















































Accessories

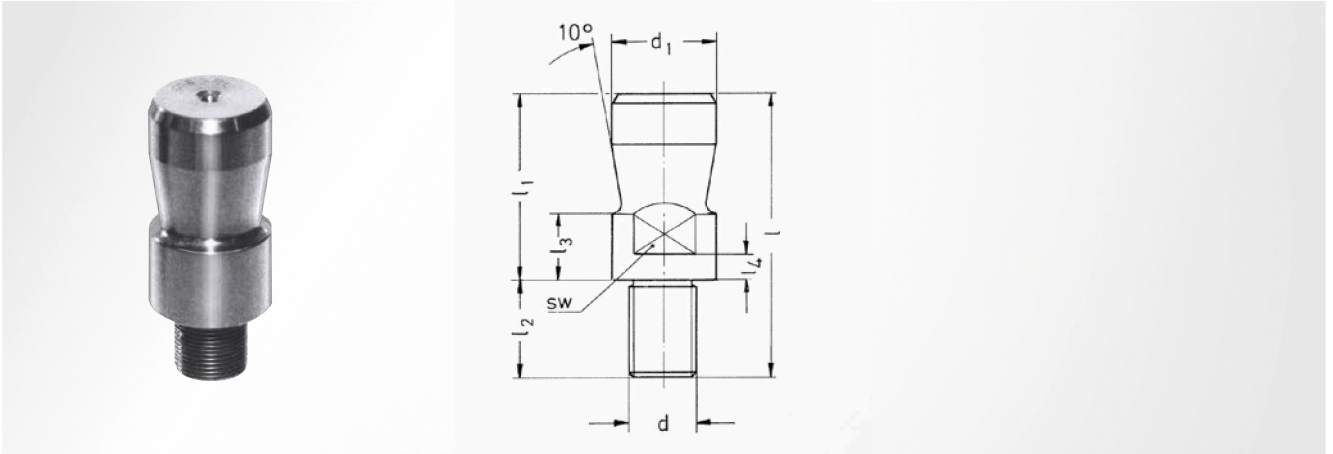
- Carrying elements
- Clamping socket, receiving chucks
- Magnets
- Screws and threaded pins
- Gauge strips and foil tapes
- Casting resins and model resin
- Locking agents and adhesives
- High-performance lubricants



SZ4035 8.3 	SZ4080 8.4 	SZ4125 8.5 	SZ4129 8.5 	SZ4160 8.6 	SZ4161 8.7 
SZ4381 8.8 	SZ4385 8.9 	SZ4390 8.10 	SZ4391 8.11 	SZ4351 8.12 	SZ4371 8.13 
SZ4432 8.14 	SZ4434 8.15 	SZ4512 8.16 	SZ4513 8.17 	SZ4516 8.18 	SZ8510 8.19 
SZ8515 8.21 	SZ8512 8.23 	SZ8530 8.25 	SZ9335 8.26 	SZ9336 8.27 	SZ9337 8.27 
SZ7900 8.28 	SZ7905 8.30 	SZ9511 8.31 	SZ9512 8.31 	SZ9514 8.32 	SZ9515 8.32 
SZ9850 8.33 	SZ9853 8.33 	SZ9006 8.34 	SZ9005 8.34 	SZ9014 8.35 	SZ9740 8.35 
SZ9741 8.36 	SZ9742 8.36 	SZ9743 8.37 	SZ9717 8.37 	SZ9744 8.38 	SZ960x 8.38 
SZ97042 8.39 	SZ962x 8.39 	SZ9800 8.40 	SZ9810 8.40 		

SZ4035 Clamping socket

with thread



DIN ISO 10242

Material

Steel 1.0503 (C45)

Note

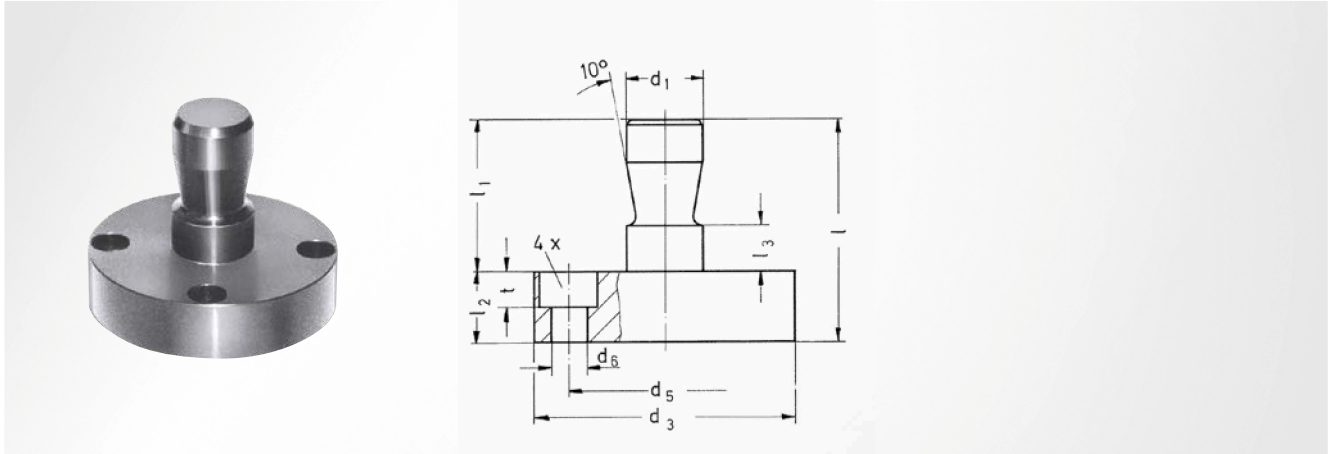
used for tightening the die set upper plate with the press ram; suitable for all die sets with thread in upper plate; plug diameters are in accordance with the standardised press plunger ram holes

d_1^{f9}	d	l	l_1	l_2	l_3	l_4	Item number
20	M16 x 1.5	58	40	18	12	4	SZ4035 16 x 20
25	M16 x 1.5	68	45	23	16	6	SZ4035 16 x 25
25	M20 x 1.5	68	45	23	16	6	SZ4035 20 x 25
32	M20 x 1.5	79	56	23	16	6	SZ4035 20 x 32
32	M24 x 1.5	79	56	23	16	6	SZ4035 24 x 32

d_1^{f9}	d	l	l_1	l_2	l_3	l_4	Item number
40	M24 x 1.5	93	70	23	26	12	SZ4035 24 x 40
40	M27 x 2	93	70	23	26	12	SZ4035 27 x 40
40	M30 x 2	93	70	23	26	12	SZ4035 30 x 40
50	M30 x 2	108	80	28	26	12	SZ4035 30 x 50
65	M42 x 3	128	100	28	26	12	SZ4035 42 x 65

SZ4080 Clamping socket

with flange



DIN 9859 / ISO 10242

Material

Steel 1.0503 (C45)

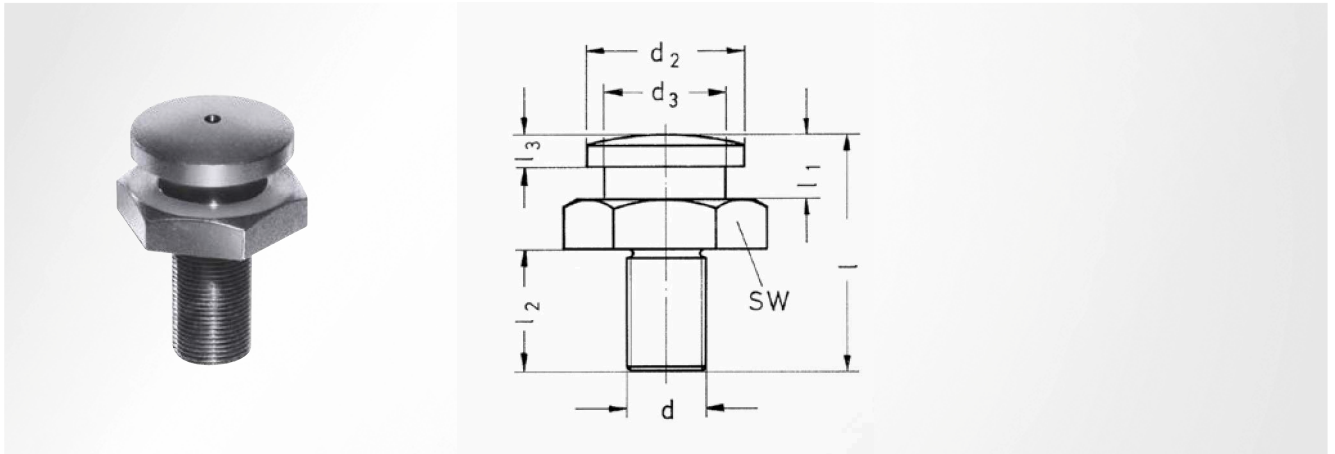
Note

Are screwed together with the die set upper plate; achieve more favourable guide rates with a large stroke due to the use of longer guide pillars

d_1^{f9}	d_3	d_5	d_6	l	l_1	l_2	l_3	t	Item number
20	68	50	9	58	40	18	12	9	SZ4080 20 x 068
25	83	65	9	63	45	18	16	9	SZ4080 25 x 083
32	98	80	9	79	56	23	16	9	SZ4080 32 x 098
40	123	105	9	93	70	23	26	9	SZ4080 40 x 123

SZ4125 Receiving chucks

with thread



Material

Steel 1.0503 (C45)

Note

Suitable for all die sets with thread in upper plate

Suitable for receiving chuck

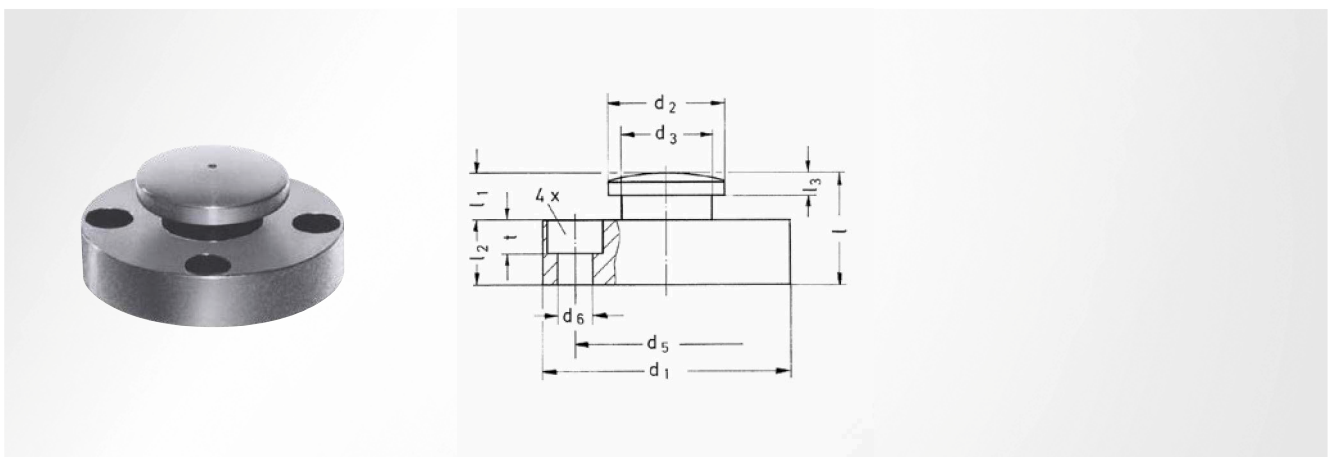
SZ4160; SZ4161

d ₂	d ₃	d	l	l ₁	l ₂	l ₃	Item number
32	25	M16 x 1.5	48	13	25	6.5	SZ4125 16 x 32
48	32	M20 x 1.5	65	19	34	9.5	SZ4125 20 x 48

d ₂	d ₃	d	l	l ₁	l ₂	l ₃	Item number
48	32	M24 x 1.5	69	19	38	9.5	SZ4125 24 x 48
48	32	M30 x 2	75	19	42	9.5	SZ4125 30 x 48

SZ4129 Receiving chucks

with flange



Material

Steel 1.0503 (C45)

