RAIS-TOOLS

Ltd.

2025/2026

www.rais.pl





ENG

Founded in 2013, the company "RAIS-TOOLS Ltd." is a manufacturer of high-quality manual and pneumatic quick-clamping clamps and manual presses.



Our clamps are used in the production systems of many companies in the country and abroad.

We also supply distributors and end users with various imported clamping tools from manufacturers such as: AMF, Bessey, Kopal, Brauer and others.

We have a well-established position in the electromechanical, automotive, plastics, woodworking, welding and other industries. Our products are known both in the country and in Europe, as evidenced by awards and distinctions won at trade fairs. For 8 years, we have been successfully expanding our service offer in the field of machining, laser cutting, plastic processing on edging machines, performing strength tests of metal elements, rotary joints, encapsulating metal elements with plastic of various thicknesses.

Our goal is to satisfy our customers, to whom we sell products and services at competitive prices. That is why we consistently focus on the development and implementation of new products to fully meet the growing market needs.

Since 2023, we have moved our headquarters to newly built premises and halls in Buszewo near Pniewy.

For years, the "RAIS-TOOLS" company has been implementing and applying a Quality Management System compliant with the requirements of ISO 9001 standards, documented by certificates:

- ISO 9001:2015 Certificate No. 1816/109/2021/J/R-(Z/1/2024)
- ISO 9001:2000 Certificate No. 320508068/1 issued by DEKRA Certification (until May 2011)
- ISO 9001:2000 Certificate No. 12100 19012 TMS issued by TUV Management Service GmbH (until May 2006)



CERTYFIKAT

CERT

NR: 1816/09/2021/J/R-(Z/1/2023)

JEDNOSTKA CERTYFIKUJĄCA
Polska Akademia Jakości Cert Sp. z o. o.
ul. Ligocka 103, bud. 2, 40-568 Katowice
ZAŚWIADCZA, ŻE PRZEDSIĘBIORSTWO:

RAIS-TOOLS Sp. z o.o.
62-045 Pniewy, Buszewo 22

WDROŻYŁO I STOSUJE
SYSTEM ZARZĄDZANIA JAKOŚCIĄ
ZGODNY Z WYMAGANIAMI NORMY

PN-EN ISO 9001:2015

W NASTĘPUJĄCYM ZAKRESIE:
Produkcja i sprzedaż docisków szybkomocujących, prasek ręcznych oraz usługi cięcia laserem i gięcia na krawędziarce.

Niniejszy certyfikat zastępuje z dniem 30.10.2023 r. certyfikat nr 1816/09/2021/J/R

PCA
IAF
AC.137

PREZES ZARZĄDU
PAI CERT Sp. z o.o.
Aleksandra Czaja

OKRES WAŻNOŚCI CERTYFIKACJI
od 15.09.2021 do 14.09.2024

KATOWICE, 30.10.2023



CERTIFICATE

CERT

No. 1816/09/2021/J/R-(Z/1/2023)

CERTIFYING BODY
Polska Akademia Jakości Cert Sp. z o. o.
ul. Ligocka 103, bud. 2, 40-568 Katowice
CERTIFIES THAT THE COMPANY:

RAIS-TOOLS Sp. z o.o.
62-045 Pniewy, Buszewo 22

HAS IMPLEMENTED AND APPLIES THE QUALITY MANAGEMENT SYSTEM CONFORMABLE WITH THE REQUIREMENTS OF THE STANDARD

PN-EN ISO 9001:2015

WITH THE FOLLOWING SCOPE:
Manufacture and sale of quick release clamps and manual presses; services of laser cutting and bending using folding machines.

The following certificate replaces. From 30.10.2023, the certificate no. 1816/09/2021/J/R

PCA
IAF
AC.137

CHAIRMAN
of the PAI CERT Sp. z o.o.
Aleksandra Czaja

THE VALIDITY PERIOD OF CERTIFICATION
from 15.09.2021 to 14.09.2024

KATOWICE, 30.10.2023

We reserve the right to make any changes without notice.

I. NEW PRODUCTS — 4-10
- Instructions for correct attachment to the station and adjustment of the clamp
- New quick-release clamps







II. HORIZONTAL QUICK-CLAMPS — 11-21
- Horizontal clamp
- Horizontal clamp with additional protection
- Stainless steel horizontal clamp
- Reverse horizontal clamp
- Adjustable rotary clamp




III. VERTICAL QUICK-CLAMPS — 23-39
- Vertical clamp
- Vertical clamp with additional protection
- Stainless steel vertical clamp
- Reinforced vertical clamp
- Modular clamp
- Method of mounting modular clamps




IV. QUICK-CLAMPING PUSH-PULL CLAMPS — 40-45
- Push-pull clamp
- Low push-pull clamp
- Push-pull clamp with horizontal handle
- Reinforced push-pull clamp with base
- Reinforced push-pull clamp




V. QUICK-CLAMPING CATCH CLAMPS — 46-50
- Catch clamp
- catch clamp with additional protection
- Stainless steel catchclamp
- Hook-type catch clamp
- Complete catch clamp
- Strong catch clamp




VI. PNEUMATIC CLAMPS — 51-55
- Horizontal pneumatic clamp
- Vertical pneumatic clamp
- Pneumatic push clamp
- Reinforced pneumatic clamp with vertical actuator
- Reinforced pneumatic clamp with horizontal actuator




VII. ACCESSORIES — 56-60








VIII. MANUAL PRESSES — 61-63





IX. SERVICES - Laser cutting — 64-66
- Sheet metal bending
- CNC turning
- CNC milling
- Eccentric press cutting
- Welding and spot welding

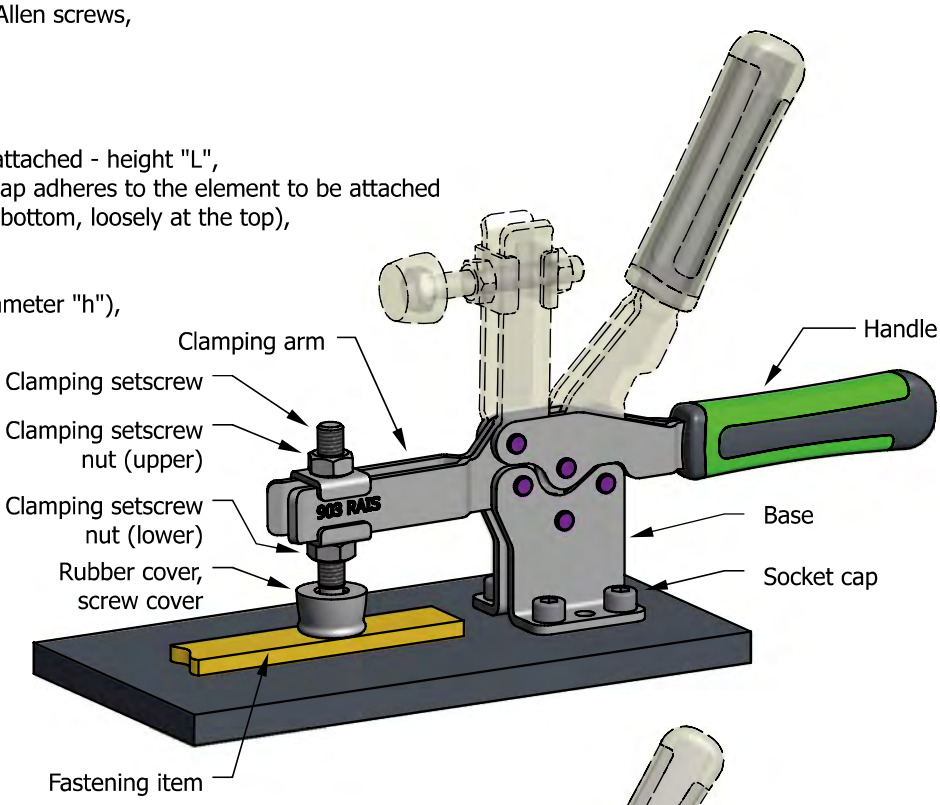
We reserve the right to make any changes without notice.

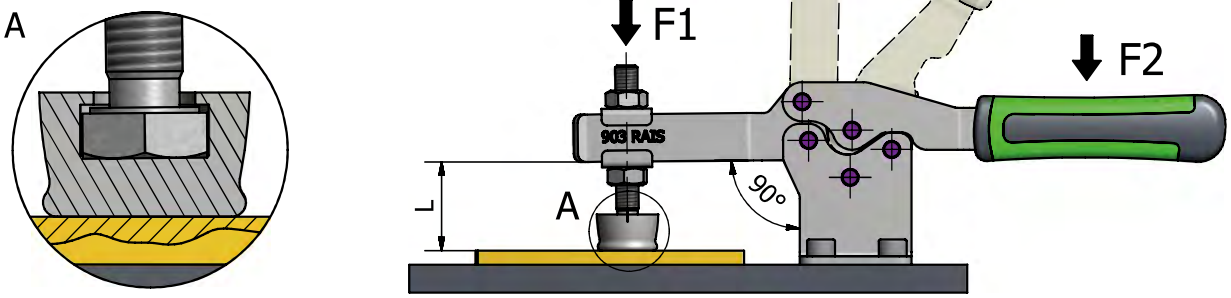
I. New Products

1. Instructions for correct attachment to the station and adjustment of the clamp:

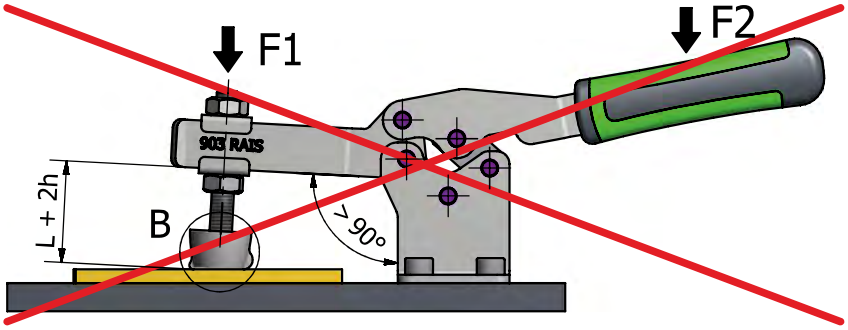
1. Attach the pressure to the station, e.g. using Allen screws,
2. Place the element to be attached,
3. Open the clamp using the handle,
4. Loosen the nuts from the pressure screw,
5. Close the clamp using the handle,
6. Set the pressure screw on the element to be attached - height "L",
7. Tighten the nut from the bottom so that the Cap adheres to the element to be attached (eliminate the clearances on the nut from the bottom, loosely at the top),
8. Open the clamp again using the handle,
9. Unscrew the screw downwards (make ~1 turn of the nut at the bottom - parameter "h"),
10. Tighten the pressure screw and counter-tighten with the top nut,
11. Close the clamp again using the handle,
12. We check the hold, during closing we should feel resistance and a characteristic "click",
13. If the resistance is very high, reduce the "h" value.

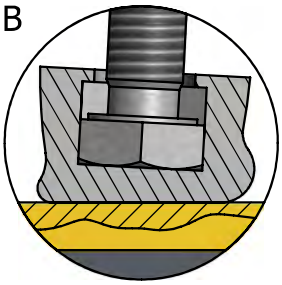
F1 - pressing force
F2 - closing/opening force





Correctly adjusted clamping tool.
The rubber cover has slightly deformed. When closing the clamping tool, we feel a slight resistance.





Incorrectly adjusted clamping tool.
The clamping setscrew is turned out too much, we cannot close the clamp correctly.

We reserve the right to make any changes without notice.

2. HORIZONTAL REINFORCED TOGGLE CLAMP

The clamp is made of blackened structural steel.
Pins made of hardened C45 material, mounted in PTFE sliding bushes. The joints of the parts are lubricated.
The two-component flexible handle is made of plastic and elastomer.

The workpiece is fixed when the handle is positioned horizontally with resistance.

B – clamp with additional protection (handle immobilization)

Clamps with additional protection have a lever protecting against:
- automatic lowering of the handle in an open clamp (e.g. when changing the workpiece),
- accidental opening of the handle while the operator is clamping or processing the workpiece.

Before opening the clamp or closing it, first press the additional protection lever with your thumb.
While holding it and embracing the clamp handle with your whole hand, lift it up or lower it down.
After releasing the lock and making a full movement down or up, the protection will lock the clamp in the extreme open or closed position.

907
Horizontal reinforced toggle clamp

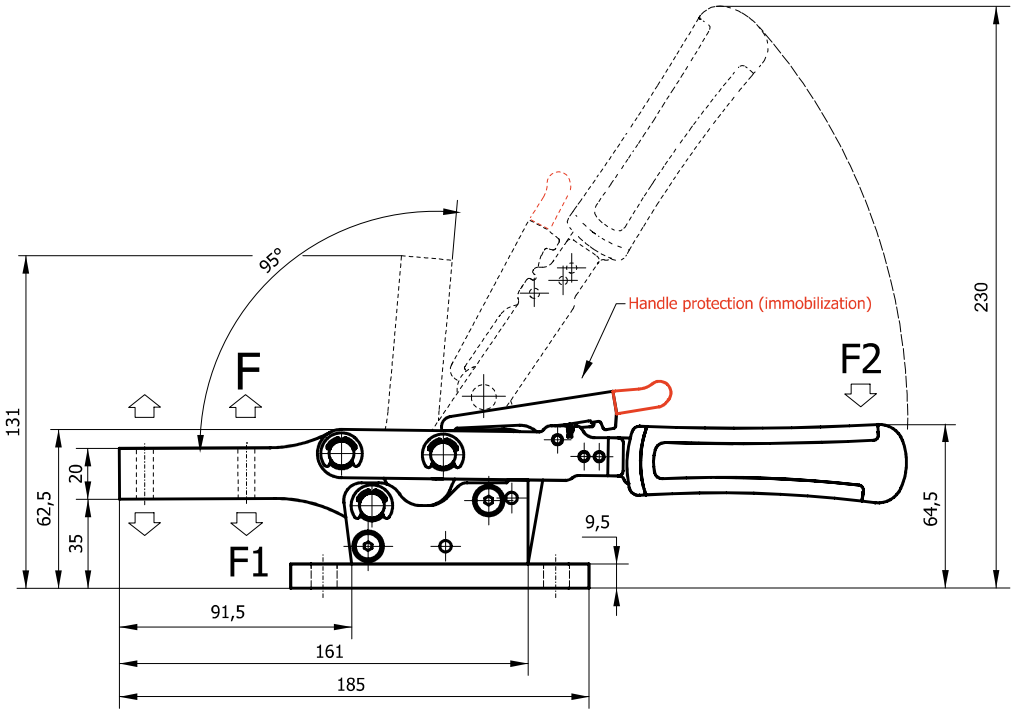


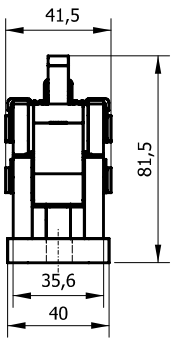
Weight (m): 1,75 [kg]

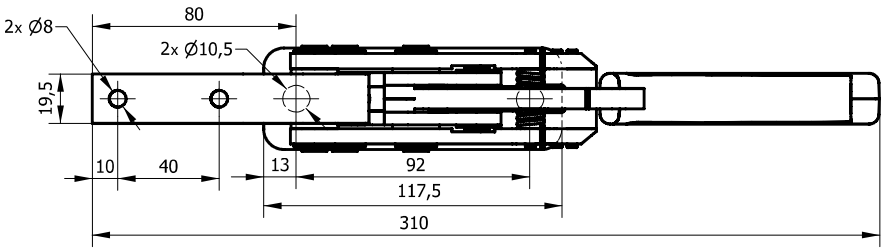
907B
Horizontal reinforced toggle clamp with additional protection



Weight (m): 1,80 [kg]







Operating force (F): 580 [daN]
Pressing force (F1): 90 [daN]
Closing force (F2): 12 [daN]

We reserve the right to make any changes without notice.

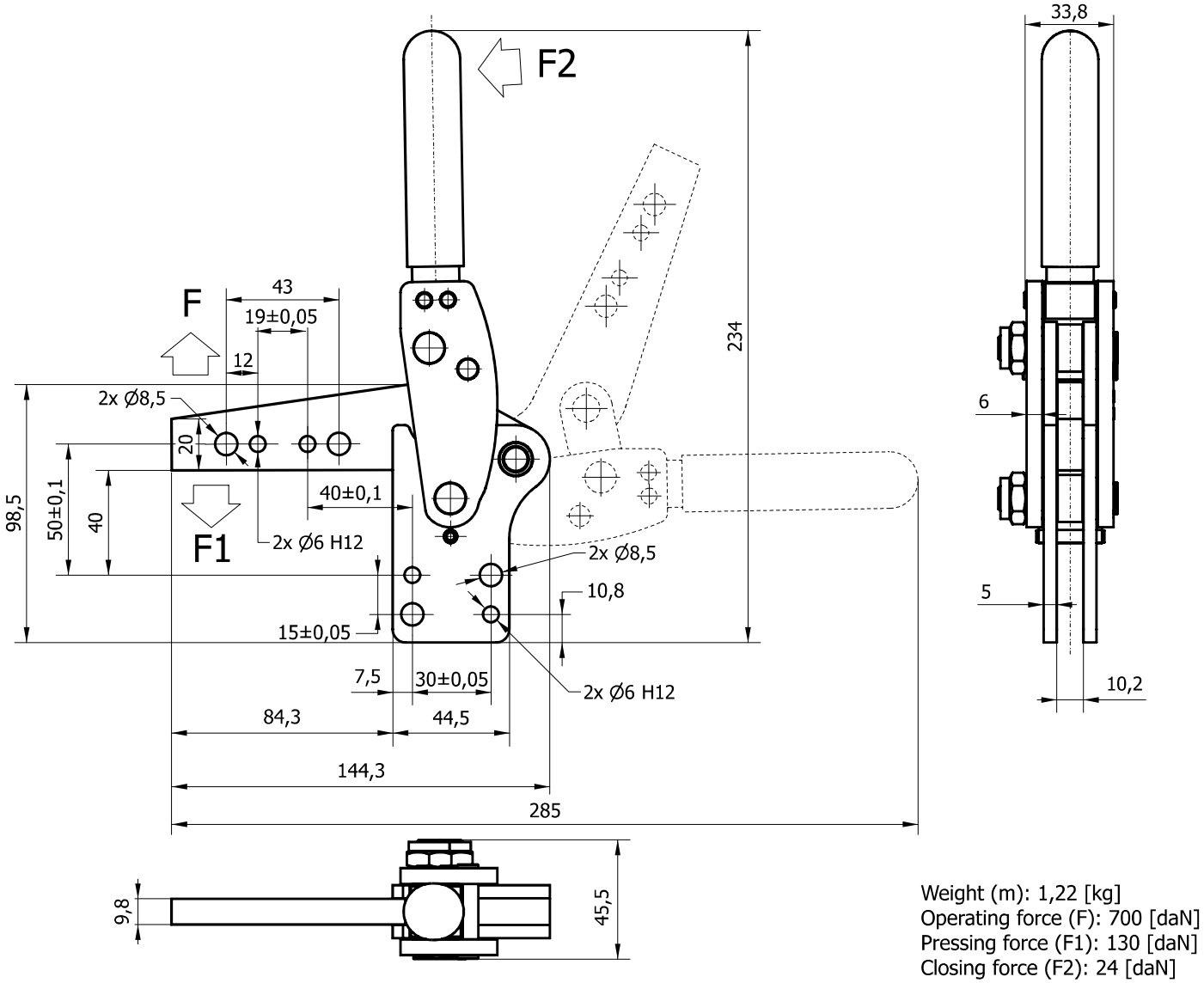
3. PRECISION POWERFUL COMPLETE CLAMP WITH STRAIGHT BASE

These clamps carry heavy loads. They are made of blackened steel elements, have heat-treated knurled bushings, and the pins are hardened and ground.

Clamps of this type are used primarily in industrial series production.

The workpiece is clamped when the handle is positioned vertically with resistance.





Weight (m): 1,22 [kg]
Operating force (F): 700 [daN]
Pressing force (F1): 130 [daN]
Closing force (F2): 24 [daN]

We reserve the right to make any changes without notice.

4. PISTON LATCH

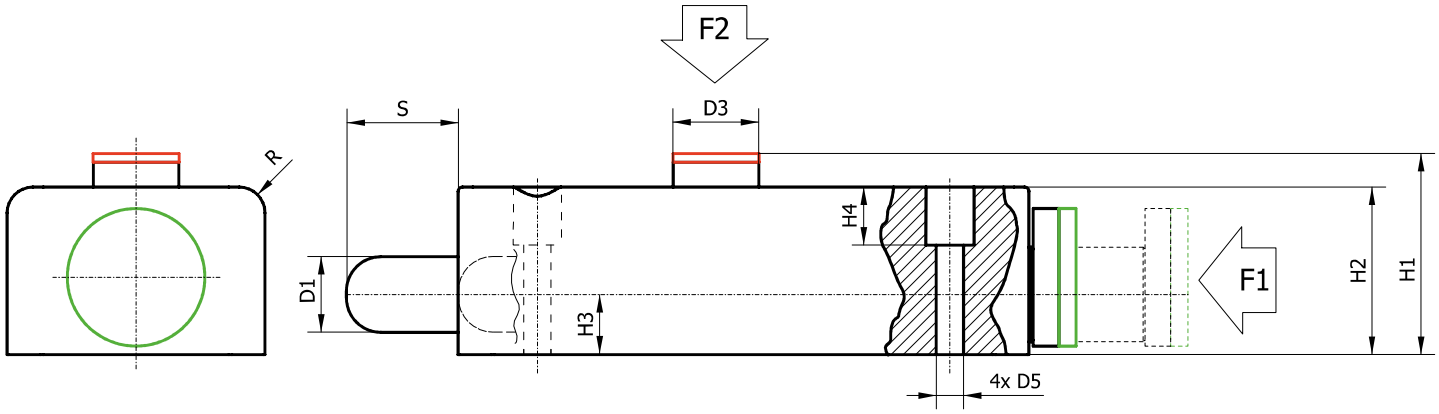
The latch is made of galvanized structural steel.

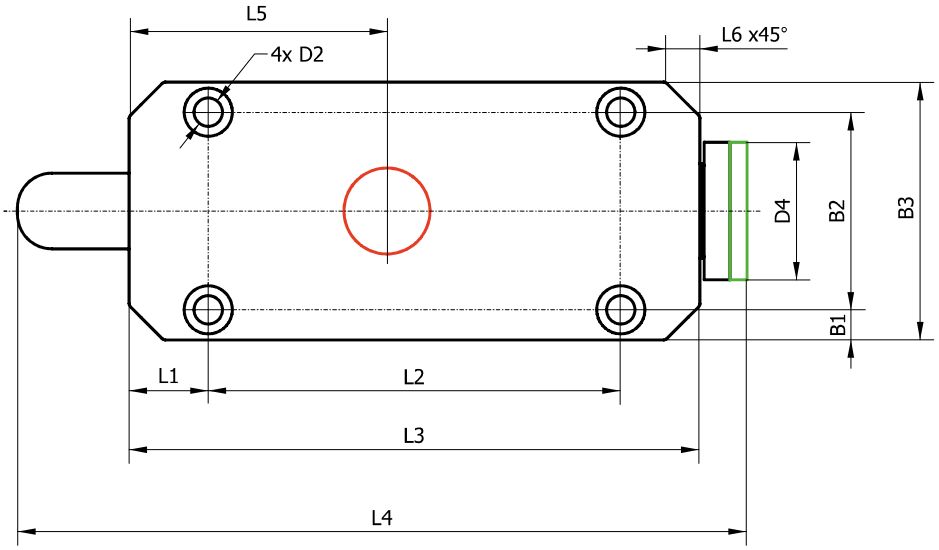
The latch is locked in one extreme position when the piston is maximally extended from the body.

We extend the latch piston by pressing the green button using force F1. In this position, the latch is locked and performs the locking and positioning function. We unlock the latch and hide the piston by pressing the red button using force F2. The piston automatically hides in the body.

The latch is used as a quick locking and positioning device, e.g. in battery replacement systems, in temporary positioning in equipment or in other cases.







Forces F1 and F2 come from the operator.

No.	[kg]	F1 [daN]	F2 [daN]	L1	L2	L3	L4	L5	L6	B1	B2	B3	H1	H2	H3	H4	S	D1	D2	D3	D4	D5	R
021	0,30	10	10	9,2	48	66,4	85	30	4	3,5	23	30	23,5	19,5	7	7	13	8,8	5,6	10	16	3,3	3
023	0,60	12	12	12,5	60	85	109	43	4	7,5	25	40	27	23	8	7	17	9,8	9,0	16	16	5,2	3
025	1,15	15	15	17,5	75	110	140	55	4	8	34	50	34	28	10	9	22	11,8	10,5	16	16	6,2	3

We reserve the right to make any changes without notice.

5. PUSH-PULL CLAMP WITH ADDITIONAL PROTECTION

034NB
034NBSS

The clamp is made of galvanized structural steel (NB) or stainless steel (NBSS). The clamp is available without a base. We suggest using our bases from page 56.

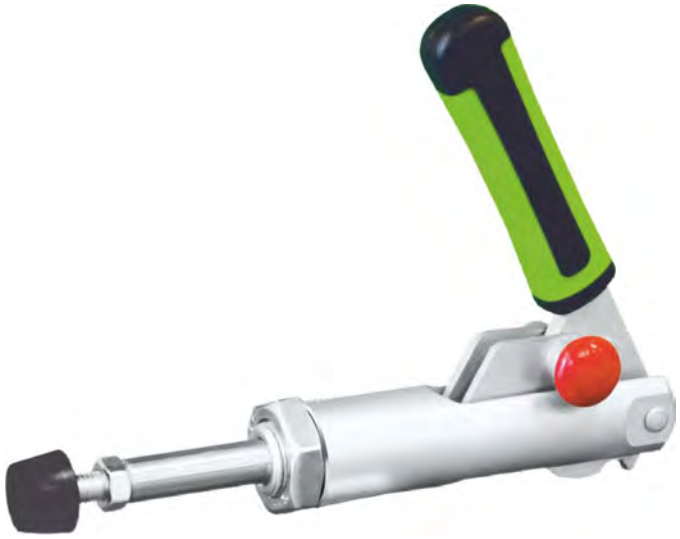
The clamp is locked in two extreme positions of the handle, when pushing the attached object to the base or when pulling.

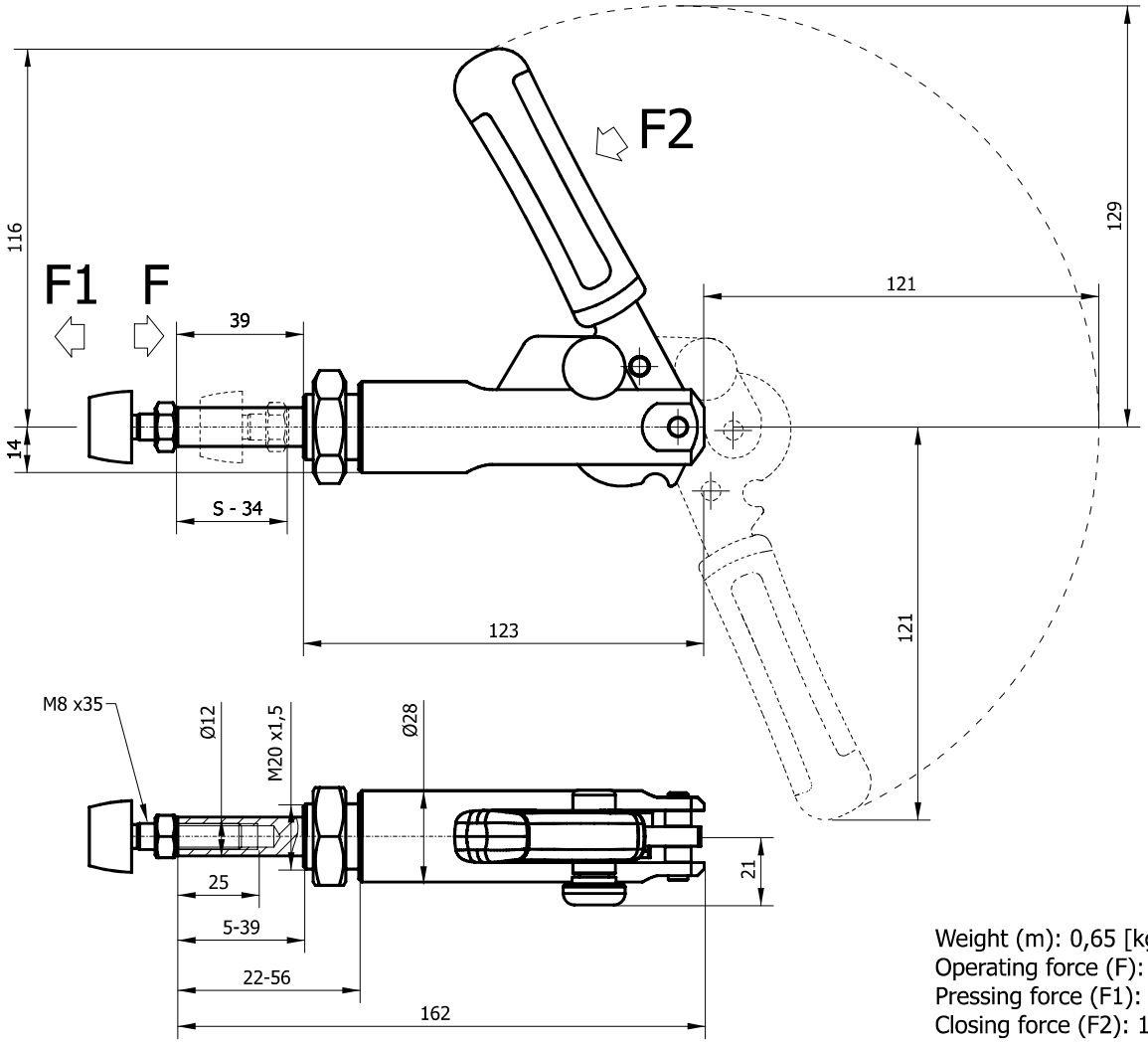
The set includes:
- clamp,
- class 8.8 clamping screw with one nut (for stainless clamp from the SS group - the clamping screw and nut are made of stainless steel),
- 1 rubber cap.

B – clamp with additional protection (handle immobilization).

Clamps with additional protection have a safety button against:
- automatic drop of the handle in open clamps (e.g. when changing the processed item),
- accidental opening of the handle during clamping or processing the item.

Before opening the clamp or closing it, first press the red latch button with your thumb. While holding it and embracing the clamp handle with your whole hand, turn the handle up or down. After releasing the lock and making a full movement down or up, the latch will lock the clamp in the extreme open or closed position.





Weight (m): 0,65 [kg]
Operating force (F): 250 [daN]
Pressing force (F1): 240 [daN]
Closing force (F2): 12 [daN]

We reserve the right to make any changes without notice.

6. REINFORCED PUSH-PULL TOGGLE CLAMP

062
062B

The clamp is made of galvanized structural steel.

The clamp is locked in two extreme positions of the handle, when pushing the workpiece to the base or when pulling.

B – clamp with additional protection (handle immobilization).

Clamps with additional protection have a button that protects against:
- automatic drop of the handle in open clamps (e.g. when changing the workpiece),
- accidental opening of the handle while clamping or processing the object.

Before opening the clamp or before closing it, first press the red button with your thumb. Holding the button changes the position of the handle to the open or closed position. After releasing the button and making a full movement of the handle, the protection will lock the clamp in the extreme open or closed position.

