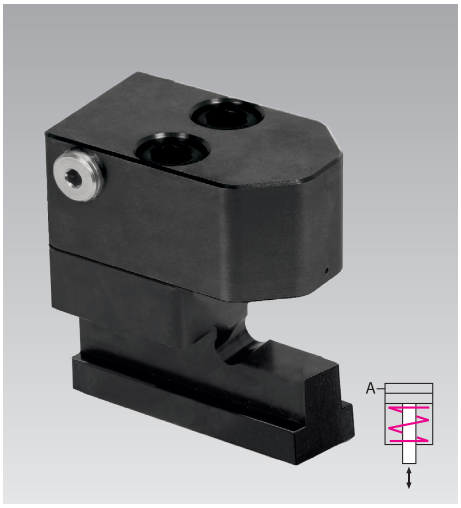
ROEMHELD

WZ 3.2205

Sliding Clamps

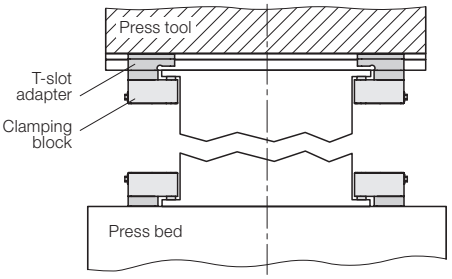
single acting, with spring return
max. operating pressure 400 bar, clamping force from 19 to 78 kN



Advantages

- High clamping force combined with compact design and low weight
- The clamping block is rounded, allowing for optimal adaptation in narrow spaces
- T-slot 14, 18, 22, 28 and 36 mm available
- Total stroke 8 and 12 mm
- Standardization of the die width and depth is not required
- Easy to retrofit

Installation option



Application

The sliding clamp is a hydraulic clamping element, used with low space requirements for clamping dies and molds in presses.

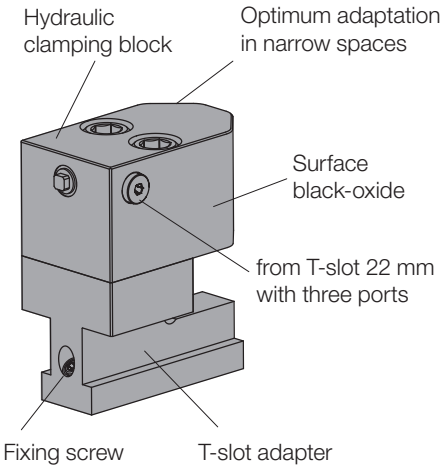
Due to their compact design, sliding clamps are particularly suitable for use in confined spaces.

The clamps are suitable for use in ambient temperatures up to a maximum of 120 °C.

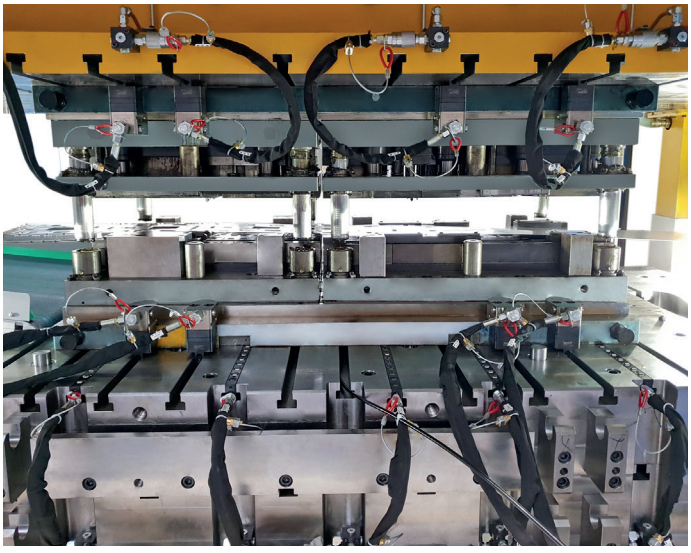
Description

The sliding clamp is manually positioned in the T-slots of the press. Hydraulic pressure on the piston is used to clamp on the edge of the die. Spring force is used to unclamp.

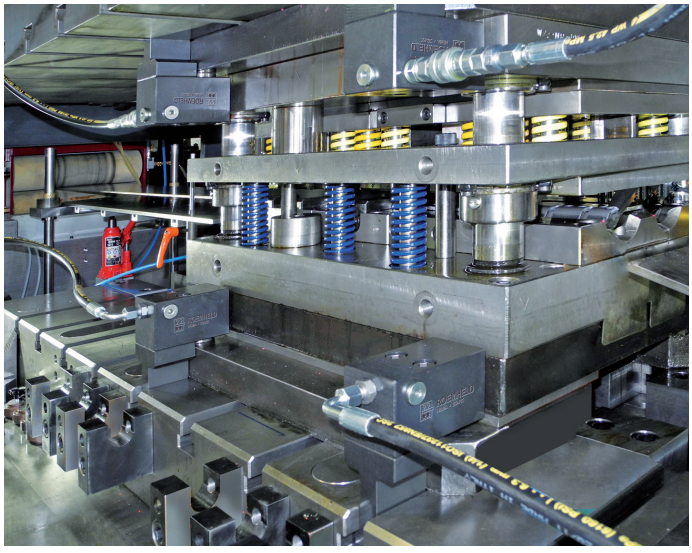
The sliding clamp consists of a hydraulic clamping block which will be fixed with two screws to a T-slot adapter.
The clamping block can also be directly screwed without T-slot adapter and can be ordered separately.



