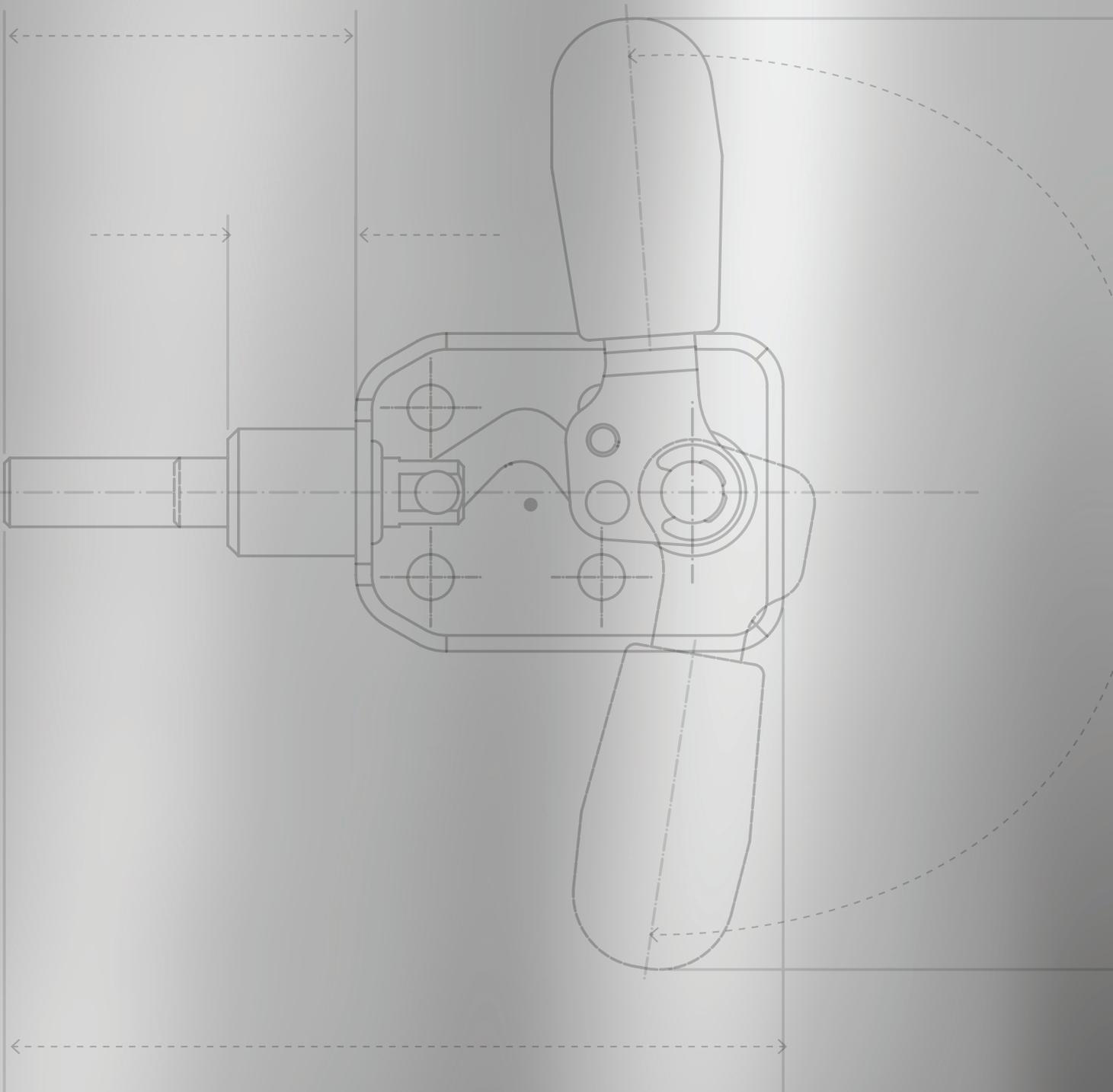


# STRAIGHT-LINE ACTION SERIES

STRAIGHT-LINE



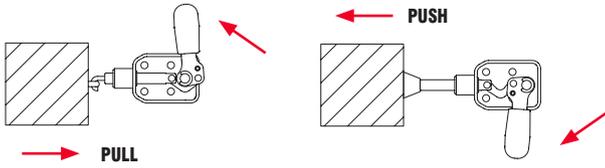
Here you can download  
2D and 3D CAD drawings  
of all products.