The set includes:
- pressure,
- class 8.8 pressure screw with one nut,
- 1 rubber cap.

062
Reinforced push-pull toggle clamp

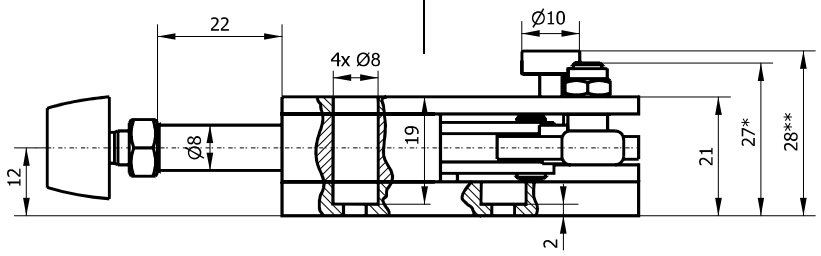


Weight (m): 0,28 [kg]

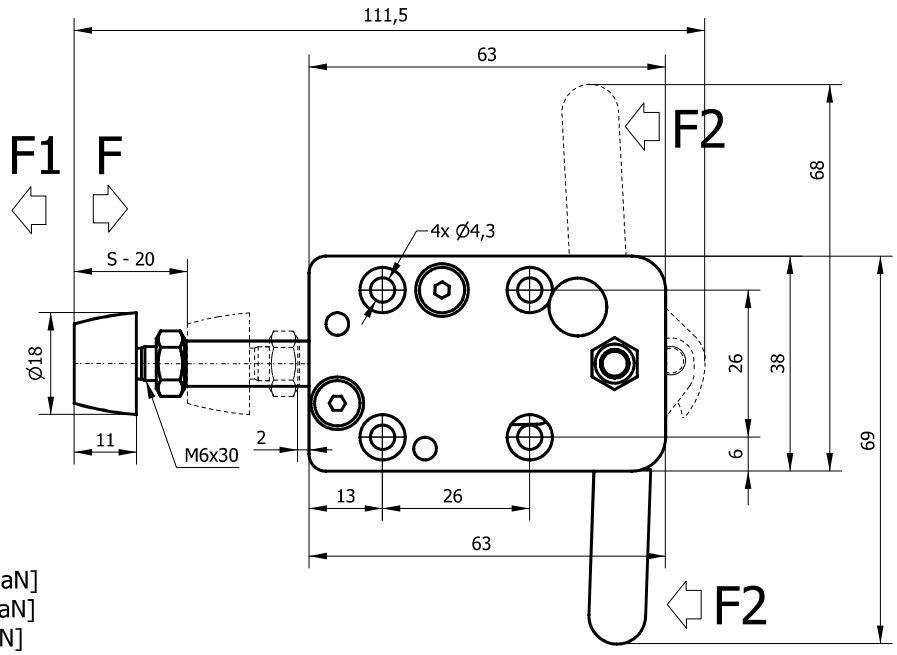
062B
Reinforced push-pull toggle clamp with additional protection



Weight (m): 0,30 [kg]



* **062** clamping height
** **062B** clamping height



Operating force (F): 90 [daN]
Pressing force (F1): 90 [daN]
Closing force (F2): 12 [daN]

We reserve the right to make any changes without notice.

7. MULTI-LAYER PNEUMATIC CLAMP

The multi-layer pneumatic clamp is made entirely of structural steel and is blackened.
The pneumatic actuator is made of aluminum and has a magnetic ring on the piston.

Inside the press, a knee locking mechanism is used. Changing the position of the presser from closed to open is achieved by using compressed air.

Maximum working pressure is 6 bar.

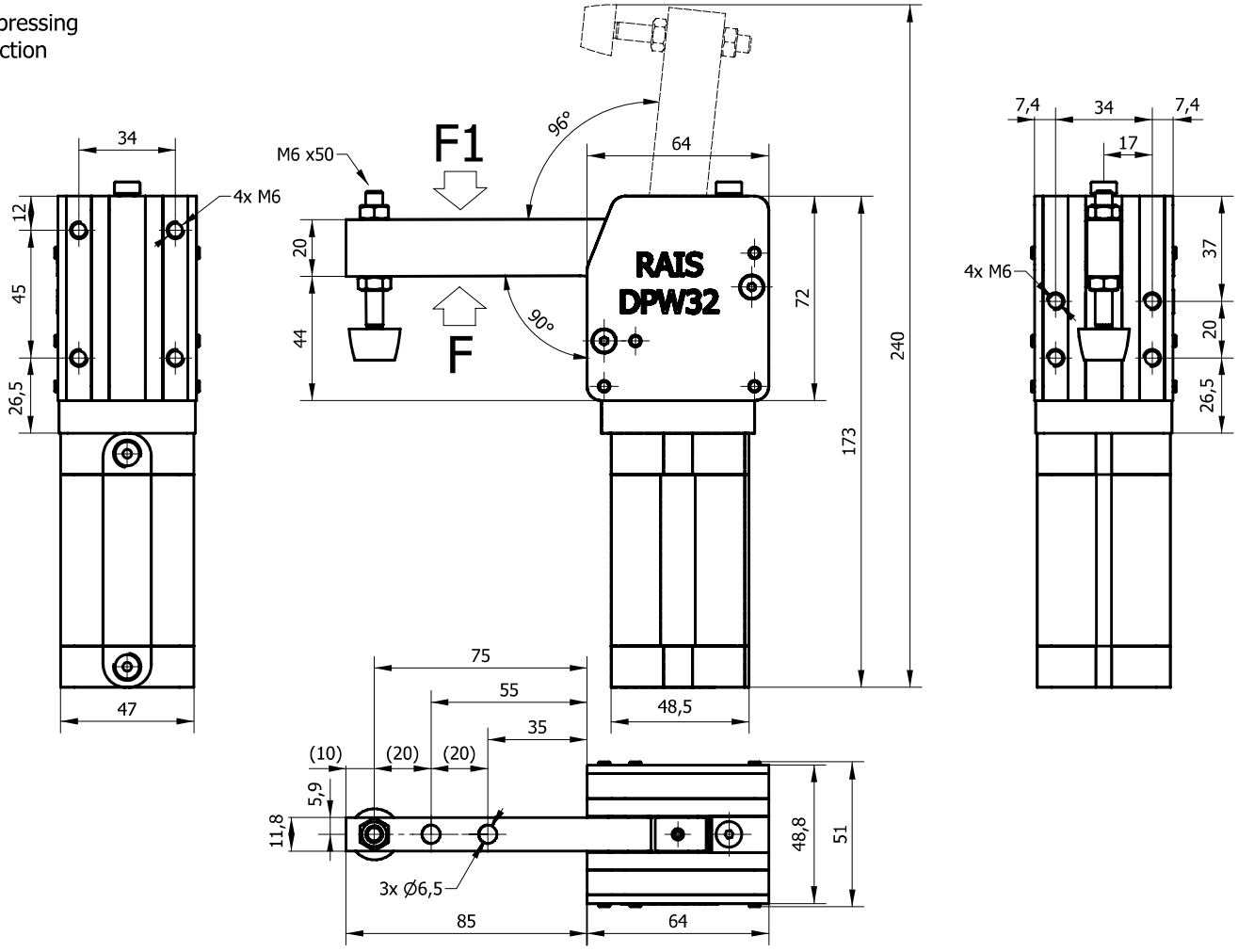


Application:
The clamp is used in the following industries: automotive, aerospace, measuring, packaging, machining, food and others. It is also often used in automatic welding and spot welding processes on production lines.

Features:
- solid steel construction,
- compact dimensions thanks to the use of an innovative knee mechanism,
- possibility of mounting the clamp to the device on 2 parallel planes at the front and back of the clamp,
- solid construction of the knee mechanism inside the clamp, enabling significant pressing and operating forces in relation to the dimensions of the clamp.

The set includes :
- pressure,
- class 8.8 pressure screw with two nuts,
- 1 rubber cap,
- ø6 throttle-check valves in quantity 2 pieces.

Force F1 - pressing
Force F – action



Size	Moment of action [Nm]	Pressing force moment [Nm]	Piston diameter [mm]	Weight [kg]
32	180	55	Ø32	2,15

We reserve the right to make any changes without notice.

II. Horizontal toggle clamps

All QUICK-CLAMPS manufactured by our company are self-locking thanks to the use of a locking mechanism inside the clamp, called a knee lever, which allows for rigid, strong, repeatable and fast clamping of workpieces. The lock is obtained in the extreme horizontal position of the handle.

QUICK-CLAMPS are mainly used in devices: welding, drilling, assembly, milling, in the processing of wood, metal, plastics and other materials.

The clamps are made of galvanized steel elements, connected with hardened sleeves and stainless pins. The two-component flexible handle is made of plastic and elastomer. The handle is resistant to acids, alkalis, detergents, oils and solvents.

Clamps with additional handle protection have an additional lever securing against:
- automatic lowering of the arms in open clamps (e.g. when changing the workpiece),
- accidental opening of the handle during clamping or processing of the workpiece.

Clamps with additional handle protection are marked by adding a letter **B** in the numbering.

Before opening the above clamp or closing it, first press the red lever ratchet with your thumb. Holding it and embracing the clamp handle with your whole hand, lift it up or lower it down.

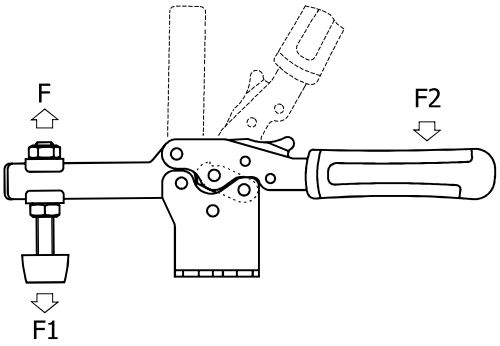
Clamps made entirely of stainless steel are marked by adding letters **SS** in the numbering. The pins are mounted in thermo-chemically improved knurled sleeves.

There are three forces in the drawings:

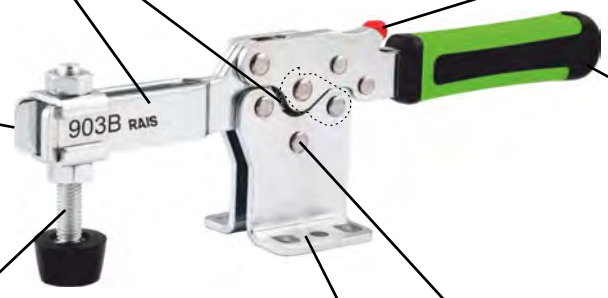
Force F (action) - originating from the forces generated during processing.

Force F1 (pressing) - derived from force F2 and proportional to it, also derived from the internal knee mechanism, being a reaction to force F. Additionally, the knee mechanism ensures a lock in the closed position of the quick-clamping clamp.

Force F2 (closing / opening) - derived from the force of the operator's hand
or from the pneumatic actuator.



The forces presented in the tables are given in units of **daN**.
1 [kG] ≈ 1 [daN] = 10 [N]



Clamping arm
Galvanized, made from stuctural steel.

Connector
Galvanized, made from stuctural steel.

Additional Clamp Lock
Clamps except internal locking lever has additional protection.

Open ends of the clamping arm
Prevents from losing / sliding off the clamping screw.

Two-component flexible handle
Flexible handle made of plastic and elastomer. Flexible handle grip is fitted on galvanized arm made of structural steel.

Clamping setscrew
Clamping setscrew 8.8 class with flanged washers, nuts and rubber cover.

Base
Galvanized, made from stuctural steel.

Stainless steel pin and knurled bushing
The pin is made of stainless steel embedded in the hardened knurled bushing.

We reserve the right to make any changes without notice.

8. HORIZONTAL TOGGLE CLAMP

The clamp is made of galvanized structural steel (the clamp from the **SS** group is made entirely of stainless steel). Stainless steel pins are mounted in thermochemically improved knurled sleeves. The two-component flexible handle is made of plastic and elastomer.

The workpiece is clamped when the handle is horizontal.

B - clamp with additional protection (handle immobilization).

Clamps with additional protection have a lever that protects against:
- automatic lowering of the arms in open clamps (e.g. when changing the workpiece),
- accidental opening of the handle during clamping or processing of the workpiece.

Before opening the clamp or before closing it, first press the red latch lever with your thumb. Holding it and embracing the clamp handle with your whole hand, lift it up or lower it down.

The set includes :
- clamp,
- class 8.8 clamping screw with two nuts (for stainless clamps from the group **SS** - clamping screws and nuts made of stainless steel),
- clamp in the amount of 2 pieces,
- 1 rubber cap.

901, 902, 012, 903, 904, 906
Horizontal Clamp



903B, 904B, 906B
Horizontal Clamp with additional protection



903SS
Stainless Steel Horizontal Clamp



Accessories

Bi-thrust beam



p. 56

Set screw with plate springs



p. 57

Self-aligning set screw



p. 57

Set screw with a vulcanized beam flange



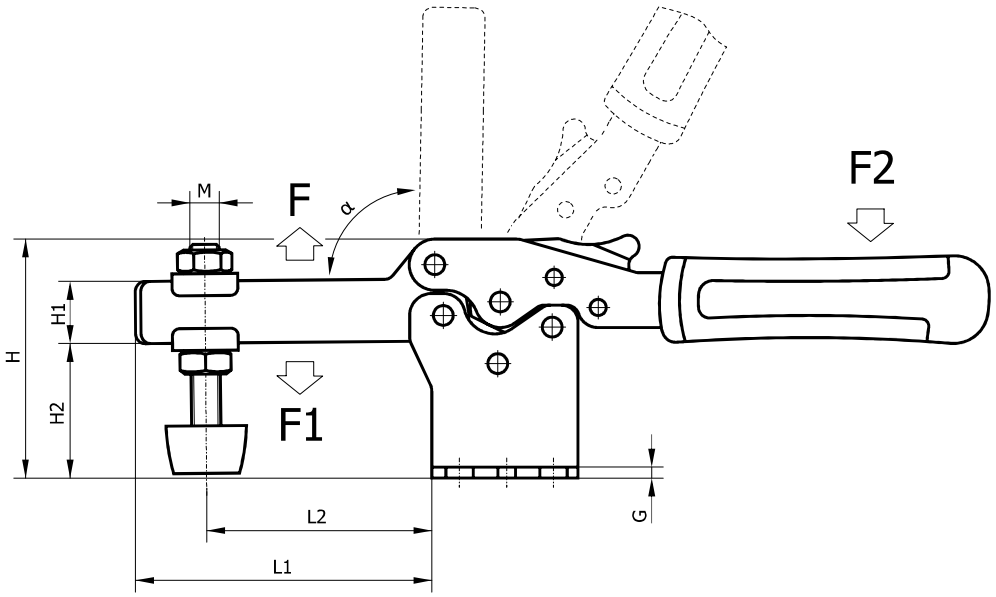
p. 57

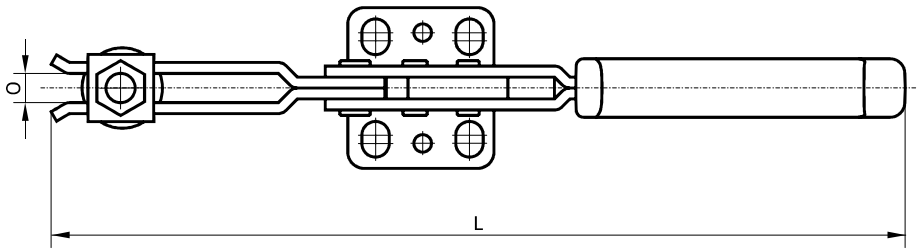
Set screw with a flexible beam



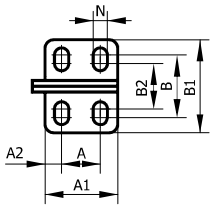
p. 58

We reserve the right to make any changes without notice.

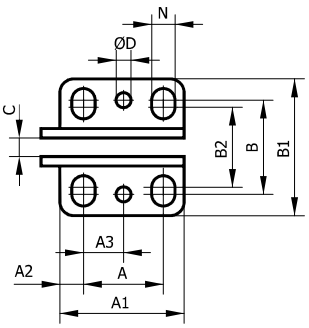




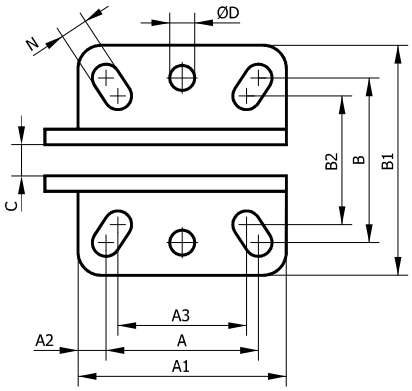
Base
012, 901



Base
902, 903, 904
903B, 904B
903SS



Base
906
906B



No.	[kg]	F [daN]	F1 [daN]	F2 [daN]	A	A1	A2	A3	B	B1	B2	C	ØD	G	H	H1	H2	L	L1	L2	M	N	O	α
901	0,09	90	25	6	13,3	25	5,7	---	21,5	32	15,6	---	---	2,0	36	10	21	121	41	15 ÷ 30	M5x30	4,9	5	90°
902	0,19	130	35	9	26,0	37	5,2	13,7	28,2	39	20,6	5	4,8	2,5	46	13	26	163	61	22 ÷ 50	M6x35	5,5	6	90°
012	0,27	150	55	9	26,0	42	7,9	---	38,0	50	20,3	---	---	3,0	51	14	29	186	57	17 ÷ 44	M6x40	6,1	6	90°
903 **903B** **903SS**	0,40 0,43 0,40	210	60	12	25,7	40	7,6	12,9	30,3	44	25,8	6	6,0	3,0	65	17	37	234	81	28 ÷ 67	M8x55	7,5	8	90°
904 **904B**	0,84 0,88	320	75	15	40,8	57	7,8	20,5	43,2	58	39,1	8	6,0	4,0	80	20	42	301	106	33 ÷ 91	M8x65	8,6	8	90°
906 **906B**	1,50 1,56	500	90	18	49,0	67	9,0	41,4	53,0	74	41,4	10	7,8	5,0	97	25	61	359	131	42 ÷ 112	M10x90	8,8	10	90°

If there are several types of clamps in one row of the table, there may also be several values in the appropriate columns corresponding to the dimensions in the technical drawing. The values are assigned to the appropriate clamp. If there is one value in a given column, it corresponds to all types of clamps given in the first column (No.) of the given row.

We reserve the right to make any changes without notice.

9. HORIZONTAL TOGGLE CLAMP WITH STRAIGHT BASE

The clamp is made of galvanized structural steel (the clamp from the **SS** group is made entirely of stainless steel). Pins made of stainless steel are mounted in thermo-chemically improved knurled sleeves. The two-component flexible handle is made of plastic and elastomer.

The workpiece is clamped when the handle is horizontal.

B - clamp with additional protection (handle immobilization).

Clamps with additional protection have a lever that protects against:
- automatic lowering of the handle and presser in open clamps (e.g. when changing the workpiece),
- accidental opening of the handle during clamping or processing of the object.

Before opening the clamp or before closing, first press the red latch lever with your thumb. Holding it and embracing the clamp handle with your whole hand, lift it up or lower it down.

The set includes :
- clamp,
- class 8.8 clamping screw with two nuts (for stainless clamps from the group **SS** - clamping screws and nuts made of stainless steel),
- clamping ring in the amount of 2 pieces,
- 1 rubber cap.

951, 952, 052, 953, 954, 956
Horizontal toggle clamp with straight base



953B, 954B, 956B
Horizontal toggle clamp with straight base with additional protection



953SS
Stainless steel horizontal toggle clamp with straight base



Accessories

Bi-thrust beam



p. 56

Set screw with plate springs



p. 57

Self-aligning set screw



p. 57

Set screw with a vulcanized beam flange



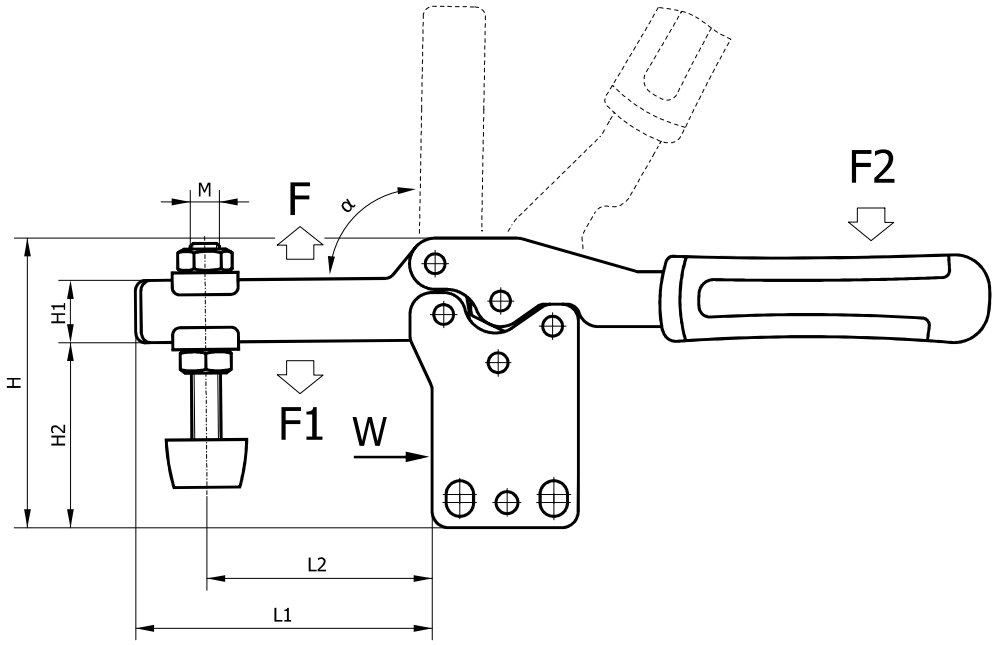
p. 57

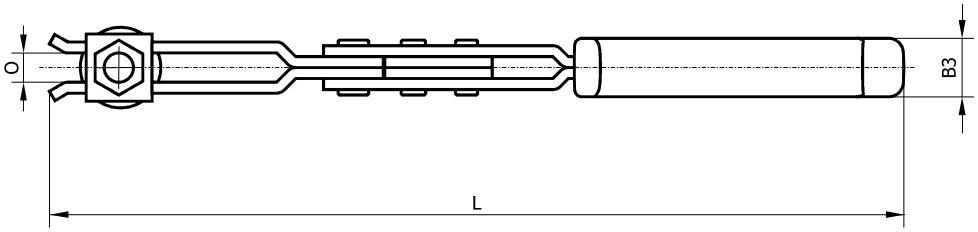
Set screw with a flexible beam



p. 58

We reserve the right to make any changes without notice.

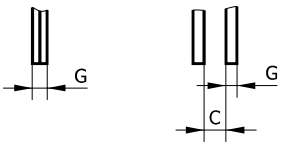




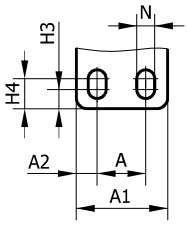
Base
951, 052

Base
952, 953, 954, 956
953B, 954B, 956B

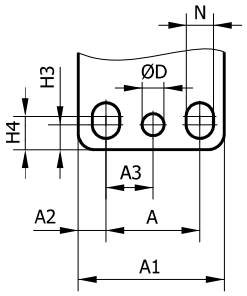
W



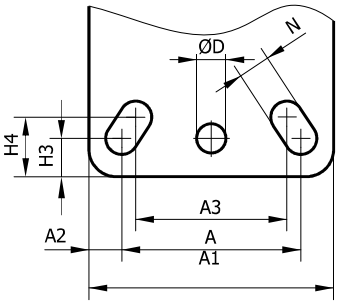
Base
951, 052



Base
952, 953, 954
953B, 954B
953SS



Base
956
956B



No.	[kg]	F [daN]	F1 [daN]	F2 [daN]	A	A1	A2	A3	B3	C	ØD	G	H	H1	H2	H3	H4	L	L1	L2	M	N	O	α
951	0,09	90	25	6	13,3	25	5,7	---	11	---	---	4,0	49	10	34	5,3	8,2	121	41	15 ÷ 30	M5x30	4,9	5	90°
952	0,19	130	35	9	26,0	37	5,2	13,7	14	5	4,8	2,5	59	13	39	5,4	9,2	163	61	22 ÷ 50	M6x35	5,5	6	90°
052	0,27	150	55	9	26,0	42	8,0	---	14	---	---	6,0	71	14	49	6,0	14,8	186	57	17 ÷ 44	M6x40	6,1	6	90°
953 **953B** **953SS**	0,40 0,43 0,40	210	60	12	25,7	40	7,6	12,9	16	6	6,0	3,0	79	17	51	6,9	9,1	234	81	28 ÷ 67	M8x55	7,5	8	90°
954 **954B**	0,84 0,88	320	75	15	40,8	57	7,8	20,5	20	8	6,0	4,0	99	20	61	7,4	9,5	301	106	33 ÷ 91	M8x65	8,6	8	90°
956 **956B**	1,50 1,56	500	90	18	49,0	67	9,0	41,4	24	10	8,0	5,0	122	25	85	10,5	16,3	359	131	42 ÷ 112	M10x90	8,8	10	90°

If there are several types of clamps in one row of the table, there may also be several values in the appropriate columns corresponding to the dimensions in the technical drawing. The values are assigned to the appropriate clamp. If there is one value in a given column, it corresponds to all types of clamps given in the first column (No.) of the given row.

We reserve the right to make any changes without notice.

10. HORIZONTAL SIDE TOGGLE CLAMP

The clamp is made of galvanized structural steel (the clamp from the **SS** group is made entirely of stainless steel). Pins made of stainless steel are mounted in thermochemically improved knurled sleeves. The two-component flexible handle is made of plastic and elastomer.

The workpiece is fixed when the handle is horizontal.

B - clamp with additional protection (handle immobilization).

Clamps with additional protection have a lever securing against:
- automatic lowering of the handle and presser in open clamps (e.g. when changing the workpiece),
- accidental opening of the handle during clamping or processing of the workpiece.

Before opening the clamp or before closing, first press the red latch lever with your thumb. Holding it and embracing the clamp handle with your whole hand, lift it up or lower it down.

The set includes :
- clamp,
- class 8.8 clamping screw with two nuts (for stainless clamps from the **SS** group - clamping screws and nuts made of stainless steel),
- clamping ring in the amount of 2 pieces,
- 1 rubber cap.

922, 022, 923, 924
Horizontal side clamp



923B, 924B
Horizontal side clamp with additional protection



923SS
Stainless steel horizontal side clamp



Accessories

Bi-thrust beam



p. 56

Set screw with plate springs



p. 57

Self-aligning set screw



p. 57

Set screw with a vulcanized beam flange



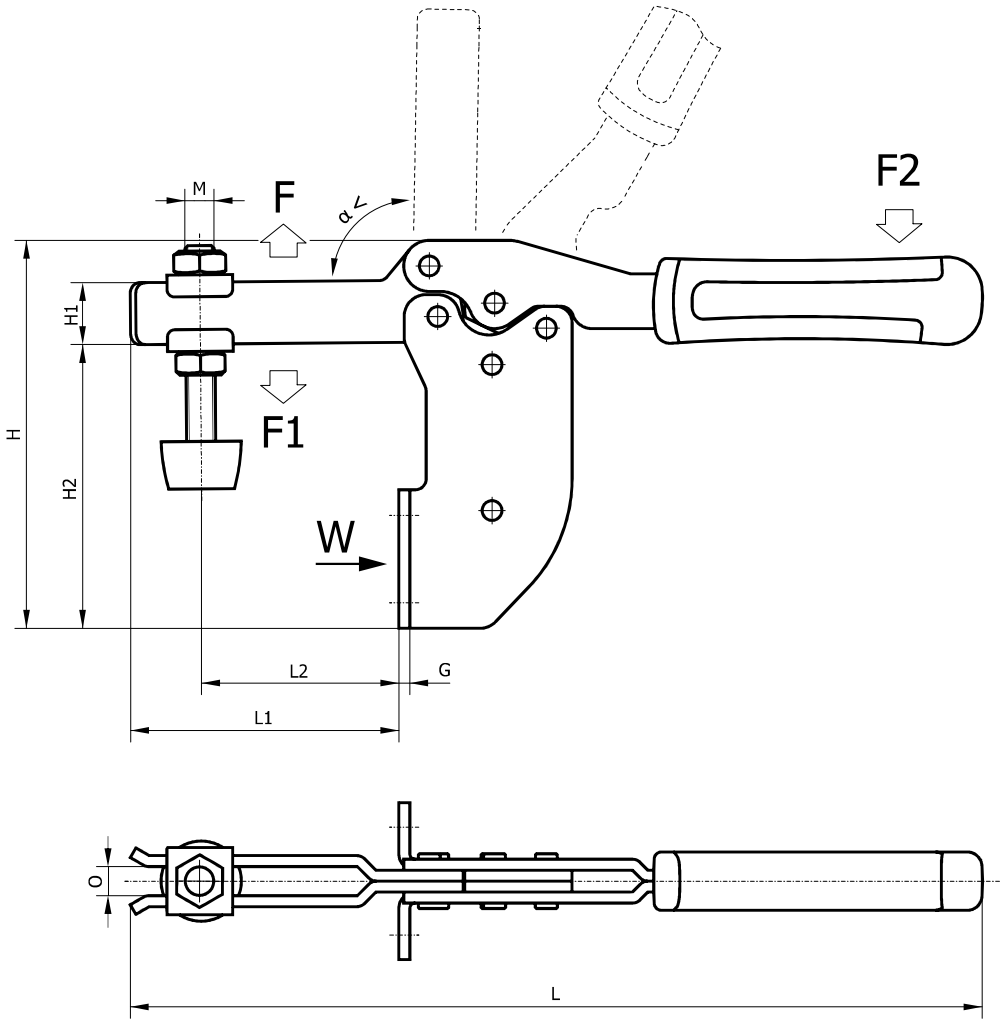
p. 57

Set screw with a flexible beam

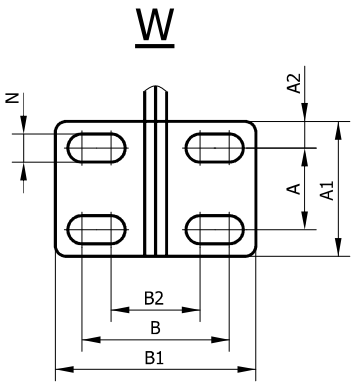


p. 58

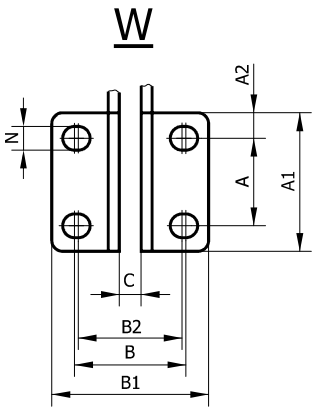
We reserve the right to make any changes without notice.



Base
022



Base
922, 923, 924
923B, 924B
923SS



No.	[kg]	F [daN]	F1 [daN]	F2 [daN]	A	A1	A2	B	B1	B2	C	G	H	H1	H2	L	L1	L2	M	N	O	α
922	0,24	130	35	9	20,0	32	6,0	27,5	38	25,5	5,0	2,5	80	13	60	163	55	15 ÷ 43	M6x35	5,5	6	90°
022	0,35	150	55	9	22,4	37	7,3	40,4	55	24,4	---	3,0	98	14	76	186	51	10 ÷ 38	M6x40	7,7	6	90°
923 **923B** **923SS**	0,48 0,51 0,48	210	60	12	24,0	38	7,0	30,5	43	28,5	6,0	3,0	106	17	78	234	74	21 ÷ 59	M8x55	6,5	8	90°
924 **924B**	1,00 1,06	320	75	15	32,0	52	10,0	35,5	52	32,0	8,0	4,0	136	20	98	301	96	22 ÷ 81	M8x65	8,5	8	90°

If there are several types of clamps in one row of the table, there may also be several values in the appropriate columns corresponding to the dimensions in the technical drawing. The values are assigned to the appropriate clamp. If there is one value in a given column, it corresponds to all types of clamps given in the first column (No.) of the given row.