Application examples

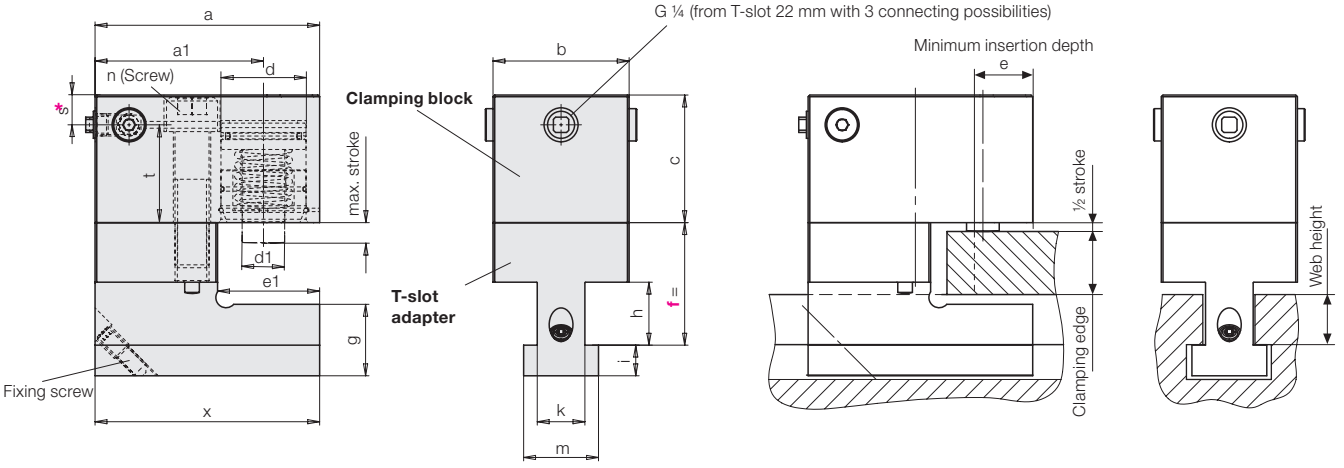


Sliding clamp with T-slot adapter in press bed and ram

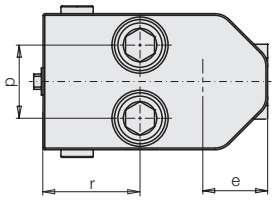


Sliding clamp with T-slot adapter in press bed and ram, roller bars and carrying consoles for tool insertion

Hydraulic sliding clamp complete, with T-slot adapter



* for T-slot 14 and 19.6 kN with just one oil connection, at the rear



Functional dimension "f": = ½ stroke
+ die clamping height
+ web height of the T-slot

Please specify when ordering.

Example of ordering **8 2203 1856 / F60**

Sliding clamp
Clamping force: 32 kN

T-slot
18 mm

Functional dimension "f" [mm]
Please specify when ordering

			Preferred sizes				
T-slot as per DIN 650	**[mm]**	**14**	**18**	**22**	**28**	**28**	**36**
Clamping force at 400 bar	**[kN]**	**19.6**	**32**	**50**	**50**	**78**	**78**
Stroke	[mm]	8	8	8	8	12	12
Oil volume	[cm³]	4	7	10	10	24	24
Dimension "f" min.	**[mm]**	**30**	**41**	**50**	**55**	**60**	**69**
Dimension "f" max.	**[mm]**	**75**	**90**	**106**	**112**	**118**	**127**
a	[mm]	83	104	111	111	132	132
a1	[mm]	65	81	85	85	99	99
b	[mm]	45	65	65	65	80	80
c	[mm]	40	47	50	50	75	75
d	[mm]	25	32	40	40	50	50
d1	[mm]	15	15	20	20	25	25
e (min. insertion depth)	[mm]	22	28	31	31	38	38
e1	[mm]	28	41	48	48	60	60
g	[mm]	20	24	32	42	42	53
h	[mm]	19	25	30	37	37	46
i	[mm]	8	10	14	18	18	23
k	[mm]	14	18	22	28	28	36
m	[mm]	21	28	35	44	44	54
n (screw DIN 912, 10.9)		M10	M16	M16	M16	M20	M20
p	[mm]	26	36	36	36	43	43
r	[mm]	40	50	50	50	57	57
s	[mm]	11	12	12	12	17.5	17.5
t	[mm]	29	35	38	38	57	57
x	[mm]	78	104	104	104	132	132
Clamping block with T-slot adapter							
Weight	[kg]	1.5	3.2	4.2	5.4	7.8	9.7
Part no.		**822021456**	**822031856**	**822042256**	**822042856**	**822052856**	**822053656**
Clamping block, separate							
Weight	[kg]	0.9	1.9	2.3	2.3	4.9	4.9
Part no.		**822021306**	**822031306**	**822041306**	**822041306**	**822051306**	**822051306**

Please consult us if aggressive spray is used. Max. operating pressure 400 bar, max. operating temperature 120 °C.
Further sizes and special versions are available on request

Preferred sizes with volume pricing:
These items offer shorter lead times and tiered pricing based on order quantity.