In the tools of this family, the circular movement of the control lever is transformed into the linear movement of the push rod. Some models can work and lock with both thrust and traction, others can only work with thrust.

**LIGHT SERIES:** It has holding forces from 80 to 720 daN. They are available in galvanized steel and stainless steel. The main feature of the ASD/ASS models is the low point of application of force as well as the very small vertical footprint. For models 80-165-340/AS there is the possibility of front mounting with an external thread that allows the rotation of the control lever in the most favourable position for use. The fixing bracket on the table increases the possibilities of use.

**HEAVY-DUTY SERIES:** It has holding forces from 120 to 4500 daN. The base body is made of hot forged ASTM A105 steel with a manganese phosphate finish for all sizes. Riveted Pins are available for sizes 70-160-360. Pins with support bushings hardened by cementation for the other sizes. Push rod and control lever in galvanized steel.



# ASD - ASS

## PUSH AND PULL ROD TOGGLE CLAMPS

### Base, control lever, riveted pivots, sliding bushing and push-pull rod:

Galvanized steel. Rod with threaded hole for the spindle housing (to be ordered separately - see Accessories).

### Handle:

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

### Executions:

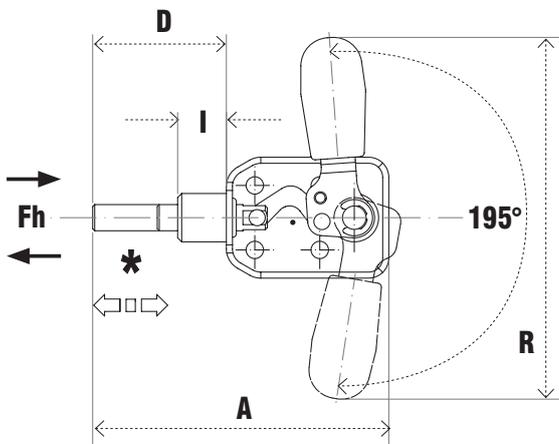
- **ASD:**
  - push clamping with anti-clockwise control lever rotation.
  - pull clamping with clockwise control lever rotation.
- **ASS**
  - push clamping with clockwise control lever rotation.
  - pull clamping with anti-clockwise control lever rotation.

### Features and applications:

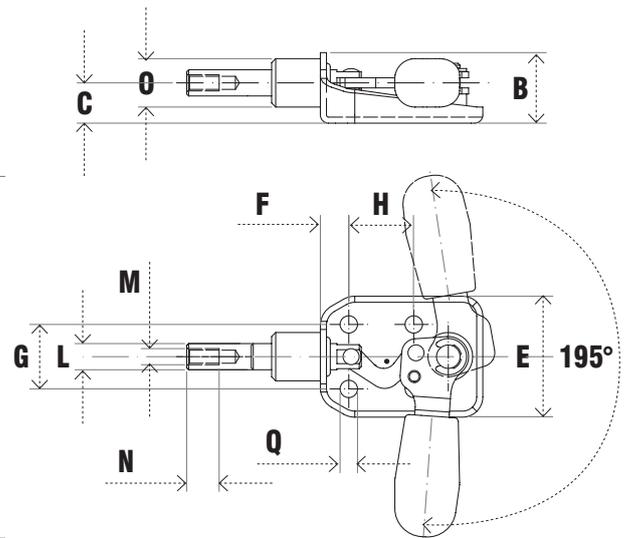
The structure of the mechanism allows force to be applied at a point very close to the mounting surface and a small vertical footprint. A special grease is applied to the contact surfaces to reduce friction and make the movement smoother.

### Accessories (to be ordered separately):

- Spindles (see page 152).



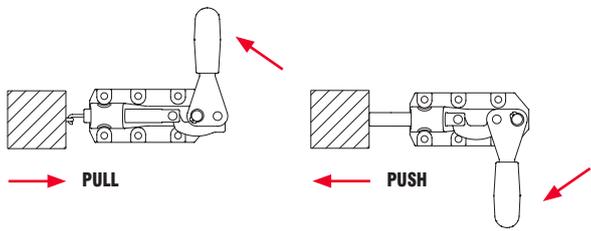
**ASD**



**ASS**

Code	Description	A	B	C	D	E	F	G	H	I	L	M	N	O	Q	R	*	Fh (daN)	Gr.	⚖️
AG050	50/ASD	73	17.5	10	33	30.5	7	16	16	12	6.5	M4	9	12	4.3	90	16	80	60	
AG055	50/ASS	73	17.5	10	33	30.5	7	16	16	12	6.5	M4	9	12	4.3	90	16	80	60	

STRAIGHT-LINE



# ASD - ASS

## PUSH AND PULL ROD TOGGLE CLAMPS

### Base:

ASTM A105 hot forged steel with manganese phosphated finishing.