We reserve the right to make any changes without notice.

11. HORIZONTAL TOGGLE CLAMP WITH VARIABLE HEIGHT

The clamp is made of galvanized structural steel. Stainless steel pins are embedded in thermochemically improved knurled sleeves. The two-component flexible handle is made of plastic and elastomer.

The workpiece is clamped when the handle is horizontal.

B - clamp with additional protection (handle immobilization).

Clamps with additional protection have a lever that protects against:
- automatic drop of the handle and presser in open clamps (e.g. when changing the workpiece),
- accidental opening of the handle while clamping or processing the workpiece.

Before opening the clamp or closing it, first press the red latch lever with your thumb. Holding it and embracing the clamp handle with your whole hand, lift it up or lower it down.

The set includes:
- pressure,
- class 8.8 pressure screw with two nuts,
- clamping ring in the amount of 2 pieces,
- 1 rubber cap.

963, 964, 966
Variable height horizontal clamp



963B, 964B, 966B
Variable height horizontal clamp with additional protection



Accessories

Bi-thrust beam



p. 56

Set screw with plate springs



p. 57

Self-aligning set screw



p. 57

Set screw with a vulcanized beam flange



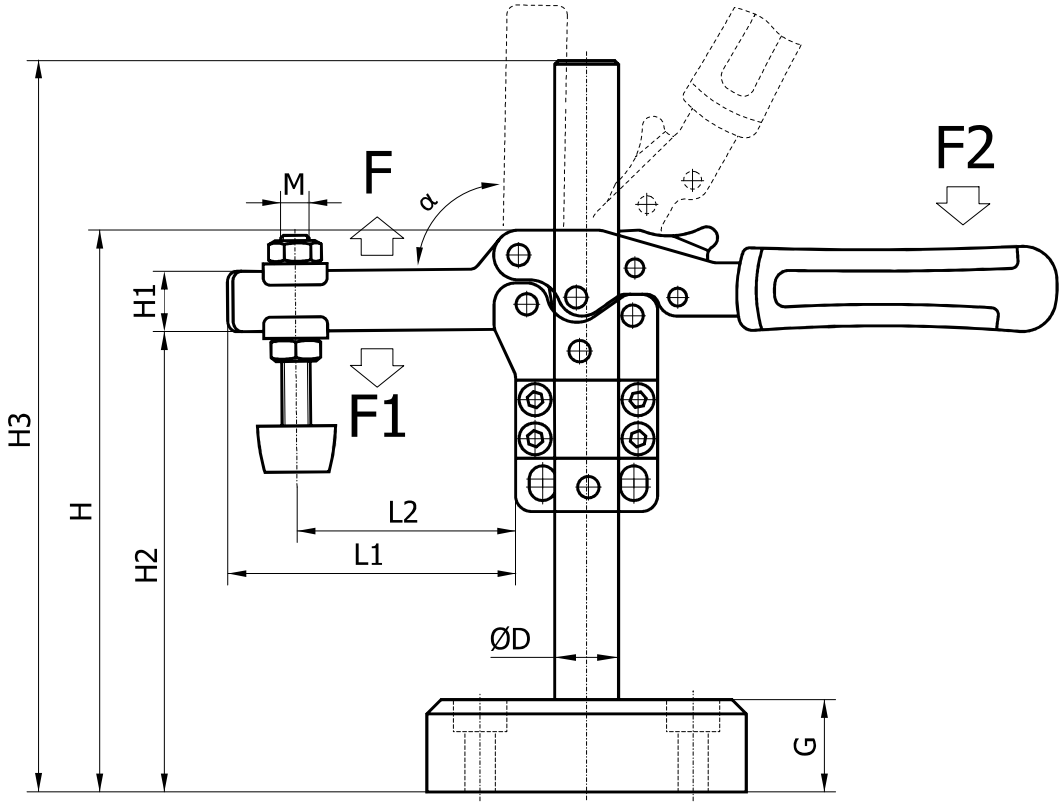
p. 57

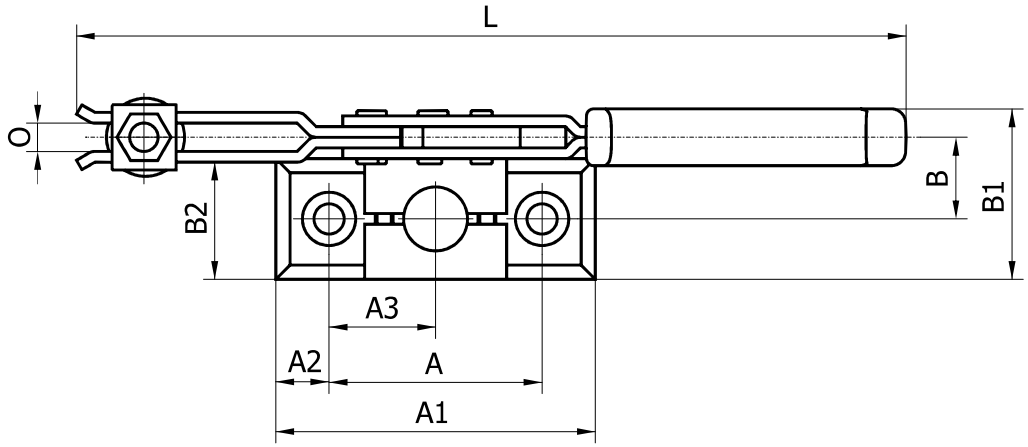
Set screw with a flexible beam

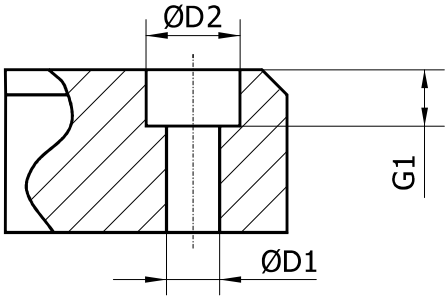


p. 58

We reserve the right to make any changes without notice.







Nr	ØD1	ØD2	G1
963 **963B**	8,5	15,0	9,0
964 **964B**	12,5	19,0	12,5
966 **966B**	16,5	25,0	18,0

No.	[kg]	F [daN]	F1 [daN]	F2 [daN]	A	A1	A2	A3	B	B1	B2	G	H	H1	H2	H3	L	L1	L2	ØD	M	O	α
963 **963B**	1,40 1,43	210	60	12	60	90	15,0	30	23	49	34	26	90 ÷ 248	17	64 ÷ 222	206	234	81	28 ÷ 66	8,5	M8x55	8	90°
964 **964B**	2,80 2,85	320	75	15	74	115	20,5	37	27	58	38	30	115 ÷ 274	20	78 ÷ 237	225	301	106	33 ÷ 90	12,5	M8x65	8	90°
966 **966B**	4,08 4,20	500	90	18	90	140	25,0	45	29	62	38	36	139 ÷ 277	25	128 ÷ 266	216	359	131	41 ÷ 111	16,5	M10x90	10	90°

If there are several types of clamps in one row of the table, there may also be several values in the appropriate columns corresponding to the dimensions in the technical drawing. The values are assigned to the appropriate clamp. If there is one value in a given column, it corresponds to all types of clamps given in the first column (No.) of the given row.

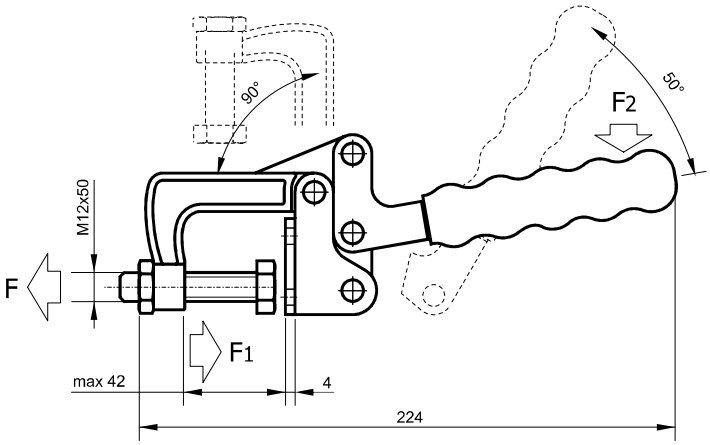
We reserve the right to make any changes without notice.

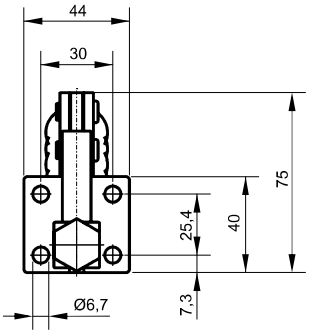
12. REVERSED HORIZONTAL CLAMP

This clamp enables the workpiece to be processed in two opposite planes.

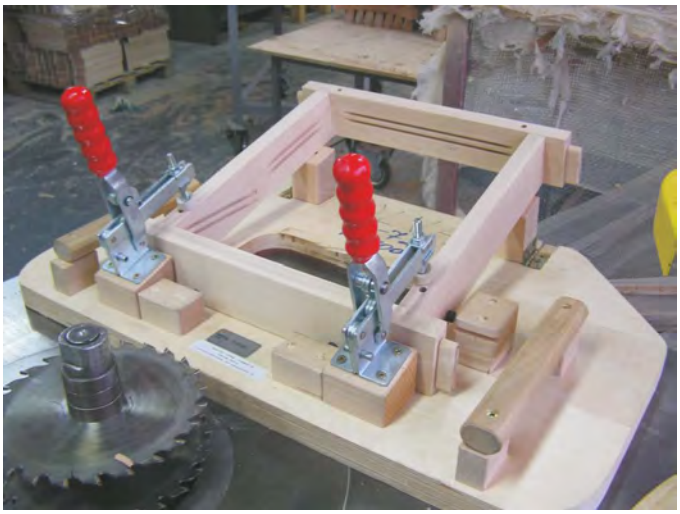
No.	[kg]	F [daN]	F1 [daN]	F2 [daN]
077	0,56	360	115	24











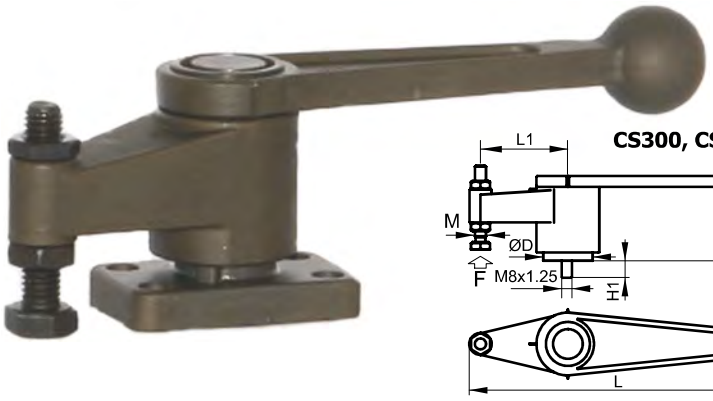


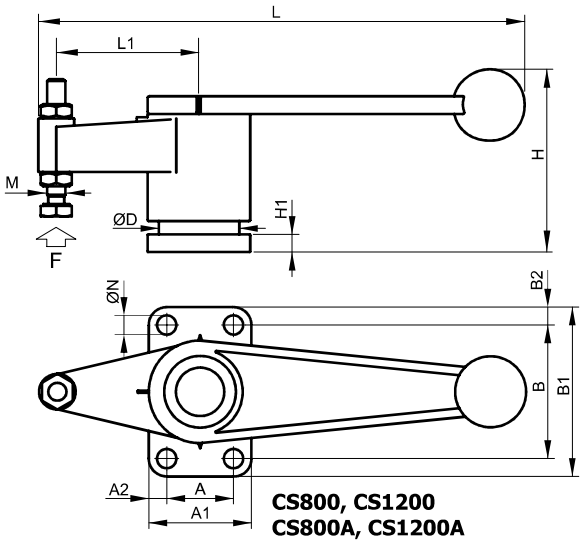


We reserve the right to make any changes without notice.

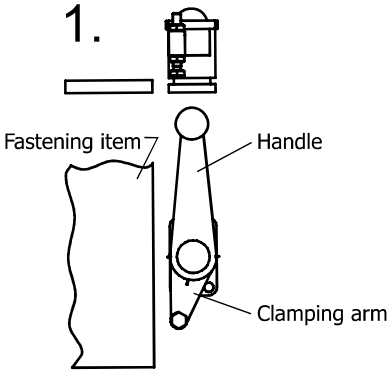
13. ADJUSTABLE ROTARY CLAMPS

CS300, CS800, CS1200
CS300A, CS800A, CS1200A

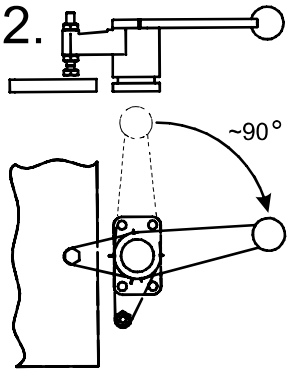




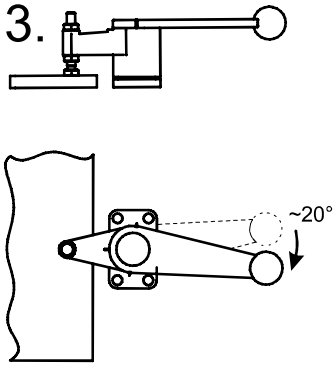
No.	[kg]	F [daN]	A	A1	A2	B	B1	B2	øD	H	H1	L	L1	M	ØN
CS300 CS300A	0,20	300	---	---	---	---	---	---	18	38	10	111	32	M6x25	---
CS800 CS800A	0,40	800	18	30	6	36	48	6	28	54	7,5	150	42	M8x40	6,3
CS1200 CS1200A	0,90	1200	25	40	7,5	50	65	7,5	37	77	10	200	55	M10x55	8,3



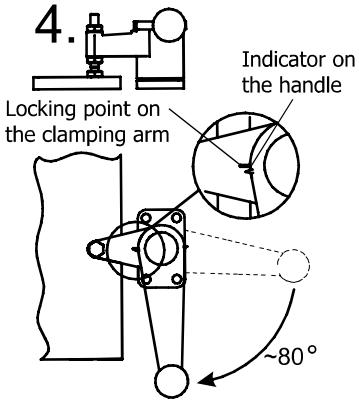
1. The clamp is in the initial position.



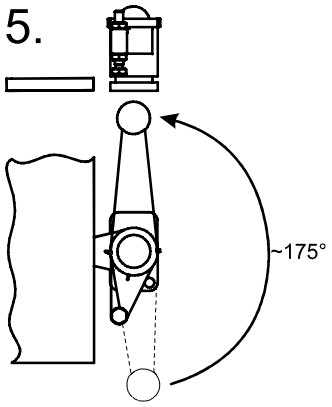
2. After turning the handle by about 90°, the presser is positioned above the workpiece.



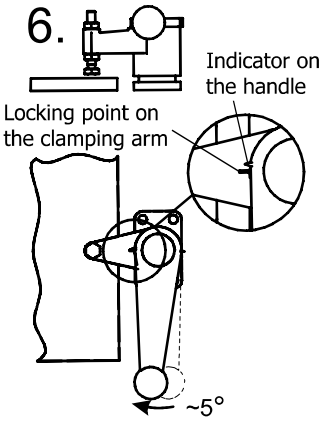
3. We obtain initial fixing of the workpiece after moving the handle by another about ~20°.



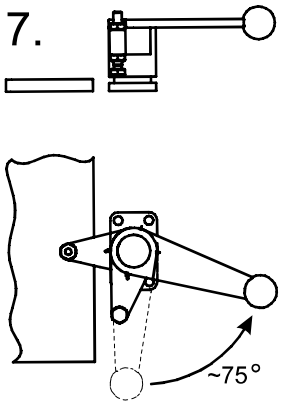
4. Turning by another about 80° results in rigid fixing of the workpiece (indicator before the locking point).



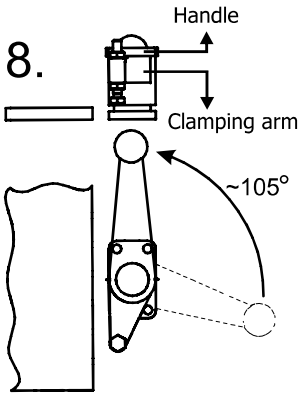
5. Release of the fixing and return of the presser to the initial position.



6. After exceeding the locking point, we obtain a sudden release of the fixing.



7. Return movement of the handle by about 75° results in the presser returning to the initial position.



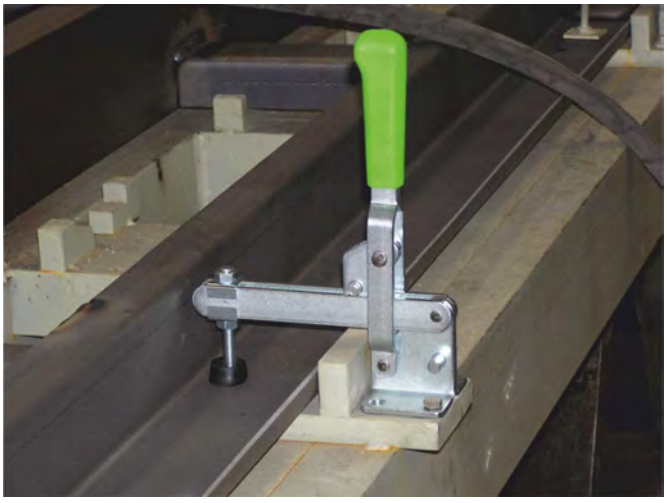
8. In order for the presser to return to the initial position, the presser must be lowered down while simultaneously lifting the handle up and turning it by about 105°.

We reserve the right to make any changes without notice.

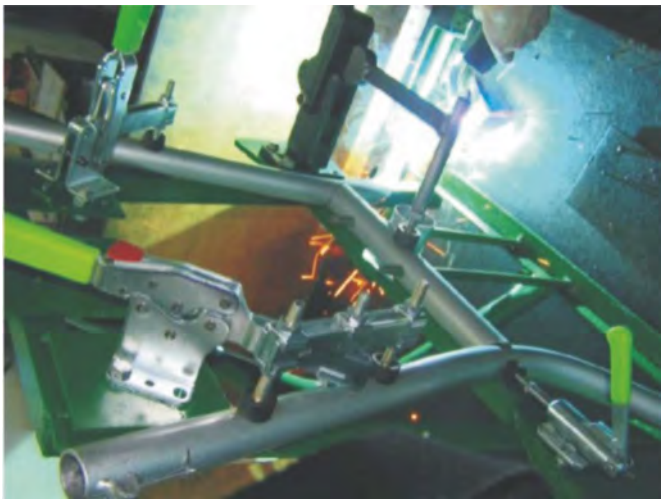
















We reserve the right to make any changes without notice.

III. Vertical quick-clamping toggle clamps

All QUICK-CLAMPING CLAMPS manufactured by our company are self-locking thanks to the use of a locking mechanism inside the clamp, called a knee lever, which allows rigid, strong, repeatable and fast clamping of workpieces. The locking is achieved in the extreme vertical position of the handle.

QUICK-CLAMPING CLAMPS are mainly used in devices: welding, drilling, assembly, milling, in the processing of wood, metal, plastics and other materials.

The clamps are made of galvanized steel elements, connected with hardened sleeves and stainless pins. The two-component flexible handle is made of plastic and elastomer. The handle is resistant to acids, alkalis, detergents, oils and solvents.

Safety clamps have an additional lever to protect against:
- accidental opening of the handle while clamping or processing an item.

Clamps with additional handle protection are marked by adding the letter **B** in the numbering.

Before opening the above-mentioned clamp or before closing it, you must first press the red latch lever. While holding it and encircling the clamp handle with your whole hand, lift it up to a vertical position or lower it down to a horizontal position.

Clamps made entirely of stainless steel, are marked by adding the letters **SS** in the numbering. Pins are mounted in thermo-chemically improved knurled sleeves.

There are three forces in the drawings:

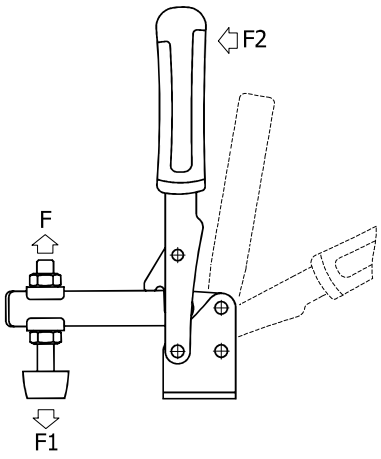
Force F (action) - originating from the forces generated during processing.

Force F1 (pressing) - derived from force F2 and proportional to it, also derived from the internal knee mechanism, being a reaction to force F. Additionally, the knee mechanism ensures a lock in the closed position of the quick-clamping clamp.

Force F2 (closing / opening) - derived from the force of the operator's hand or from the pneumatic actuator.

The forces presented in the tables are given in units of **daN**.

1 [kG] ≈ 1 [daN] = 10 [N]



Connector
Galvanized, made from stuctural steel.

Clamping arm
Galvanized, made from stuctural steel.

Open ends of the clamping arm
Prevents from losing / sliding off the clamping screw.

Clamping setscrew
Clamping setscrew 8.8 class with flanged washers, nuts and rubber cover.



Two-component flexible handle
Flexible handle made of plastic and elastomer. Flexible handle grip is fitted on galvanized arm made of structural steel.

Clamping arm
Clamps except internal locking lever has additional protection.

Stainless steel pin and knurled bushing
The pin is made of stainless steel embedded in the hardened knurled bushing.

Base
Galvanized, made from stuctural steel

We reserve the right to make any changes without notice.

14. VERTICAL TOGGLE CLAMP

The clamp is made of galvanized structural steel (the clamp from the **SS** group is made entirely of stainless steel). Pins made of stainless steel are mounted in thermochemically improved knurled sleeves. The two-component flexible handle is made of plastic and elastomer.

The workpiece is fixed when the handle is horizontal.

B - clamp with additional protection (handle immobilization).

Clamps with additional protection have a lever securing against:
- automatic lowering of the handle and presser in open clamps (e.g. when changing the workpiece),
- accidental opening of the handle during clamping or processing of the workpiece.

Before opening the clamp or before closing, first press the red latch lever with your thumb. Holding it and embracing the clamp handle with your whole hand, lift it up or lower it down.

The set includes :
- clamp,
- class 8.8 clamping screw with two nuts (for stainless clamps from the **SS** group - clamping screws and nuts made of stainless steel),
- clamping ring in the amount of 2 pieces,
- rubber cap in the amount of 1 piece.

801, 802, 112, 803, 804, 806
Vertical clamp



803B, 804B, 806B
Vertical clamp with additional protection



803SS
Stainless steel vertical clamp



Accessories

Bi-thrust beam



p. 56

Set screw with plate springs



p. 57

Self-aligning set screw



p. 57

Set screw with a vulcanized beam flange



p. 57

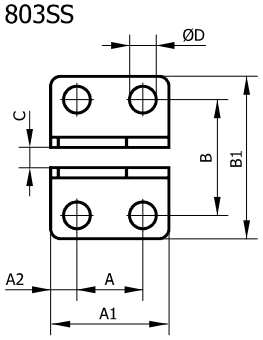
Set screw with a flexible beam



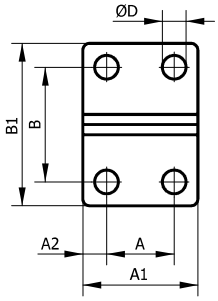
p. 58

We reserve the right to make any changes without notice.

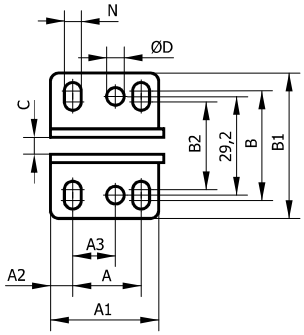
Base
801, 803, 804
803B
803SS



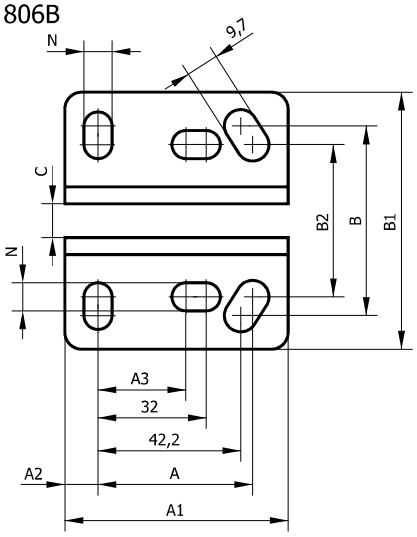
Base
112

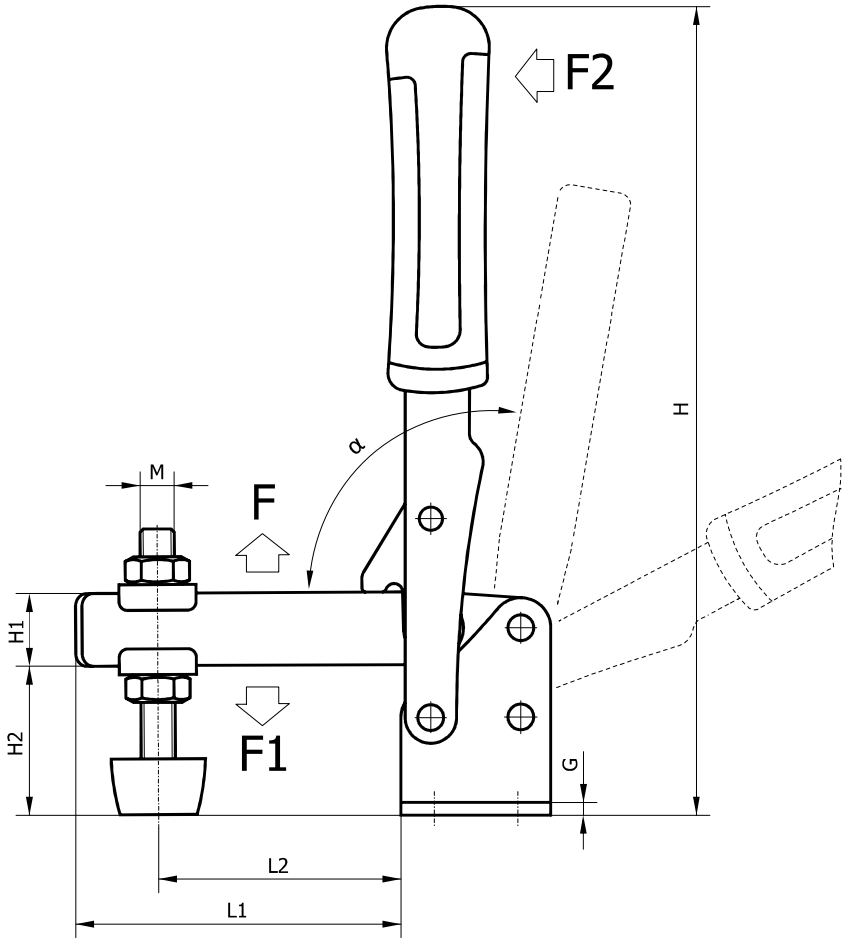


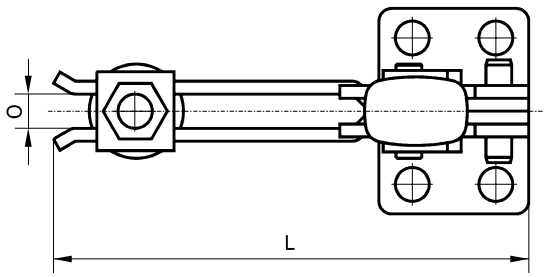
Base
802



Base
806
806B







No.	[kg]	F [daN]	F1 [daN]	F2 [daN]	A	A1	A2	A3	B	B1	B2	C	ØD	G	H	H1	H2	L	L1	L2	M	N	O	α
801	0,11	90	40	6	16,0	26,0	5,3	---	24,6	35	---	4	4,9	2,0	107	10	20	62	36	12 ÷ 26	M5x30	---	5	100°
802	0,20	130	70	9	20,2	32,0	6,6	12,6	32,4	43	26	5	5,2	2,5	132	13	24	80	47	13 ÷ 35	M6x35	5	6	100°
112	0,37	150	65	9	20,0	34,0	7,0	---	33,9	48	---	---	7,0	3,0	176	14	28	96	62	19 ÷ 49	M6x40	---	6	102°
803 **803B** **803SS**	0,40 0,44 0,40	210	90	12	19,5	35,0	7,8	---	34,2	48	---	6	7,9	3,0	189	17	35	111	76	19 ÷ 61	M8x55	---	8	90°
804 **804B**	0,84 0,90	320	130	15	32,0	49,5	9,0	---	45,1	63	---	8	8,9	4,0	239	20	46	151	102	19 ÷ 87	M8x65	---	8	90°
806 **806B**	1,58 1,67	500	150	18	45,7	66,0	9,8	26,0	56,0	76	45	10	---	5,0	278	25	55	203	137	24 ÷ 117	M10x90	8,3	10	90°

If there are several types of clamps in one row of the table, there may also be several values in the appropriate columns corresponding to the dimensions in the technical drawing. The values are assigned to the appropriate clamp. If there is one value in a given column, it corresponds to all types of clamps given in the first column (No.) of the given row.

We reserve the right to make any changes without notice.

15. VERTICAL TOGGLE CLAMP WITH STRAIGHT BASE

The clamp is made of galvanized structural steel (the clamp from the **SS** group is made entirely of stainless steel). Pins made of stainless steel are mounted in thermochemically improved knurled sleeves. The two-component flexible handle is made of plastic and elastomer.

The workpiece is fixed when the handle is horizontal.

B - clamp with additional protection (handle immobilization).

Clamps with additional protection have a lever securing against:
- automatic lowering of the handle and presser in open clamps (e.g. when changing the workpiece),
- accidental opening of the handle during clamping or processing of the workpiece.

Before opening the clamp or before closing, first press the red latch lever with your thumb. Holding it and embracing the clamp handle with your whole hand, lift it up or lower it down.

The set includes :
- clamp,
- class 8.8 clamping screw with two nuts (for stainless clamps from the **SS** group - clamping screws and nuts made of stainless steel),
- clamping ring in the amount of 2 pieces,
- rubber cap in the amount of 1 piece.

851, 852, 152, 853, 854, 856
Vertical clamp with straight base



853B, 854B, 856B
Vertical clamp with straight base and additional protection



853SS
Vertical clamp with straight base made of stainless steel



Accessories

Bi-thrust beam



p. 56

Set screw with plate springs



p. 57

Self-aligning set screw



p. 57

Set screw with a vulcanized beam flange



p. 57

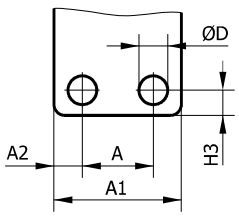
Set screw with a flexible beam



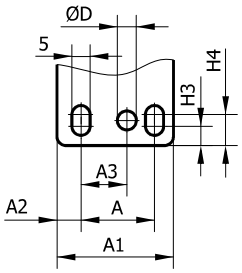
p. 58

We reserve the right to make any changes without notice.