Note

Are screwed together with the die set upper plate

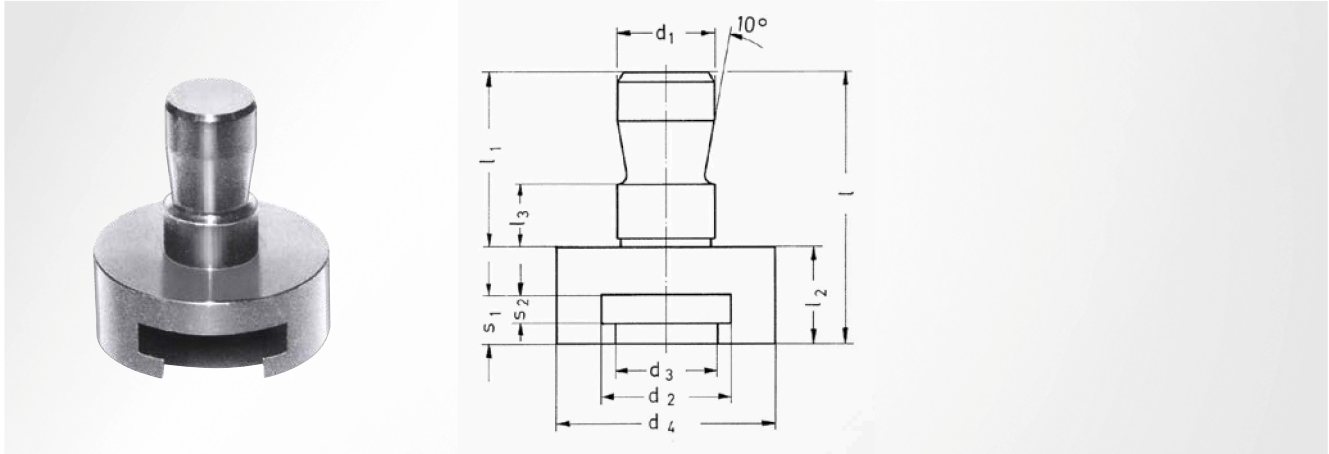
Suitable for receiving chuck

SZ4160; SZ4161

d ₁	d ₂	d ₃	d ₅	d ₆	l	l ₁	l ₂	l ₃	t	Item number
68	32	25	50	9	31	13	18	6.5	9	SZ4129 068 x 32
83	48	32	65	9	37	19	18	9.5	9	SZ4129 083 x 48
98	48	32	80	9	42	19	23	9.5	9	SZ4129 098 x 48
123	48	32	105	9	42	19	23	9.5	9	SZ4129 123 x 48

SZ4160 Receiving chuck

with receiving chucks



Material

Steel 1.0503 (C45)

Suitable for receiving chucks

SZ4125; SZ4129

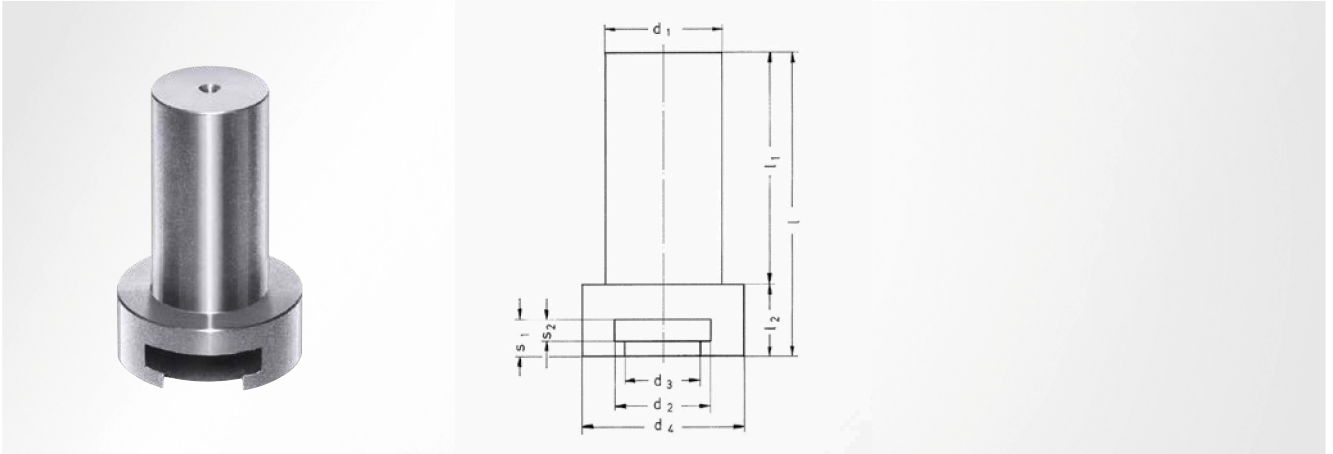
Note

Receiving chucks with wobblers are used for the loose connection of the top part of a pillar guide tool with the press ram; plug diameters are in accordance with the standardised press plunger ram holes

d_1^{f9}	d_2	d_3	d_4	l	l_1	l_2	l_3	s_1	s_2	Item number
25	33	26	56	70	45	25	16	13	7	SZ4160 25 x 33
32	49	33	80	86	56	30	16	19	10	SZ4160 32 x 49
40	49	33	80	100	70	30	26	19	10	SZ4160 40 x 49

SZ4161 Receiving chuck

blank



Material

Steel 1.0503 (C45)

Note

Mounting blank with centring for individual rework

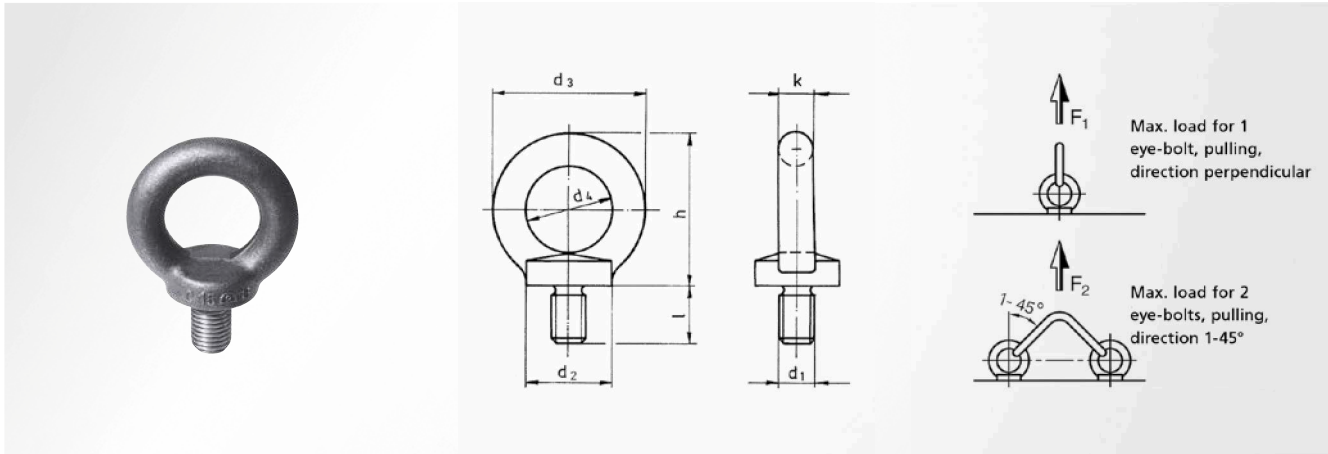
Suitable for receiving chucks

SZ4125; SZ4129

d_1	d_2	d_3	d_4	l	l_1	l_2	s_1	s_2	Item number
40	33	26	56	105	80	25	13	7	SZ4161 40 x 33
50	49	33	80	120	90	30	19	10	SZ4161 50 x 49
60	49	33	80	130	100	30	19	10	SZ4161 60 x 49

SZ4381 Eye-bolt

static



DIN 580

Material

Steel 1.141 (C15-E)

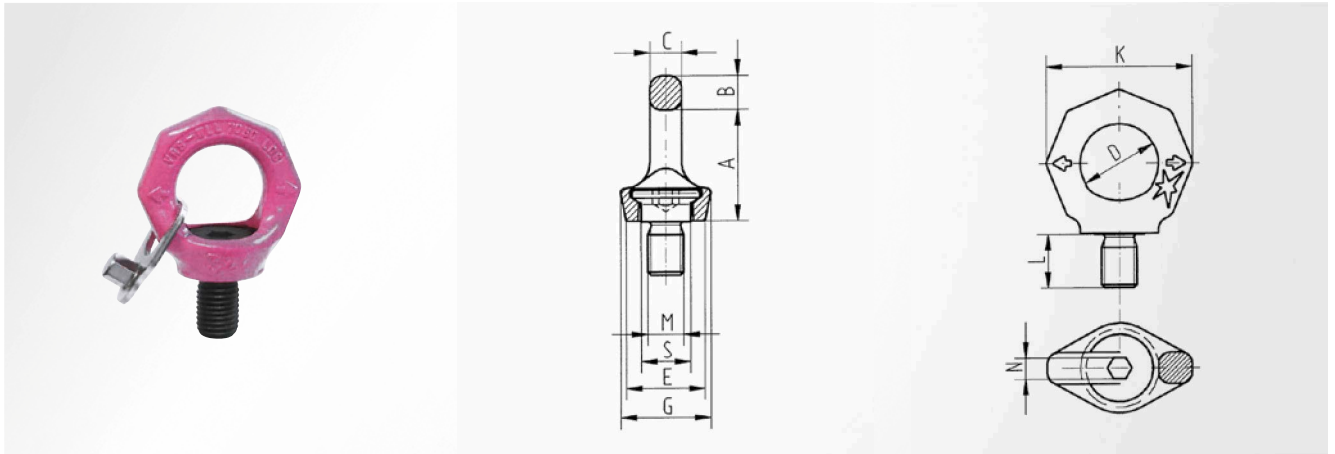
Note

Shear loads on the eye-bolt not permitted; specification of the load capacity (F_1/F_2) applicable for the eye-bolt; attention: completely screw in the eye-bolt; load capacity F_2 is applicable for two eye-bolts together

d_1	F_1 t	F_2 t	d_2	d_3	d_4	l	h	k	Item number
M8	0.14	0.10	20	36	20	13.0	36	8	SZ4381 08
M10	0.23	0.17	25	45	25	17.0	45	10	SZ4381 10
M12	0.34	0.24	30	54	30	20.5	53	12	SZ4381 12
M16	0.70	0.50	35	63	35	27.0	62	14	SZ4381 16
M20	1.20	0.86	40	72	40	30.0	71	16	SZ4381 20
M24	1.80	1.29	50	90	50	36.0	90	20	SZ4381 24

SZ4385 Eye-bolt

with key, hexagon shape



Material

Steel 1.6541; forged

Minimum screw-in length

1 x M in steel (minimum quality 235JR[1.0037]);
 1.25 x M in cast (GG25); 2 x M in aluminium alloys;
 2.5 x M in light alloys with low tensile strength

Note

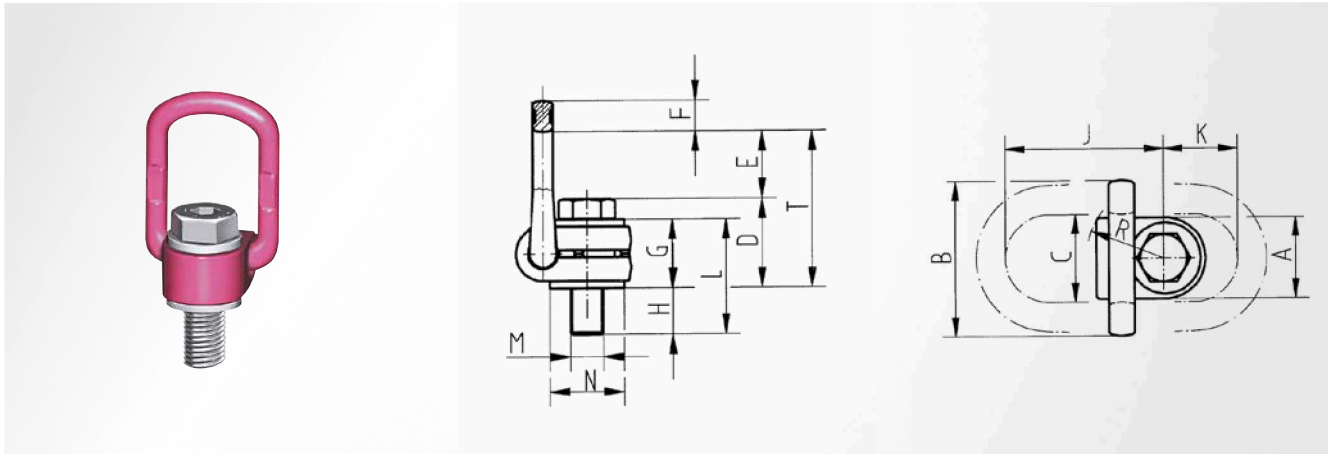
Electromagnetic crack testing in accordance with
 DIN 5691 / EN 1677; rotatable in screwed condition;
 not suitable for rotating under load; before mounting
 the lifting accessory, adjust to the direction of the force

M	Load capacity t	A	B	C	D	E	G	K	L	N	S	Item number
M8	0.40	34	11	8.5	25	25	28	47	12	6	16.0	SZ4385 08
M10	0.40	34	11	8.5	25	25	28	47	15	6	15.0	SZ4385 10
M12	0.75	42	13	10.0	30	30	34	56	18	8	18.0	SZ4385 12
M16	1.50	49	15	14.0	35	35	40	65	24	10	22.0	SZ4385 16
M20	2.30	57	17	16.0	40	40	50	75	30	12	27.5	SZ4385 20
M24	3.20	69	21	19.0	48	48	60	90	36	14	33.0	SZ4385 24
M30	4.50	86	26	24.0	60	60	75	112	45	17	41.5	SZ4385 30