### Control lever, riveted pivots and push-pull rod:

Galvanized steel. Rod with threaded hole for the spindle housing (to be ordered separately - see Accessories).

### Handle:

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

### Executions:

- **ASD:**
  - push clamping with anti-clockwise control lever rotation.
  - pull clamping with clockwise control lever rotation.
- **ASS**
  - push clamping with clockwise control lever rotation.
  - pull clamping with anti-clockwise control lever rotation.

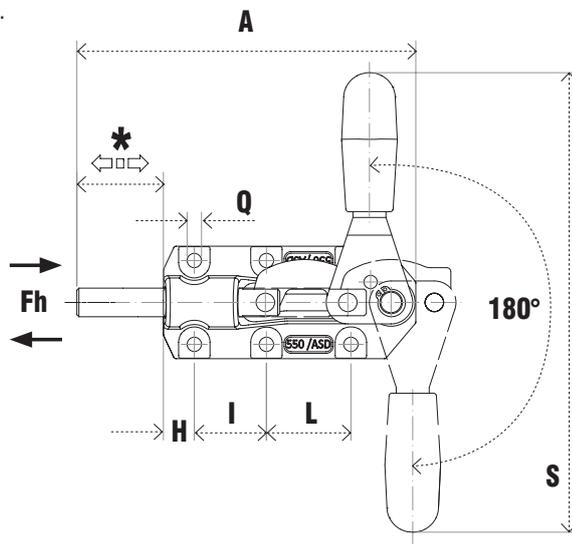
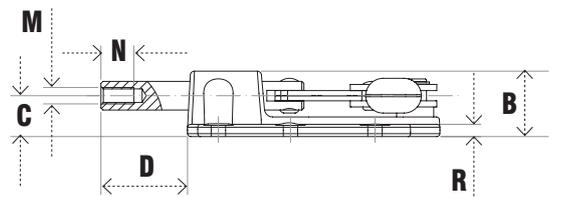
### Features and applications:

The structure of the mechanism allows force to be applied at a point very close to the mounting surface and a small vertical footprint.

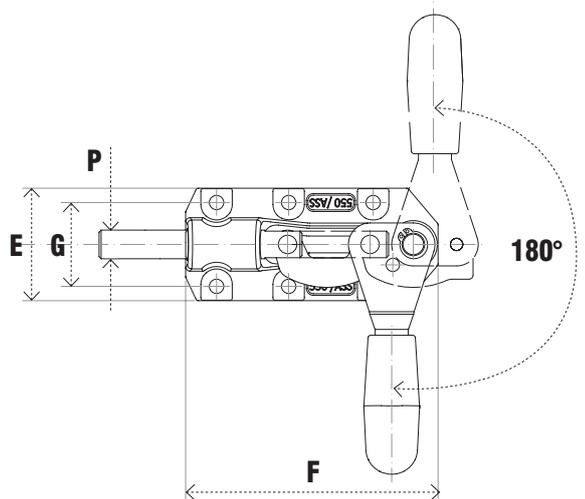
A special grease is applied to the contact surfaces to reduce friction and make the movement smoother.

### Accessories (to be ordered separately):

- Spindles (see page 152).



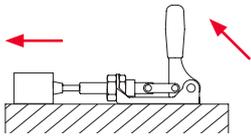
ASD



ASS

STRAIGHT-LINE

Code	Description	A	B	C	D	E	F	G	H	I	L	M	N	P	Q	R	S	*	Fh (daN)	Gr. $\Delta$
AG075	70/ASD	85	19.5	12	22	36	64	26	13	26		M6	12	8.5	4.3	6	98	20	90	160
AG080	70/ASS	85	19.5	12	22	36	64	26	13	26		M6	12	8.5	4.3	6	98	20	90	160
AG165	160/ASD	117	25	15	32	46	85	33.5	11.5	36.5		M6	12	11	5.5	7	158	30	130	350
AG170	160/ASS	117	25	15	32	46	85	33.5	11.5	36.5		M6	12	11	5.5	7	158	30	130	350
AG175	550/ASD	164.5	32	20	42	55	122.5	41	15	35	41	M8	16	14	7	6	225	42	450	720
AG180	550/ASS	164.5	32	20	42	55	122.5	41	15	35	41	M8	16	14	7	6	225	42	450	720