Base
851, 152, 853, 854
853B, 854B
853SS

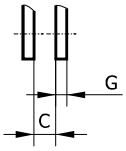


Base
852

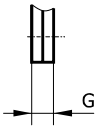


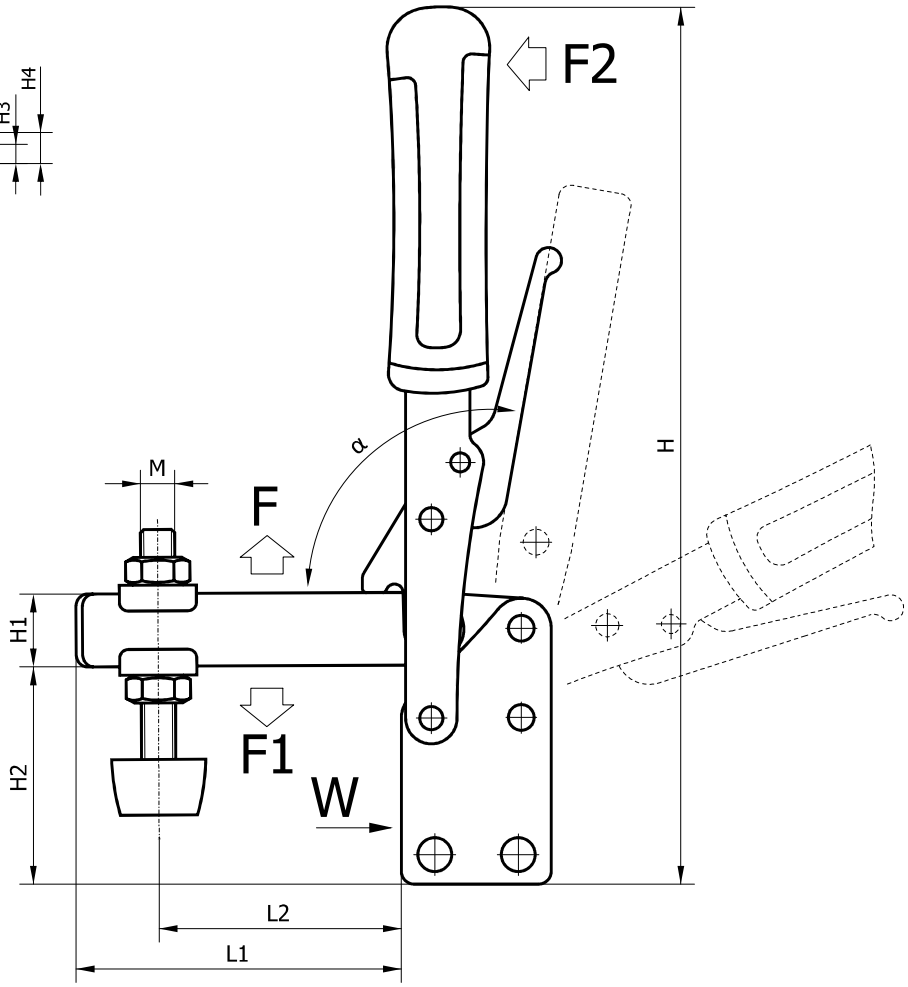
Base
851, 852, 853, 854, 856
853B, 854B, 856B
853SS

W

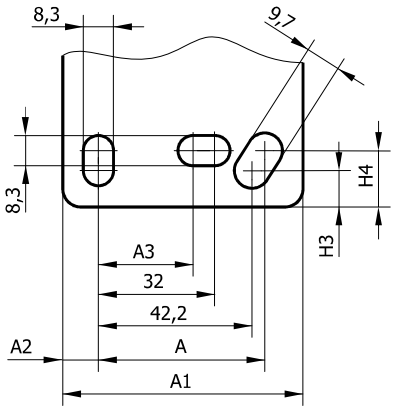


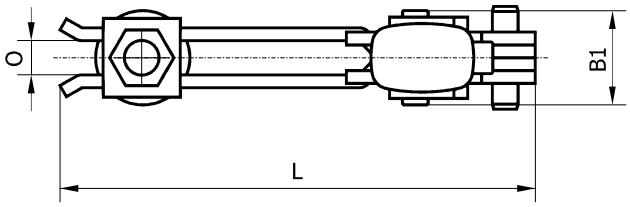
Base
152





Base
856
856B





No.	[kg]	F [daN]	F1 [daN]	F2 [daN]	A	A1	A2	A3	B1	C	ØD	G	H	H1	H2	H3	H4	L	L1	L2	M	O	α
851	0,11	90	40	6	16,0	26,0	5,3	---	16	4	5,3	2,0	119	10	32	5,2	---	62	36	12 ÷ 26	M5x30	5	100°
852	0,22	130	70	9	20,2	32,0	6,6	12,6	19	5	5,2	2,5	147	13	39	5,3	8,5	79	47	13 ÷ 35	M6x35	6	100°
152	0,37	150	65	9	20,0	34,0	7,0	---	24	---	7,0	6,0	195	14	47	7,0	---	96	62	19 ÷ 49	M6x40	6	102°
853 **853B** **853SS**	0,40 0,44 0,40	210	90	12	19,5	35,0	7,8	---	24	6	7,9	3,0	205	17	51	6,9	---	111	76	19 ÷ 61	M8x55	8	90°
854 **854B**	0,84 0,90	320	130	15	32,0	49,5	9,0	---	30	8	8,9	4,0	260	20	67	9,0	---	151	102	19 ÷ 87	M8x65	8	90°
856 **856B**	1,58 1,67	500	150	18	45,7	66	9,8	26,0	36	10	---	5,0	304	25	81	10,0	15,5	203	137	24 ÷ 117	M10x90	10	90°

If there are several types of clamps in one row of the table, there may also be several values in the appropriate columns corresponding to the dimensions in the technical drawing. The values are assigned to the appropriate clamp. If there is one value in a given column, it corresponds to all types of clamps given in the first column (No.) of the given row.

We reserve the right to make any changes without notice.

16. SIDE VERTICAL TOGGLE CLAMP

The clamp is made of galvanized structural steel (the clamp from the **SS** group is made entirely of stainless steel). Pins made of stainless steel are mounted in thermochemically improved knurled sleeves. The two-component flexible handle is made of plastic and elastomer.

The workpiece is fixed when the handle is horizontal.

B - clamp with additional protection (handle immobilization).

Clamps with additional protection have a lever securing against:
- automatic lowering of the handle and presser in open clamps (e.g. when changing the workpiece),
- accidental opening of the handle during clamping or processing of the workpiece.

Before opening the clamp or before closing, first press the red latch lever with your thumb. Holding it and embracing the clamp handle with your whole hand, lift it up or lower it down.

The set includes :
- clamp,
- class 8.8 clamping screw with two nuts (for stainless clamps from the **SS** group - clamping screws and nuts made of stainless steel),
- clamping ring in the amount of 2 pieces,
- 1 rubber cap.

822, 823, 824
Vertical side clamp



823B, 824B
Vertical side clamp with additional protection



823SS
Vertical side clamp made of stainless steel



Accessories

Bi-thrust beam



p. 56

Set screw with plate springs



p. 57

Self-aligning set screw



p. 57

Set screw with a vulcanized beam flange



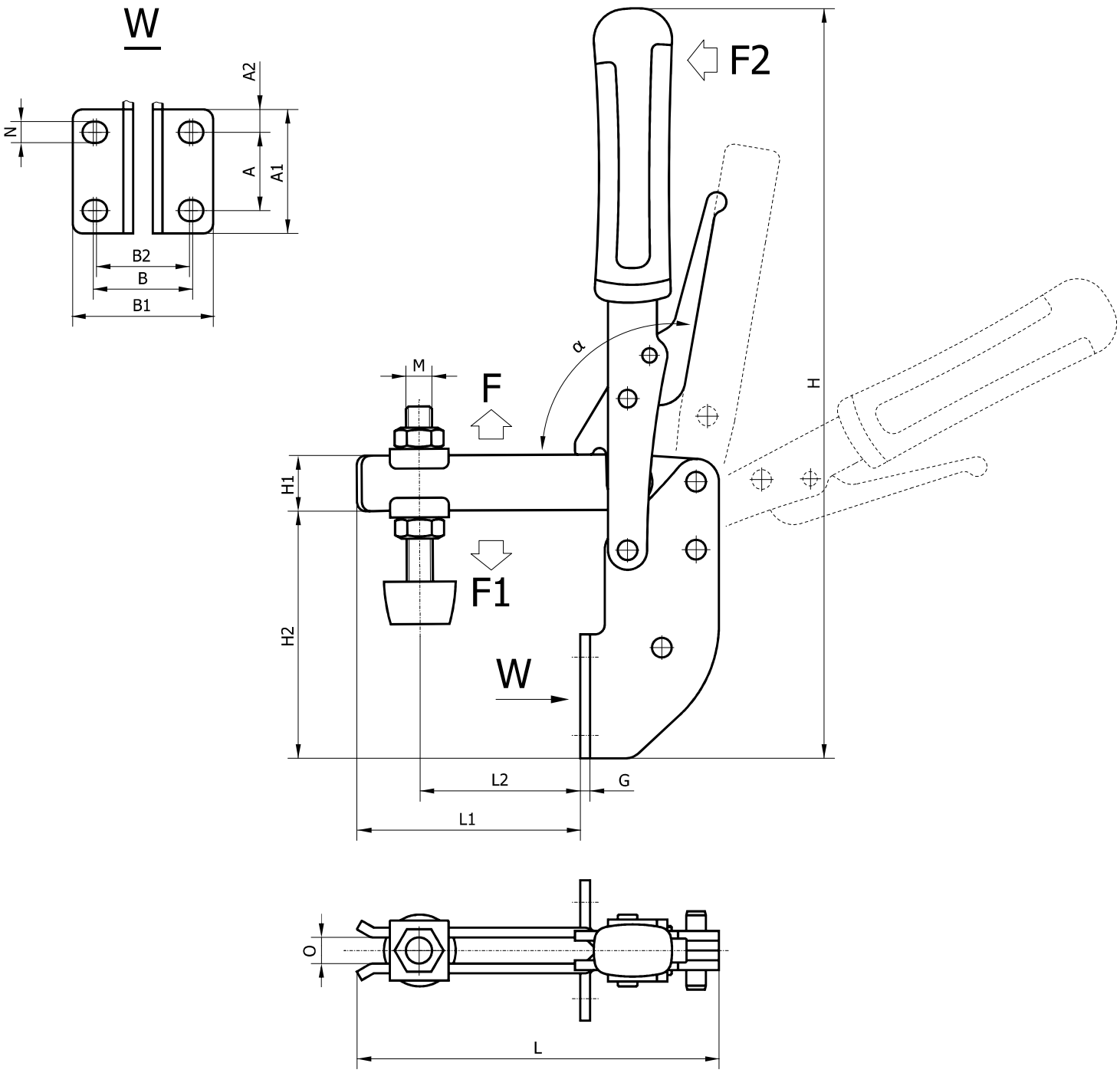
p. 57

Set screw with a flexible beam



p. 58

We reserve the right to make any changes without notice.



No.	[kg]	F [daN]	F1 [daN]	F2 [daN]	A	A1	A2	B	B1	B2	G	H	H1	H2	L	L1	L2	M	N	O	α
822	0,25	130	70	9	20	32	6	27,5	38	25,5	2,5	166	13	59	80	40	7 ÷ 29	M6x35	5,5	6	91°
823 **823B** **823SS**	0,47 0,50 0,47	210	90	12	24	38	7	30,5	43	28,5	3,0	230	17	76	111	68	11 ÷ 54	M8x55	6,5	8	91°
824 **824B**	0,90 1,00	320	130	15	32	52	10	35,5	52	32,0	4,0	295	20	102	151	92	9 ÷ 77	M8x65	8,5	8	91°

If there are several types of clamps in one row of the table, there may also be several values in the appropriate columns corresponding to the dimensions in the technical drawing. The values are assigned to the appropriate clamp. If there is one value in a given column, it corresponds to all types of clamps given in the first column (No.) of the given row.

We reserve the right to make any changes without notice.

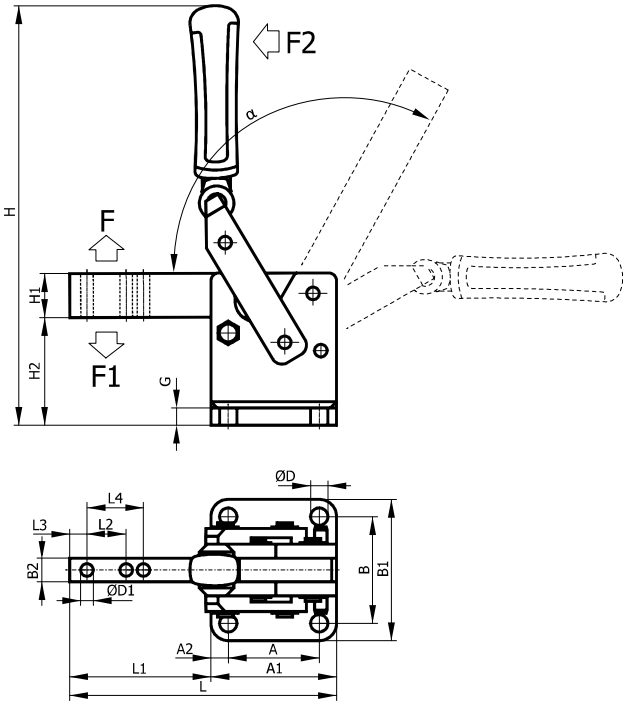
17. REINFORCED VERTICAL TOGGLE CLAMP

211, 213, 215, 217

These clamps are able to withstand heavy loads. They are made of blackened steel, have PTFE sliding sleeves, and the pins are hardened and ground.

The workpiece is clamped when the handle is vertical.





No.	[kg]	F [daN]	F1 [daN]	F2 [daN]	A	A1	A2	B	B1	B2	øD	øD1	G	H	H1	H2	L	L1	L2	L3	L4	α
211	0,46	300	70	9	28	40	6	34	46	10	6	5	6	143	14	35	85	45	10	6	---	120°
213	1,50	700	130	12	46	64	9	54	72	12	9	6	9	220	22	56	136	72	20	8	---	119°
215	2,92	1200	150	15	58	80	11	68	90	15	11	8	11	268	28	69	170	90	25	11	36	118°
217	5,80	2300	200	18	76	100	12	76	104	20	13	10	13	326	36	87	216	116	32	14	46	117°

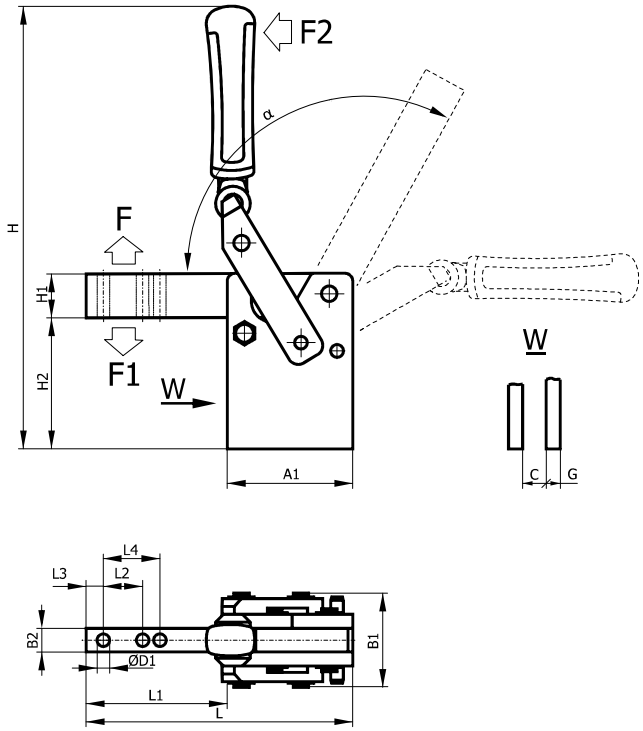
18. REINFORCED VERTICAL TOGGLE CLAMP WITH STRAIGHT POSITION

251, 253, 255, 257

These clamps are able to withstand heavy loads. They are made of blackened steel, have PTFE sliding sleeves, and the pins are hardened and ground.

The workpiece is clamped when the handle is vertical.





No.	[kg]	F [daN]	F1 [daN]	F2 [daN]	A1	C	B1	B2	øD1	G	H	H1	H2	L	L1	L2	L3	L4	α
251	0,43	300	70	9	40	10	35	10	5	5	153	14	45	85	45	10	6	---	120°
253	1,50	700	130	12	64	12	48	12	6	7	238	22	74	136	72	20	8	---	119°
255	2,90	1200	150	15	80	15	59	15	8	9	283	28	84	170	90	25	11	36	118°
257	5,90	2300	200	18	100	20	71	20	10	11	353	36	112	216	116	32	14	46	117°

We reserve the right to make any changes without notice.

19. COMPLETE STRONG VERTICAL TOGGLE CLAMP

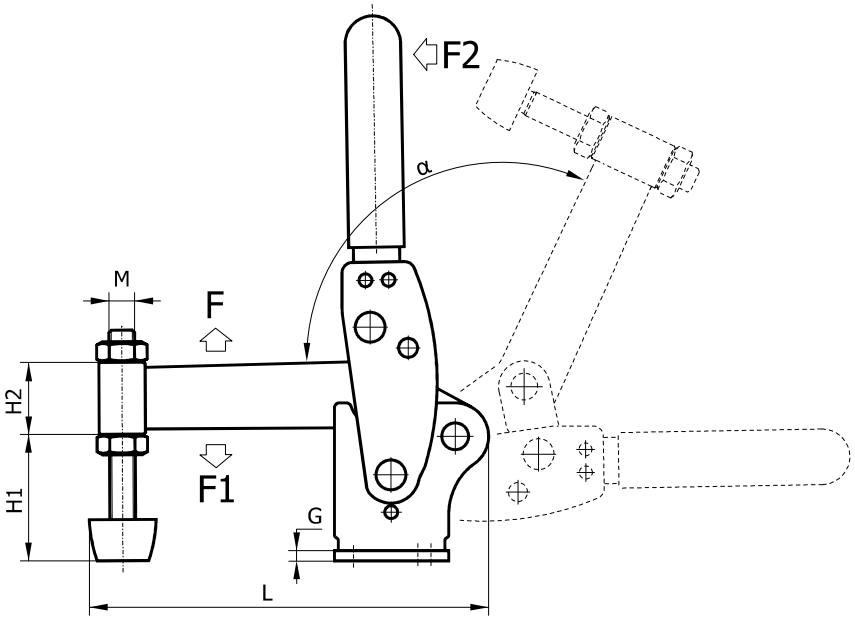
292, 294, 296, 298, 299

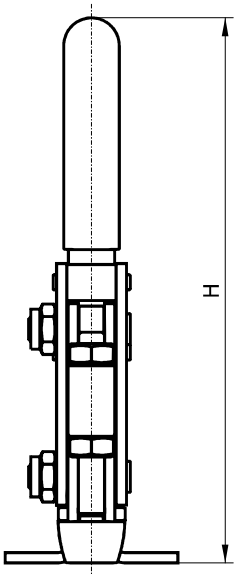


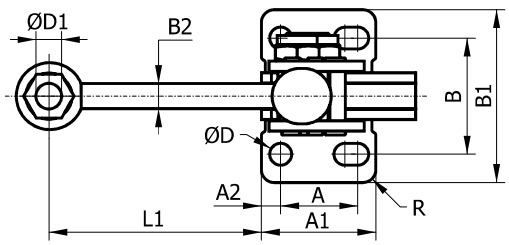
These clamps can withstand heavy loads. They are made of blackened steel, have heat-treated knurled sleeves, and the pins are hardened and ground.

The workpiece is secured when the handle is vertically.

Set includes:
- clamp,
- class 8.8 clamping screw with two nuts,
- 1 rubber cap.







No.	[kg]	F [daN]	F1 [daN]	F2 [daN]	A	A1	A2	B	B1	B2	ØD	ØD1	G	H	H1	H2	L	L1	M	α	R
292	0,40	250	70	9	20	33,0	6,5	32	50	7,8	6,1	8	3	134	32,5	20	86,5	35,0	M8x50	116°	3
294	1,18	500	130	12	30	44,5	7,5	45	67	9,8	8,5	10	4	212	50,0	28	155,0	82,5	M10x75	116°	5
296	2,41	1000	150	15	45	65,0	10,0	52	81	11,8	11,0	12	6	253	63,5	36	188,0	100,0	M12x100	116°	7
298	4,91	2000	170	18	55	85,0	15,0	82	119	14,0	12,5	12	8	324	72,0	40	234,0	120,0	M12x125	116°	10
299	8,77	2800	190	20	60	100,0	20,0	108	145	16,0	12,5	16	10	397	104,0	50	289,0	140,0	M16x150	116°	15

We reserve the right to make any changes without notice.

20. COMPLETE STRON VERTICAL CLAMP WITH STRAIGHT BASE

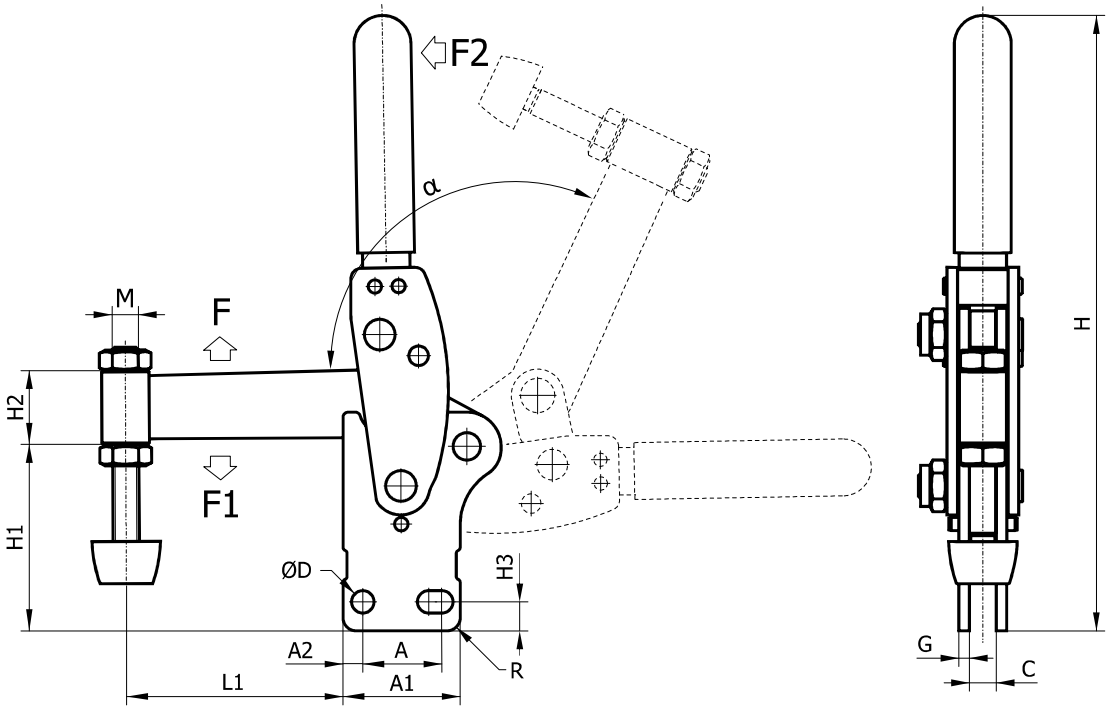
282, 284, 286, 288, 289

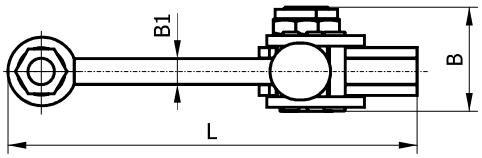


These clamps can withstand heavy loads. They are made of blackened steel, have heat-treated knurled sleeves, and the pins are hardened and ground.

The workpiece is secured when the handle is vertically.

Set includes:
- clamp,
- class 8.8 clamping screw with two nuts,
- 1 rubber cap.





No.	[kg]	F [daN]	F1 [daN]	F2 [daN]	A	A1	A2	B	B1	C	ØD	G	H	H1	H2	H3	L	L1	M	α	R
282	0,40	250	70	9	20	33,0	6,5	29,5	7,8	8,2	6,1	3	150	48,5	20	9,0	86,5	35,0	M8x50	116°	3
284	1,18	500	130	12	30	44,5	7,5	39,5	9,8	10,2	8,5	4	234	71,5	28	11,0	154,0	82,5	M10x75	116°	5
286	2,41	1000	150	15	45	65,0	10	52,0	11,8	12,2	11,0	6	278	87,5	36	14,6	188,0	100,0	M12x100	116°	7
288	4,91	2000	170	18	55	85,0	15	65,0	14,0	15,0	12,5	8	362	110,0	40	18,5	234,0	120,0	M12x125	116°	10
289	8,76	2800	190	20	60	100,0	20	77,0	16,0	17,0	12,5	10	444	151,0	50	18,5	289,0	140,0	M16x150	116°	15

We reserve the right to make any changes without notice.

21. MODULAR CLAMP WITH STRAIGHT BASE

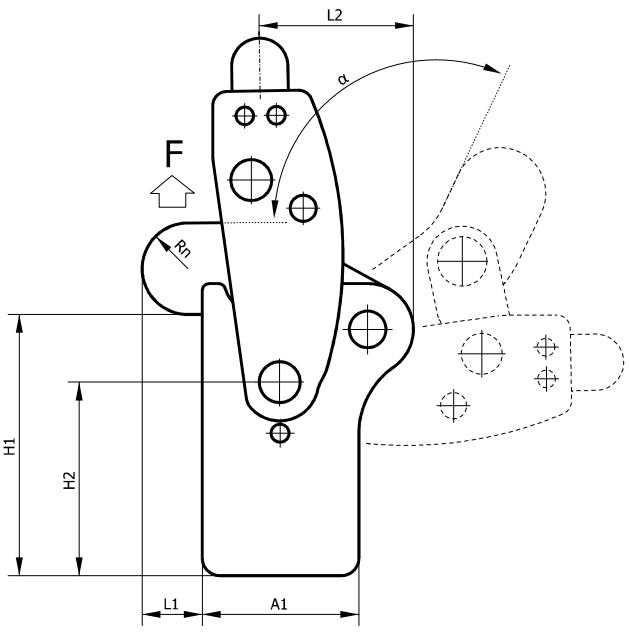
272, 274, 276, 278, 279

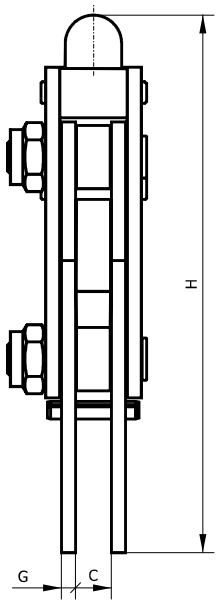


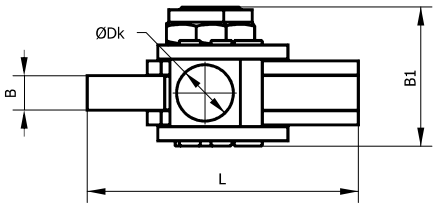
These clamps can withstand heavy loads. They are made of blackened steel, they have heat-treated knurled sleeves, and the pins are hardened and ground.

These types of clamps are used primarily in industrial mass production.

The method of use is presented on page 39.







No.	[kg]	F [daN]	A1	B	B1	C	G	ØDk	H	H1	H2	L	L1	L2	Rn	α
272	0,27	400	33,0	7,8	29,5	8,2	3	10	102	49,5	37,0	52,5	12	30	9	116°
274	0,78	800	44,5	9,8	39,5	10,2	4	16	153	74,5	55,0	77	17	44	13	116°
276	1,77	1400	65,0	11,8	52,0	12,2	6	22	190	101,0	72,0	100	24	55	17	116°
278	3,95	2000	85,0	14,0	65,0	15,0	8	28	241	118,0	86,0	136	34	75	24	116°
279	7,37	3000	100,0	16,0	77,0	17,0	10	28	306	154,0	116,5	177	44	98	30	116°

Accessories

Steel handle



p. 58

Clamping arm



p. 59

Base plate



p. 59

Flexible handle



p. 59

We reserve the right to make any changes without notice.

22. PRECISE MODULAR CLAMP WITH STRAIGHT BASE

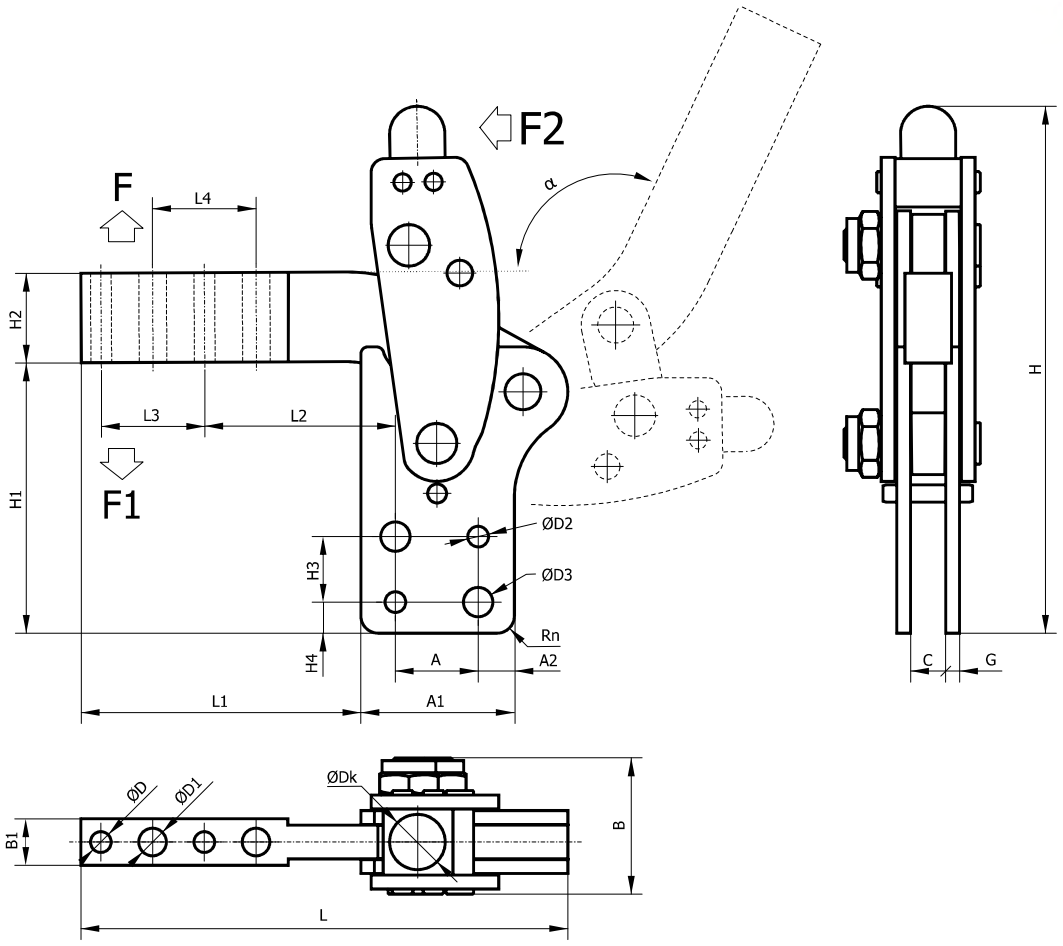
342, 344, 346

These clamps can withstand heavy loads. They are made of blackened steel, they have heat-treated knurled sleeves, and the pins are hardened and ground.

