

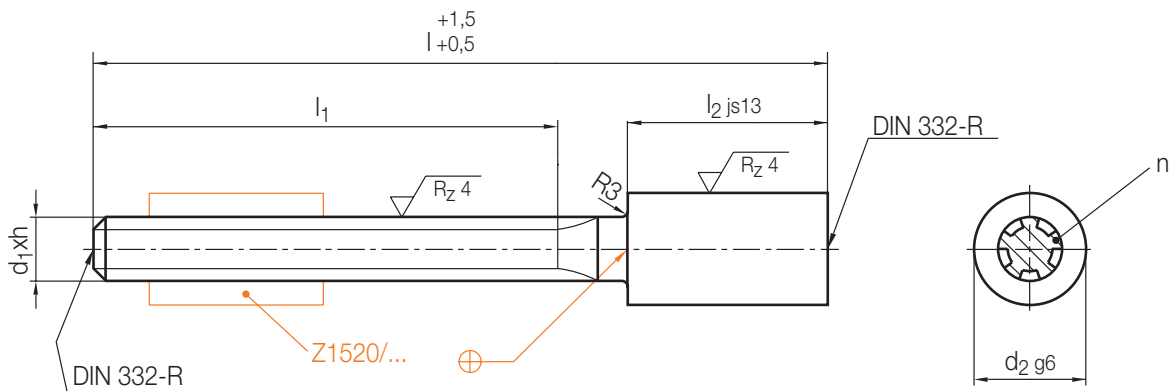
Z 1500/...

Steilgewindespindel
Helical spindle
Tige filetée

Mat.: ≈ 1.0727/980 N/mm²



Info



⌚ = Linksgewinde
= Left-Hand thread
Filetage gauche

n	l ₂	d ₂	l	d ₁ x h	⌚	l ₁	Nr./No.
5	50	28	240	Tr 16 x 50	L	160	Z 1500/16x 50/L/160
			330			250	250
			240	Tr 16 x 63		160	Z 1500/16x 63/L/160
			330			250	250
6	63	36	345	Tr 20 x 63	L	250	Z 1500/20x 63/L/250
			410			315	315
7	63	36	345	Tr 20 x 80	L	250	Z 1500/20x 80/L/250
			410			315	315
	63	36	345	Tr 20 x 100	L	250	Z 1500/20x100/L/250
			410			315	315
8	80	45	430	Tr 25 x 80	L	315	Z 1500/25x 80/L/315
			515			400	400
9	80	45	430	Tr 25 x 100	L	315	Z 1500/25x100/L/315
			515			400	400
	80	45	430	Tr 25 x 125	L	315	Z 1500/25x125/L/315
			515			400	400
10	80	45	430	Tr 25 x 160	L	315	Z 1500/25x160/L/315
			515			400	400
9	100	56	490	Tr 32 x 100	L	355	Z 1500/32x100/L/355
			585			450	450
10	100	56	490	Tr 32 x 125	L	355	Z 1500/32x125/L/355
			585			450	450
	100	56	490	Tr 32 x 160	L	355	Z 1500/32x160/L/355
			585			450	450
11	100	56	490	Tr 32 x 200	L	355	Z 1500/32x200/L/355
			585			450	450

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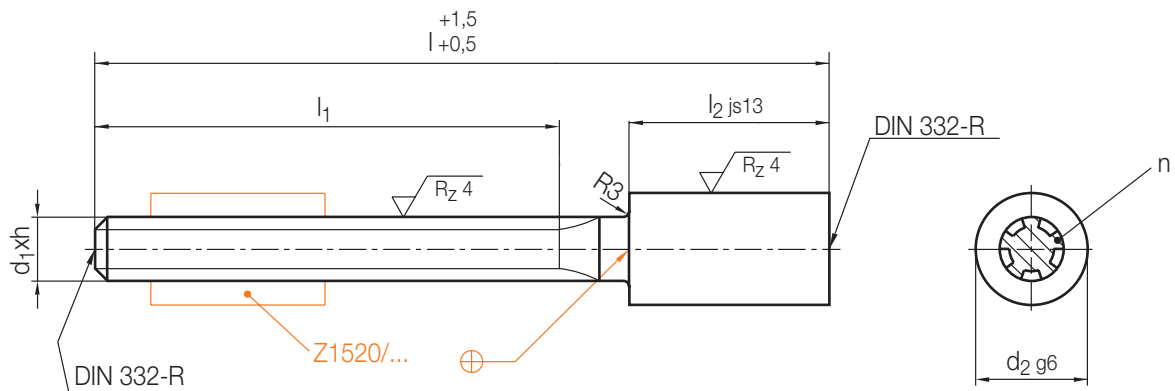
Z 1500/...