# AS

## PUSH-ONLY ROD TOGGLE CLAMPS

### Base, control lever, riveted pivots, sliding bushing and push rod:

Galvanized steel. Rod with threaded hole for the spindle housing (to be ordered separately - see Accessories).

### Handle:

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

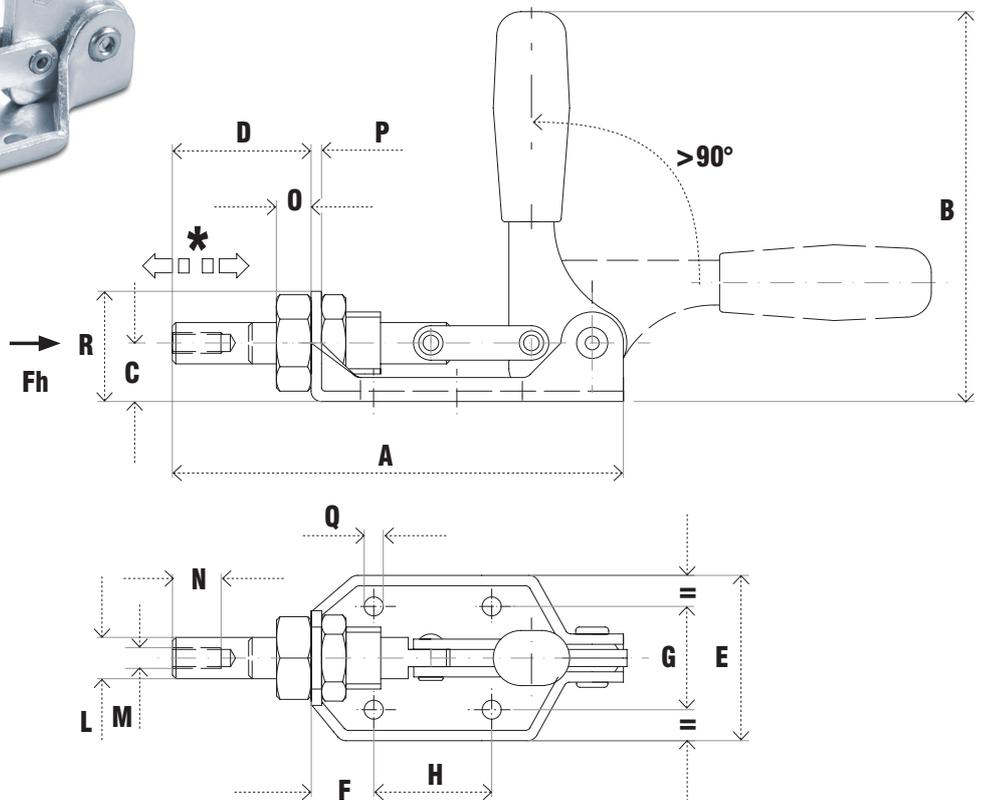
### Features and applications:

The tools of this series can only work by pushing.

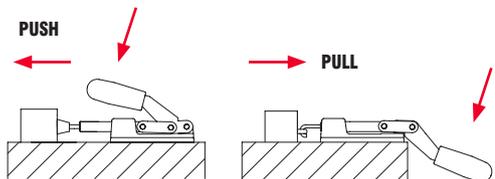
A special grease is applied to the contact surfaces to reduce friction and make the movement smoother.

### Accessories (to be ordered separately):

- Spindles (see page 152).



Code	Description	A	B	C	D	E	F	G	H	L	M	N	O	P	Q	R	*	Fh (daN)	Gr.
AG120	120/AS	130	111	17	40	48	18	30	34	12	M6	12	10	3	5.5	32	20	360	350
AG300	300/AS	167	140	20	57	58	18	34	50	14	M8	16	12	3	6.5	36	33	720	560



# AS - ASX

## PUSH AND PULL ROD TOGGLE CLAMPS

### Base:

- **AS:** Hot-forged ASTM A105 steel with manganese phosphate finishing (70-160-550/AS) or painted finishing (360-1100-2100-3100/AS)
- **ASX:** Polished **AISI 304 stainless steel**.