Type of stop										
Number of rope lines	1	1	2	2	2	2	2	3, 4	3, 4	3, 4
Inclination angle α	0°	90°	0°	90°	0–45°	45–60°	asymmetrical	0–45°	45–60°	asymmetrical
Load weight in tonnes, tightly screwed and adjusted to the pulling direction										
SZ4385.08	1 t	0.40 t	2 t	0.8 t	0.56 t	0.40 t	0.40 t	0.84 t	0.60 t	0.40 t
SZ4385.10	1 t	0.40 t	2 t	0.8 t	0.56 t	0.40 t	0.40 t	0.84 t	0.60 t	0.40 t
SZ4385.12	2 t	0.75 t	4 t	1.5 t	1.00 t	0.75 t	0.75 t	1.60 t	1.12 t	0.75 t
SZ4385.16	4 t	1.50 t	8 t	3.0 t	2.10 t	1.50 t	1.50 t	3.15 t	2.25 t	1.50 t
SZ4385.20	6 t	2.30 t	12 t	4.6 t	3.22 t	2.30 t	2.30 t	4.83 t	3.45 t	2.30 t
SZ4385.24	8 t	3.20 t	16 t	6.4 t	4.48 t	3.20 t	3.20 t	6.70 t	4.80 t	3.20 t
SZ4385.30	12 t	4.50 t	24 t	9.0 t	6.30 t	4.50 t	4.50 t	9.40 t	6.70 t	4.50 t

SZ4390 Side-load hoist ring

rotatable



Minimum screw-in length

1 x M in steel (minimum quality 235JR[1.0037]);
 1.25 x M in cast (GG25); 2 x M in aluminium alloys;
 2.5 x M in light alloys with low tensile strength

Note

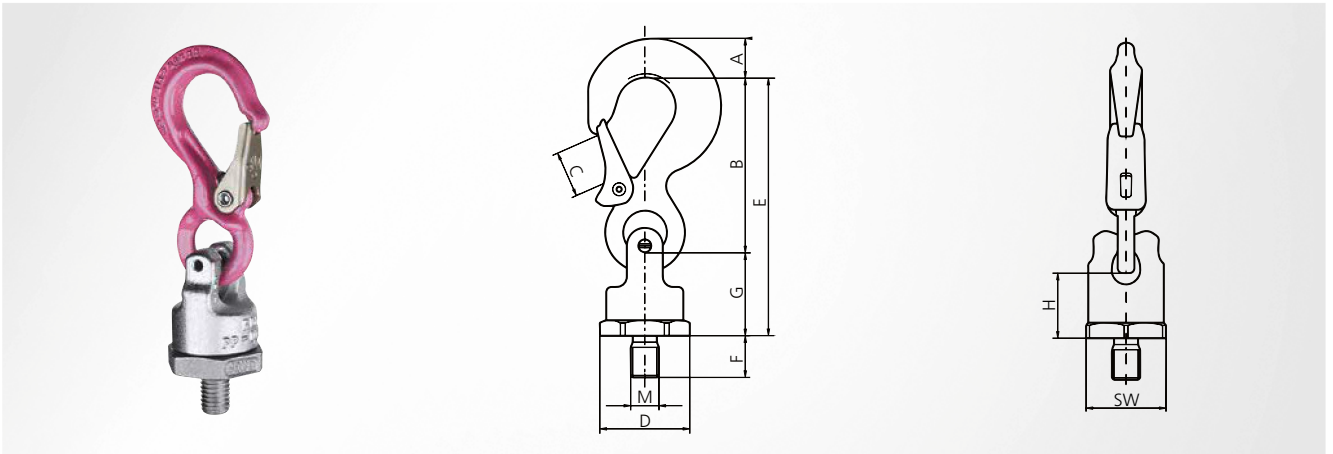
Not suitable for rotating under load; before mounting the lifting accessory, adjust to the direction of the force; rotatable from all directions, collapsible and always adjusts to the direction of the load; carries the full load in every installation position; the supplied screw with a minimum strength of 8.8 is crack tested

M	Load capacity t	A	B	C	D	E	F	G	H	J	K	L	N	R	T	Item number
M8	0.30	30	54	34	35	40	10.0	29	11	75	45	40	32	32	75	SZ4390 08
M10	0.63	30	54	34	36	39	10.0	29	16	75	45	45	32	32	75	SZ4390 10
M12	1.00	32	54	34	37	38	10.0	29	21	75	45	50	32	32	75	SZ4390 12
M16	1.50	33	56	36	46	39	13.5	36	24	86	45	60	38	38	85	SZ4390 16
M20	2.50	50	82	54	55	55	16.5	43	32	116	61	75	50	48	110	SZ4390 20
M24	4.00	50	82	54	58	66	16.5	43	37	116	61	80	50	48	125	SZ4390 24
M30	5.00	60	103	65	80	67	22.5	61	49	151	80	110	60	67	147	SZ4390 30

Type of stop										
Number of rope lines	1	1	2	2	2	2	2	2	3, 4	3, 4
Inclination angle β	0°	90°	0°	90°	0–45°	45–60°	asymmetrical	0–45°	45–60°	asymmetrical
Load weight in tonnes, tightly screwed and adjusted to the pulling direction										
SZ4390.08	0.30 t	0.30 t	0.60 t	0.60 t	0.42 t	0.30 t	0.30 t	0.63 t	0.45 t	0.30 t
SZ4390.10	0.63 t	0.63 t	1.26 t	1.26 t	0.88 t	0.63 t	0.63 t	1.32 t	0.95 t	0.63 t
SZ4390.12	1.00 t	1.00 t	2.00 t	2.00 t	1.40 t	1.00 t	1.00 t	2.11 t	1.50 t	1.00 t
SZ4390.16	1.50 t	1.50 t	3.00 t	3.00 t	2.10 t	1.50 t	1.50 t	3.15 t	2.25 t	1.50 t
SZ4390.20	2.50 t	2.50 t	5.00 t	5.00 t	3.50 t	2.50 t	2.50 t	5.25 t	3.75 t	2.50 t
SZ4390.24	4.00 t	4.00 t	8.00 t	8.00 t	5.60 t	4.00 t	4.00 t	8.40 t	6.00 t	4.00 t
SZ4390.30	5.00 t	5.00 t	10.00 t	10.00 t	7.00 t	5.00 t	5.00 t	10.50 t	7.50 t	5.00 t

SZ4391 Load hook

rotatable



Minimum screw-in length

- 1 x M in steel (minimum quality 235JR[1.0037]);
- 1.25 x M in cast (GG25); 2 x M in aluminium alloys;
- 2.5 x M in light alloys with low tensile strength

Note

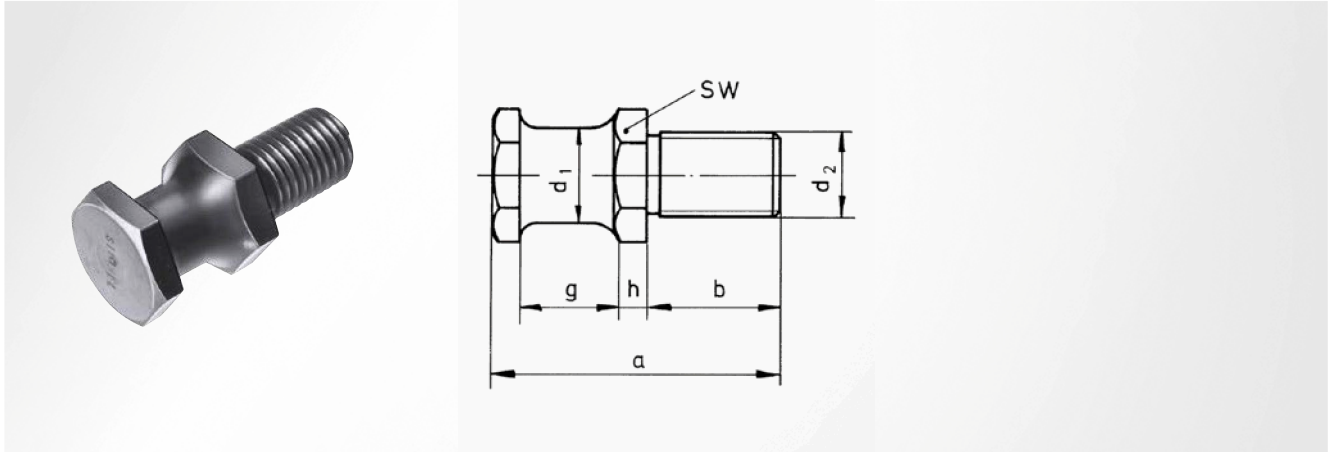
Not suitable for rotating under load; running in two sets of ball bearings for jolt-free tipping, rotating and turning; suitable for all lifting accessories; no protruding hook tip; forged, hardened and tempered safety latch-in hook tip, thus no bending possible; 3-way winding; stainless steel double torsion spring; thickened hook tip

M	Load capacity t	A	B	C	D	E	F	G	H	Item number
M12	0.63	13	75	18	40	116	18	41	34	SZ4391 12
M16	1.50	20	97	25	46	147	25	50	40	SZ4391 16
M20	2.50	28	126	30	61	187	30	61	50	SZ4391 20
M24	4.00	36	150	35	78	227	36	77	62	SZ4391 24
M30	5.00	37	174	40	95	267	45	93	77	SZ4391 30
M36	8.00	49	208	48	100	310	54	102	84	SZ4391 36

Type of stop										
Number of rope lines	1	1	2	2	2	2	2	3,4	3,4	3,4
Inclination angle α	0°	90°	0°	90°	0–45°	45–60°	asymmetrical	0–45°	45–60°	asymmetrical
Load weight in tonnes, tightly screwed and adjusted to the pulling direction										
SZ4391.12	0.63 t	0.63 t	1.26 t	1.26 t	0.88 t	0.63 t	0.63 t	1.32 t	0.95 t	0.63 t
SZ4391.16	1.50 t	1.50 t	3.00 t	3.00 t	2.10 t	1.50 t	1.50 t	3.15 t	2.25 t	1.50 t
SZ4391.20	2.50 t	2.50 t	5.00 t	5.00 t	3.50 t	2.50 t	2.50 t	5.25 t	3.75 t	2.50 t
SZ4391.24	4.00 t	4.00 t	8.00 t	8.00 t	5.60 t	4.00 t	4.00 t	8.40 t	6.00 t	4.00 t
SZ4391.30	6.70 t	5.00 t	13.40 t	10.00 t	7.00 t	5.00 t	5.00 t	10.50 t	7.50 t	5.00 t
SZ4391.36	10.00 t	8.00 t	20.00 t	16.00 t	11.20 t	8.00 t	8.00 t	16.80 t	12.00 t	8.00 t

SZ4351 Carrying screw

with thread



VDI 3366

Material

Steel 1.0503 (C45)

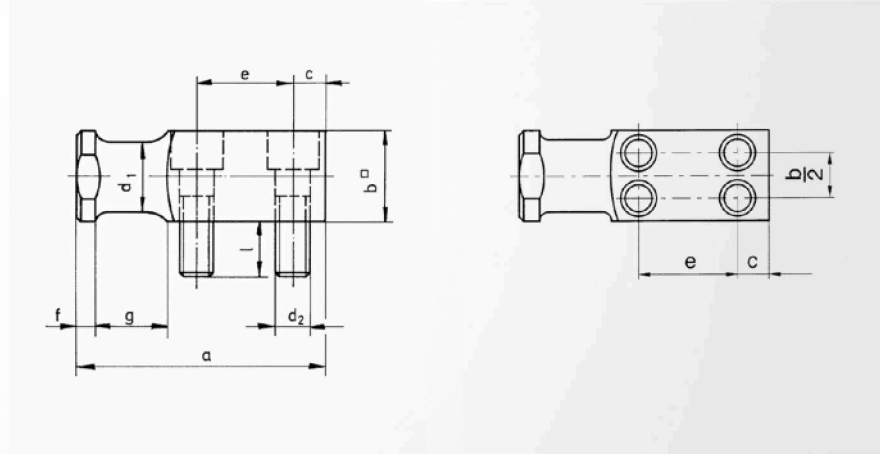
Note

Lateral screwing in on the part; arrange 4 carrying screws on the part; the load can be distributed over 2 carrying screws when turning the part

d_1	d_2	a	b	g	h	tool weight kg _{max.}	Item number
16	M16	58	28	20	5	640	SZ4351 16
20	M20	68	34	22	6	1000	SZ4351 20
25	M24	78	38	25	8	2000	SZ4351 25
32	M30	95	45	32	10	3000	SZ4351 32
40	M36	118	56	40	12	5000	SZ4351 40

