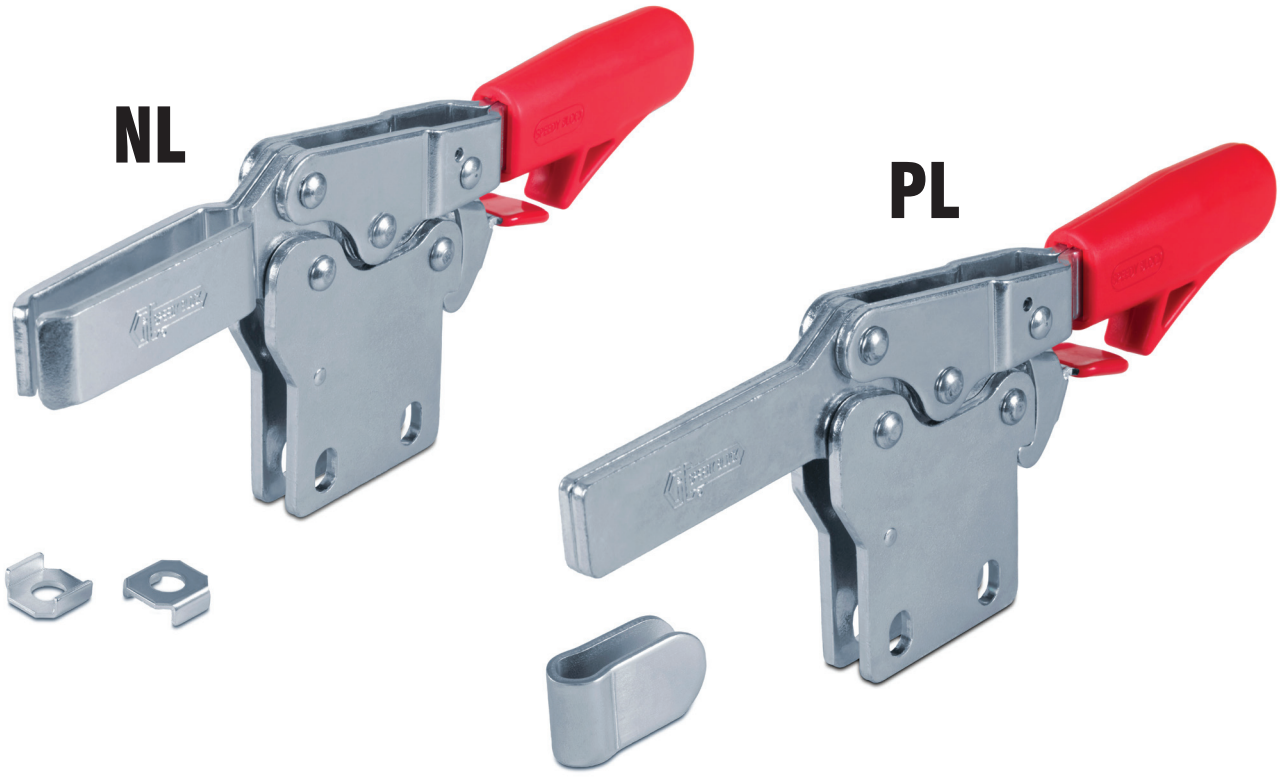
Handle:
Red polyurethane; resistant to oils, greases and other chemical agents.

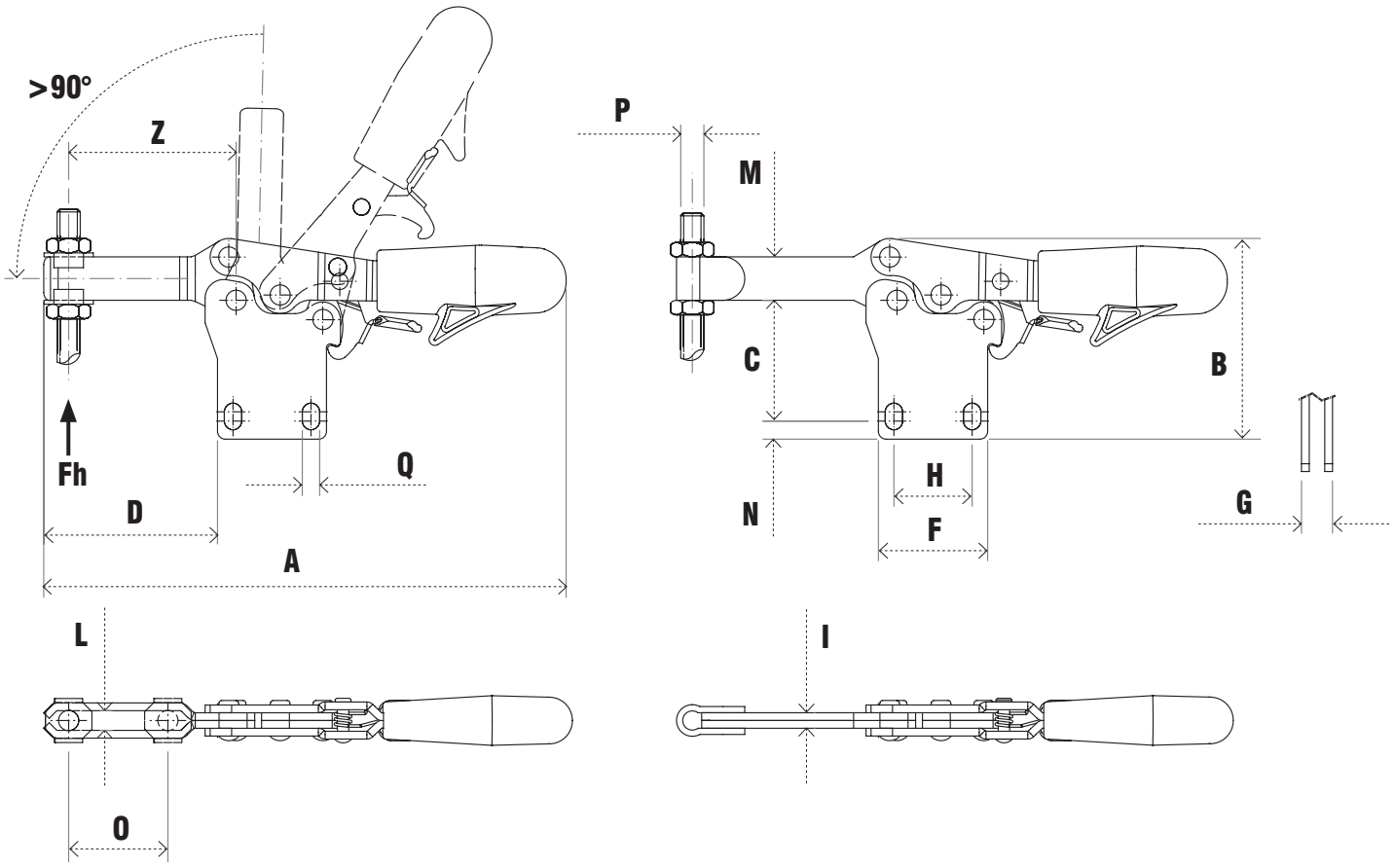
Executions:
- **NL/NLX:** open clamping lever with two folded washers, included in the supply.
- **PL/PLX:** full clamping lever and bolt retainer, included in the supply, to be welded in the desired position and angle.