### Control lever, riveted pivots and push-pull rod:

Galvanized steel (AS), **AISI 304 stainless steel** (ASX). Galvanized steel or **AISI 303 stainless steel** push-pull rod. Rod with threaded hole for the spindle housing (to be ordered separately - see Accessories).

### Handle:

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

### Features and applications:

The tools of this series can work with both push and traction.

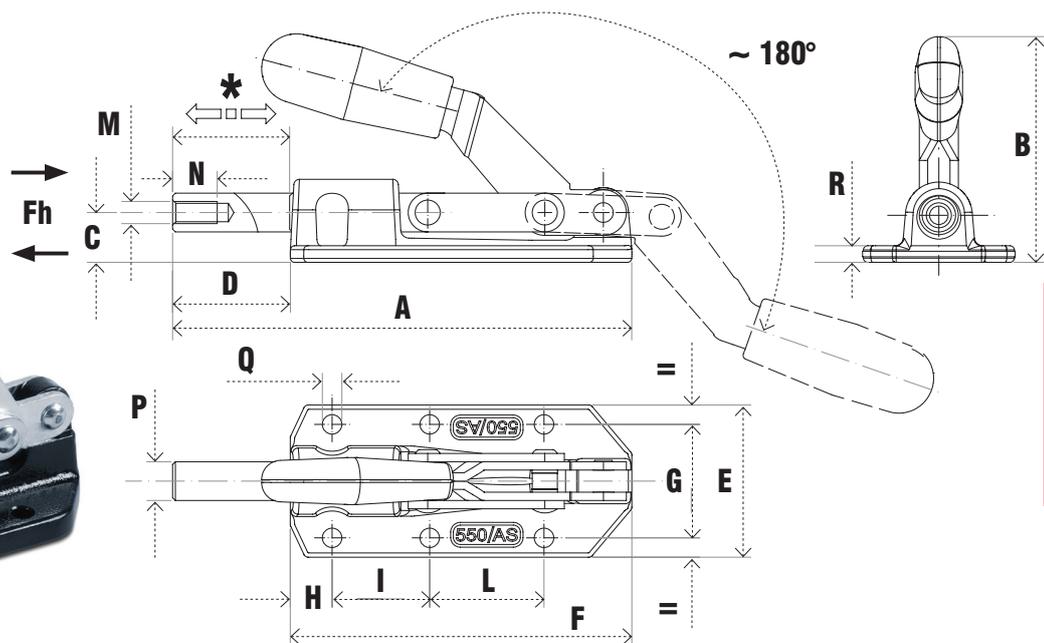
A special grease is applied to the contact surfaces to reduce friction and make the movement more fluid.

### Other available executions:

Pneumatic series.

### Accessories (to be ordered separately):

- Spindles (see page 152).

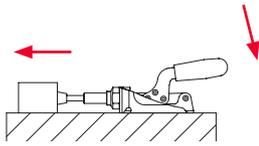


Code	Description	A	B	C	D	E	F	G	H	I	L	M	N	P	Q	R	*	Fh (daN)	Gr. $\Delta$
AG070	70/AS	86	41	12	22	36	64	26	13	26		M6	12	8.5	4.3	6	20	120	165
AG160	160/AS	116	56	15	31	46	85	33.5	11.5	36.5		M6	12	11	5.5	7	30	280	360
AG351	360/AS	122	70	25	32	45.5	90	33.5	30	36.5		M8	15	12	5.5	7	32	560	480
AG355	550/AS	164.5	75	18	42	55	122.5	41	15	35	41	M8	16	14	7	7	42	800	750
AG361	1100/AS	182	92	25	49	57	133	41	15	35	41	M10	18	16	8.5	8	50	1600	1060
AG371	2100/AS	238	118.5	35	61	70	177	50	35	50	50	M12	22	20	8.5	10	60	2500	2280
AG381	3100/AS	316	137	40	100	76	216	54	40	70	70	M14	25	22	11	10	100	4500	3350