SZ4371 Lifting lug

with screws



VDI 3366

Material

Steel 1.0503 (C45)

Note

Fixing via hexagon socket screws (included in the scope of delivery); arrange 4 carrying screws on the part; the load can be distributed over 2 carrying screws when turning the part; hob the lifting lugs into the tool part; lifting lugs from $d_1 = 63$ mm have 4 screws

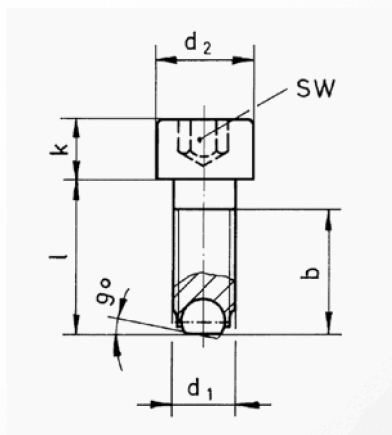
Scope of supply

SZ8510

d_1	d_2	l	a	b	c	e	f	g	h	tool weight kg _{max.}	Item number
16	M8 x 25	14.0	80	20	10	34	6	20	6	640	SZ4371 16
20	M10 x 30	16.0	90	25	10	37	8	25	8	1260	SZ4371 20
25	M12 x 40	18.0	100	35	12	38	8	30	10	2500	SZ4371 25
32	M16 x 45	22.5	120	40	16	46	10	32	10	4000	SZ4371 32
40	M20 x 60	31.5	140	50	18	54	10	40	12	6400	SZ4371 40
50	M24 x 70	35.5	160	60	22	59	12	45	14	10000	SZ4371 50
63	M20 x 100	41.5	200	80	20	78	12	50	16	16000	SZ4371 63
80	M24 x 120	45.5	250	100	25	100	15	65	18	25000	SZ4371 80
100	M30 x 140	52.0	300	120	30	125	15	80	20	40000	SZ4371 100

SZ4432 Ball pressure screws

with cylindrical head and hexagon socket



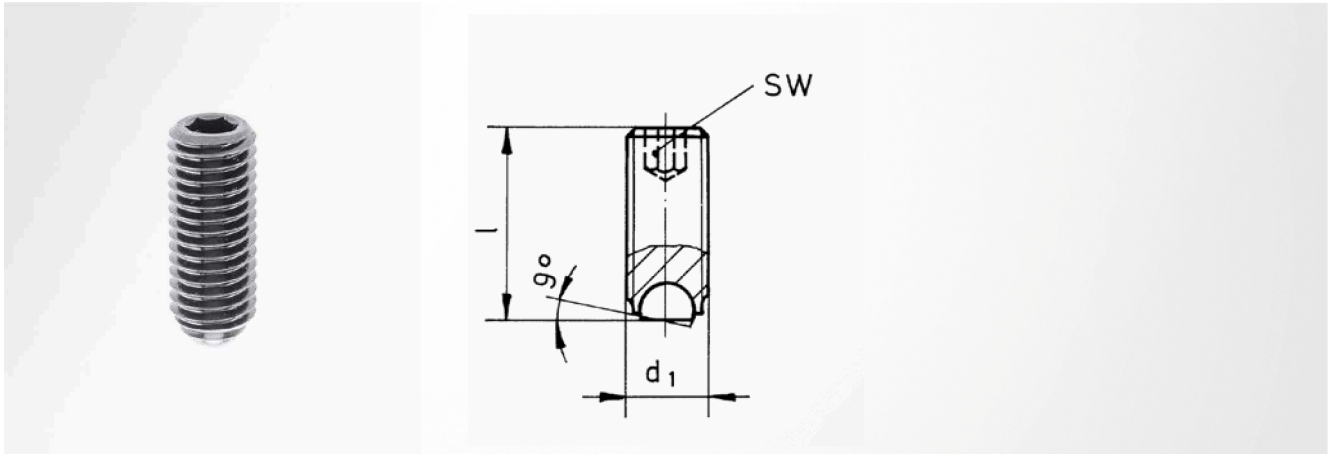
Note

Strength class 12.9 with hardened ball; ball flattened and movably mounted up to 9°; for the clamping of surfaces that are not plane-parallel

d ₁	d ₂	k	Ball Ø	l	b	Item number
M6	10	6	4.0	20	17.0	SZ4432 06 x 20
				30	27.0	SZ4432 06 x 30
				40	24.0	SZ4432 06 x 40
M8	13	8	5.5	20	16.5	SZ4432 08 x 20
				35	31.5	SZ4432 08 x 35
				50	28.0	SZ4432 08 x 50
M10	16	10	7.0	25	20.5	SZ4432 10 x 25
				40	35.5	SZ4432 10 x 40
				60	32.0	SZ4432 10 x 60
M12	18	12	8.5	30	25.0	SZ4432 12 x 30
				50	36.0	SZ4432 12 x 50
				80	36.0	SZ4432 12 x 80
M16	24	16	12.0	40	34.0	SZ4432 16 x 40
				60	44.0	SZ4432 16 x 60
				80	44.0	SZ4432 16 x 80

SZ4434 Ball pressure screws

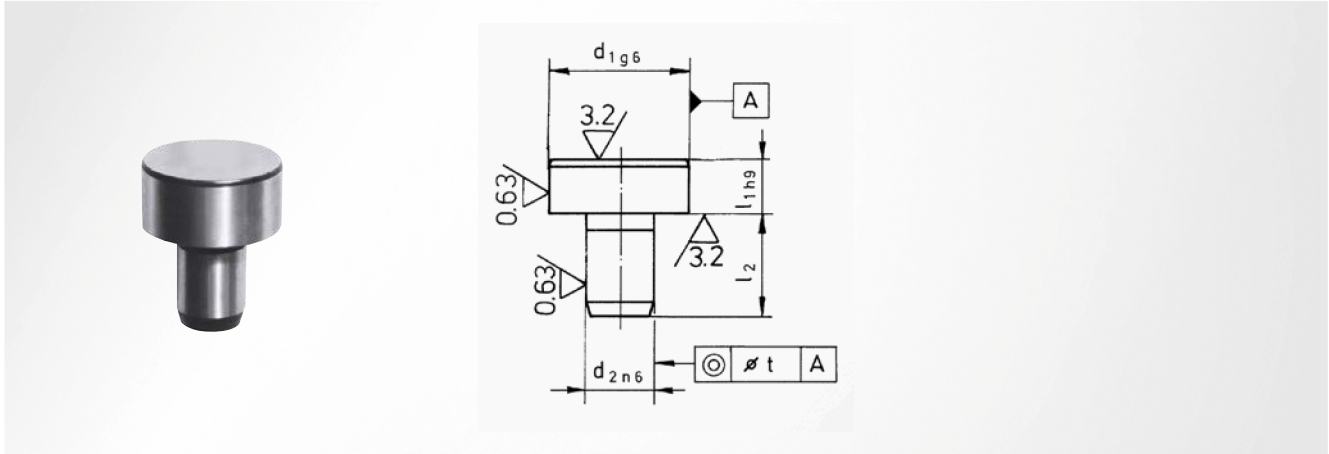
without head, with hexagon socket



Note

Strength class 12.9 with hardened ball; ball flattened and movably mounted up to 9°; for the clamping of surfaces that are not plane-parallel

d_1	Ball Ø	l	Item number
M6	4.0	10	SZ4434 06 x 10
		16	SZ4434 06 x 16
		25	SZ4434 06 x 25
M8	5.5	12	SZ4434 08 x 12
		20	SZ4434 08 x 20
		30	SZ4434 08 x 30
M10	7.0	16	SZ4434 10 x 16
		25	SZ4434 10 x 25
		35	SZ4434 10 x 35
M12	8.5	20	SZ4434 12 x 20
		30	SZ4434 12 x 30
		40	SZ4434 12 x 40
M16	12.0	25	SZ4434 16 x 25
		35	SZ4434 16 x 35
		50	SZ4434 16 x 50



DIN 6321

Shape

A

Material

Tool steel; hardened

Hardness

56 ±2 HRC

Installation in mounting bore

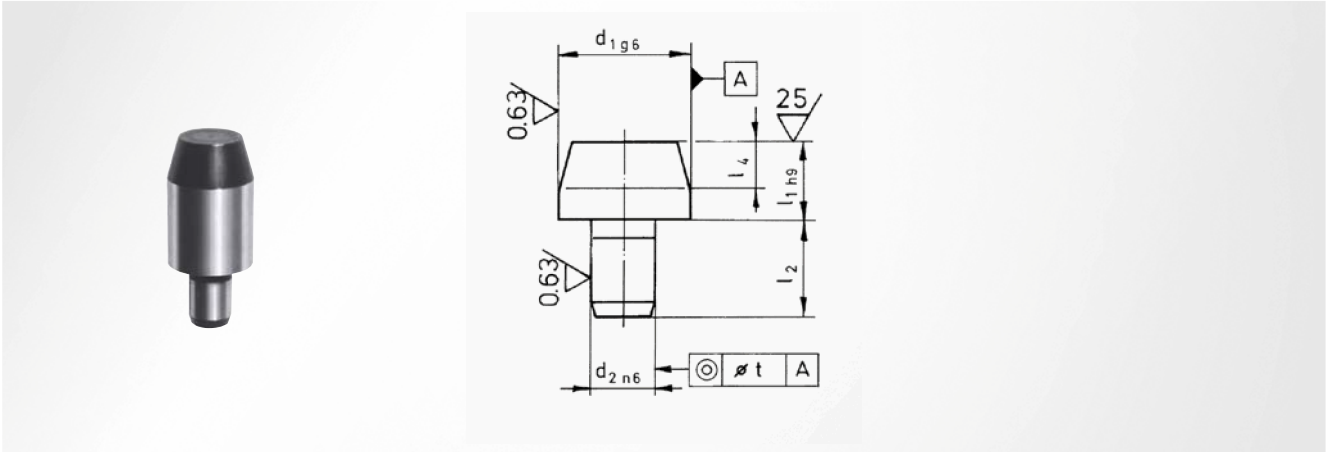
ISO H7

d_1^{g6}	d_2^{n6}	l_1^{h9}	l_2	t	Item number
6	4	5	6	0.02	SZ4512 06 x 05
10	6	6	9	0.02	SZ4512 10 x 06

d_1^{g6}	d_2^{n6}	l_1^{h9}	l_2	t	Item number
16	8	8	12	0.04	SZ4512 16 x 08
25	12	10	18	0.04	SZ4512 25 x 10

SZ4513 Locating bolt

cylindrical



DIN 6321

Hardness

56 ±2 HRC

Shape

B

Installation in mounting bore

ISO H7

Material

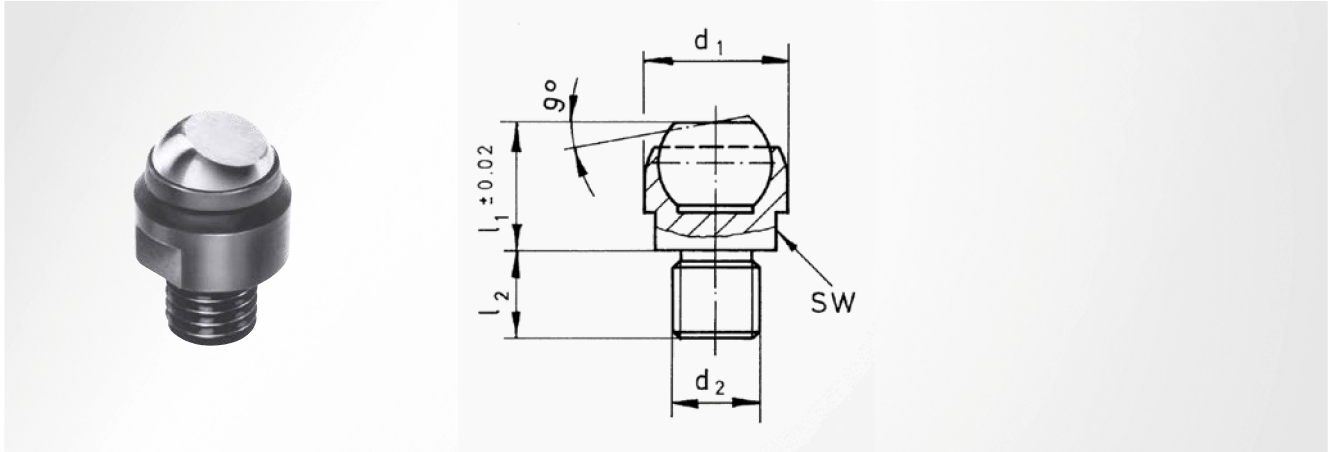
Tool steel; hardened

d_1^{g6}	l_2	l_4	t	d_2^{n6}	l_1	Item number
6	6	4	0.02	4	7	SZ4513 06 x 07
				4	12	SZ4513 06 x 12
8	9	6	0.02	6	10	SZ4513 08 x 10
				6	16	SZ4513 08 x 16
10	9	6	0.02	6	10	SZ4513 10 x 10
				6	18	SZ4513 10 x 18
12	9	6	0.02	6	10	SZ4513 12 x 10

d_1^{g6}	l_2	l_4	t	d_2^{n6}	l_1	Item number
12	9	6	0.02	6	18	SZ4513 12 x 18
				8	13	SZ4513 16 x 13
16	12	8	0.04	8	22	SZ4513 16 x 22
				8	22	SZ4513 16 x 22
20	18	9	0.04	12	15	SZ4513 20 x 15
				12	25	SZ4513 20 x 25
25	18	9	0.04	12	15	SZ4513 25 x 15
				12	25	SZ4513 25 x 25