Safety lever:
Galvanized steel (NL/PL) or **AISI 304 stainless steel** (NLX/PLX), red PVC coating.

Features and applications:
The safety lever ensures the perfect anchoring of the tool, even in the open position, preventing any accidental openings caused by vibrations or shocks In fact, opening the tool requires a mechanical action by the operator to disengage the retaining system.
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.

Accessories:
- Spindles (see page 152).
- Lever crossbar for NL/NLX (see page 155).
- Safety sensor kit (see page 141).





NL/NLX

PL/PLX

Code	Description	A	B	C	D	F	G	H	I	L	M	N	O	P	Q	Z	Fh (daN)	Gr.
AD094	75/NL	118	45.5	24 ÷ 25.5	39	28	8	13.5		5.3	11	5 ÷ 3.5	20	M5	4.5	36	90	90
AD098	75/PL	118.5	45.5	24 ÷ 25.5	39.5	28	8	13.5	4		11	5 ÷ 3.5		M5	4.5		90	90
AD154	130/NL	171.5	51	22.4 ÷ 28.4	56.5	40	36	26		6.3	16	8.8 ÷ 5.8	32	M6	5.6	55	100	200
AD158	130/PL	172	51	22.4 ÷ 28.4	57	40	36	26	5		16	8.8 ÷ 5.8		M6	5.6		100	200
AD292	230/NL	196	61.5	26 ÷ 31.5	65	44	44	26		8.5	18	9 ÷ 6.5	37	M8	6.6	62	170	320
AD296	230/PL	196.5	61.5	26 ÷ 31.5	66	44	44	26	6		18	9 ÷ 6.5		M8	6.6		170	330
AD392	355/NL	270	83	38.8 ÷ 43	100	58	60	41		10.5	22	9.6 ÷ 7.5	58	M10	8.6	98	180	750
AD396	355/PL	271	83	38.8 ÷ 43	101	58	60	41	7		22	9.6 ÷ 7.5		M10	8.6		180	750
AD492	455/NL	305	99	40 ÷ 43	113	65	70	41.5		12.5	26	12.5 ÷ 11	65	M12	8.7	113	320	1200
AD496	455/PL	306.5	99	40 ÷ 43	115.5	65	70	41.5	10		26	12.5 ÷ 11		M12	8.7		320	1200

INOX STAINLESS STEEL

Code	Description	A	B	C	D	F	G	H	I	L	M	N	O	P	Q	Z	Fh (daN)	Gr.
DS102	75/NLX	118	45.5	24 ÷ 25.5	39	28	8	13.5		5.3	11	5 ÷ 3.5	20	M5	4.5	36	90	90
DS106	75/PLX	118.5	45.5	24 ÷ 25.5	39.5	28	8	13.5	4		11	5 ÷ 3.5		M5	4.5		90	90
DS154	130/NLX	171.5	51	22.4 ÷ 28.4	56.5	40	36	26		6.3	16	8.8 ÷ 5.8	32	M6	5.6	55	100	200
DS158	130/PLX	172	51	22.4 ÷ 28.4	57	40	36	26	5		16	8.8 ÷ 5.8		M6	5.6		100	200
DS289	230/NLX	196	61.5	26 ÷ 31.5	65	44	44	26		8.5	18	9 ÷ 6.5	37	M8	6.6	62	170	320
DS293	230/PLX	196.5	61.5	26 ÷ 31.5	66	44	44	26	6		18	9 ÷ 6.5		M8	6.6		170	330