Code	Description	A	B	C	D	E	F	G	H	I	L	M	N	P	Q	R	*	Fh (daN)	Gr. $\Delta$
AG395	70/ASX	86	41	12	22	36	64	26	13	26		M6	12	8.5	4.3	6	20	120	165
AS397	160/ASX	116	56	15	31	46	85	33.5	11.5	36.5		M6	12	11	5.5	7	30	280	360
AS399	360/ASX	122	70	25	32	45.5	90	33.5	30	36.5		M8	15	12	5.5	7	32	560	480





# ASX

## PUSH-ONLY ROD TOGGLE CLAMPS

**Base, control lever, riveted pivots:**

**AISI 304 stainless steel.**

**Sliding bushing, ring nut, spacer bushing and push rod:**

**AISI 303 stainless steel.** Rod with threaded hole for the spindle housing (to be ordered separately - see Accessories).

**Handle:**

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

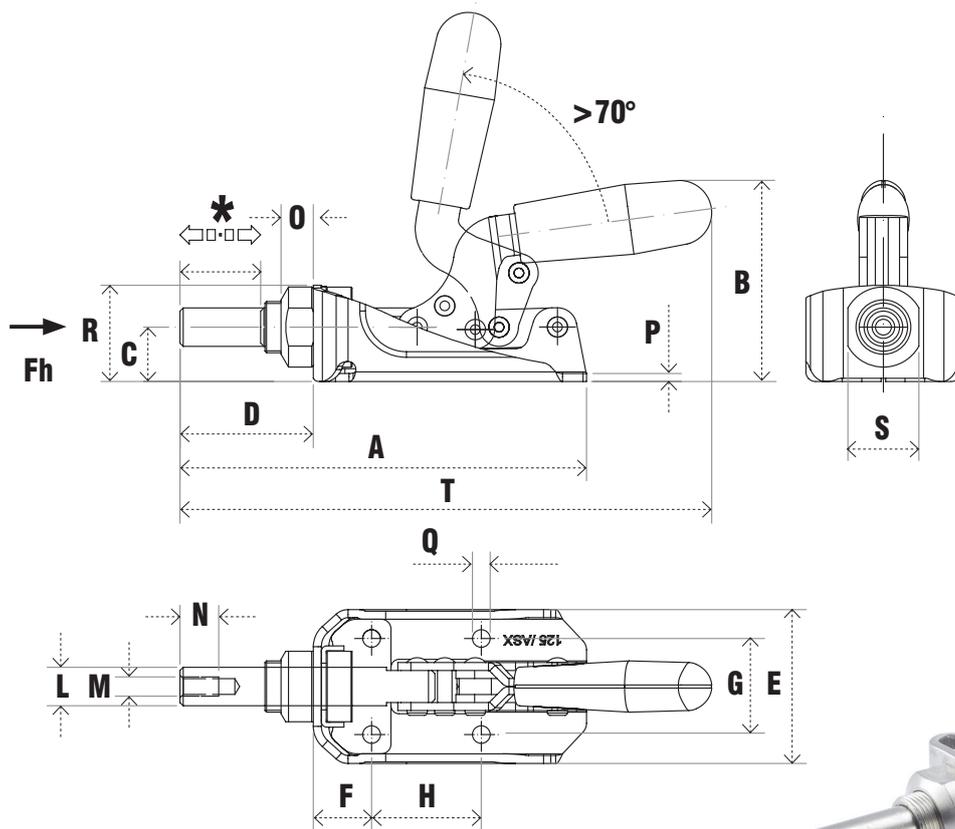
**Features and applications:**

The tools of this series can only work by pushing

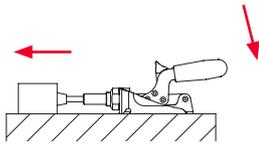
A special grease is applied to the contact surfaces to reduce friction and make the movement smoother.

**Accessories** (to be ordered separately):

- Spindles (see page 152).



Code	Description	A	B	C	D	E	F	G	H	L	M	N	O	P	Q	R	S	T	*	Fh (daN)	Gr. $\frac{\Delta}{\Delta}$
AS383	85/ASX	98	46	12.7	31.5	38	12	24	24	8	M5	10	8	2	4.3	22.5	16	112	15	400	142
AS385	125/ASX	126	62	17	41	48	18	30	34	12	M6	12	10	2.5	5.5	30	22	165	19	520	343
AS387	305/ASX	158	74	20	53	58	18	34	50	14	M8	16	12	3	6.5	36	24	197	25	675	615



# ASLX

## PUSH-ONLY ROD TOGGLE CLAMPS WITH SAFETY LEVER

**Base, control lever, riveted pivots:**

**AISI 304 stainless steel.**

**Sliding bushing, ring nut, spacer bushing and push rod:**

**AISI 303 stainless steel.** Rod with threaded hole for the spindle housing (to be ordered separately - see Accessories).