SZ4516 Supporting bolt

swinging



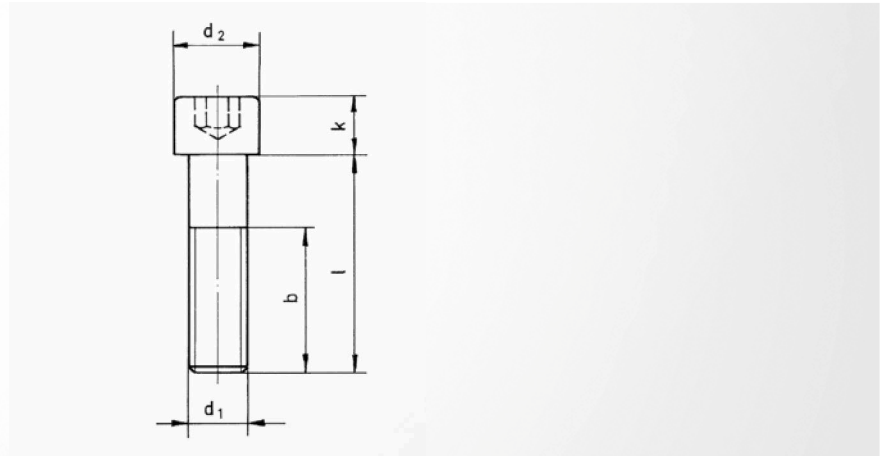
Note

Ball flattened and movably mounted up to 9°;
ball, hardened; for the clamping of surfaces that
are not plane-parallel; mounting body tempered

d_1	d_2	$l_1 \pm 0.02$	l_2	Ball \varnothing	Item number
13	M8	13	8	10	SZ4516 13 x 08
20	M12	18	12	16	SZ4516 20 x 12
30	M16	27	16	25	SZ4516 30 x 16

SZ8510 Socket-head screw

with hexagon socket



DIN EN ISO 4762

Note

Strength class 8.8

d_1	d_2	k	l	b	Standard packaging piece	Item number
M4	7.0	4	6	4	100	SZ8510 04 x 006
			8	6	100	SZ8510 04 x 008
			10	8	100	SZ8510 04 x 010
			12	10	100	SZ8510 04 x 012
			16	14	100	SZ8510 04 x 016
			20	18	100	SZ8510 04 x 020
			25	23	100	SZ8510 04 x 025
M5	8.5	5	30	20	100	SZ8510 04 x 030
			8	6	100	SZ8510 05 x 008
			10	8	100	SZ8510 05 x 010
			12	10	100	SZ8510 05 x 012
			16	14	100	SZ8510 05 x 016
			20	18	100	SZ8510 05 x 020
			25	23	100	SZ8510 05 x 025
			30	22	100	SZ8510 05 x 030
			35	22	100	SZ8510 05 x 035
			40	22	100	SZ8510 05 x 040
M6	10.0	6	45	22	100	SZ8510 05 x 045
			50	22	100	SZ8510 05 x 050
			10	7	100	SZ8510 06 x 010
			12	9	100	SZ8510 06 x 012
			16	13	100	SZ8510 06 x 016
			20	17	100	SZ8510 06 x 020
			25	22	100	SZ8510 06 x 025
			30	27	100	SZ8510 06 x 030
			35	24	100	SZ8510 06 x 035
			40	24	100	SZ8510 06 x 040
			45	24	100	SZ8510 06 x 045
			50	24	100	SZ8510 06 x 050
M8	13.0	8	60	24	100	SZ8510 06 x 060
			70	24	100	SZ8510 06 x 070
			80	24	100	SZ8510 06 x 080
			12	8	100	SZ8510 08 x 012
			16	12	100	SZ8510 08 x 016
			20	16	100	SZ8510 08 x 020
			25	21	100	SZ8510 08 x 025
			30	26	100	SZ8510 08 x 030
M8	13.0	8	35	31	100	SZ8510 08 x 035
			40	28	100	SZ8510 08 x 040
			45	28	50	SZ8510 08 x 045

d_1	d_2	k	l	b	Standard packaging piece	Item number
M8	13.0	8	50	28	50	SZ8510 08 x 050
			60	28	50	SZ8510 08 x 060
			70	28	50	SZ8510 08 x 070
			80	28	50	SZ8510 08 x 080
			90	28	50	SZ8510 08 x 090
			100	28	50	SZ8510 08 x 100
			110	28	50	SZ8510 08 x 110
			120	28	50	SZ8510 08 x 120
M10	16.0	10	16	11	50	SZ8510 10 x 016
			20	15	50	SZ8510 10 x 020
			25	20	50	SZ8510 10 x 025
			30	25	50	SZ8510 10 x 030
			35	30	50	SZ8510 10 x 035
			40	35	50	SZ8510 10 x 040
			45	32	50	SZ8510 10 x 045
			50	32	50	SZ8510 10 x 050
			60	32	50	SZ8510 10 x 060
			70	32	50	SZ8510 10 x 070
			80	32	50	SZ8510 10 x 080
			90	32	50	SZ8510 10 x 090
			100	32	50	SZ8510 10 x 100
			110	32	50	SZ8510 10 x 110
			120	32	50	SZ8510 10 x 120
			130	32	50	SZ8510 10 x 130
140	32	50	SZ8510 10 x 140			
150	32	50	SZ8510 10 x 150			
160	32	50	SZ8510 10 x 160			
M12	18.0	12	20	14	25	SZ8510 12 x 020
			25	19	25	SZ8510 12 x 025
			30	24	25	SZ8510 12 x 030
			35	29	25	SZ8510 12 x 035
			40	34	25	SZ8510 12 x 040
			45	39	25	SZ8510 12 x 045
			50	44	25	SZ8510 12 x 050
			60	36	25	SZ8510 12 x 060
			70	36	25	SZ8510 12 x 070
			80	36	25	SZ8510 12 x 080
			90	36	25	SZ8510 12 x 090
100	36	25	SZ8510 12 x 100			
110	36	25	SZ8510 12 x 110			

SZ8510 Socket-head screw

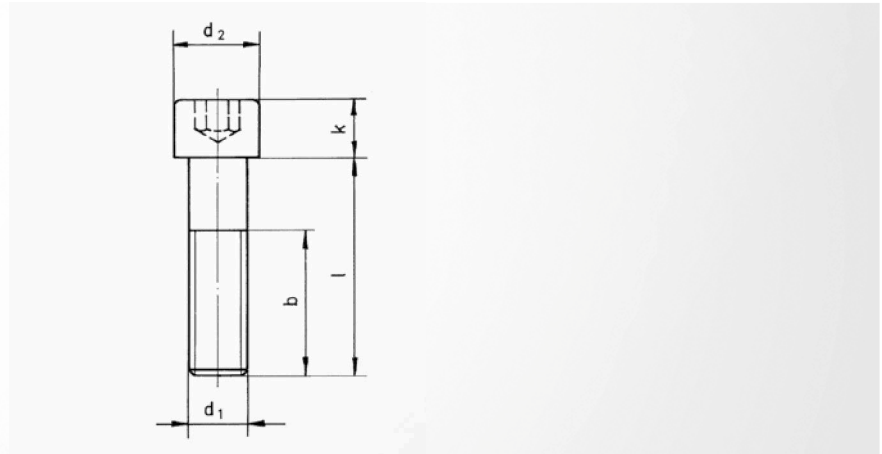
with hexagon socket

d ₁	d ₂	k	l	b	Standard packaging piece	Item number
M12	18.0	12	120	36	25	SZ8510 12 x 120
			130	36	25	SZ8510 12 x 130
			140	36	25	SZ8510 12 x 140
			150	36	25	SZ8510 12 x 150
			160	36	25	SZ8510 12 x 160
M16	24.0	16	30	24	10	SZ8510 16 x 030
			35	29	10	SZ8510 16 x 035
			40	34	10	SZ8510 16 x 040
			45	39	10	SZ8510 16 x 045
			50	44	10	SZ8510 16 x 050
			60	54	10	SZ8510 16 x 060
			70	44	10	SZ8510 16 x 070
			80	44	10	SZ8510 16 x 080

d ₁	d ₂	k	l	b	Standard packaging piece	Item number
M16	24.0	16	90	44	10	SZ8510 16 x 090
			100	44	10	SZ8510 16 x 100
			110	44	10	SZ8510 16 x 110
			120	44	10	SZ8510 16 x 120
			130	44	10	SZ8510 16 x 130
			140	44	10	SZ8510 16 x 140
			150	44	10	SZ8510 16 x 150
			160	44	10	SZ8510 16 x 160
M20	30.0	20	50	42	10	SZ8510 20 x 050
			60	52	10	SZ8510 20 x 060
			70	62	10	SZ8510 20 x 070
			80	52	10	SZ8510 20 x 080

SZ8515 Socket-head screw

with hexagon socket



DIN EN ISO 4762

Note

Strength class 12.9

d_1	d_2	k	l	b	Standard packaging piece	Item number
M4	7.0	4	6	4	100	SZ8515 04 x 006
			8	6	100	SZ8515 04 x 008
			10	8	100	SZ8515 04 x 010
			12	10	100	SZ8515 04 x 012
			16	14	100	SZ8515 04 x 016
			20	18	100	SZ8515 04 x 020
			25	23	100	SZ8515 04 x 025
			30	20	100	SZ8515 04 x 030
M5	8.5	5	8	6	100	SZ8515 05 x 008
			10	8	100	SZ8515 05 x 010
			12	10	100	SZ8515 05 x 012
			16	14	100	SZ8515 05 x 016
			20	18	100	SZ8515 05 x 020
			25	23	100	SZ8515 05 x 025
			30	22	100	SZ8515 05 x 030
			35	22	100	SZ8515 05 x 035
			40	22	100	SZ8515 05 x 040
45	22	100	SZ8515 05 x 045			
50	22	100	SZ8515 05 x 050			
M6	10.0	6	10	7	100	SZ8515 06 x 010
			12	9	100	SZ8515 06 x 012
			16	13	100	SZ8515 06 x 016
			20	17	100	SZ8515 06 x 020
			25	22	100	SZ8515 06 x 025
			30	27	100	SZ8515 06 x 030
			35	24	100	SZ8515 06 x 035
			40	24	100	SZ8515 06 x 040
			45	24	100	SZ8515 06 x 045
			50	24	100	SZ8515 06 x 050
			60	24	100	SZ8515 06 x 060
			70	24	100	SZ8515 06 x 070
80	24	100	SZ8515 06 x 080			
M8	13.0	8	12	8	100	SZ8515 08 x 012
			16	12	100	SZ8515 08 x 016
			20	16	100	SZ8515 08 x 020
			25	21	100	SZ8515 08 x 025
			30	26	100	SZ8515 08 x 030
			35	31	100	SZ8515 08 x 035
			40	28	100	SZ8515 08 x 040
			45	28	50	SZ8515 08 x 045

d_1	d_2	k	l	b	Standard packaging piece	Item number
M8	13.0	8	50	28	50	SZ8515 08 x 050
			60	28	50	SZ8515 08 x 060
			70	28	50	SZ8515 08 x 070
			80	28	50	SZ8515 08 x 080
			90	28	50	SZ8515 08 x 090
			100	28	50	SZ8515 08 x 100
			110	28	50	SZ8515 08 x 110
			120	28	50	SZ8515 08 x 120
M10	16.0	10	16	11	50	SZ8515 10 x 016
			20	15	50	SZ8515 10 x 020
			25	20	50	SZ8515 10 x 025
			30	25	50	SZ8515 10 x 030
			35	30	50	SZ8515 10 x 035
			40	35	50	SZ8515 10 x 040
			45	32	50	SZ8515 10 x 045
			50	32	50	SZ8515 10 x 050
			60	32	50	SZ8515 10 x 060
			70	32	50	SZ8515 10 x 070
			80	32	50	SZ8515 10 x 080
			90	32	50	SZ8515 10 x 090
			100	32	50	SZ8515 10 x 100
			110	32	50	SZ8515 10 x 110
			120	32	50	SZ8515 10 x 120
			130	32	50	SZ8515 10 x 130
140	32	50	SZ8515 10 x 140			
150	32	50	SZ8515 10 x 150			
160	32	50	SZ8515 10 x 160			
M12	18.0	12	20	14	25	SZ8515 12 x 020
			25	19	25	SZ8515 12 x 025
			30	24	25	SZ8515 12 x 030
			35	29	25	SZ8515 12 x 035
			40	34	25	SZ8515 12 x 040
			45	39	25	SZ8515 12 x 045
			50	44	25	SZ8515 12 x 050
			60	36	25	SZ8515 12 x 060
			70	36	25	SZ8515 12 x 070
			80	36	25	SZ8515 12 x 080
			90	36	25	SZ8515 12 x 090
100	36	25	SZ8515 12 x 100			
110	36	25	SZ8515 12 x 110			