These types of clamps are used primarily in industrial mass production.

The method of use is presented on page 39.





Accessories

Steel handle



p. 58

Flexible handle



p. 59

No.	[kg]	F [daN]	F1 [daN]	F2 [daN]	A [±0,02]	A1	A2	B	B1	C	ØD [H7]	ØD1	ØD2 [H7]	ØD3	ØDk	G	H	H1	H2	H3 [±0,02]	H4	L	L1	L2 [±0,02]	L3 [±0,02]	L4	Rn	α
342	0,31	300	70	17	15	33,0	10,5	29,5	10	8,2	4	5,5	5	6,2	10	3	102	49,5	18	15	5,5	83	42,5	28	16	16	3	116°
344	0,92	600	130	24	24	44,5	10,5	39,5	14	10,2	6	8,0	6	8,5	16	4	153	79,0	26	19	9,0	141	81,0	55	30	30	5	116°
346	1,97	800	150	30	30	65,0	17,5	52,0	16	12,2	6	8,0	6	8,5	22	6	185	99,0	34	30	9,0	167	90,5	70	30	30	7	116°

We reserve the right to make any changes without notice.

23. MODULAR CLAMP WITH PENDULAR BASE

232, 234, 236, 238, 239

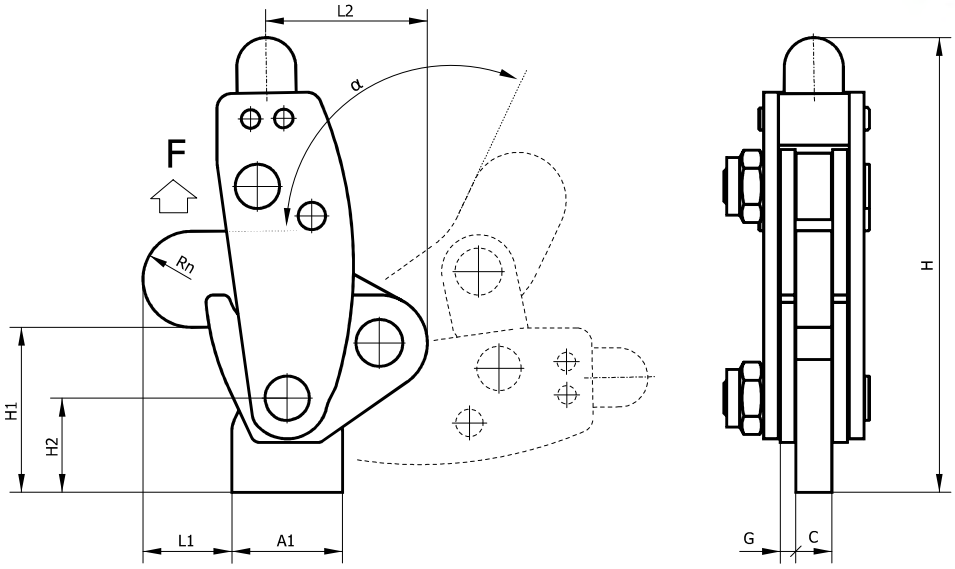
These clamps can withstand heavy loads. They are made of blackened steel, they have heat-treated knurled sleeves, and the pins are hardened and ground.

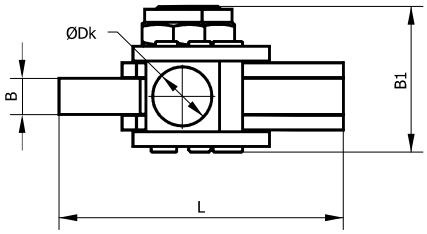
These clamps allow you to secure the workpiece at any angle

These types of clamps are used primarily in industrial mass production.

The method of use is presented on page 39.







No.	[kg]	F [daN]	A1	B	B1	C	G	ØDk	H	H1	H2	L	L1	L2	Rn	α
232	0,24	400	20	7,8	29,5	8,2	3	10	84	31	18,5	53	17	30	9	116°
234	0,69	800	30	9,8	39,5	10,2	4	16	123	45	25,5	77	24	44	13	116°
236	1,50	1400	40	11,8	52,0	12,2	6	22	152	63	34,0	100	32	55	17	116°
238	3,95	2000	50	14,0	65,0	14,0	8	28	195	72	40,0	135	45	73	24	116°
239	6,12	3000	60	16,0	64,0	16,0	10	28	238	85	48,0	177	64	101	30	116°

Accessories

Steel handle



p. 58

Clamping arm



p. 59

Base plate



p. 59

Flexible handle



p. 59

We reserve the right to make any changes without notice.

24. STRONG VERTICAL CLAMP COMPLETE WITH COVER

292C, 294C, 296C

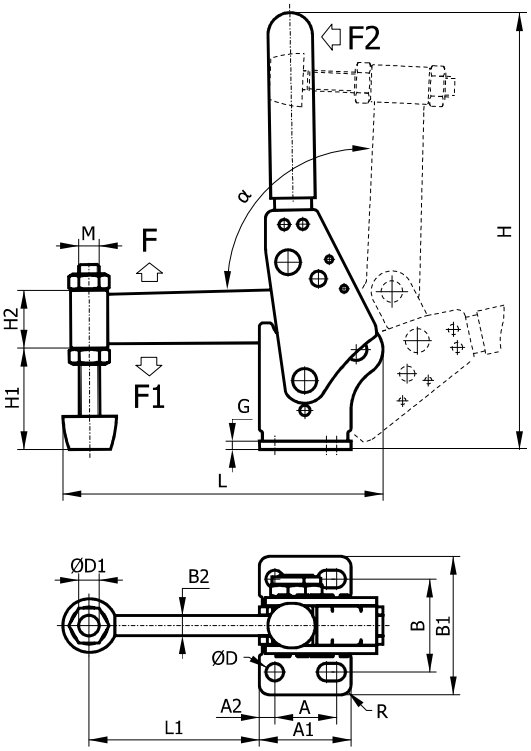
These clamps can withstand heavy loads. They are made of blackened steel, have heat-treated knurled sleeves, and the pins are hardened and ground.

A shield is used to prevent welding spatter.

The workpiece is secured when the handle is vertical.

Set includes :
- clamp,
- class 8.8 clamping screw with two nuts,
- 1 rubber cap.





No.	[kg]	F [daN]	F1 [daN]	F2 [daN]	A	A1	A2	B	B1	B2	ØD	ØD1	G	H	H1	H2	L	L1	M	α	R
292C	0,41	250	70	9	20	33,0	6,5	32	50	7,8	6,1	8	3	134	32,5	20	86,5	35,0	M8x50	94°	3
294C	1,22	500	130	12	30	44,5	7,5	45	67	9,8	8,5	10	4	212	50,0	28	155,0	82,5	M10x75	94°	5
296C	2,50	1000	150	15	45	65,0	10,0	52	81	11,8	11,0	12	6	253	63,5	36	188,0	100,0	M12x100	94°	7

25. STRONG VERTICAL CLAMP COMPLETE WITH A STRAIGHT BASE AND A COVER

282C, 284C, 286C

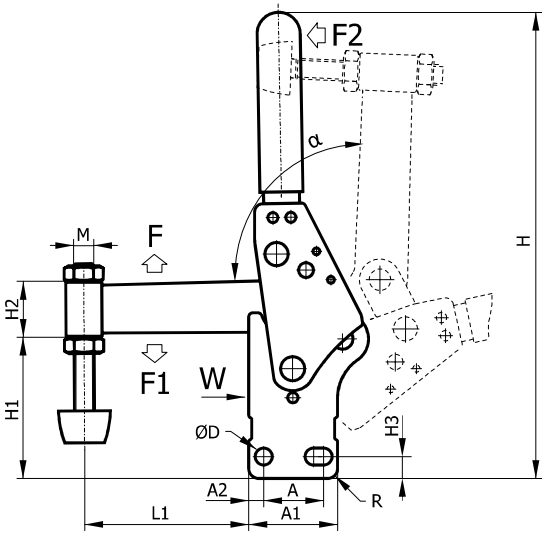
These clamps can withstand heavy loads. They are made of blackened steel, have heat-treated knurled sleeves, and the pins are hardened and ground.

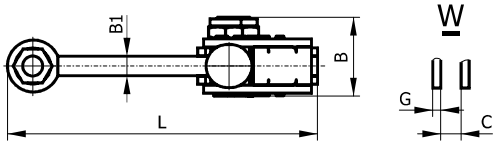
A shield is used to prevent welding spatter.

The workpiece is secured when the handle is vertical.

Set includes :
- clamp,
- class 8.8 clamping screw with two nuts,
- 1 rubber cap.







No.	[kg]	F [daN]	F1 [daN]	F2 [daN]	A	A1	A2	B	B1	C	ØD	G	H	H1	H2	H3	L	L1	M	α	R
282C	0,42	250	70	9	20	33,0	6,5	29,5	7,8	8,2	6,1	3	150	48,5	20	9,0	86,5	35,0	M8x50	94°	3
284C	1,22	500	130	12	30	44,5	7,5	39,5	9,8	10,2	8,5	4	234	71,5	28	11,0	154,0	82,5	M10x75	94°	5
286C	2,49	1000	150	15	45	65,0	10	52,0	11,8	12,2	11,0	6	278	87,5	36	14,6	188,0	100,0	M12x100	94°	7

We reserve the right to make any changes without notice.

26. MODULAR CLAMP WITH STRAIGHT BASE AND COVER

272C, 274C, 276C

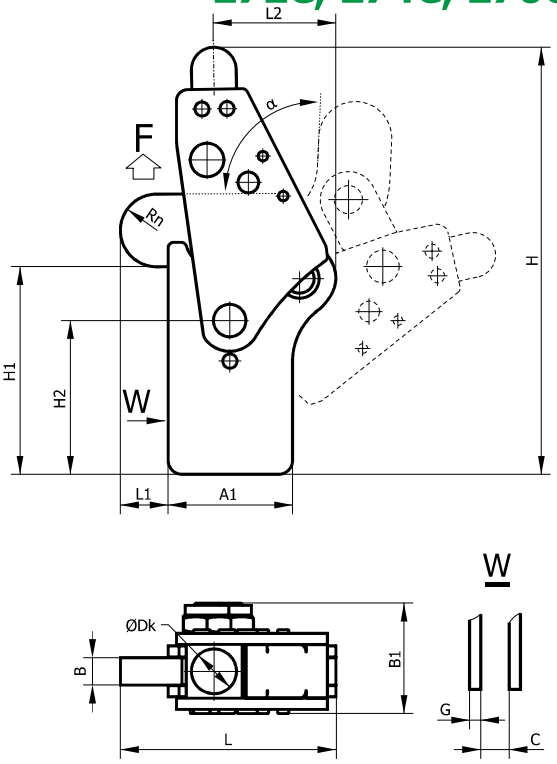
These clamps can withstand heavy loads. They are made of blackened steel, have heat-treated knurled bushings, and the pins are hardened and ground.

A cover is used to prevent welding spatter.

These clamps are used primarily in industrial mass production.

The method of use is presented on page 39.





No.	[kg]	F [daN]	A1	B	B1	C	G	ØDk	H	H1	H2	L	L1	L2	Rn	α
272C	0,29	400	33,0	7,8	29,5	8,2	3	10	102	49,5	37	52,5	12	30,0	9	93°
274C	0,82	800	44,5	9,8	39,5	10,2	4	16	153	74,5	55	77	17	44,0	13	93°
276C	1,86	1400	65,0	11,8	52,0	12,2	6	22	190	101,0	72	100	24	55,0	17	93°

27. PRECISE MODULAR CLAMP WITH STRAIGHT BASE AND COVER

342C, 344C, 346C

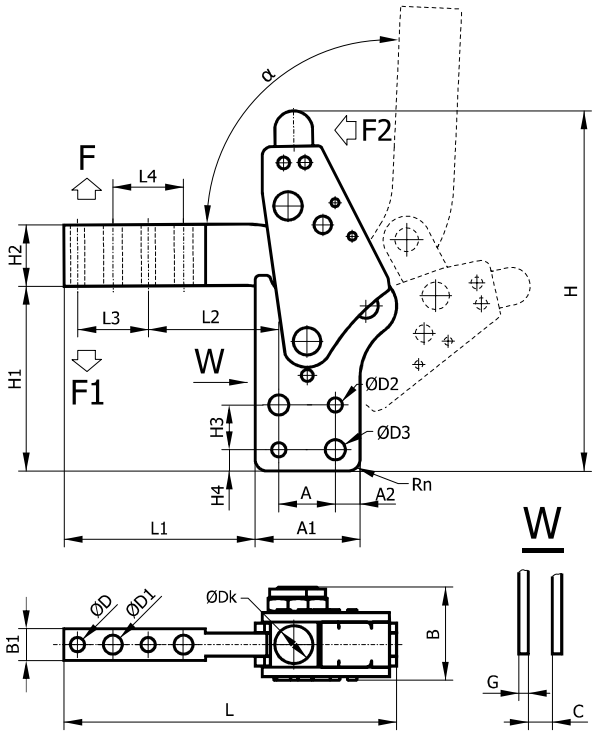
These clamps can withstand heavy loads. They are made of blackened steel, have heat-treated knurled bushings, and the pins are hardened and ground.

A cover is used to prevent welding spatter.

These clamps are used primarily in industrial mass production.

The method of use is presented on page 39.





No.	[kg]	F [daN]	F1 [daN]	F2 [daN]	A [±0,02]	A1	A2	B	B1	C	ØD [H7]	ØD1	ØD2 [H7]	ØD3	ØDk	G	H	H1	H2	H3 [±0,02]	H4	L	L1	L2 [±0,02]	L3 [±0,02]	L4	Rn	α
342C	0,32	300	70	17	15	33,0	10,5	29,5	10	8,2	4	5,5	5	6,2	10	3	102	49,5	18	15	5,5	83	42,5	28	16	16	3	93°
344C	0,97	600	130	24	24	44,5	10,5	39,5	14	10,2	6	8,0	6	8,5	16	4	153	79,0	26	19	9,0	141	81,0	55	30	30	5	93°
346C	2,06	800	150	30	30	65,0	17,5	52,0	16	12,2	6	8,0	6	8,5	22	6	185	99,0	34	30	9,0	167	90,5	70	30	30	7	93°

We reserve the right to make any changes without notice.

28. MODULAR CLAMP WITH A PENDULAR BASE AND COVER

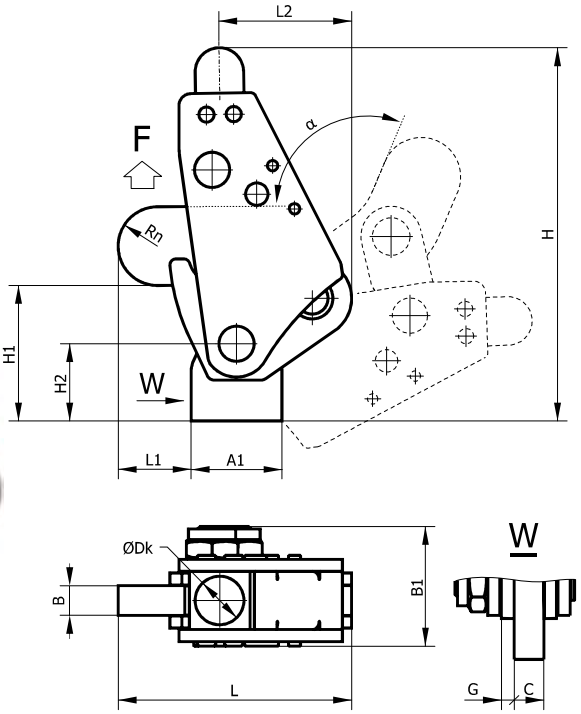
These clamps can withstand heavy loads. They are made of blackened steel, have heat-treated knurled bushings, and the pins are hardened and ground.

A cover is used to prevent welding spatter.

These clamps are used primarily in industrial mass production.

The method of use is presented on page 39.

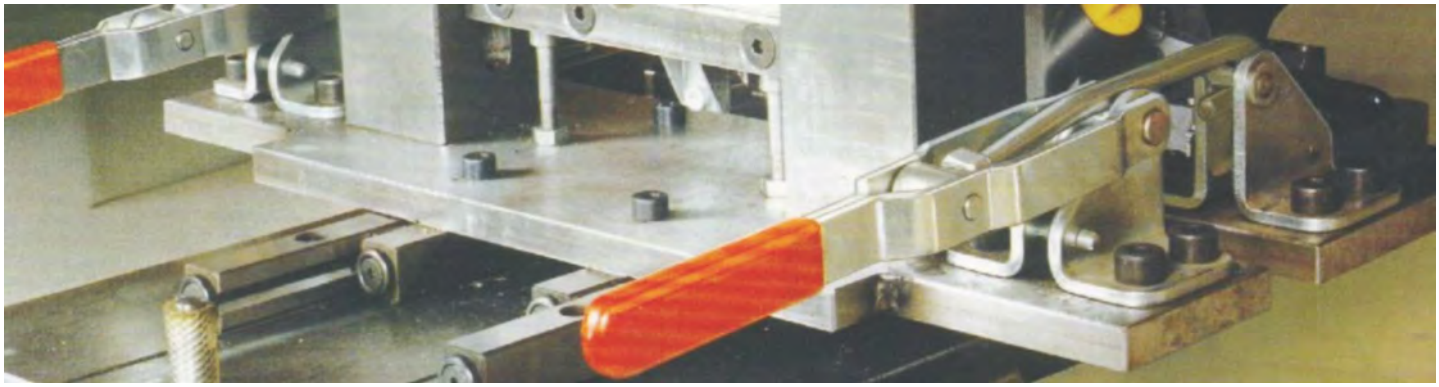




No.	[kg]	F [daN]	A1	B	B1	C	G	ØDk	H	H1	H2	L	L1	L2	Rn	α
232C	0,26	400	20	7,8	29,5	8,2	3	10	84	31	18,5	53	17	20	9	116°
234C	0,74	800	30	9,8	39,5	10,2	4	16	123	45	25,5	77	24	44	13	116°
236C	1,58	1400	40	11,8	52,0	12,2	6	22	152	63	34,0	100	32	55	17	116°

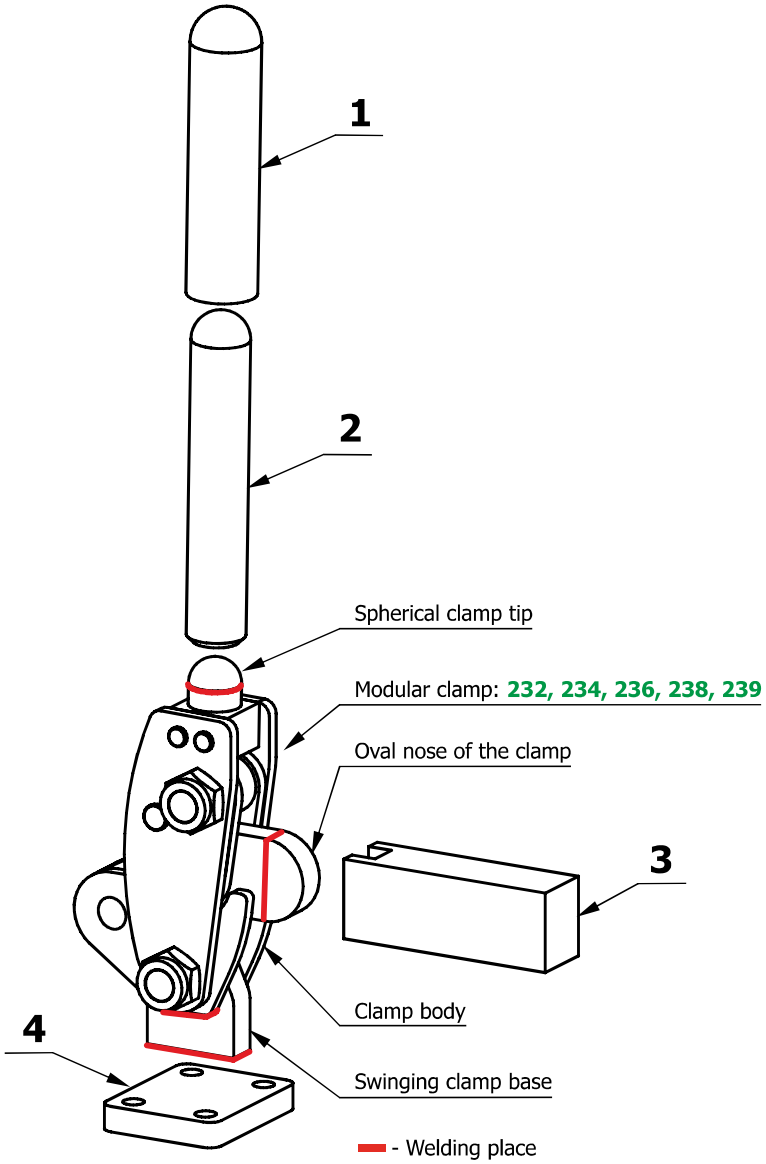






We reserve the right to make any changes without notice.

29. MODULAR CLAMP MOUNTING METHOD



1. Flexible handle
691, 693, 695, 697



str. 59

2. Steel handle
661, 663, 665, 667, 669



str. 58

3. Clamping arm
672, 673, 675, 676, 677



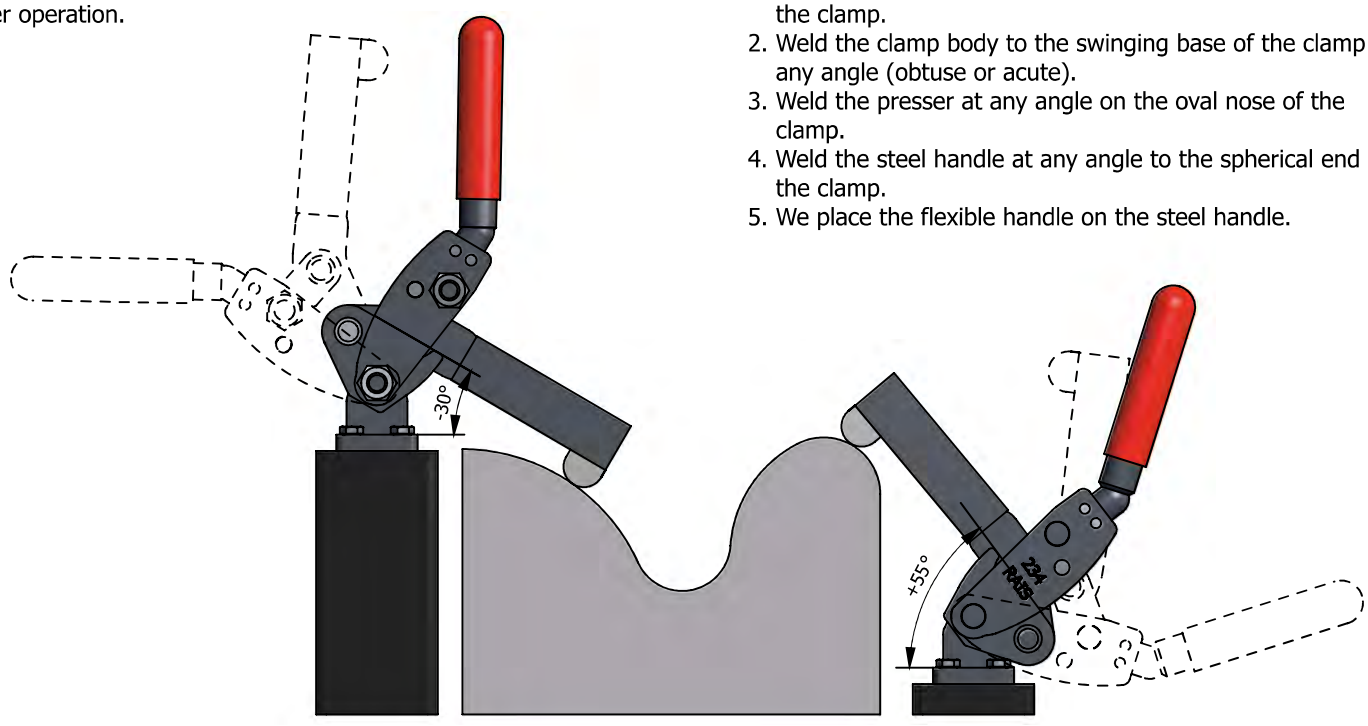
str. 59

4. Base plate
681, 683, 685, 687, 689



str. 59

Clamps in closed position during operation, and open before or after operation.



1. Weld the base plate perpendicularly to the swinging base of the clamp.
2. Weld the clamp body to the swinging base of the clamp at any angle (obtuse or acute).
3. Weld the presser at any angle on the oval nose of the clamp.
4. Weld the steel handle at any angle to the spherical end of the clamp.
5. We place the flexible handle on the steel handle.

We reserve the right to make any changes without notice.

IV. Quick-clamping push-pull clamps

All QUICK-CLAMPING CLAMPS manufactured by our company are self-locking thanks to the use of a locking mechanism inside the clamp, called a knee lever, which allows for rigid, strong, repeatable and fast clamping of workpieces. The locking is achieved in two extreme positions of the handle. One when pushing the workpiece and the other when pulling it.

QUICK-CLAMPING CLAMPS are mainly used in devices: welding, drilling, assembly, milling, in the processing of wood, metal, plastics and other materials.

The clamps are made of galvanized steel elements, connected with hardened sleeves and stainless pins. The two-component flexible handle is made of plastic and elastomer. The handle is resistant to acids, alkalis, detergents, oils and solvents.

Clamps made entirely of stainless steel are marked by adding the letters **SS** in the numbering.

There are three forces in the drawings:

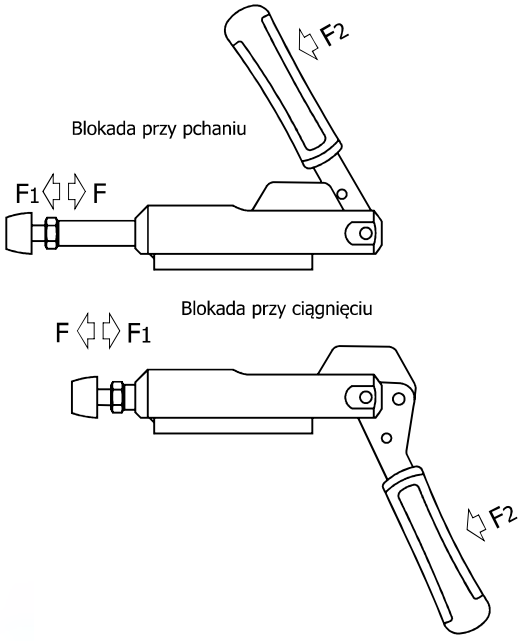
Force F (action) - originating from the forces generated during processing.

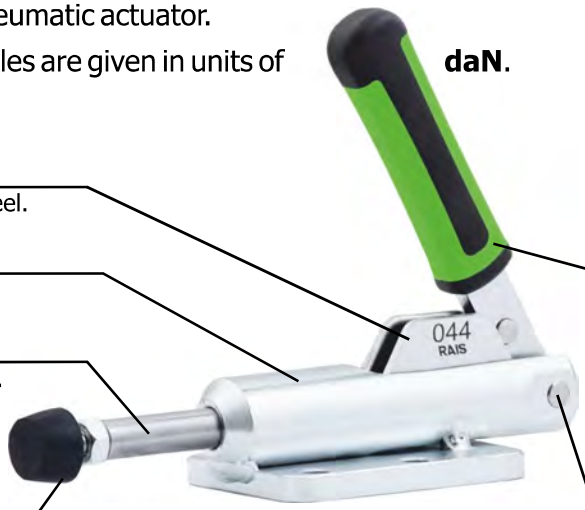
Force F1 (pressing) - derived from force F2 and proportional to it, also derived from the internal knee mechanism, being a reaction to force F. Additionally, the knee mechanism ensures a lock in the closed position of the quick-clamping clamp.

Force F2 (closing / opening) - derived from the force of the operator's hand or from the pneumatic actuator.

The forces presented in the tables are given in units of **daN**.

1 [kG] ≈ 1 [daN] = 10 [N]





Connector
Galvanized, made from stuctural steel.

Body
Galvanized, structural steel.

Piston
Ground, made of heat-treated steel.

Clamping setscrew
Clamping setscrew 8.8 class with flanged washers, nuts and rubber cover.

Two-component flexible handle
Flexible handle made of plastic and elastomer. Flexible handle grip is fitted on galvanized arm made of structural steel.

Stainless steel pin and knurled bushing
The pin is made of stainless steel embedded in the hardened knurled bushing.





We reserve the right to make any changes without notice.

30. PUSH-PULL TOGGLE CLAMP

The clamp is made of galvanized structural steel (the clamp from the **SS** group is made entirely of stainless steel)

The clamp is available without a base.

We suggest using our bases from page 56.

The clamp is locked in two extreme positions of the handle, when pushing the workpiece to the base and when pulling.

The set includes:

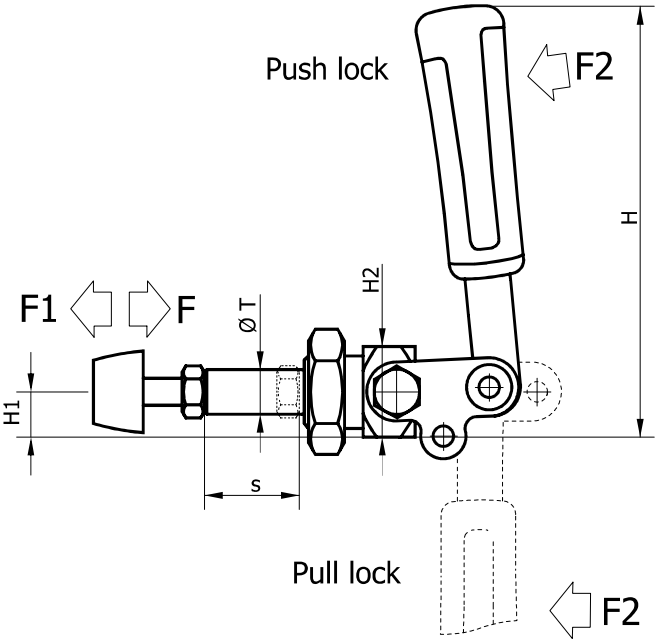
- clamp,
- class 8.8 clamping screw with one nut (for stainless clamps from the **SS** group - clamping screws and nuts made of stainless steel),
- 1 rubber cap.

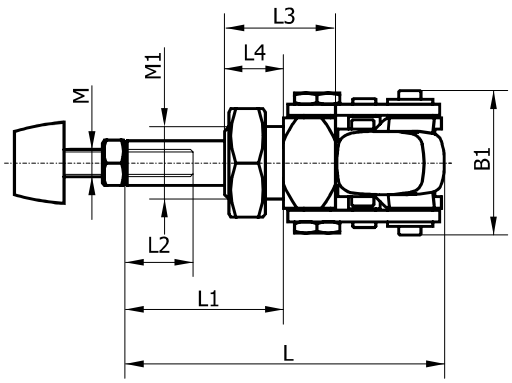
031, 033, 035
Push-pull toggle clamp



033SS
Push-pull toggle clamp made of stainless steel







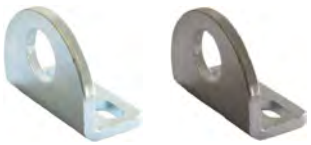
Accessories

Push-pull clamp base



p. 56

Bend base, two mounting holes



Galvanized steel — Stainless steel

p. 56

No.	[kg]	F [daN]	F1 [daN]	F2 [daN]	B1	H	H1	H2	L	L1	L2	L3	L4	M	M1	S (Skok)	øT
031	0,19	100	100	9	31	94	10	20	70	14 ÷ 35	20	24,5	13	M6x30	M16x1,5	21	10
033 033SS	0,40	250	250	12	35	128	11	22	111	17 ÷ 57	25	33,0	16	M8x35	M20x1,5	40	12
035	0,90	400	400	18	46	159	15	30	176	25 ÷ 92	30	52,0	24	M10x50	M24x1,5	67	16

We reserve the right to make any changes without notice.