Steilgewindespindel
Helical spindle
Tige filetée

Mat.: ≈ 1.0727/980 N/mm²



► Info

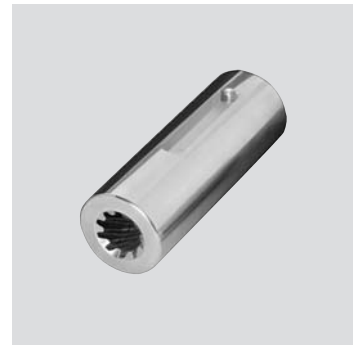


⌚ = Rechtsgewinde
= Right-Hand thread
Filetage droit

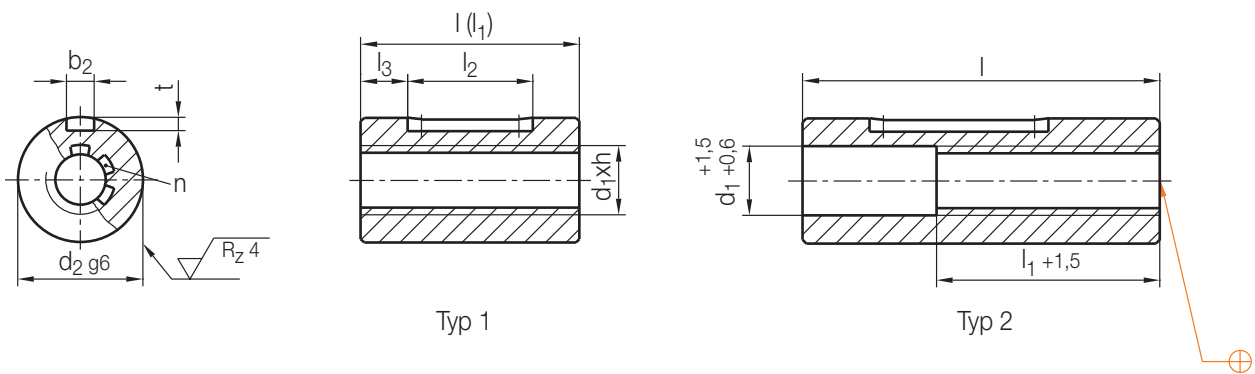
n	l_2	d_2	l	$d_1 \times h$	⌚	l_1	Nr./No.		
5	50	28	240	Tr 16 x 50	R	160	Z 1500/16x 50/R/160		
			330			250	250		
			240	Tr 16 x 63		160	Z 1500/16x 63/R/160		
			330			250	250		
6	63	36	345	Tr 20 x 63	R	250	Z 1500/20x 63/R/250		
			410			315	315		
7			345	Tr 20 x 80		250	Z 1500/20x 80/R/250		
			410			315	315		
8	80	45	345	Tr 20 x 100	R	250	Z 1500/20x100/R/250		
			410			315	315		
			430	Tr 25 x 80		315	Z 1500/25x 80/R/315		
			515			400	400		
9			430	Tr 25 x 100	315	Z 1500/25x100/R/315			
			515		400	400			
10			100	56	430	Tr 25 x 125	R	315	Z 1500/25x125/R/315
					515			400	400
	430	Tr 25 x 160			315	Z 1500/25x160/R/315			
	515				400	400			
9	490	Tr 32 x 100			R	355	Z 1500/32x100/R/355		
	585					450	450		
	10	490				Tr 32 x 125	355	Z 1500/32x125/R/355	
		585					450	450	
11	100	56	490	Tr 32 x 160	R	355	Z 1500/32x160/R/355		
			585			450	450		
			490	Tr 32 x 200		355	Z 1500/32x200/R/355		
			585			450	450		

Z 1520/...