**Handle:**

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

**Safety lever:**

**AISI 303 stainless steel** with ergonomic red PVC button.

**Features and applications:**

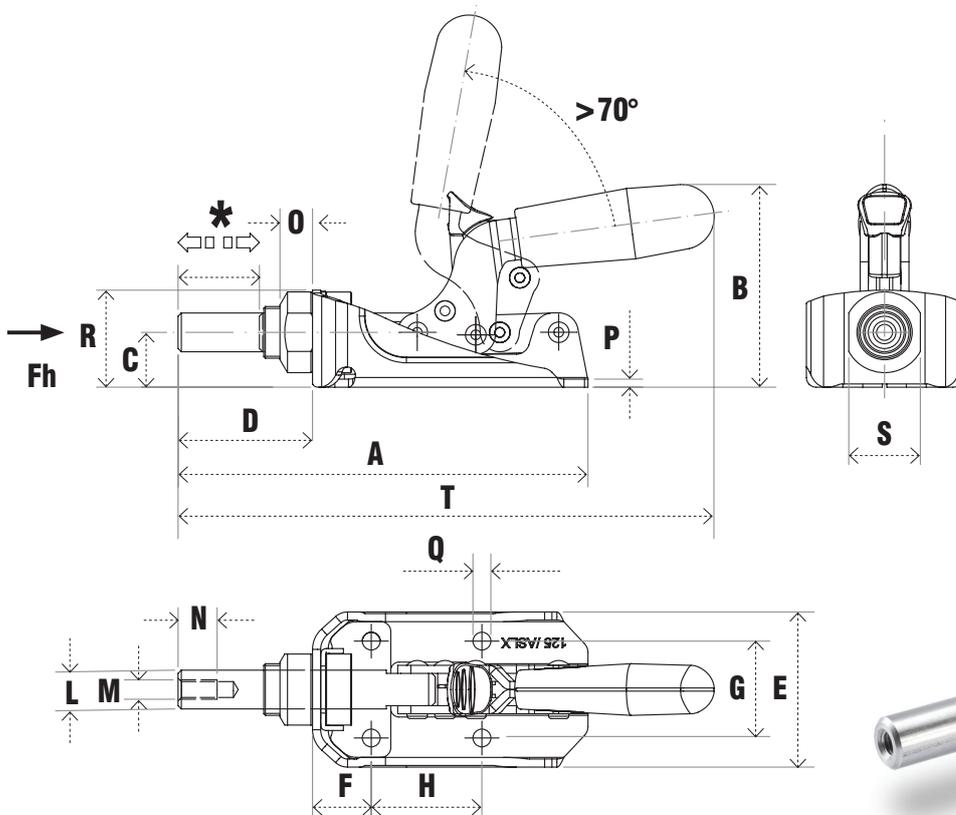
The tools of this series can only work by pushing.

The safety lever ensures the perfect anchoring of the tool, even in the open position, preventing any accidental openings caused by vibrations or shocks.

A special grease is placed between the contacting surfaces during assembly.

**Accessories** (to be ordered separately):

- Spindles (see page 152).

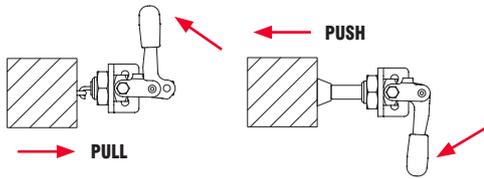


STRAIGHT-LINE



Code	Description	A	B	C	D	E	F	G	H	L	M	N	O	P	Q	R	S	T	*	Fh (daN)	Gr. ⚖
AS389	85/ASLX	98	46	12.7	31.5	38	12	24	24	8	M5	10	8	2	4.3	22.5	16	112	15	400	146
AS391	125/ASLX	126	62	17	41	48	18	30	34	12	M6	12	10	2.5	5.5	30	22	165	19	520	352
AS393	305/ASLX	158	74	20	53	58	18	34	50	14	M8	16	12	3	6.5	36	24	197	25	675	620





# AS - ASX

## PUSH AND PULL ROD TOGGLE CLAMPS

### Control lever, riveted pivots, bushing fixing screws and ring nut:

Galvanized steel (AS), **AISI 304 stainless steel** (ASX).