31. PUSH-PULL TOGGLE CLAMP

032N, 034N, 036N

The clamp is made of galvanized structural steel.

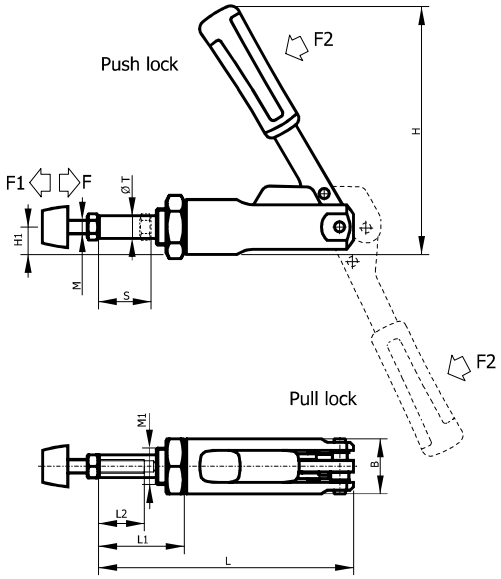
The clamp is available without a base.

We recommend using our bases from page 56.

The clamp is locked in two extreme positions of the handle, when pushing the workpiece to the base and when pulling.

The set includes:
- clamp,
- class 8.8 clamping screw with one nut,
- 1 rubber cap.





Accessories

Push-pull clamp base



p. 56

Bend base, two mounting holes



p. 56

No.	[kg]	F [daN]	F1 [daN]	F2 [daN]	B1	H	H1	L	L1	L2	M	M1	S (Stroke)	ØT
032N	0,30	160	170	9	24	107	12,0	111	11 ÷ 34	20	M6x30	M16x1,5	23	10
034N	0,58	250	240	12	28	130	14,0	162	17 ÷ 51	25	M8x35	M20x1,5	34	12
036N	1,22	450	300	18	35	162	17,5	205	19 ÷ 61	30	M10x50	M24x1,5	42	16







We reserve the right to make any changes without notice.

32. LOW PUSH-PULL CLAMP

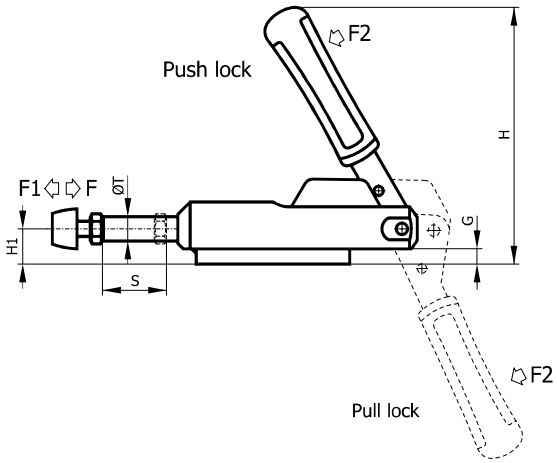
042, 044, 046

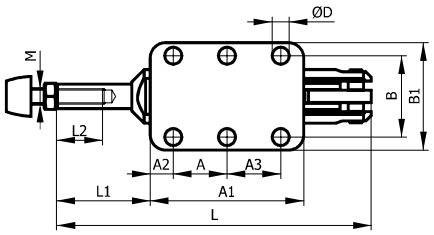
Clamps made of galvanized structural steel.

The clamp is locked in two extreme positions of the handle, when pushing the workpiece to the base and when pulling.

Set includes:
- clamp,
- pressure screw class 8.8 with one nut,
- rubber cap in the amount of 1 piece.







No.	[kg]	F [daN]	F1 [daN]	F2 [daN]	A	A1	A2	A3	B	B1	øD	G	H	H1	L	L1	L2	M	S (Stroke)	øT
042	0,42	160	170	6	25	52	9,5	---	39	50	6,5	6	112	16	111	10 ÷ 33	20	M6x30	23	10
044	0,84	250	240	12	35	85	12,5	---	46	60	8,5	8	137	20	162	15 ÷ 49	25	M8x35	34	12
046	1,66	450	300	18	35	100	15,0	35	53	70	11,0	10	167	23	205	19 ÷ 61	30	M10x50	42	16

33. PUSH CLAMP WITH HORIZONTAL HANDLE

086, 087

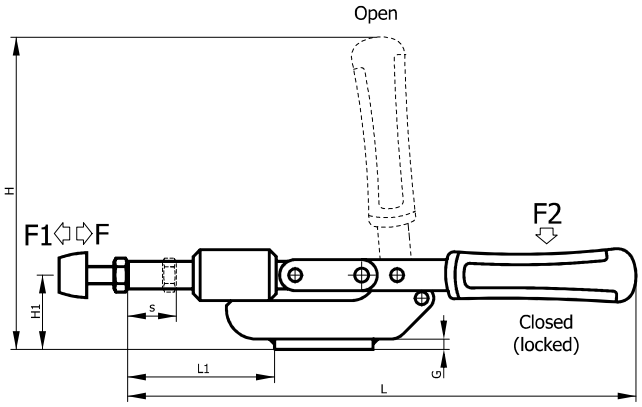
Clamps made of galvanized structural steel.

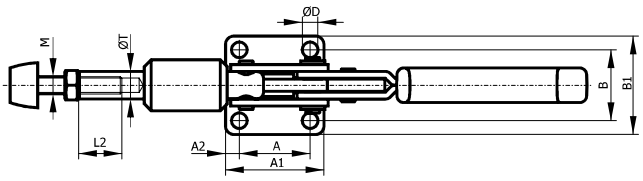
This clamp is used to push workpieces to the base.

The handle is positioned horizontally during operation.

Set includes:
- clamp,
- pressure screw class 8.8 with one nut,
- 1 rubber cap.







No.	[kg]	F [daN]	F1 [daN]	F2 [daN]	A	A1	A2	B	B1	øD	G	H	H1	L	L1	L2	M	S (Stroke)	øT
086	1,06	270	160	15	41	57	8	41	57	9,0	6	187	43	294	95	30	M10x50	28	16
087	2,10	340	250	18	60	80	10	60	80	10,5	8	204	49	404	130	50	M12x75	50	20

We reserve the right to make any changes without notice.

34. REINFORCED PUSH-PULL CLAMP WITH BASE

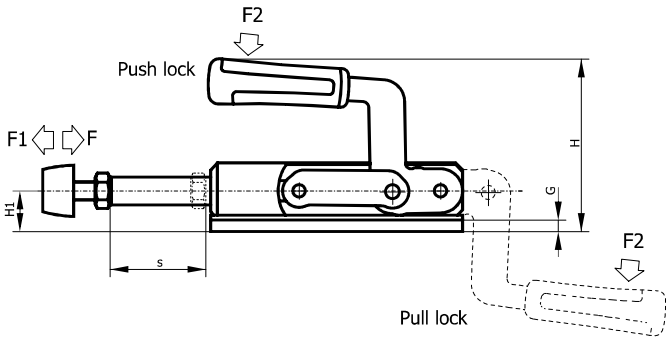
048.1, 048.2, 048.3, 048.4

Clamps made of blackened structural steel.

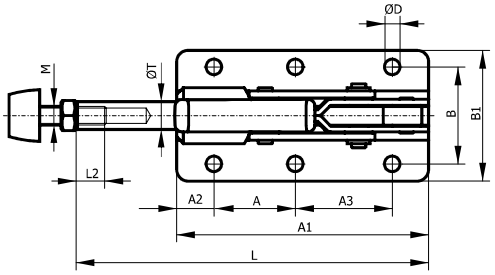
The clamp obtains a lock when pushing the workpiece to the base and when pulling.

The piston is guided in the body along its entire length.

Set includes:
- clamp,
- class 8.8 clamping screw with one nut,
- 1 rubber cap.







No.	[kg]	F [daN]	F1 [daN]	F2 [daN]	A	A1	A2	A3	B	B1	øD	G	H	H1	L	L2	M	S (Stroke)	øT
048.1	0,7	360	170	9	35,0	108	16,0	41,5	41,5	56	6,5	5	80	18	153	25	M8x35	41	12
048.2	1,0	1100	180	12	35,0	128	12,5	41	41,0	57	8,5	7	90	21	178	30	M10x50	51	16
048.3	2,1	1800	210	14	45,0	172	15,0	45	54,0	68	8,5	9	113	27	250	40	M10x50	75	20
048.4	3,7	3000	250	18	90,5	217	17,5	90,5	54,0	76	10,5	11	118	32	321	50	M12x75	101	22

35. REINFORCED PUSH-PULL CLAMP

049.1, 049.2, 049.3

The clamp is made of blackened structural steel.

The clamp is available without a base.

We recommend using our bases from page 56.

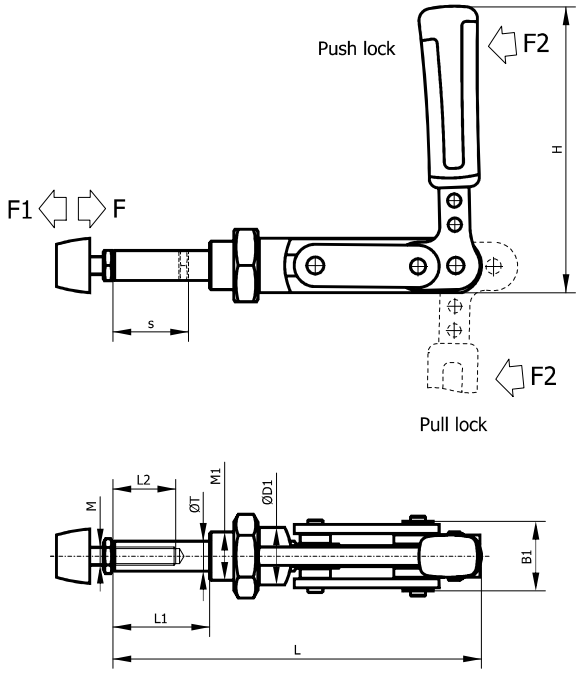
The clamp is locked when pushing the workpiece to the base and when pulling.

By guiding the piston for a long time in the clamp body, we obtain greater rigidity and longer service life.

The piston is guided in the body along its entire length.

Set includes:
- clamp,
- 8.8 class clamping screw with one nut,
- 1 rubber cap.





No.	[kg]	F [daN]	F1 [daN]	F2 [daN]	B1	øD1	H	L	L1	L2	M	M1	S (Stroke)	øT
049.1	0,24	350	150	11	23	19	95	122	32	20	M6x30	M16x1,5	25	10
049.2	0,55	550	160	14	27	25	137	160	40,5	30	M8x35	M20x1,5	38	13
049.3	1,10	750	160	16	34	30	164	235	68,5	40	M10x50	M24x1,5	66	16

We reserve the right to make any changes without notice.

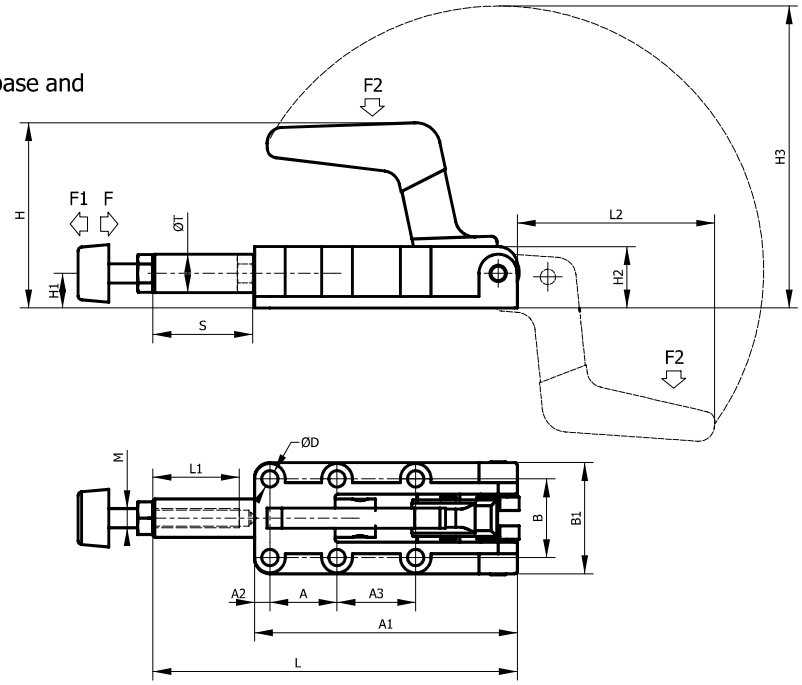
36. REINFORCED PUSH-PULL TOGGLE CLAMP PK700, PK1200, PK2500, PK4500

Clamps made of blackened structural steel.

The clamp obtains a lock when pushing the workpiece to the base and when pulling.

Set includes:
- clamp,
- class 8.8 clamping screw with one nut,
- rubber cap in the amount of 1 piece.





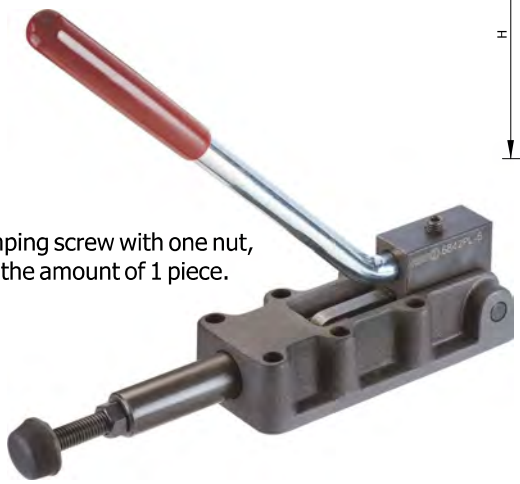
No.	[kg]	F [daN]	F1 [daN]	F2 [daN]	A	A1	A2	A3	B	B1	ØD	H	H1	H2	H3	L	L1	L2	M	S	ØT
PK700	0,56	700	170	9	36,5	88	25	-	33,3	47	5,5	65,5	12	22	108	127	30	70	M8x35	32	14
PK1200	1,50	1200	180	12	35,0	137	8	41	41,0	58	8,5	97	18	32	158	190	45	103	M10x50	50	20
PK2500	3,86	2500	300	15	45,0	198	12	45	54,0	78	10,3	110	22	40	222	296	50	162	M12x50	75	25
PK4500	6,70	4500	300	18	70,0	254	12	70	57,0	86	10,3	128	28	51	255	392	60	182	M16x80	106	30

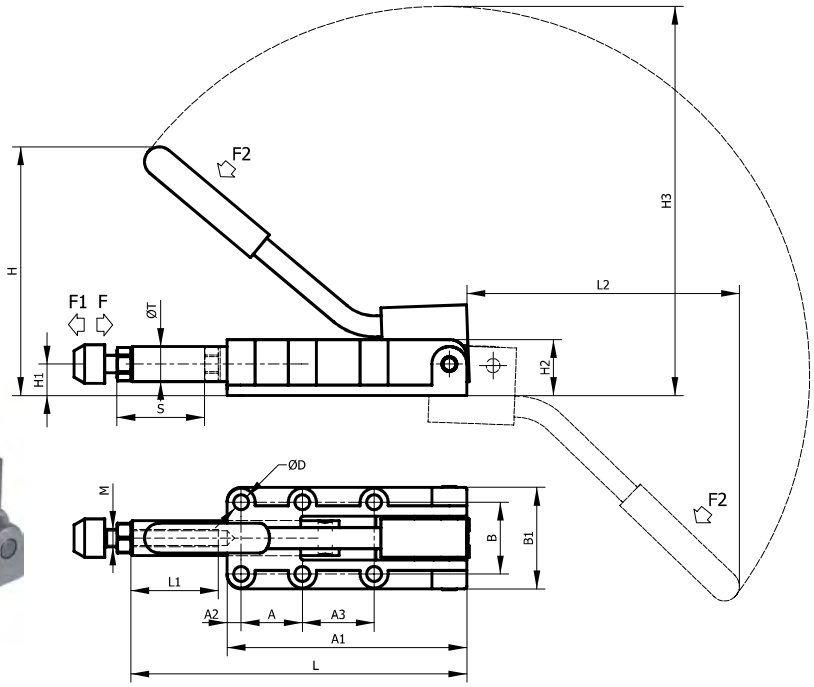
37. REINFORCED PUSH-PULL TOGGLE CLAMP PL700, PL1200, PL2500, PL4500

Clamps made of blackened structural steel.

The clamp obtains a lock when pushing the processed object to the base and when pulling.

Set includes:
- clamp,
- class 8.8 clamping screw with one nut,
- rubber cap in the amount of 1 piece.





No.	[kg]	F [daN]	F1 [daN]	F2 [daN]	A	A1	A2	A3	B	B1	ØD	H	H1	H2	H3	L	L1	L2	M	S	ØT
PL700	0,65	700	170	9	36,5	90	25	-	33,3	47	5,5	127	12	22	202	127	30	128	M8x35	32	14
PL1200	1,60	1200	180	12	35,0	137	8	41	41,0	58	8,5	196,5	18	32	308,5	192	50	197	M10x50	50	20
PL2500	4,28	2500	300	15	45,0	198	12	45	54,0	84	10,5	268	22	40	414	300	50	267	M12x50	75	25
PL4500	7,72	4500	300	18	70,0	254	14,5	70	57,0	86	10,5	351	28	51	551	389	60	365	M16x80	106	30

We reserve the right to make any changes without notice.

V. CATCH TOGGLE CLAMPS

All QUICK-CLAMPING CLAMPS manufactured by our company are self-locking thanks to the use of a locking mechanism inside the clamp, called a knee lever, which allows rigid, strong, repeatable and fast clamping of workpieces. The locking is achieved in the extreme horizontal position of the handle.

QUICK-CLAMPING CLAMPS are mainly used in devices: welding, drilling, assembly, milling, in the processing of wood, metal, plastics and other materials.

The clamps are made of galvanized steel elements, connected with hardened sleeves and stainless pins. The two-component flexible handle is made of plastic and elastomer. The handle is resistant to acids, alkalis, detergents, oils and solvents.

Safety clamps have an additional lever to protect against:
- accidental opening of the handle while clamping or processing an item.

Clamps with additional handle protection are marked by adding the letter **B** in the numbering.

Before opening the above-mentioned clamp or before closing it, you must first press the red latch lever with your thumb. While holding it and encircling the clamp handle with your whole hand, lift it up or lower it down.

Clamps made entirely of stainless steel are marked by adding the letters **SS** in the numbering.

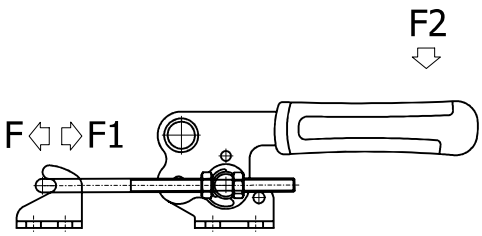
There are three forces in the drawings:

Force F (action) - originating from the forces generated during processing.

Force F1 (pressing) - derived from force F2 and proportional to it,

also derived from the internal knee mechanism, being a reaction to force F. Additionally, the knee mechanism ensures a lock in the closed position of the quick-clamping clamp.

Force F2 (closing / opening) - derived from the force of the operator's hand or from the pneumatic actuator.



The forces presented in the tables are given in units of **daN**.

1 [kG] ≈ 1 [daN] = 10 [N]





Additional clamp lock
In addition to the internal lock in the form of a knee lever, the clamp has additional security.

Two-component elastic handle
The flexible handle is made of plastic and elastomer.
It is mounted on a galvanized handle made of structural steel.

Stainless steel pin and knurled sleeve
The pin is made of stainless steel, mounted in a hardened knurled sleeve.

Base
Galvanized structural steel.

Latch
Galvanized structural steel.

Latch bracket
Galvanized steel rod with thread on part length.

We reserve the right to make any changes without notice.

38. HORIZONTAL CATCH CLAMP

The clamp is made of galvanized structural steel (the clamp from the **SS** group is made entirely of stainless steel). Stainless steel pins are mounted in thermochemically improved knurled sleeves. The two-component flexible handle is made of plastic and elastomer.

The workpiece is secured when the handle is horizontal.

B - clamp with additional protection (handle immobilization).

Clamps with additional protection have a lever that protects against:
- accidental opening of the handle during clamping and processing of the item.

Before opening the clamp or closing it, first press the red latch lever with your thumb. Holding it and embracing the clamp handle with your whole hand, lift it up or lower it down.

The set includes a catch clamp and one latch.

721, 723, 725
Horizontal catch clamp

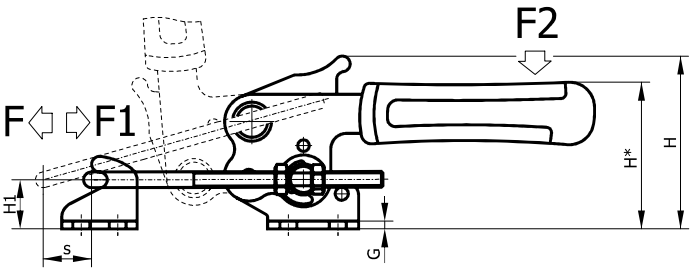


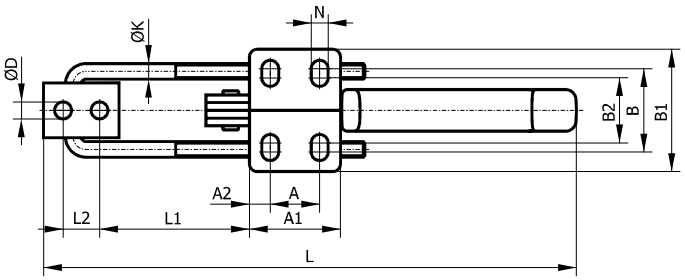
721B, 723B, 725B
Horizontal catch clamp with additional protection



723SS
Stainless steel horizontal catch clamp







No.	[kg]	F [daN]	F1 [daN]	F2 [daN]	A	A1	A2	B	B1	B2	ØD=N	G	H	H*	H1	ØK	L	L1	L2	S (Stroke)
721 **721B**	0,16 0,18	200	180	10	13	26	6,5	24	36	19	5,2	2,5	- 51	42	12	4	135 ÷ 170	28 ÷ 63	11	20
723 **723B** **723SS**	0,36 0,38 0,36	400	270	15	19	35	8,0	30	47	25	6,5	3,0	- 66 -	57	19	6	185 ÷ 230	35 ÷ 80	14	26
725 **725B**	0,82 0,88	700	450	20	32	51	9,5	40	64	36	8,5	4,0	- 86	75	25	8	235 ÷ 300	46 ÷ 111	19	34

We reserve the right to make any changes without notice.

39. VERTICAL CATCH CLAMP

The clamp is made of galvanized structural steel (the clamp from the **SS** group is made entirely of stainless steel). The pins made of SS stainless steel are mounted in thermo-chemically improved knurled sleeves. The two-component flexible handle is made of plastic and elastomer.

The workpiece is clamped when the handle is horizontal.

B - clamp with additional protection (handle immobilization).

Clamps with additional protection have a lever protecting against:
- accidental opening of the handle during clamping and processing of the workpiece.

Before opening the clamp or closing it, first press the red latch lever with your thumb. Holding it and covering the clamp handle with your whole hand, lift it up or lower it down.

The set includes a catch clamp and one latch.

731, 733, 735
Vertical catch clamp

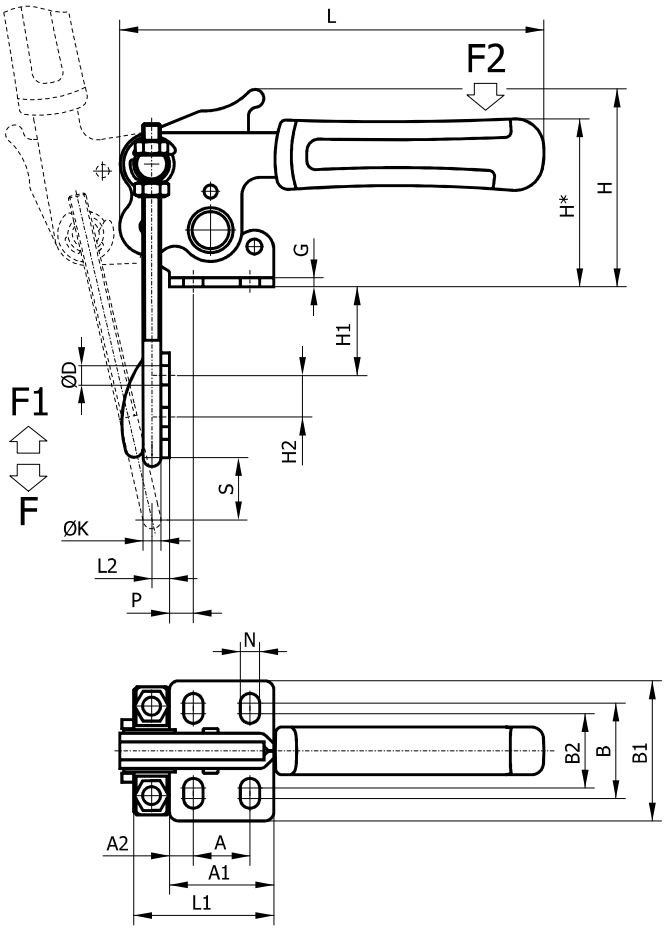


731B, 733B, 735B
Vertical catch clamp with additional protection



733SS
Stainless steel vertical catch clamp





No.	[kg]	F [daN]	F1 [daN]	F2 [daN]	A	A1	A2	B	B1	B2	ØD=N	G	H	H*	H1	H2	ØK	L	L1	L2	P	S (Stroke)
731 **731B**	0,16 0,18	200	180	10	13	26	6,5	24	36	19	5,2	2,5	- 51	42	5 ÷ 28	11	4	103	40	4,5	7	20
733 **733B** **733SS**	0,36 0,38 0,36	400	270	15	19	35	8,0	30	47	25	6,5	3,0	- 66 -	57	7 ÷ 35	14	6	142	52	6,0	8	26
735 **735B**	0,82 0,88	700	450	20	32	51	9,5	40	64	36	8,5	4,0	- 86	75	9 ÷ 45	19	8	179	74	8,0	9,5	34

We reserve the right to make any changes without notice.

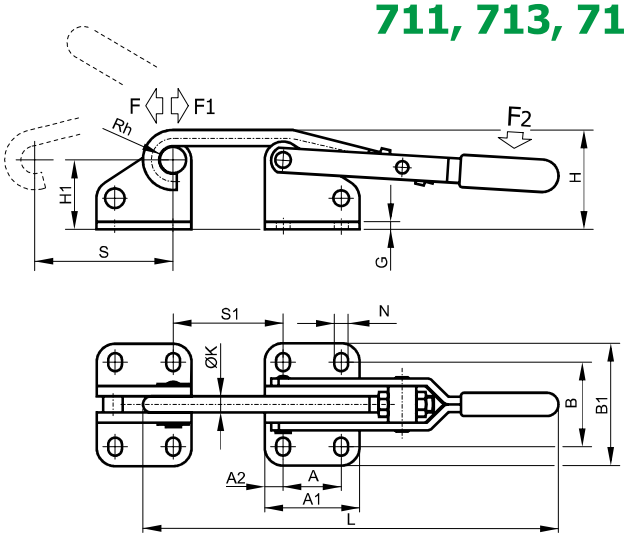
40. HOOK CATCH CLAMP

711, 713, 715

The clamp is made of galvanized structural steel. The flexible handle is made of plastic.

This clamp is used to pull two objects together, on which the clamp elements are mounted, e.g. for closing all kinds of flaps and covers, etc.

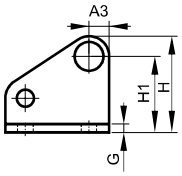


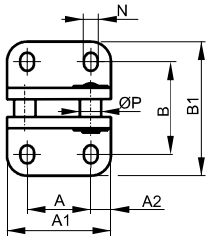


No.	[kg]	F [daN]	F1 [daN]	F2 [daN]	A	A1	A2	B	B1	G	H	H1	ØK	L	N	Rh	S	S1
711	0,12	200	150	10	19	31	6	27,1	39,1	2,5	32	22,5	5,3	130	4,5	4,5	45	34,0 ÷ 42,0
713	0,28	400	300	16	19	40	13	33,5	44,3	3,0	35	23,0	7,1	233	5,6	5,5	98	74,5 ÷ 86,5
715	0,88	700	400	20	29	55	13	54,4 ÷ 60,8	83,0	5,0	69	49,0	12,0	320	11,2	8,0	144	78,5 ÷ 72,5

41. LATCH FOR HOOK CATCH CLAMP

711Z, 713Z, 715Z







No.	[kg]	A	A1	A2	A3	B	B1	G	H	H1	N	ØP
711Z	0,06	19	31	6	6	27,1	39,1	2,5	29	22,5	4,5	8
713Z	0,08	19	40	13	6	33,5	44,3	3,0	29	23,0	5,6	10
715Z	0,32	29	55	13	12	54,4÷60,8	83,0	5,0	61	49,0	11,2	15

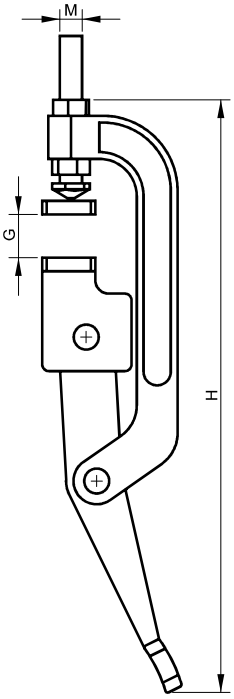
42. COMPLETE CATCH CLAMP

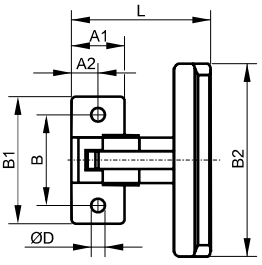
A40, A50

Clamps of this type are primarily used for quick connection of two halves of the mold when processing plastics.

The clamp can be operated with one hand.









No.	[kg]	A1	A2	B	B1	B2	ØD	G max	H	L	M
A40	0,30	24	9,6	40	54	60	6,5	26	186	58	M10x65
A50	1,02	24	11,7	40	56	85	6,5	40	260	65	M10x65

We reserve the right to make any changes without notice.

43. STRONG CATCH CLAMP

PH1500, PH2700

Strong catch clamp, it has high durability and provides high clamping force.

Hardened, ground and greased pins.

Locking rings are used to secure the pins in the bearing bushes and to center the clamping pin.

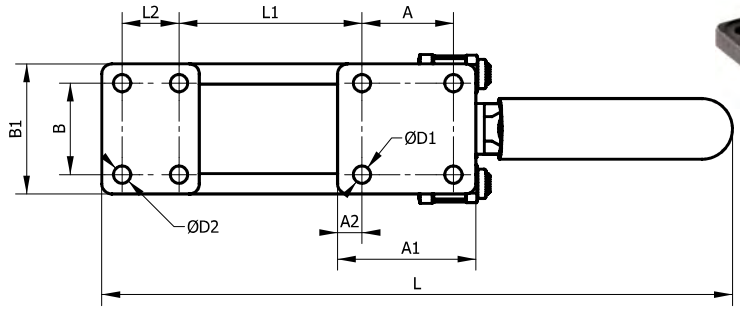
The foot, lever arm and hook are made of cast steel and are oxidised.