Subject to modifications

Parking station

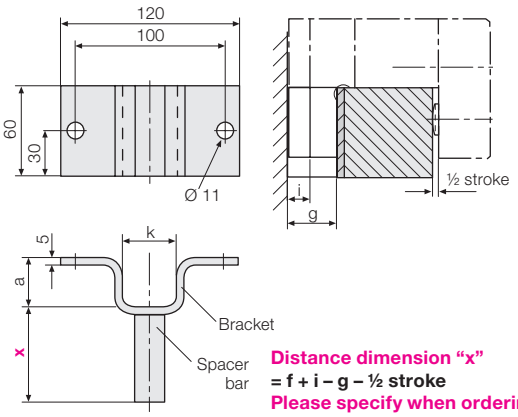
accommodates the sliding clamp during die change

T-slot as per DIN 650	[mm]	14	18	22	28	36
a	[mm]	21	25	33	43	53
k	[mm]	23	30	37	46	46
i	[mm]	8	10	14	18	23
g	[mm]	20	24	32	42	42

Parking station complete (with bracket and spacer bar)

Part no.	**827541450**	**827541850**	**827542250**	**827542850**	**827543650**
Bracket					
Part no.	**827541400**	**2754180**	**2754220**	**2754280**	**550700117**
Spacer bar					
Part no.	**504951400**	**2754500**	**2754500**	**2754500**	**504951358**

Values in brackets for T-slot 14 mm

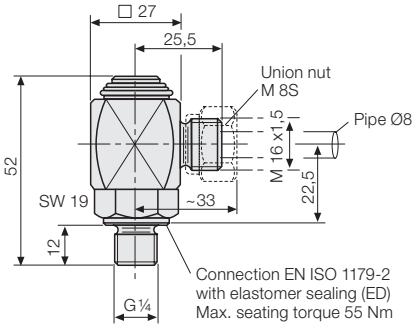


Distance dimension "x"
= f + i – g – ½ stroke
Please specify when ordering

Angular rotary coupling (M 8S / G 1/4)

Part no. 9208176

For easier handling when changing dies.
Max. operating pressure 400 bar

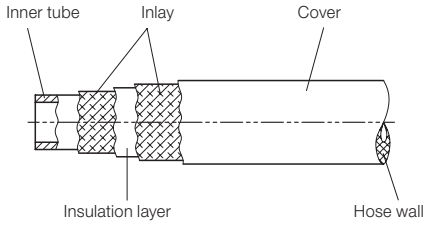


Hydraulic high-pressure hoses

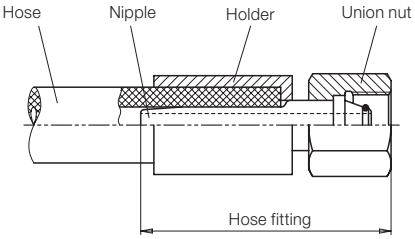
assembled ready for connection
max. operating pressure 250 / 500 bar

High-pressure hoses are used for energy and signal transmission in hydraulic systems. The hose lengths should be generously dimensioned to avoid kinks, abrasion marks, torsion, tensile and compressive stress and unacceptable bending radii.

Hose structure



Hose union

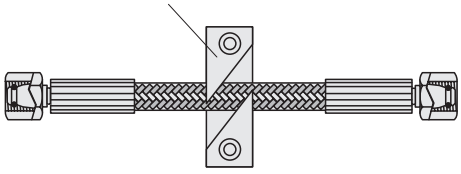


High-pressure hose		ND	4	4	6.3	6
Max. operating pressure		[bar]	250	500	250	500
Port size			8L	8S	8L	8S
Union nut			m8L (M 14 x 1.5)	m8S (M 16 x 1.5)	m8L (M 14 x 1.5)	m8S (M 16 x 1.5)
SW		[mm]	17	19	17	19
Preferred lengths	L = 500	[mm]	**9375100500**	**9375200500**	**9320600500**	**9370600500**
	1000	[mm]	**9375101000**	**9375201000**	**9320601000**	**9370601000**
	1600	[mm]	**9375101600**	**9375201600**	**9320601600**	**9370601600**
	2500	[mm]	**9375102500**	**9375202500**	**9320602500**	**9370602500**

Other hose connections left / right on request. For further information and technical data, see data sheet WZ 11.3800

Accessory

Hose holder made from Delrin
Part no. 550650003



Other accessories

Hydraulic power units
see product group 7

Hydraulic accessories
see product group 11