### Sliding bushing and push-pull rod:

Galvanized steel (AS), **AISI 303 stainless steel** (ASX). Rod with threaded hole for the spindle housing (to be ordered separately - see Accessories).

### Handle:

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

### Features and applications:

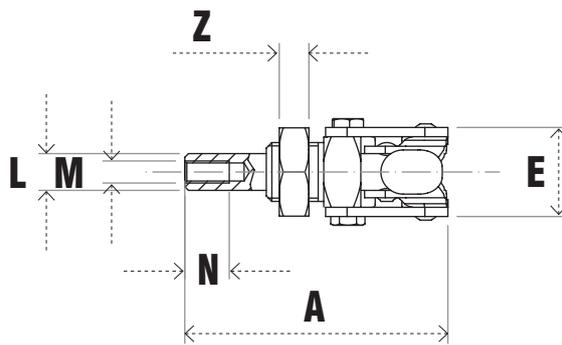
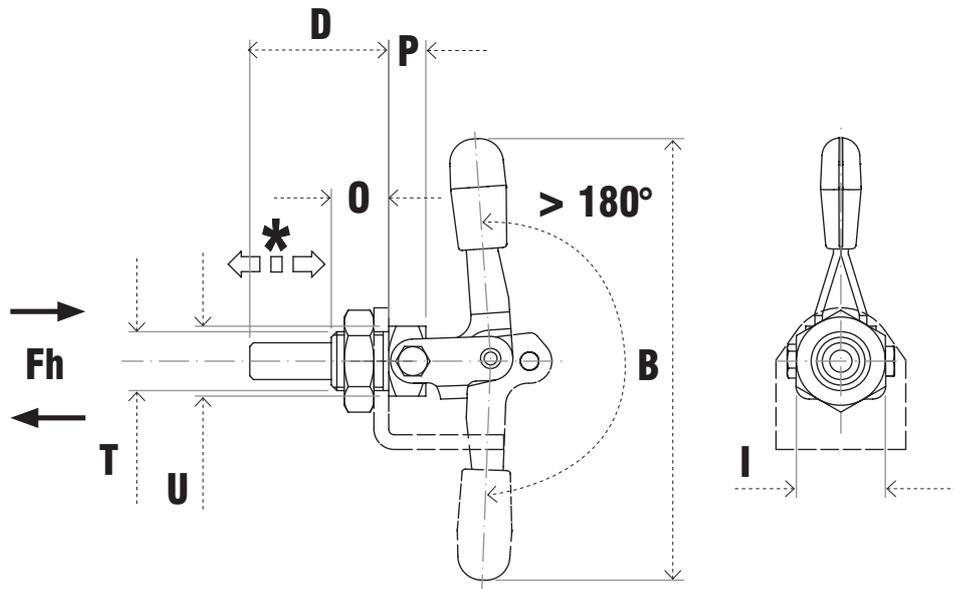
The tools of this series can work with both push and traction.

A special grease is applied on the contact surfaces to reduce friction and make the movement more fluid.

### Accessories (to be ordered separately):

- Fixing brackets (see page 144).
- Spindles (see page 152).





Code	Description	A	B	D	E	I	L	M	N	O	P	T	U	Z	*	Fh (daN)	Gr. $\triangle \triangle$
AG401	80/AS	71	120	38	24	24	10	M6	12	15.5	10	M16X1.5	10	8	21	300	135
AG406	165/AS	113	194	59	28	30	12	M8	15	20	16	M20X1.5	22	9	38	540	335
AG411	340/AS	173	256	90	38	36	16	M10	18	22	28	M24X2	30	10	66	700	835



Code	Description	A	B	D	E	I	L	M	N	O	P	T	U	Z	*	Fh (daN)	Gr. $\triangle \triangle$
AS401	80/ASX	71	120	38	24	24	10	M6	12	15.5	10	M16X1.5	10	8	21	300	135
AS406	165/ASX	113	194	59	28	30	12	M8	15	20	16	M20X1.5	22	9	38	540	335
AS411	340/ASX	173	256	90	38	36	16	M10	18	22	28	M24X2	30	10	66	700	835