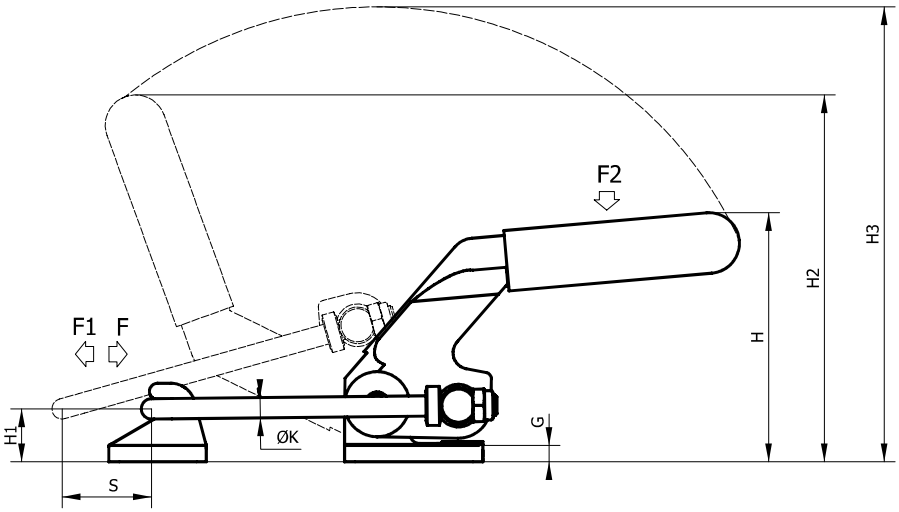
The hook, pins and nuts are heat treated and galvanised.

The flexible handle is made of red, oil-resistant plastic.

Supplied with a latch.







No.	[kg]	F [daN]	F1 [daN]	F2 [daN]	A	A1	A2	B	B1	ØD1	ØD2	H	H1	H2	H3	L	L1	L2	G	S	ØK
PH1500	2,83	1500	1500	12	45	68	12	45	64	10	10	122	26	180	228	245 - 311	24 - 90	28	8	44	10
PH2700	4,02	1200	1200	15	57	86	12,5	57	82	12	12	146	32	249	285	313 - 378	28 -93	35	10	47	12





We reserve the right to make any changes without notice.

VI. Pneumatic clamps

44. HORIZONTAL PNEUMATIC CLAMP

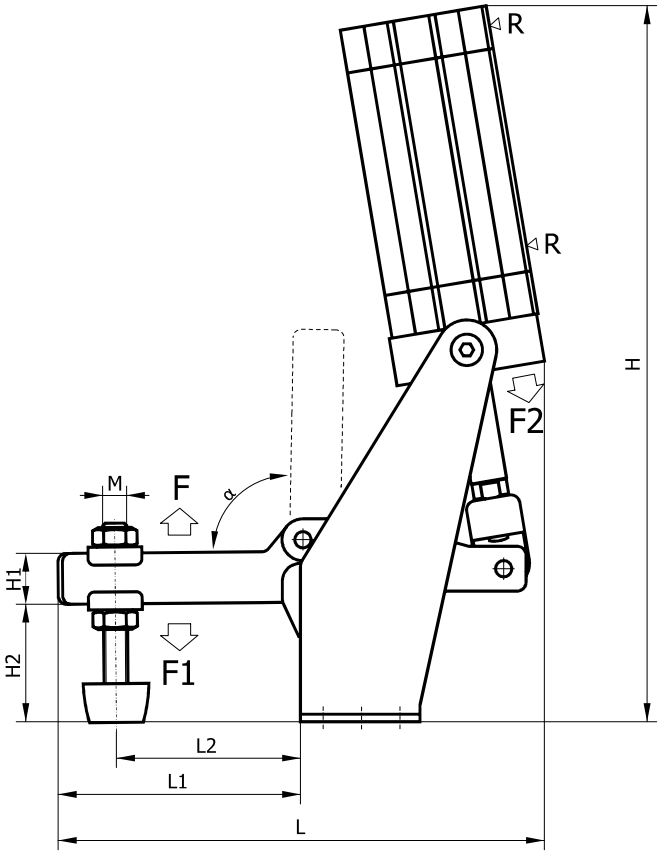
902P, 903P, 904P, 906P

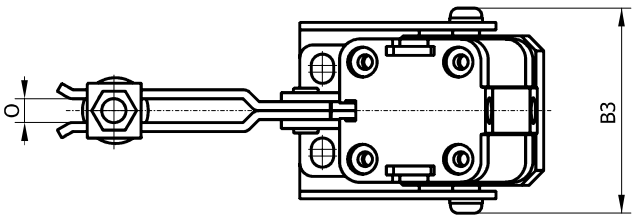
Horizontal clamps from page 12 of the catalogue: No. 902, 903, 904, 906 have been equipped with PNEUMAX pneumatic actuators and sheet metal housings. We have received a new type of clamp enabling quick replacement of manual clamps (e.g. 903) with pneumatic ones (e.g. 903P) without the need for a major reconstruction of the devices. The actuators have a built-in magnetic ring in the piston, which enables the use of proximity sensors to close or open the clamp. The forces F, F1, F2 given in the table occur for a working pressure of 0.6 MPa.



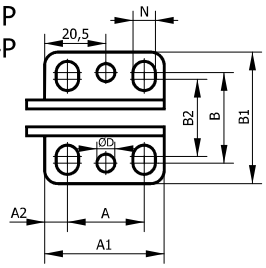
When placing an order, please provide the clamp number as well as the letter corresponding to the actuator used:
- actuator from Festo, **F**
- actuator from Hafner, **H**
- actuator from Metal Work, **M**
- actuator from Pneumax, **P**

Example:
You place order for a clamp: **902PP**
- clamp number without actuator, **902P**
- name of the actuator from Pneumax **(P)**

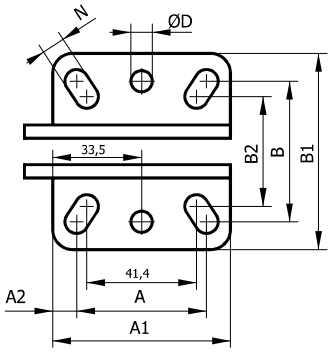




Base
902P
903P
904P



Base
906P



No.	[kg]	F [daN]	F1 [daN]	F2 [daN]	A	A1	A2	B	B1	B2	B3	ØD	H	H1	H2	L	L1	L2	M	N	O	R	α	Actuator ØxS
902P	0,76	130	90	29	26,0	37	5,2	28,2	47	20,6	57	4,8	194	13	28	128	61	22 ÷ 50	M6x35	5,5	6	M5	90°	D 25x50
903P	1,42	210	150	48	25,7	40	7,6	30,3	59	25,8	73	5,8	239	17	39	163	81	28 ÷ 67	M8x55	7,5	8	G1/8	90°	D 32x60
904P	2,54	320	230	75	40,8	57	7,8	43,2	68	39,1	82	5,8	278	20	45	218	106	33 ÷ 91	M8x65	8,6	8	G1/8	90°	D 40x70
906P	4,04	500	390	117	49,0	67	9,0	53,0	86	41,4	100	7,8	313	25	65	271	131	42 ÷ 112	M10x90	8,8	10	G1/8	90°	D 50x80

We reserve the right to make any changes without notice.

45. VERTICAL PNEUMATIC CLAMP

802P, 803P, 804P, 806P

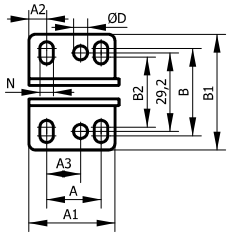
Vertical clamps from page 24 of the catalogue: No. 802, 803, 804, 806 have been equipped with PNEUMAX pneumatic actuators and sheet metal housings. We have received a new type of clamp enabling quick replacement of manual clamps (e.g. 803) with pneumatic ones (e.g. 803P) without the need to carry out a thorough reconstruction of the devices. The actuators have a built-in magnetic ring in the piston, which allows the use of proximity sensors to close or open the clamp. The forces F, F1, F2 given in the table occur for a working pressure of 0.6 Mpa.

When placing an order, please provide the clamp number as well as the letter corresponding to the actuator used:
- actuator from Festo, **F**
- actuator from Hafner, **H**
- actuator from Metal Work, **M**
- actuator from Pneumax, **P**

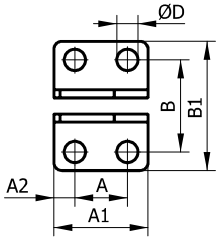
Example:
You place order for a clamp: **802PP**
- clamp number without actuator, **802P**
- name of the actuator from Pneumax, **(P)**



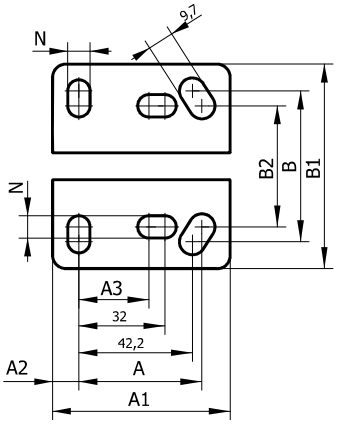
Base
802P

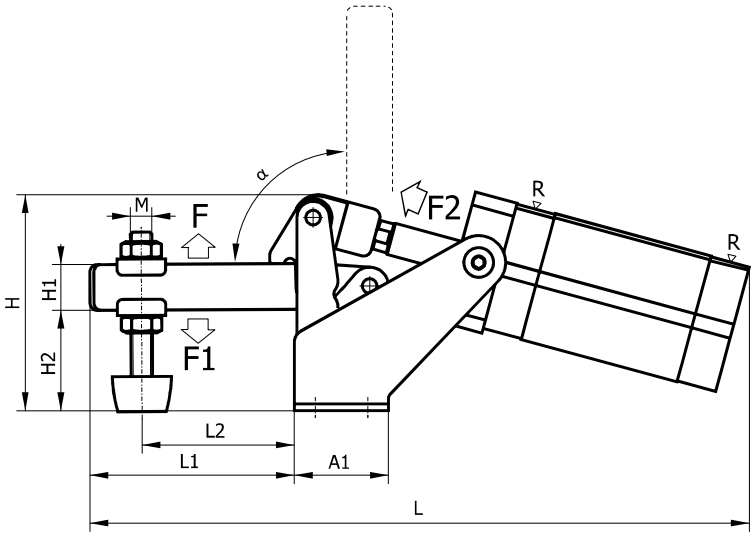


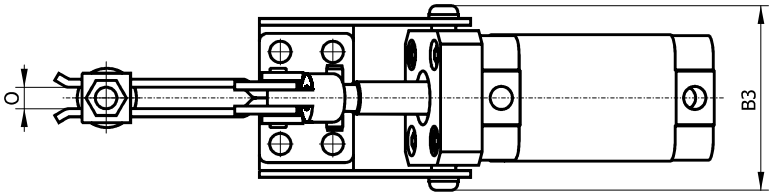
Base
803P, 804P



Base
806P







No.	[kg]	F [daN]	F1 [daN]	F2 [daN]	A	A1	A2	A3	B	B1	B2	B3	ØD	H	H1	H2	L	L1	L2	M	N	O	R	α	Actuator ØxS
802P	0,68	130	110	29	20,2	32	6,6	12,6	32,4	50	26	59	5,2	64	13	26	196	47	13 ÷ 35	M6x35	5,0	6	M5	90°	D 25x40
803P	1,30	210	170	48	19,5	35	7,8	---	34,2	59	---	69	7,9	81	17	37	250	76	19 ÷ 61	M8x55	---	8	G1/8	90°	D 32x50
804P	2,22	320	250	75	32,0	50	9,0	---	45,1	72	---	85	8,9	104	20	49	309	102	19 ÷ 87	M8x65	---	8	G1/8	90°	D 40x60
806P	3,80	500	420	117	45,7	66	9,8	26,0	56,0	88	45	102	---	128	25	59	386	137	24 ÷ 117	M10x90	8,3	10	G1/8	90°	D 50x80

We reserve the right to make any changes without notice.

46. PNEUMATIC PUSH CLAMP

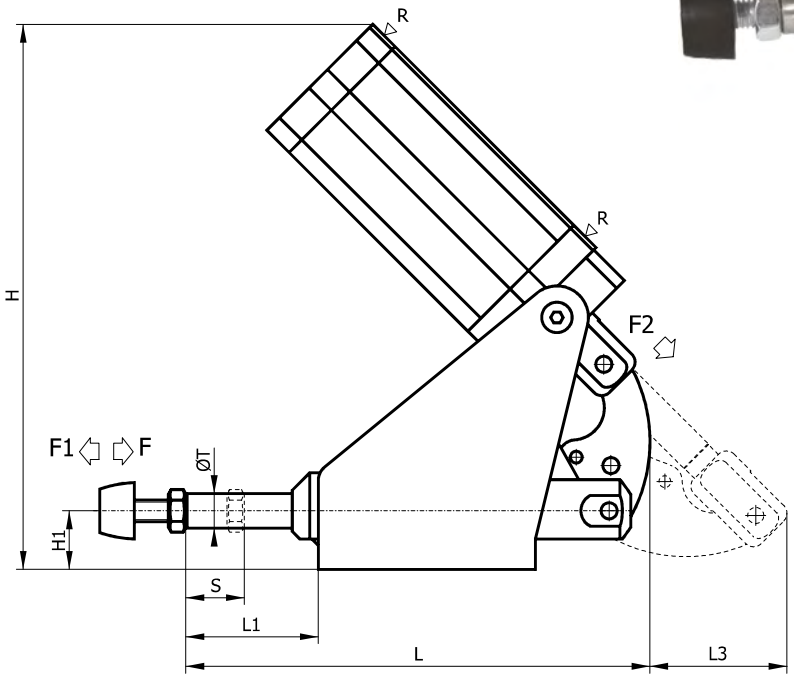
042P, 044P, 046P

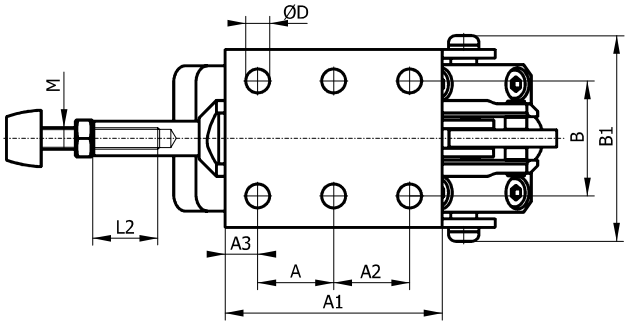
The push-pull clamps from page 43 of the catalogue: No. 042, 044, 046 have been equipped with PNEUMAX pneumatic actuators and sheet metal housings. We have received a new type of clamp enabling quick replacement of manual clamps (e.g. 044) with pneumatic ones (e.g. 044P) without the need to carry out a thorough reconstruction of the devices. The actuators have a built-in magnetic ring in the piston, which allows the use of proximity sensors to close or open the clamp. The forces F, F1, F2 given in the table occur for a working pressure of 0.6 Mpa.

When placing an order, please provide the clamp number as well as the letter corresponding to the actuator used:
- actuator from Festo, **F**
- actuator from Hafner, **H**
- actuator from Metal Work, **M**
- actuator from Pneumax, **P**

Example:
You place order for a clamp: **042PP**
- clamp number without actuator, **042P**
- name of the actuator from Pneumax, **(P)**







No.	[kg]	F [daN]	F1 [daN]	F2 [daN]	A	A1	A2	A3	B	B1	ØD	H	H1	L	L1	L2	L3	M	R	S (Skok)	ØT	Actuator ØxS
042P	1,02	160	160	13	25	52	---	9,5	39,0	56	6,5	156	18	121	23 ÷ 33	20	34	M6x30	M5	10	10	D 25x50
044P	2,62	250	250	19	35	85	---	12,5	46,0	69	8,5	203	23	169	29 ÷ 49	25	47	M8x35	G1/8	20	12	D 40x70
046P	4,44	450	450	23	35	100	35	15,0	53,0	82	11,0	252	27	214	34 ÷ 61	30	64	M10x50	G1/8	27	16	D 50x100

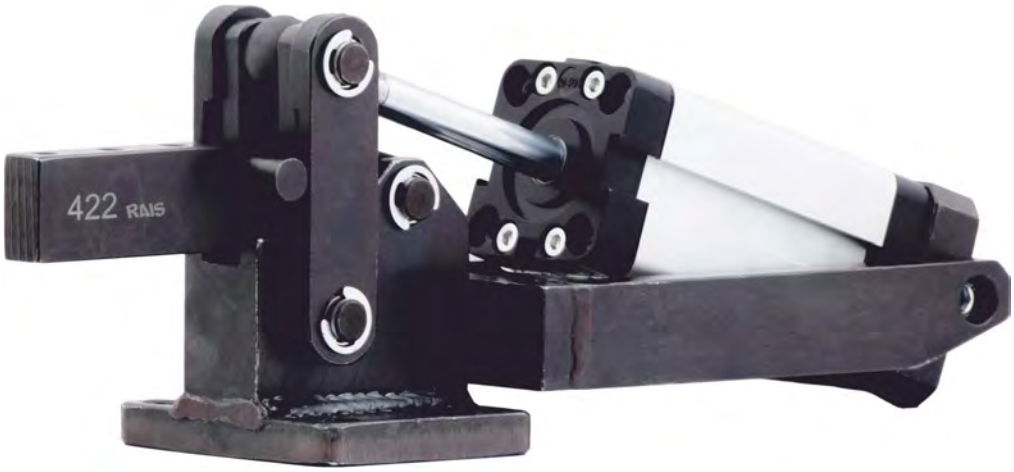
We reserve the right to make any changes without notice.

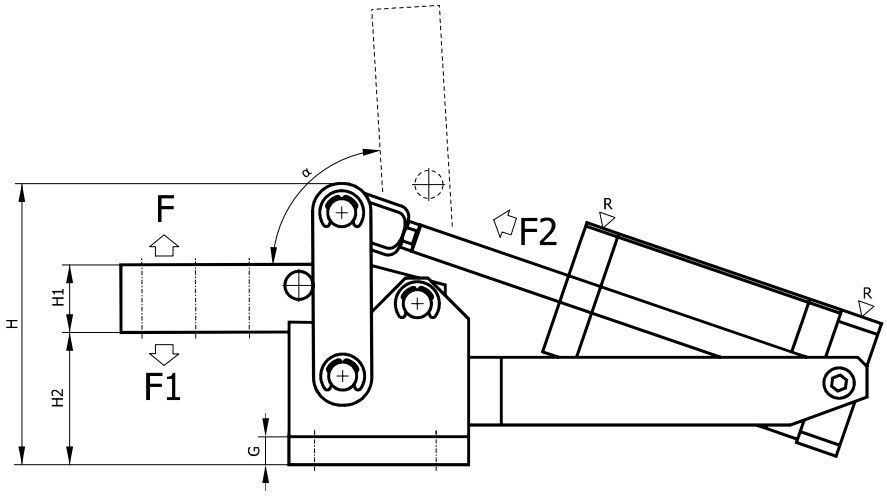
47. HEAVY PNEUMATIC CLAMP WITH HORIZONTAL ACTUATOR

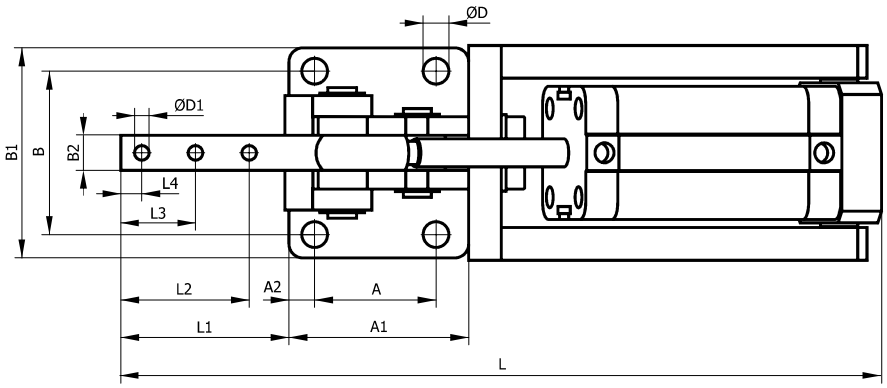
It is made on the basis of a special, reinforced horizontal pressure and a double-acting actuator manufactured by PNEUMAX, which has a magnetic ring installed on the piston. The actuator body has special T-slots enabling the installation of proximity sensors. Hardened and ground pins are placed in PTFE sliding sleeves and are secured with seal rings. The forces F, F1, F2 given in the table occur for a working pressure of 0.6 Mpa.

When placing an order, please provide the clamp number as well as the letter corresponding to the actuator used:
- actuator from Festo, **F**
- actuator from Hafner, **H**
- actuator from Metal Work, **M**
- actuator from Pneumax, **P**

Example:
You place order for a clamp: **424PP**
- clamp number without actuator, **424P**
- name of the actuator from Pneumax **(P)**







No.	[kg]	F [daN]	F1 [daN]	F2 [daN]	A	A1	A2	B	B1	B2	ØD	ØD1	G	H	H1	H2	L	L1	L2	L3	L4	R	α	Actuator ØxS
422	5,22	900	230	79	52	77	11	70	90	15	11	6,2	12	121	29	57	330	72	55	32	9	G1/8	90°	D 40x70
424	7,90	1800	400	123	55	90	11	84	106	20	11	8,2	12	146	39	61	400	94	75	42	9	G1/8	90°	D 50x90

We reserve the right to make any changes without notice.

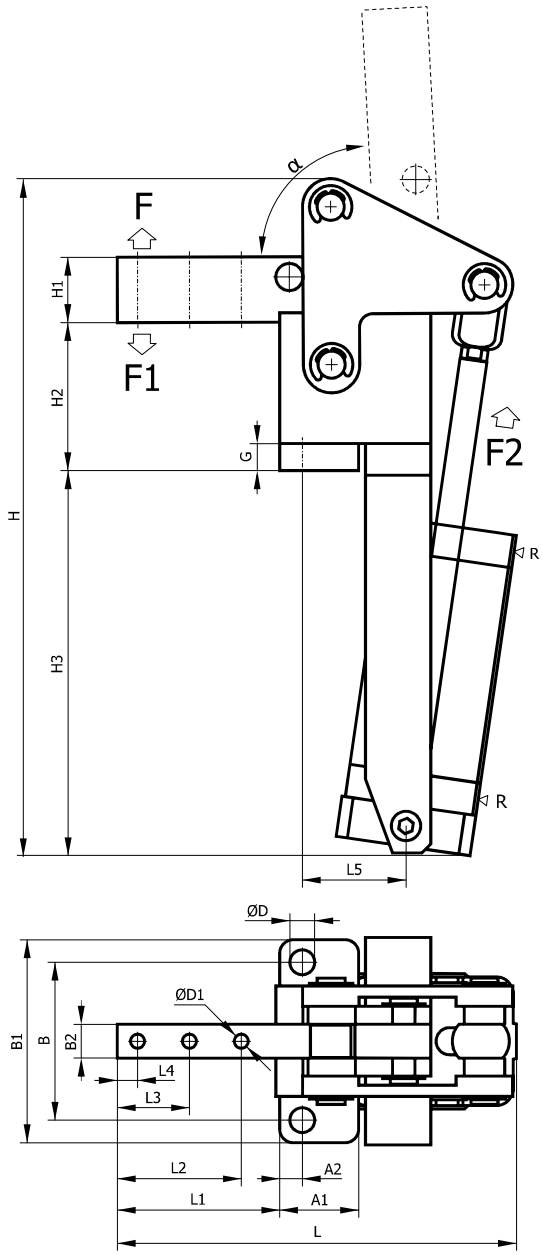
48. HEAVY PNEUMATIC CLAMP WITH VERTICAL ACTUATOR

It is made on the basis of a special, reinforced vertical clamp and a double-acting actuator manufactured by PNEUMAX, which has a magnetic ring installed on the piston. The actuator body has special T-slots enabling the installation of proximity sensors. Hardened and ground pins are placed in PTFE sliding sleeves and are secured with seal rings. The forces F, F1, F2 given in the table occur for a working pressure of 0.6 Mpa.

When placing an order, please provide the clamp number as well as the letter corresponding to the actuator used:
- actuator from Festo, **F**
- actuator from Hafner, **H**
- actuator from Metal Work, **M**
- actuator from Pneumax, **P**

Example:
You place order for a clamp: **442PP**
- clamp number without actuator, **442P**
- name of the actuator from Pneumax, **(P)**





No.	[kg]	F [daN]	F1 [daN]	F2 [daN]	A1	A2	B	B1	B2	ØD	ØD1	G	H	H1	H2	H3	L	L1	L2	L3	L4	L5	R	α	Actuator ØxS
442	5,15	900	230	79	35	10	70	90	15	11	6,2	12	301	29	66	173	179	72	55	32	9	45	G1/8	90°	D 40x80
444	7,82	1800	400	123	37	11	84	106	20	11	8,2	12	344	39	70	192	212	94	75	42	9	51	G1/8	90°	D 50x90

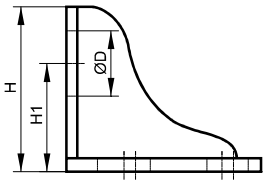
We reserve the right to make any changes without notice.

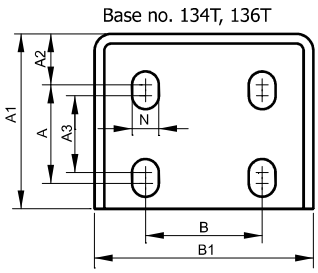
VII. ACCESSORIES

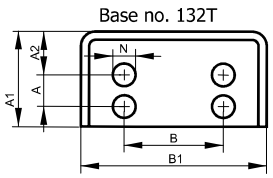
49. PUSH-PULL CLAMP BASE

132T, 134T, 136T









No.	[kg]	A	A1	A2	A3	B	B1	øD	H	H1	N	Mark for
132T	0,10	14	38	15,5	---	40	70	16,2	39	24	6,5	031, 032N, 049.1
134T	0,20	20	45	15,5	12	41	72	20,2	48	32	6,5	033, 034N, 049.2
136T	0,45	32	60	18	24	55	90	24,2	64	45	8,5	035, 036N, 049.3

50. BENT BASE, TWO MOUNTING HOLES

132NG, 134NG, 136NG

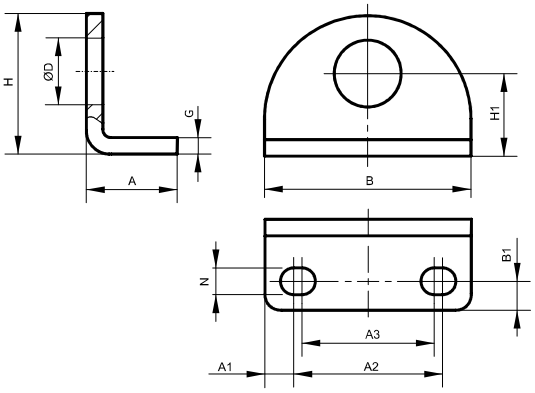
Bent base, two mounting holes



134NGSS

Bent base, two mounting holes made of stainless steel





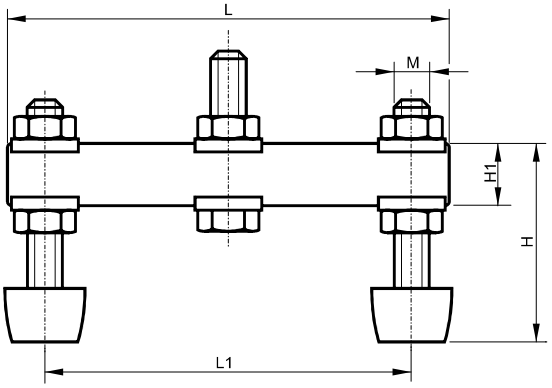
No.	[kg]	A	A1	A2	A3	B	B1	øD	G	H	H1	N	Mark for
132NG	0,06	22	7,0	36	32	50	7	16,2	4	34	20	6,5	031, 032N, 049.1
134NG 134NGSS	0,10	26	8,5	42	30	59	9	20,2	5	43	26	8,2	033, 034N, 049.2 033 SS
136NG	0,18	34	10,5	48	30	69	12	24,2	6	51	30	11,0	035, 036N, 049.3

51. BI-THRUST BEAM

502, 503, 504, 506

It is used to secure a workpiece in two places, or to secure two workpieces.





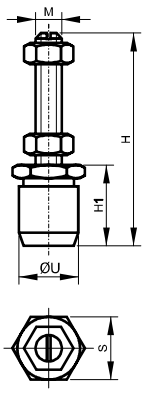
No.	[kg]	H	H1	L	L1	M	Mark for
502	0,14	30÷44	14	96	32÷80	M6x35	8...2.. , 9...2.. , 012, 022, 052, 112, 152
503	0,24	39÷53	17	120	36÷102	M8x55	8...3.. , 9...3..
504	0,35	40÷71	20	150	48÷132	M8x65	8...4.. , 9...4..
506	0,73	51÷81	25	200	50÷160	M10x90	8...6.. , 9...6..

We reserve the right to make any changes without notice.

52. SET SCREW WITH PLATE SPRINGS

512, 514, 516



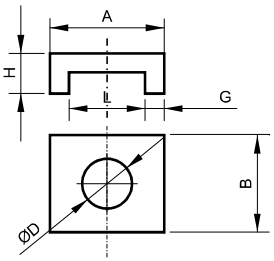


No.	H	H1	M	S	ØU
512	54÷56	16÷18	M6	17	16
514	68÷71	22÷25	M8	19	19
516	94÷98	27÷31	M10	24	24

53. CLAMPING RING

601, 602.1, 602.2, 603, 604, 606



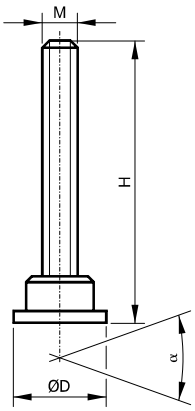


No.	A	B	ØD	G	H	L	Mark for
601	11,4	12	5,2	1,0	3,0	9,4	8...1, 9...1
602.1	14,4	14	6,2	1,5	4,5	11,4	8...2.. , 9...2..
602.2	15,5	16	6,3	1,5	5,7	12,5	0...2, 1...2
603	18,4	18	8,2	2,0	6,0	14,4	8...3.. , 9...3..
604	20,5	18	8,4	2,0	7,6	16,5	8...4.. , 9...4..
606	26,6	24	10,2	3,0	9,0	20,6	8...6.. , 9...6..

54. SELF-ALIGNING SET SCREW

612, 614, 616



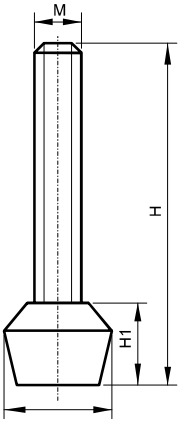


No.	ØD	H	M	α	Mark for
612	19	68	M6	15°	213, 253
614	24	80	M8	15°	215, 255, 422,442
616	30	101	M10	15°	217, 257, 424,444

55. SET SCREW WITH VULCANIZED BEAM FLANGE

621, 622, 623, 624, 626





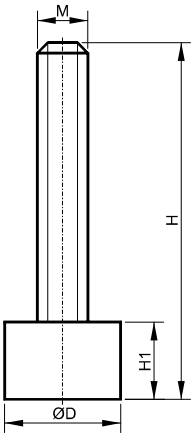
No.	ØD	H	H1	M
621	13	38	10	M5x30
622	16	45	13	M6x35
623	21	63	16	M8x50
624	21	78	16	M8x65
626	26	116	20	M10x100

We reserve the right to make any changes without notice.