SZ8515 Socket-head screw

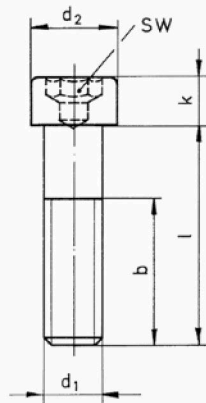
with hexagon socket

d ₁	d ₂	k	l	b	Standard packaging piece	Item number
M12	18.0	12	120	36	25	SZ8515 12 x 120
			130	36	25	SZ8515 12 x 130
			140	36	25	SZ8515 12 x 140
			150	36	25	SZ8515 12 x 150
			160	36	25	SZ8515 12 x 160
M16	24.0	16	30	24	10	SZ8515 16 x 030
			35	29	10	SZ8515 16 x 035
			40	34	10	SZ8515 16 x 040
			45	39	10	SZ8515 16 x 045
			50	44	10	SZ8515 16 x 050
			60	54	10	SZ8515 16 x 060
			70	44	10	SZ8515 16 x 070
			80	44	10	SZ8515 16 x 080

d ₁	d ₂	k	l	b	Standard packaging piece	Item number
M16	24.0	16	90	44	10	SZ8515 16 x 090
			100	44	10	SZ8515 16 x 100
			110	44	10	SZ8515 16 x 110
			120	44	10	SZ8515 16 x 120
			130	44	10	SZ8515 16 x 130
			140	44	10	SZ8515 16 x 140
			150	44	10	SZ8515 16 x 150
			160	44	10	SZ8515 16 x 160
M20	30.0	20	50	42	10	SZ8515 20 x 050
			60	52	10	SZ8515 20 x 060
			70	62	10	SZ8515 20 x 070
			80	52	10	SZ8515 20 x 080

SZ8512 Socket-head screw

with hexagon socket, flat head



DIN 6912

Note

Strength class 8.8

d_1	d_2	k	l	b	Standard packaging piece	Item number
M6	10	4.0	12	9	50	SZ8512 06 x 012
			16	13	50	SZ8512 06 x 016
			20	17	50	SZ8512 06 x 020
			25	18	50	SZ8512 06 x 025
			30	18	50	SZ8512 06 x 030
			35	18	50	SZ8512 06 x 035
			40	18	50	SZ8512 06 x 040
			45	18	50	SZ8512 06 x 045
			50	18	50	SZ8512 06 x 050
			55	18	50	SZ8512 06 x 055
			60	18	50	SZ8512 06 x 060
			65	18	50	SZ8512 06 x 065
			70	18	50	SZ8512 06 x 070
			75	18	50	SZ8512 06 x 075
			80	18	50	SZ8512 06 x 080
			90	18	50	SZ8512 06 x 090
100	18	50	SZ8512 06 x 100			
110	18	50	SZ8512 06 x 110			
120	18	50	SZ8512 06 x 120			
M8	13	5.0	12	8	50	SZ8512 08 x 012
			16	12	50	SZ8512 08 x 016
			20	16	50	SZ8512 08 x 020
			25	21	50	SZ8512 08 x 025
			30	22	50	SZ8512 08 x 030
			35	22	50	SZ8512 08 x 035
			40	22	50	SZ8512 08 x 040
			45	22	25	SZ8512 08 x 045
			50	22	25	SZ8512 08 x 050
			55	22	25	SZ8512 08 x 055
			60	22	25	SZ8512 08 x 060
			65	22	25	SZ8512 08 x 065
			70	22	25	SZ8512 08 x 070
			75	22	25	SZ8512 08 x 075
80	22	25	SZ8512 08 x 080			
90	22	25	SZ8512 08 x 090			
100	22	25	SZ8512 08 x 100			
110	22	25	SZ8512 08 x 110			
120	22	25	SZ8512 08 x 120			
M10	16	6.5	16	11	25	SZ8512 10 x 016

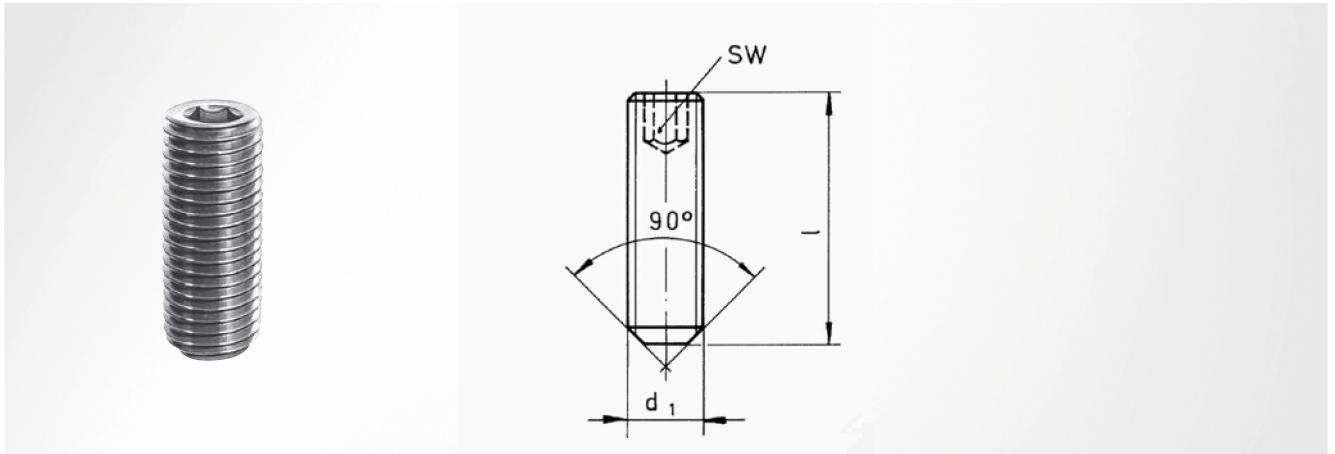
SZ8512 Socket-head screw

with hexagon socket, flat head

d ₁	d ₂	k	l	b	Standard packaging piece	Item number
M10	16	6.5	20	15	25	SZ8512 10 x 020
			25	20	25	SZ8512 10 x 025
			30	25	25	SZ8512 10 x 030
			35	26	25	SZ8512 10 x 035
			40	26	25	SZ8512 10 x 040
			45	26	25	SZ8512 10 x 045
			50	26	25	SZ8512 10 x 050
			55	26	25	SZ8512 10 x 055
			60	26	25	SZ8512 10 x 060
			65	26	25	SZ8512 10 x 065
			70	26	25	SZ8512 10 x 070
			75	26	25	SZ8512 10 x 075
			80	26	25	SZ8512 10 x 080
			85	26	25	SZ8512 10 x 085
			90	26	25	SZ8512 10 x 090
			100	26	25	SZ8512 10 x 100
			110	26	25	SZ8512 10 x 110
120	26	25	SZ8512 10 x 120			
150	32	25	SZ8512 10 x 150			
M12	18	7.5	20	14	10	SZ8512 12 x 020
			25	19	10	SZ8512 12 x 025
			30	24	10	SZ8512 12 x 030
			35	29	10	SZ8512 12 x 035
			40	30	10	SZ8512 12 x 040
			45	30	10	SZ8512 12 x 045
			50	30	10	SZ8512 12 x 050
			55	30	10	SZ8512 12 x 055
			60	30	10	SZ8512 12 x 060
			65	30	10	SZ8512 12 x 065
			70	30	10	SZ8512 12 x 070
			75	30	10	SZ8512 12 x 075
			80	30	10	SZ8512 12 x 080
			85	30	10	SZ8512 12 x 085
			90	30	10	SZ8512 12 x 090
			100	30	10	SZ8512 12 x 100
			110	30	10	SZ8512 12 x 110
			120	30	10	SZ8512 12 x 120
			130	36	10	SZ8512 12 x 130
140	36	10	SZ8512 12 x 140			
180	36	10	SZ8512 12 x 180			
200	36	10	SZ8512 12 x 200			

SZ8530 Threaded pin

with hexagon socket



DIN 913 / ISO 4026

Note

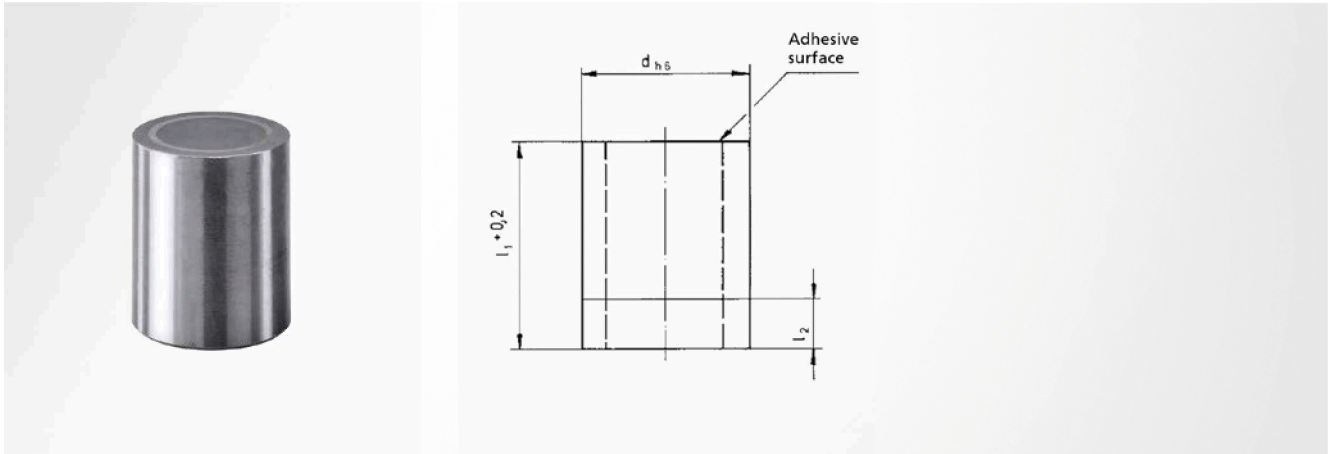
Strength class 14.9

d_1	SW	l	Standard packaging piece	Item number
M3	1.5	8	100	SZ8530 03 x 08
		10	100	SZ8530 03 x 10
		12	100	SZ8530 03 x 12
M4	2.0	8	100	SZ8530 04 x 08
		10	100	SZ8530 04 x 10
		12	100	SZ8530 04 x 12
		16	100	SZ8530 04 x 16
M5	2.5	8	100	SZ8530 05 x 08
		10	100	SZ8530 05 x 10
		12	100	SZ8530 05 x 12
		16	100	SZ8530 05 x 16
		20	100	SZ8530 05 x 20
		25	100	SZ8530 05 x 25
M6	3.0	8	100	SZ8530 06 x 08
		10	100	SZ8530 06 x 10
		12	100	SZ8530 06 x 12
		16	100	SZ8530 06 x 16
		20	100	SZ8530 06 x 20
		25	100	SZ8530 06 x 25
		30	100	SZ8530 06 x 30

d_1	SW	l	Standard packaging piece	Item number
M8	4.0	10	50	SZ8530 08 x 10
		12	50	SZ8530 08 x 12
		16	50	SZ8530 08 x 16
		20	50	SZ8530 08 x 20
		25	50	SZ8530 08 x 25
		30	50	SZ8530 08 x 30
M10	5.0	12	50	SZ8530 10 x 12
		16	50	SZ8530 10 x 16
		20	50	SZ8530 10 x 20
		25	50	SZ8530 10 x 25
		30	50	SZ8530 10 x 30
		35	50	SZ8530 10 x 35
M12	6.0	40	50	SZ8530 10 x 40
		16	25	SZ8530 12 x 16
		20	25	SZ8530 12 x 20
		25	25	SZ8530 12 x 25
		30	25	SZ8530 12 x 30
		35	25	SZ8530 12 x 35
		40	25	SZ8530 12 x 40
50	25	SZ8530 12 x 50		

SZ9335 Holding magnet

round



Installation instruction

press in, shrink in or stick in; the holding magnets can be shortened by the dimension l_2 without reducing the adhesive force; the adhesive surface must not be reduced by more than 2 mm, otherwise the adhesive force would be significantly reduced