56. SET SCREW WITH FLEXIBLE BEAM

632, 634, 636



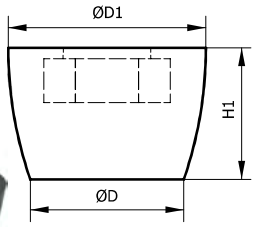


No.	ØD	H	H1	M
632	15	46	13	M6x35
634	20	83	17	M8x70
636	25	93	18	M10x90

57. RUBBER CAP

641, 642, 644, 646



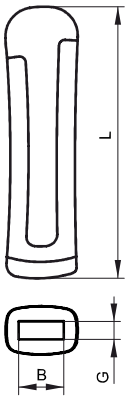


No.	ØD	ØD1	H1	Mark for screw
641	12	16	10	M5
642	14	18	11	M6
644	18	22	13	M8
646	20	26	16	M10

58. TWO-COMPONENT FLEXIBLE HANDLE

651, 752, 753, 754, 756



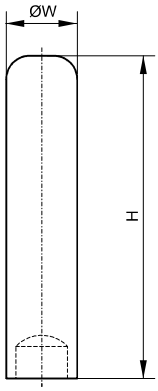


No.	B	G	L	Mark for
651	8	4	50	8...1, 9...1
752	10	5	60	0...2.. , 2...1, 7...1, 8...2, 9...2, 012, 022, 031, 052
753	15	6	90	0...4, 2...3, 7...3, 8...3, 9...3, 033, 112, 152,
754	18	8	110	0...6 , 2...5, 7...5, 8...4, 9...4, 035,
756	20	10	120	2...7, 8...6, 9...6, 048, 087

59. STEEL HANDLE

661, 663, 665, 667, 669





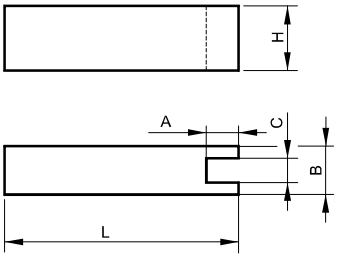
No.	⚖ [kg]	H	ØW	Mark for
661	0,06	62	13	232, 272
663	0,20	104	18	234, 274
665	0,34	116	22	236, 276
667	0,36	129	28	238, 278
669	0,40	145	28	239, 279

We reserve the right to make any changes without notice.

60. CLAMPING ARM

672, 673, 675, 676, 677



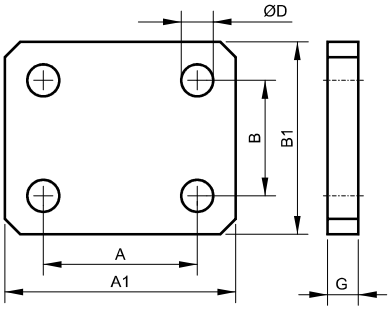


No.	[kg]	A	B	C	H	L	Mark for
672	0,10	8	16	8	16	65	232, 272
673	0,22	8	20	10	25	70	234, 274
675	0,44	15	25	12	30	75	236, 276
676	0,77	15	30	14	35	100	238, 278
677	0,76	15	30	16	35	100	239, 279

61. BASE PLATE

681, 683, 685, 687, 689



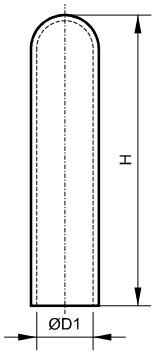


No.	[kg]	A	A1	B	B1	ØD	G	Mark for
681	0,06	25	37	18	30	5,2	5	232, 272
683	0,12	35	50	25	40	6,5	8	234, 274
685	0,18	40	60	30	50	8,5	8	236, 276
687	0,28	50	70	45	65	8,5	8	238, 278
689	0,41	60	80	50	70	10,5	10	239, 279

62. FLEXIBLE HANDLE

691, 693, 695, 697





No.	[kg]	ØD	H	Mark for
691	0,01	13	50	232, 272
693	0,02	18	90	234, 274
695	0,03	22	100	236, 276
697	0,04	28	110	238, 278, 239, 279

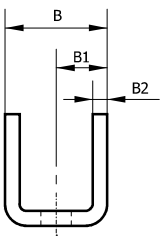
63. LATCH FOR HORIZONTAL CATCH CLAMPS

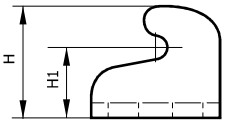
721Z, 723Z, 725Z

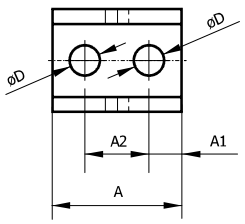


Latch for:

721Z - 721; 721B
723Z - 723; 723B
725Z - 725; 725B







No.	[kg]	A	A1	A2	B	B1	B2	øD	H	H1
721Z	**0,015**	22	5,5	11	17,5	8,75	2,5	5,2	19	12
723Z	**0,032**	29	7,5	14	21,0	10,50	3,0	6,5	28	19
725Z	**0,086**	43	12,0	19	28,0	14,00	4,0	8,5	37	25

We reserve the right to make any changes without notice.

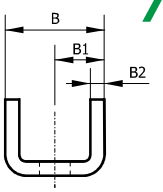
64. LATCH FOR VERTICAL CATCH CLAMPS

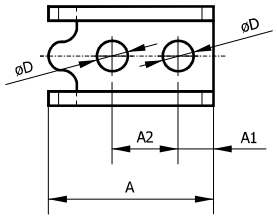
731Z, 733Z, 735Z



Latch for:

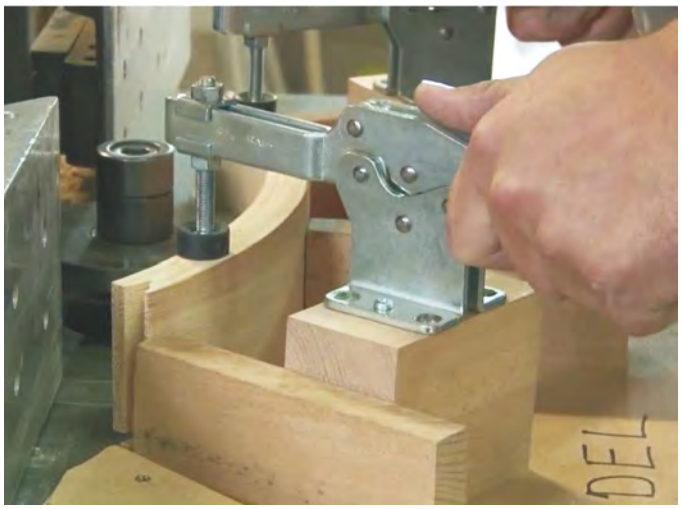
731Z - 731; 731B
733Z - 733; 733B
735Z - 735; 735B





No.	[kg]	A	A1	A2	B	B1	B2	øD	H	H1
731Z	**0,014**	26	5,5	11	17,5	8,75	2,5	5,2	12,7	4,5
733Z	**0,028**	35	7,5	14	21,0	10,50	3,0	6,5	16,1	6,0
735Z	**0,075**	51	12,0	19	28,0	14,00	4,0	8,5	21,5	8,0











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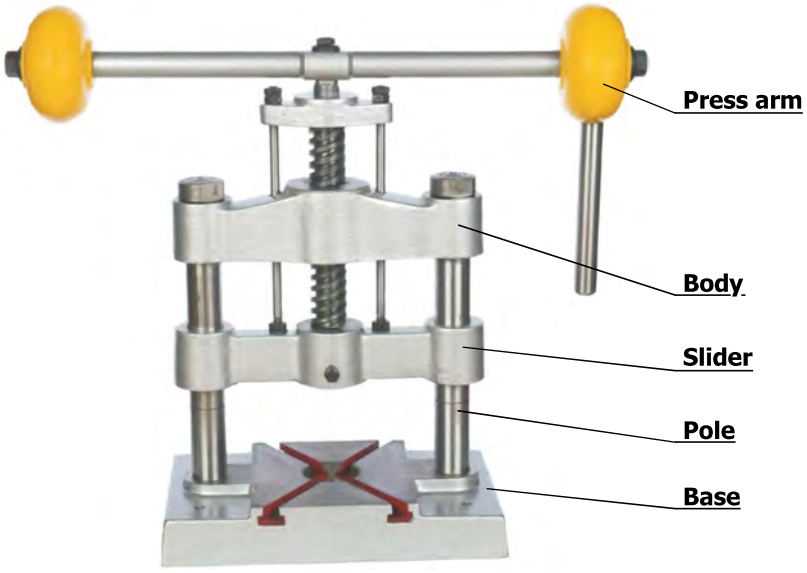
VIII. Manual presses

Manual screw presses are devices that exert pressure on the workpiece by rotating a screw in a stationary body that is connected to the base. The screw is rigidly connected to the press arm.

Rack and pinion manual presses are machines that operate by exerting static pressure on the workpiece through a gear connected to the handle. Constant readiness for work is ensured by a spring installed on the body.

The body is made of gray cast iron, and the loaded parts are made of alloy steel. Manual presses are used in assembly, stamping, punching, pressing, etc....

65. BALANCE SCREW HAND PRESS — PSB3000

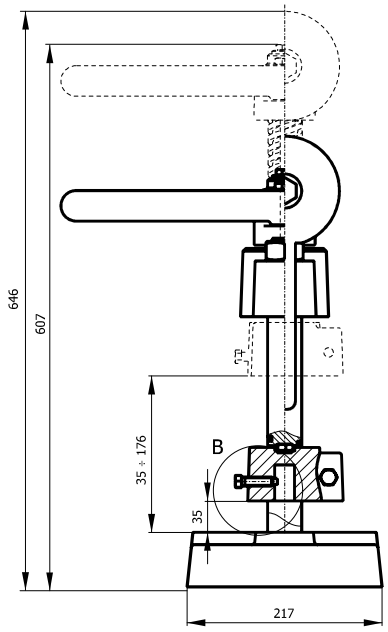


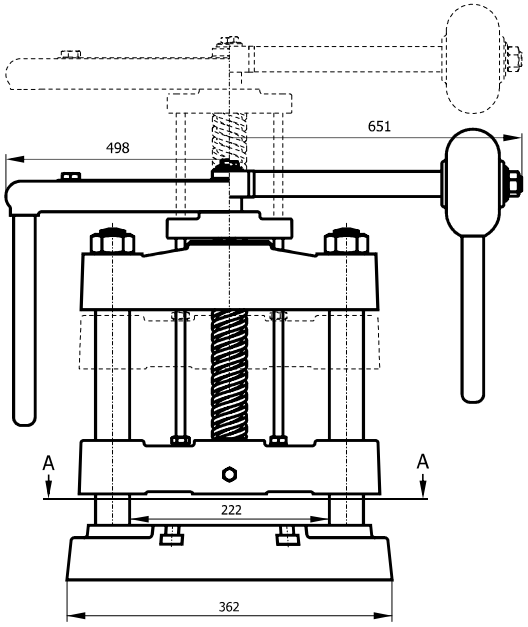
Pressure : 3000 daN
Weight : 53,4 kg

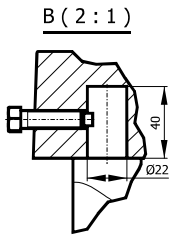
66. SCREW HAND PRESS WITH WHEEL — PSK3000

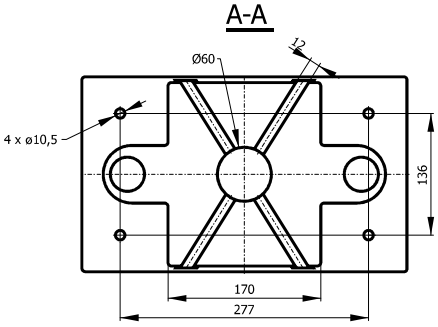


Pressure : 3000 daN
Weight : 57,6 kg







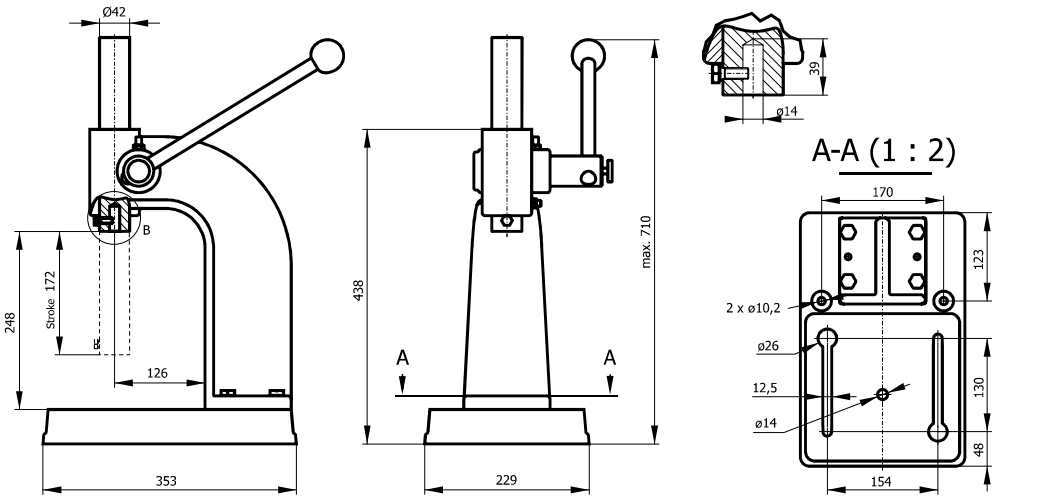


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67. RACK AND PINION HAND PRESS

PZ600





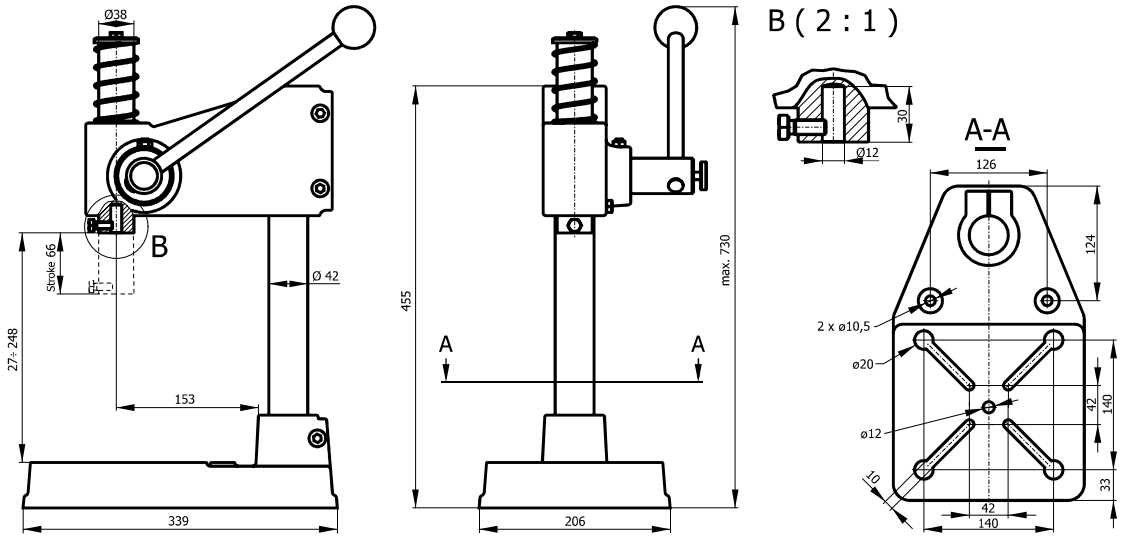
Pressure : 600 daN

Weight : 28,0 kg

68. RACK AND PINION HAND PRESS

PZ350





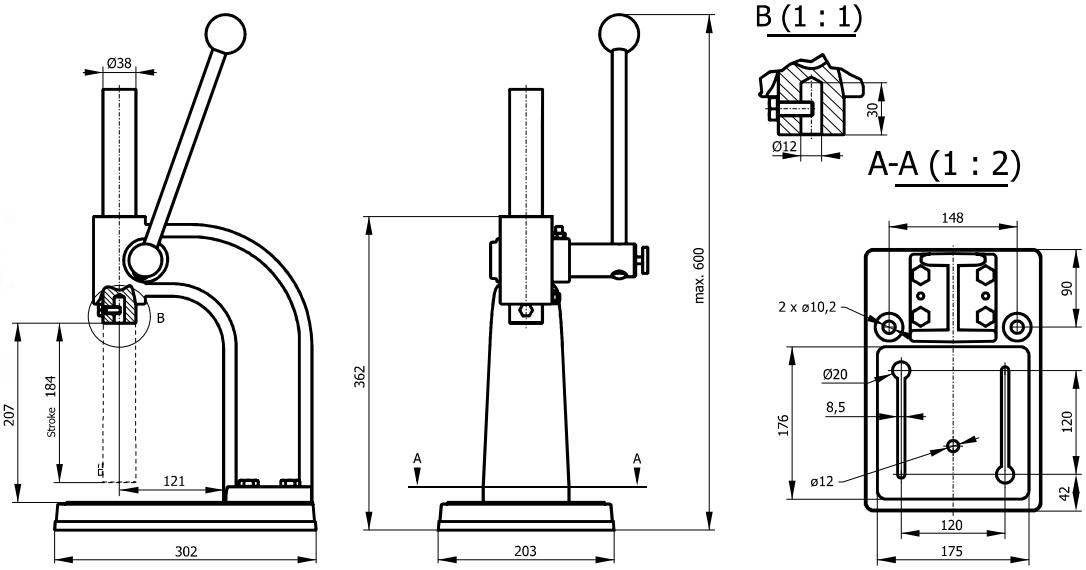
Pressure : 350 daN

Weight : 27,5 kg

69. RACK AND PINION HAND PRESS

PZ300





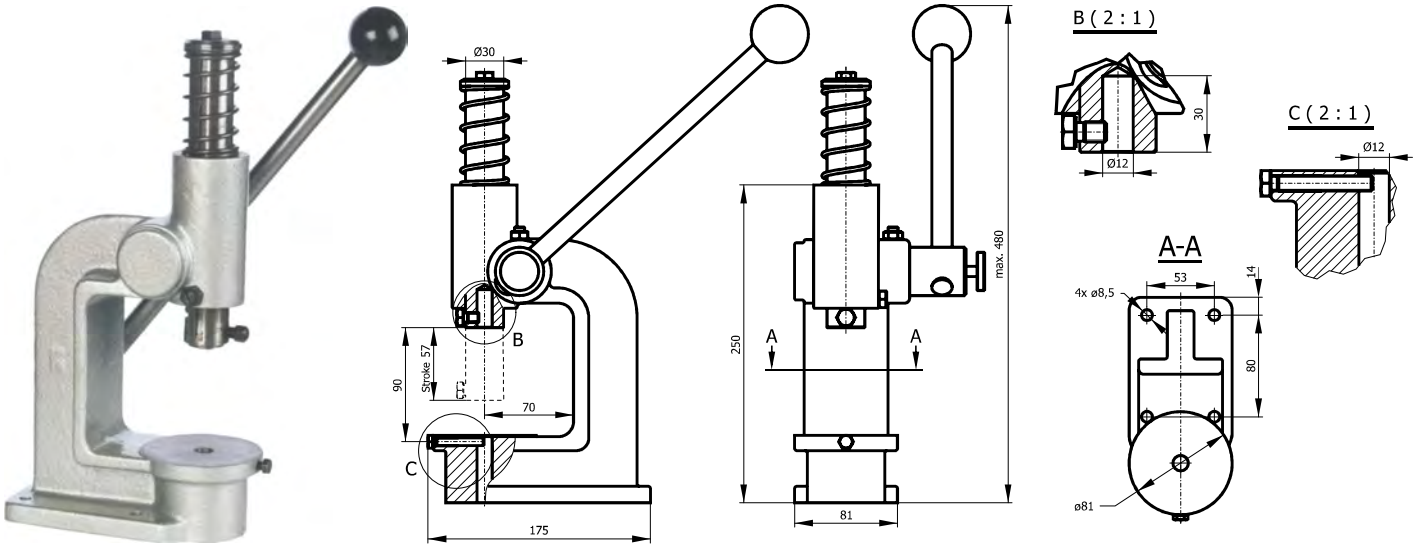
Pressure : 300 daN

Weight : 18,8 kg

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70. RACK AND PINION HAND PRESS

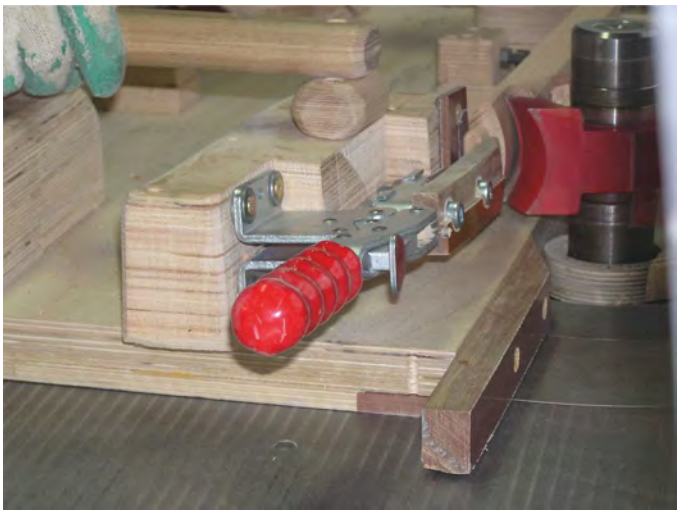
PZ150



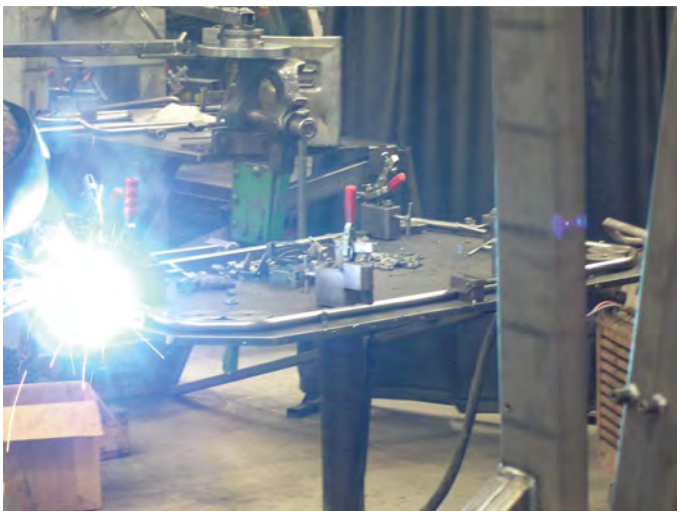
Pressure : 150 daN

Weight : 7,8 kg









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IX. Services

71. LASER CUTTING



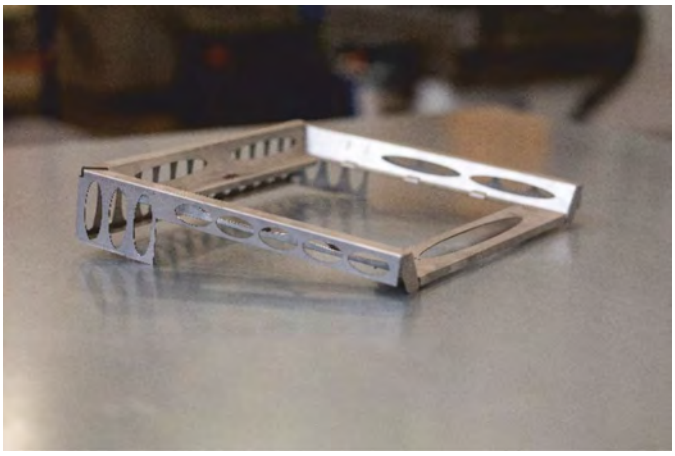
At RAIS-TOOLS we provide services in the field of laser cutting of aluminum, copper, brass and structural sheets.

This technology allows for the production of complex designs and details of any shape while maintaining a high level of precision and cutting accuracy at the level of +/- 0.05 mm and production repeatability.

Laser cutting in our company is carried out using fiber lasers from the renowned German company TRUMPF. They are characterized by flexibility and economy in cutting sheet metal, enabling the processing of non-ferrous metals, while ensuring the highest edge quality at maximum cutting head feeds.

We have laser cutters with a machining table size of 3000x1500mm:
- **TRUMPF LASER 3030 L95 – a 6 kW Fiber laser**,
- **TRUMPF LASER 3030 L49 – a 3 kW Fiber laser**,
- **KIMLA LASER – a 6 kW Fiber laser**.

Allowing cutting of sheet metal:
- cutting thickness: structural steel max 25mm, stainless steel 25mm, aluminum 25mm, brass and copper max 10mm,
- max sheet format 1500x3000mm.





72. SHEET METAL BENDING



In the area of sheet metal processing, we offer precision bending services using modern press brakes, which are characterized by:

- accuracy and repeatability of bent elements,
- flexibility in the selection of tools and bending accuracy for sheets from 0.5 mm thick (long sections) to 15 mm for short lengths,
- 6-axis rear bumper system with the use of advanced measuring instruments cooperating with the machine.

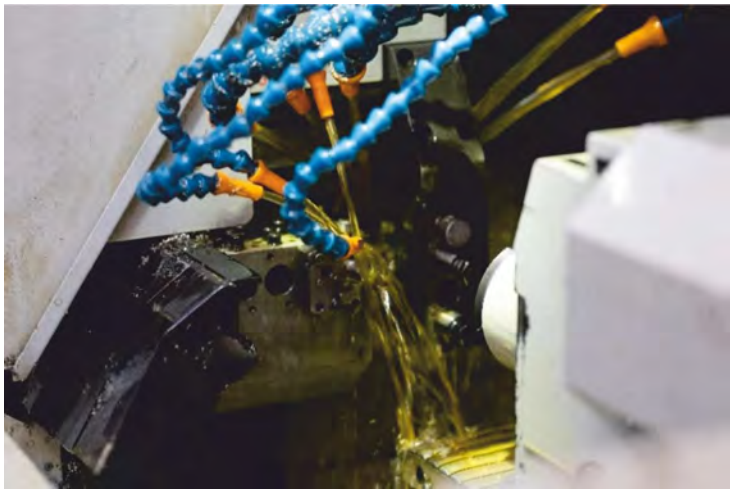
We have the following press brakes:
- **TRUMPF 3100 press brake**,
- **TRUMPF 7036 press brake**.

Machine parameters:
- Max. pressing force 1000 kN,
- Max. bending length 3000 mm.

This allows for bending of complex shapes and obtaining high quality small and medium elements.

We reserve the right to make any changes without notice.

73. CNC TURNING



Turning - a machining process consisting in removing a layer of material using tools with a precisely defined blade geometry. Thanks to computer control, this method allows for the production of details with an accuracy of one hundredth of a millimeter, and each obtained element is identical and meets high standards.
This technology optimally uses the material, and computer control translates into the speed, repeatability and precision of the process, which allows for obtaining optimal production costs

We have the following lathes:
- **ST-15**,
- **ST-15Y**,
- **CKZ 42**,
- **STAR SB 16**,
- **GOODWAY SW-42**.

Machine parameters:
- Rotation speed up to 10,000 rpm,
- Power 11.2 kW,
- Work in the XYZ axis



74. CNC MILLING



This technology is based on processing material in three planes X, Y and Z using milling cutters, allowing to obtain a detail with the required geometry. Computer control and process automation, similar to turning, allows obtaining products ensuring high accuracy, product matching and versatility, repeatability and production efficiency.

We have the following milling machines:
- **Haas DT1**,
- **Haas DT2**,
- **Avia FNE 50N**,
- **Avia VC600**.

Machine parameters:
- Rotation speed 10,000 rpm,
- Power 11.2 kW,
- Work in three axes XYZ.



We reserve the right to make any changes without notice.

75. ECCENTRIC PRESS CUTTING



As part of our production, we perform cutting and stamping using eccentric presses, this process is ideal for larger production series, and thanks to the use of dedicated equipment, it allows for quick and efficient forming of the material and obtaining any shape, while maintaining the structure of the material.

HEL-WITA eccentric press:
- 100 ton pressure,
- 690x1150 mm work table,
- automatic coil cutting system.

76. WELDING AND SPOT WELDING



Our offer is complemented by the welding process, we weld using MIG/MAG and TIG technology.

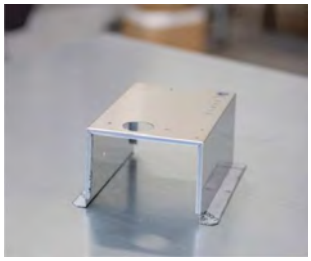
We have:
- **a robotic welding station for MIG/MAG welding**,
- **a TECNA welding machine**,
- **stations for manual welding**.

77. REMAINING SERVICES

As part of comprehensive service aimed at meeting the broad needs of our clients, we provide the following services:
- **finishing**: grinding, deburring min.: **ERBA 1.5kW smoothing machine**
- **locksmith services**: drilling, threading, chamfering,
- **cutting** e.g. profiles using a band saw,
- **marking/engraving** – Solaris laser marker,
- **external services**: powder coating, hot-dip galvanizing and electroplating anodizing and others according to customer needs,
- **assemblies**: rivets, nuts, pins and other elements and pre-assemblies into finished components.









CONTACT US

We respond to every request for quotation, we are open to new proposals for commercial and cooperative cooperation.

Do you have any questions? Reach out to us at: uslugi@rais.pl

We reserve the right to make any changes without notice.

We are the official distributor of the following companies:

AMF



Value Creator

IMAO



KOPAL®



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PURCHASE, DELIVERY AND PAYMENT TERMS

1. The sale of goods takes place on the basis of written orders, by phone or through the purchasing platform in accordance with its regulations. Written form means sending orders by e-mail to the address: biuro@rais.pl
2. It is possible to grant contractual trade discounts from the prices in the price list in accordance with the company's discount policy.
3. The order completion date is agreed individually and may change in the event of:
   - suspension of delivery for reasons attributable to the Ordering Party,
   - delay on the part of the Ordering Party in payment for previous deliveries,
   - failure of the Ordering Party to provide the Seller with information necessary to carry out the delivery,
   - force majeure.
4. The costs of delivery and transport within Poland are borne by:
   - the Seller - in the case of orders exceeding the amount of PLN 1,500.00 net,
   - the Ordering Party - in the case of orders up to the amount of PLN 1,500.00 net.
   Shipping costs outside Poland are covered by the Ordering Party.
5. Payment terms are agreed individually. .
6. Ownership of the goods passes to the Buyer after payment of the entire amount due for the delivered goods, and the issued VAT invoice constitutes at the same time the first request for payment.
7. The Ordering Party is obliged to immediately upon receipt of the Product check the compliance of the delivered goods with the order. It is obliged to check in particular: the condition of the shipment and the quality, quantity and assortment of the delivered goods, and also within 3 working days at the latest report any reservations in this respect to the carrier and the Seller by drawing up a non-conformity report.
8. In the event of finding defects or damage to the product, the Ordering Party has the right to file a complaint, which will be immediately considered. The warranty period is 12 months from the date of shipment.
9. Property rights
   We reserve property rights and copyrights to all contractual documents such as projects, photos, drawings, calculations and cost estimates. These documents may not be reproduced or disclosed to third parties without our consent. All rights to patents, utility models, etc. belong exclusively to us. Our products may only be reproduced with our written consent.
10. Liability
    We are not liable in the event of damage to health resulting from improper use of our products.

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e-mail: biuro@rais.pl

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