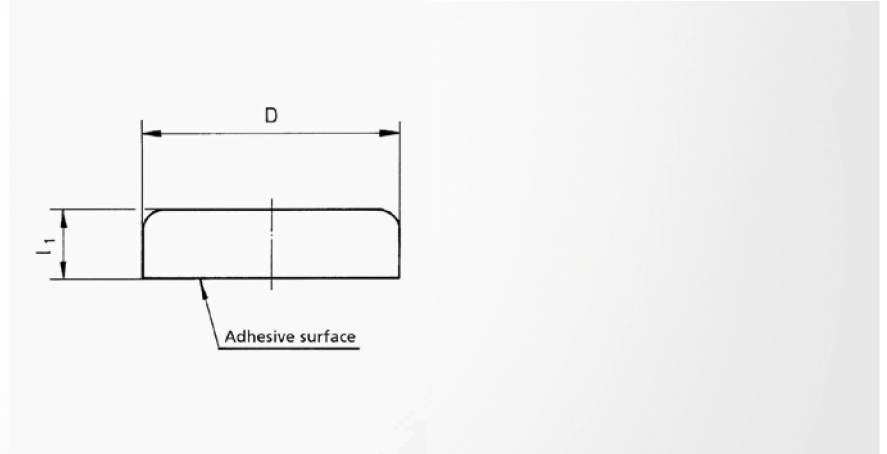
Note

Screened system

d_{h6}	$l_1 \pm 0.2$	l_2	Adhesive force N	Item number
6	10	2	1.0	SZ9335 06
8	12	3	2.5	SZ9335 08
10	16	6	5.0	SZ9335 10
13	18	7	8.0	SZ9335 13
16	20	5	15.0	SZ9335 16
20	25	6	35.0	SZ9335 20
25	30	5	80.0	SZ9335 25
32	35	3	150.0	SZ9335 32

SZ9336 Holding magnet

flat



Installation instruction

press in or stick in

Note

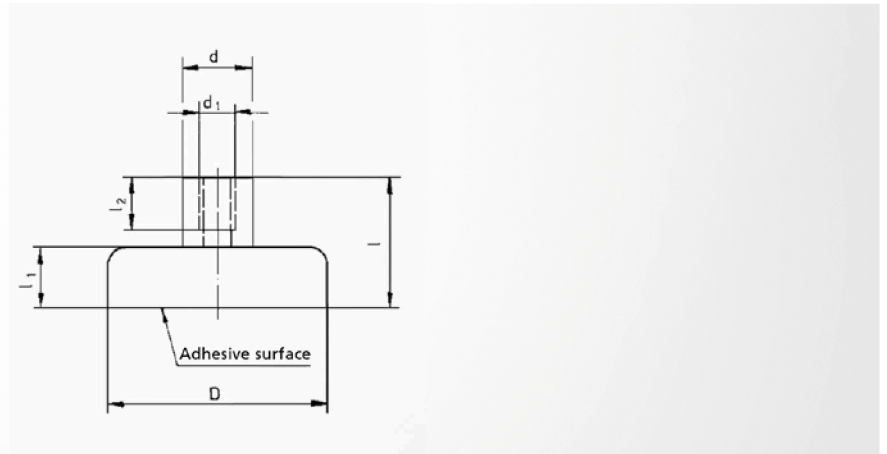
Surface galvanised; screened system

l_1	D	Adhesive force N	Item number
4.5	10	3	SZ9336 10
4.5	13	5	SZ9336 13
4.5	16	10	SZ9336 16
6.0	20	25	SZ9336 20

l_1	D	Adhesive force N	Item number
7.0	25	40	SZ9336 25
7.0	32	70	SZ9336 32
8.0	40	100	SZ9336 40
10.0	50	180	SZ9336 50

SZ9337 Holding magnet

flat, with threaded pins



Installation instruction

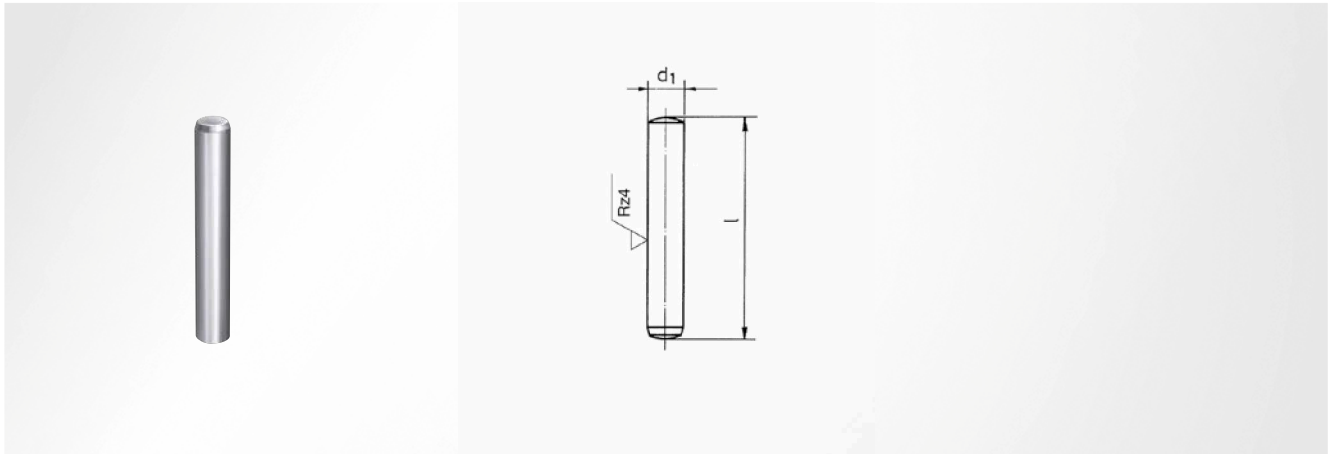
screw in

Note

Surface galvanised; screened system

d	d_1	l	l_1	l_2	D	Adhesive force N	Item number
6	M3	11.5	4.5	5	10	3	SZ9337 10
6	M3	11.5	4.5	5	13	5	SZ9337 13
6	M3	11.5	4.5	5	16	10	SZ9337 16
6	M3	13.0	6.0	5	20	25	SZ9337 20

d	d_1	l	l_1	l_2	D	Adhesive force N	Item number
8	M4	15.0	7.0	6	25	40	SZ9337 25
8	M4	15.0	7.0	6	32	70	SZ9337 32
10	M5	18.0	8.0	8	40	100	SZ9337 40
12	M6	22.0	10.0	10	50	180	SZ9337 50



DIN EN ISO 8734

Material

Chrome-Vanadium alloyed; tool steel

Hardness

60 ±2 HRC

Note

Hardened, tempered, super-finished to m6; spherical cap and chamfer polished

d_1^{m6}	Standard packaging piece	l	Item number
1.5	50	5	SZ7900 015 x 005
		6	SZ7900 015 x 006
		8	SZ7900 015 x 008
		10	SZ7900 015 x 010
		12	SZ7900 015 x 012
		14	SZ7900 015 x 014
		16	SZ7900 015 x 016
		18	SZ7900 015 x 018
2.0	50	6	SZ7900 020 x 006
		8	SZ7900 020 x 008
		10	SZ7900 020 x 010
		12	SZ7900 020 x 012
		14	SZ7900 020 x 014
		16	SZ7900 020 x 016
		18	SZ7900 020 x 018
		20	SZ7900 020 x 020
		24	SZ7900 020 x 024
		28	SZ7900 020 x 028
		32	SZ7900 020 x 032
		2.5	50
8	SZ7900 025 x 008		
10	SZ7900 025 x 010		
12	SZ7900 025 x 012		
14	SZ7900 025 x 014		
16	SZ7900 025 x 016		
18	SZ7900 025 x 018		
20	SZ7900 025 x 020		
24	SZ7900 025 x 024		
32	SZ7900 025 x 032		
3.0	50	6	SZ7900 030 x 006
		8	SZ7900 030 x 008
		10	SZ7900 030 x 010
		12	SZ7900 030 x 012
		14	SZ7900 030 x 014
		16	SZ7900 030 x 016
		55	SZ7900 030 x 055

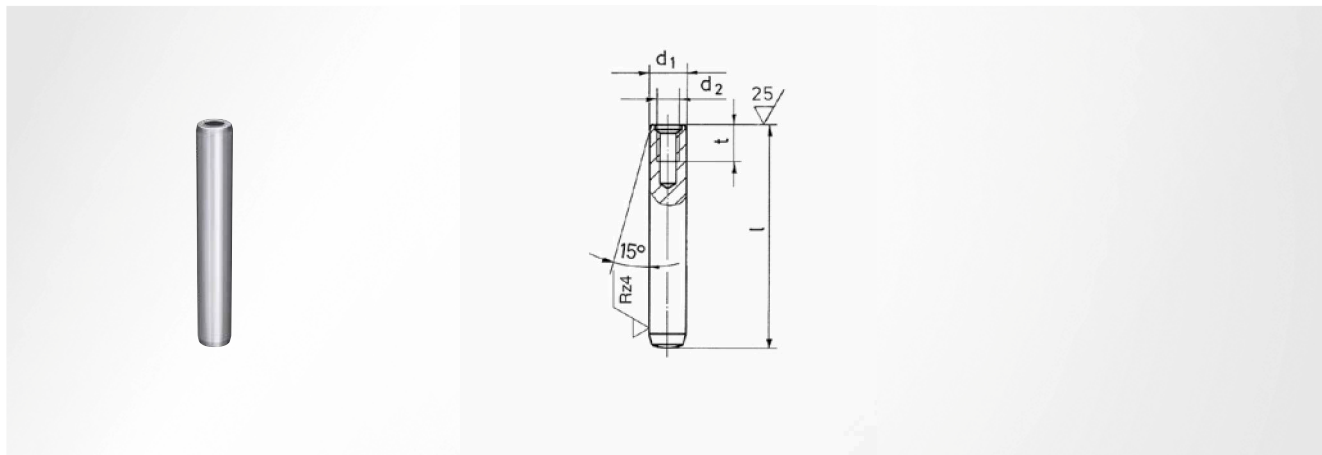
d_1^{m6}	Standard packaging piece	l	Item number
3.0	50	18	SZ7900 030 x 018
		20	SZ7900 030 x 020
		24	SZ7900 030 x 024
		28	SZ7900 030 x 028
		32	SZ7900 030 x 032
		36	SZ7900 030 x 036
		40	SZ7900 030 x 040
		50	SZ7900 030 x 050
4.0	25	10	SZ7900 040 x 010
		12	SZ7900 040 x 012
		14	SZ7900 040 x 014
		16	SZ7900 040 x 016
		18	SZ7900 040 x 018
		20	SZ7900 040 x 020
		24	SZ7900 040 x 024
		28	SZ7900 040 x 028
		32	SZ7900 040 x 032
		36	SZ7900 040 x 036
		40	SZ7900 040 x 040
		45	SZ7900 040 x 045
5.0	25	10	SZ7900 050 x 010
		12	SZ7900 050 x 012
		14	SZ7900 050 x 014
		16	SZ7900 050 x 016
		18	SZ7900 050 x 018
		20	SZ7900 050 x 020
		24	SZ7900 050 x 024
		28	SZ7900 050 x 028
		32	SZ7900 050 x 032
		36	SZ7900 050 x 036
		40	SZ7900 050 x 040
		45	SZ7900 050 x 045
50	SZ7900 050 x 050		
55	SZ7900 050 x 055		

d_1^{m6}	Standard packaging piece	l	Item number
5.0	25	60	SZ7900 050 x 060
6.0	25	12	SZ7900 060 x 012
		14	SZ7900 060 x 014
		16	SZ7900 060 x 016
		18	SZ7900 060 x 018
		20	SZ7900 060 x 020
		24	SZ7900 060 x 024
		28	SZ7900 060 x 028
		32	SZ7900 060 x 032
		36	SZ7900 060 x 036
		40	SZ7900 060 x 040
		45	SZ7900 060 x 045
		50	SZ7900 060 x 050
		55	SZ7900 060 x 055
		60	SZ7900 060 x 060
70	SZ7900 060 x 070		
80	SZ7900 060 x 080		
8.0	25	18	SZ7900 080 x 018
		20	SZ7900 080 x 020
		24	SZ7900 080 x 024
		28	SZ7900 080 x 028
		32	SZ7900 080 x 032
		36	SZ7900 080 x 036
		40	SZ7900 080 x 040
		45	SZ7900 080 x 045
		50	SZ7900 080 x 050
		55	SZ7900 080 x 055
		60	SZ7900 080 x 060
70	SZ7900 080 x 070		
80	SZ7900 080 x 080		
90	SZ7900 080 x 090		
100	SZ7900 080 x 100		
10.0	10	20	SZ7900 100 x 020
		24	SZ7900 100 x 024
		28	SZ7900 100 x 028
		32	SZ7900 100 x 032
		36	SZ7900 100 x 036
		40	SZ7900 100 x 040

d_1^{m6}	Standard packaging piece	l	Item number		
10.0	10	45	SZ7900 100 x 045		
		50	SZ7900 100 x 050		
		55	SZ7900 100 x 055		
		60	SZ7900 100 x 060		
		70	SZ7900 100 x 070		
		80	SZ7900 100 x 080		
		90	SZ7900 100 x 090		
		100	SZ7900 100 x 100		
		12.0	10	24	SZ7900 120 x 024
				28	SZ7900 120 x 028
32	SZ7900 120 x 032				
36	SZ7900 120 x 036				
40	SZ7900 120 x 040				
45	SZ7900 120 x 045				
50	SZ7900 120 x 050				
55	SZ7900 120 x 055				
60	SZ7900 120 x 060				
70	SZ7900 120 x 070				
80	SZ7900 120 x 080				
90	SZ7900 120 x 090				
100	SZ7900 120 x 100				
14.0	10	36	SZ7900 140 x 036		
		40	SZ7900 140 x 040		
		45	SZ7900 140 x 045		
		50	SZ7900 140 x 050		
		55	SZ7900 140 x 055		
		60	SZ7900 140 x 060		
		70	SZ7900 140 x 070		
		80	SZ7900 140 x 080		
		90	SZ7900 140 x 090		
		100	SZ7900 140 x 100		
16.0	10	40	SZ7900 160 x 040		
		50	SZ7900 160 x 050		
		60	SZ7900 160 x 060		
		70	SZ7900 160 x 070		
		80	SZ7900 160 x 080		
		90	SZ7900 160 x 090		
100	SZ7900 160 x 100				

SZ7905 Dowel pin

with internal thread



DIN EN ISO 8735

Material

Chrome-Vanadium alloyed; tool steel

Hardness

60 ±2 HRC

Application

with blind-end bores if the drive-out of the pin from the rear side is not possible

Note

Hardened, tempered, super-finished to m6; with air leakage surface

d_1^{m6}	d_2	t	Standard packaging piece	l	Item number
6	M4	6	25	24	SZ7905 06 x 024
				32	SZ7905 06 x 032
				40	SZ7905 06 x 040
				50	SZ7905 06 x 050
8	M5	8	25	28	SZ7905 08 x 028
				32	SZ7905 08 x 032
				40	SZ7905 08 x 040
				50	SZ7905 08 x 050
				60	SZ7905 08 x 060
				80	SZ7905 08 x 080
10	M6	10	10	32	SZ7905 10 x 032
				40	SZ7905 10 x 040
				50	SZ7905 10 x 050
				60	SZ7905 10 x 060
				80	SZ7905 10 x 080
12	M6	10	10	32	SZ7905 12 x 032
				40	SZ7905 12 x 040
				50	SZ7905 12 x 050
				60	SZ7905 12 x 060
				80	SZ7905 12 x 080
				100	SZ7905 12 x 100
14	M8	12	10	50	SZ7905 14 x 050
				60	SZ7905 14 x 060
				80	SZ7905 14 x 080
				100	SZ7905 14 x 100
16	M8	12	10	60	SZ7905 16 x 060
				80	SZ7905 16 x 080
				100	SZ7905 16 x 100

SZ9511 Foil tape

Steel, non-corrosive



Material

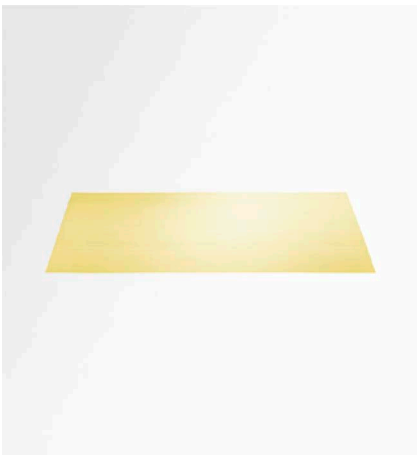
Steel

Length m	Foil thickness	Width	Item number
2.5	0.025	150	SZ9511 025
2.5	0.050	150	SZ9511 050

Length m	Foil thickness	Width	Item number
2.5	0.075	150	SZ9511 075
2.5	0.100	150	SZ9511 100

SZ9512 Foil tape

Brass



Material

Brass Ms63

Length m	Foil thickness	Width	Item number
2.5	0.025	150	SZ9512 025
2.5	0.050	150	SZ9512 050

Length m	Foil thickness	Width	Item number
2.5	0.075	150	SZ9512 075
2.5	0.100	150	SZ9512 100

SZ9514 Foil tape

Steel, non-alloy



Material

Steel

Length m	Foil thickness	Width	Item number
2.5	0.025	150	SZ9514 025
2.5	0.050	150	SZ9514 050

Length m	Foil thickness	Width	Item number
2.5	0.075	150	SZ9514 075
2.5	0.100	150	SZ9514 100

SZ9515 Precision gauge

polished surface



Material

Tracer gauge strip steel; hardened; cold-rolled

Length m	Thickness	Width	Item number
2	0.01	12.7	SZ9515 12.7 x 001
2	0.02	12.7	SZ9515 12.7 x 002
2	0.03	12.7	SZ9515 12.7 x 003
2	0.04	12.7	SZ9515 12.7 x 004

Length m	Thickness	Width	Item number
2	0.05	12.7	SZ9515 12.7 x 005
2	0.10	12.7	SZ9515 12.7 x 010
2	0.20	12.7	SZ9515 12.7 x 020
2	0.30	12.7	SZ9515 12.7 x 030



The high-performance oil with molybdenum disulphide (MoS₂) additive is especially well suited for highly stressed narrow dynamic seatings due to its viscosity and composition.

The molybdenum additive has a friction-relieving effect, and creates a bearing armouring with excellent dry-running properties.

Application field

Lubrication of die sets, sliding guides, etc.

Filling quantity

5000 ml

Item number

SZ9850

SZ9853 Slideway oil



Modern demulsifying slideway oil with excellent anti-stick and slip properties to lubricate metal and plastic sliding guides, slideways with solid lubrication as well as ball and roller guides. It is also suitable as a universal oil to lubricate machine tools.

Application field

Lubrication of die sets, sliding guides, etc.

Filling quantity

5000 ml

Item number

SZ9853



Performance optimised long-term lubricating grease, highest anti-corrosion protection, best water resistance and high viscosity properties. Temperature range -30 °C to 120 °C.

Suitable greas gun

SZ9810

Filling quantity kg	Item number
0.4	SZ9006
15.0	SZ900615

SZ9005 Roller bearing grease



Superior wear protection, good temperature resistance up to 140 °C, best water and medium resistance, good anti-corrosion protection and very good durability.

Application field

Lubrication of ball and roller guides

Suitable greas gun

SZ9810

Filling quantity

0.4 kg

Item number

SZ9005

SZ9014 Multi function spray

WD-40



Eliminates squeaking, displaces moisture, protects against corrosion, loosens corroded parts and stuck mechanisms, and cleans, protects and lubricates.

Filling quantity

400 ml

Item number

SZ9014

SZ9740 Curing accelerator

LOCTITE 7649



A hardening accelerator for the anaerobic products SZ9717 (LOCTITE 542), SZ9743 (LOCTITE 603) and SZ9743 (LOCTITE 270). Reduces time required for hardening. Easy to use: Spray on, allow to dry, and then apply the LOCTITE product.

Product colour

light yellow

Note

contains acetone; easily combustible

Filling quantity

500 ml

Item number

SZ9740

Suitability for storage

1 year

SZ9741 Surface adhesive

LOCTITE 496



An adhesive for the gluing of difficult components such as steel plates, bushes and ceramics with and among each other.

Adhesive gap max.

0.10 mm

Filling quantity

100 ml

Adhesive gap optimal

0.05 mm

Suitability for storage

1 year

Hand-tight

20-40 sec.

Note

Hand-tight with activator 7649

Final strength

~ 12 h

Optional accessories

SZ9740

Product colour

colourless

Item number

SZ9741

SZ9742 Bearing mounting

LOCTITE 603



For tension-free durable fastening of parts with radial and axial force loads with loose fit, e.g. bearings, bushes, shafts, bolts, rotors, gear wheels, rings, tyres and sinter bearings.

The extrusion force of the press fits increases by approximately 100 % and more.

Fitting rust and leakage are avoided. Thin liquid, poorly solvable compounds.

Adhesive gap max.

0.15 mm

Product colour

green

Adhesive gap optimal

0.05 mm

Filling quantity

50 ml

Hand-tight

10-30 min

Optional accessories

SZ9740

Functional strength

30-60 min

Item number

SZ9742

Final strength

~ 6 h

SZ9743 Screw locking

LOCTITE 270



A highly viscous adhesive for the fixing of bushes, bearings and spacer bolts, as well as for the securing and simultaneous sealing of stud bolts and screws. Highly resistant to vibrations and pressure. Crucially higher friction value increase between fitting surfaces. Reliable sealing of hydraulic and pneumatic lines as well as other highly stressed pipe connections.

High resistance to pressure and solvents, poorly solvable compounds.

Adhesive gap max.

0.15 mm

Product colour

green

Adhesive gap optimal

0.05 mm

Filling quantity

50 ml

Hand-tight

10-30 min

Note

Thread up to M 20

Functional strength

1-3 sec.

Optional accessories

SZ9740

Final strength

3-6 h

Item number

SZ9743

SZ9717 Joint connection

LOCTITE 542



Medium tight seal for hydraulic and pneumatic lines for the securing of parts that will need to be able to be loosened with normal tools. SZ9740 (LOCTITE 542) seals threaded connections against all Standard hydraulic fluids. It is thixotropic, and does not run. To be used for hydraulic and pneumatic fittings as well as pipe threads up to R 1/2".

Adhesive gap max.

0.12 mm

Filling quantity

50 ml

Hand-tight

10-30 min

Note

easily removable connection

Final strength

~3 h

Optional accessories

SZ9740

Product colour

brown

Item number

SZ9717

SZ9744 Instant adhesive gel

LOCTITE 454



A drip and run-free adhesive for gluing metal, plastic, wood, paper, rubber, leather etc. It can be used to glue substances with uneven surfaces.

Adhesive gap max.

0.20 mm

Product colour

colourless

Adhesive gap optimal

0.05 mm

Filling quantity

0.02 kg

Hand-tight

5-20 sec.

Item number

SZ9744

Final strength

12 h

SZ960x Casting resin



Black, low viscosity casting resin that hardens at room temperature. It is distinguished by its castability and low sedimentation. Coating thicknesses up to approximately 10 mm can be poured in one process. A hard, relatively wear resistant surface with good machinability is the result.

Application field

Pouring in of punches; pouring out of guides with cutting and punching tools; foundries and contour milling models; general mould making; tools for sheet metal conversion

Scope of supply

Epoxy resin CW 2418-1; Polyamine activator HY 5162 (reactive)

Suitability for storage

at 6-28 °C: 1 year

Optional accessories

SZ97042

Attention

Please observe the notes for manufacturing, storage and industrial hygiene in the operating instructions

Resin	Activator	Item number
1 tube à 150 g	1 tube à 22.5 g	SZ9601
3 cans à 1.0 kg	3 cans à 0.15 kg	SZ9603

Resin	Activator	Item number
1 can à 1.0 kg	1 can à 0.15 kg	SZ9606

SZ97042 Separating spray

for casting and model resin



Separating agent in spray form, suitable for epoxy resin

Note

Protect against cold and heat; use at room temperature; tank is under pressure; protect against direct sunlight and temperatures higher than 50 °C

Attention

Please read and follow the notes on the can

Item number

SZ97042

SZ962x Model resin



Mineral-filled, light beige, low viscosity model resin that hardens at room temperature. It is distinguished by its castability and low sedimentation. Coating thicknesses up to approximately 20 mm can be poured in one process.

Application field

Foundries and contour milling models; screw thread models; core bushes; calibrators; moulding plates

Suitability for storage

at 18-25 °C: 1 year

Scope of supply

Epoxy resin CW 2215; Polyaminoamide activator HY 5161

Optional accessories

SZ97042

Attention

Please observe the notes for manufacturing, storage and industrial hygiene in the operating instructions

Resin	Activator	Item number
6 cans à 0.75 kg	6 cans à 0.15 kg	SZ9620
1 can à 0.75 kg	1 can à 0.15 kg	SZ9621

Resin	Activator	Item number
3 cans à 2.25 kg	3 cans à 0.45 kg	SZ9622



High pressure lubrication gun with pointed mouth piece for funnel-type lubricating nipple incorporated in sliding guides.

DIN 1282

Output per lifted

ca. 0.7 cm³

Filling quantity

60 cm³

Item number

SZ9800

SZ9810 Lever press with tube for conical lubricating nipple



A hand-lever made of steel. Lubrication of every opening possible. No wearing parts in high-pressure area.

Secure piston rod fastening, universal filling possibilities, suitable for grease cartridges.

Suitable grease cartridges

SZ9005; SZ9006

Item number

SZ9810