Steilgewindemutter
Helical nut
Ecroû à pas rapide
Mat.: 2.0550



► Info



4

⊖ = Linksgewinde
Filetage gauche

n	t	b ₂	l ₃	l ₂	d ₂	Typ	d ₁ x h	⊖	l ₁	l	Nr./No.
5	2,8	6	11	28	28	1	Tr16 x 50	L	50	50	Z 1520/16x 50/L/ 50
			15	40		2					
			11	28		1	Tr16 x 63		50	63/L/ 50	
			15	40		2					50
6	3,8	8	13,5	36	36	1	Tr20 x 63	L	63	63	Z 1520/20x 63/L/ 63
			18	50		2					
7			13,5	36		1	Tr20 x 80		63	63	80/L/ 63
			18	50		2					
			13,5	36		1	Tr20 x 100		63	63	100/L/ 63
			18	50		2					
8	4,8	12	15	50	45	1	Tr25 x 80	L	80	80	Z 1520/25x 80/L/ 80
			20	63		2					
9			15	50		1	Tr25 x 100		80	80	100/L/ 80
			20	63		2					
			15	50		1	Tr25 x 125		80	80	125/L/ 80
			20	63		2					
10			15	50		1	Tr25 x 160		80	80	160/L/ 80
			20	63		2					
9	5,5	14	18,5	63	56	1	Tr32 x 100	L	100	100	Z 1520/32x 100/L/ 100
			25	80		2					
10			18,5	63		1	Tr32 x 125		100	100	125/L/ 100
			25	80		2					
			18,5	63		1	Tr32 x 160		100	100	160/L/ 100
			25	80		2					
11			18,5	63		1	Tr32 x 200		100	100	200/L/ 100
			25	80		2					

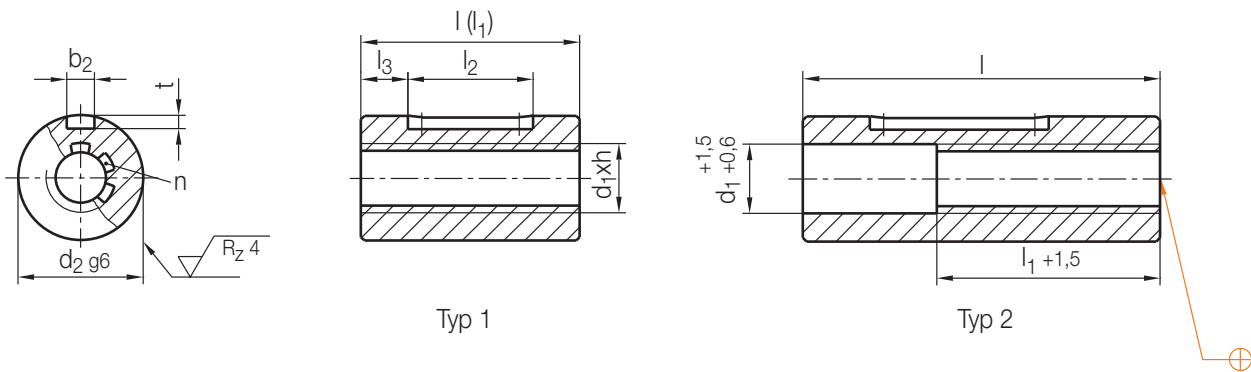
09.08.12.22 0022229

Z 1520/...

Steilgewindemutter
Helical nut
Ecrou à pas rapide
Mat.: 2.0550



▶ Info



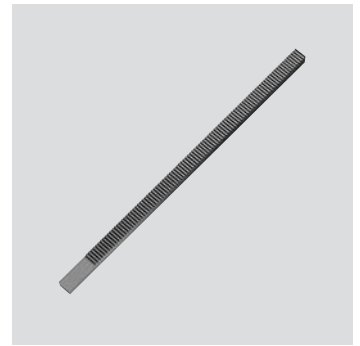
⌚ = Rechtsgewinde
= Right-Hand thread
Filetage droit

n	t	b ₂	l ₃	l ₂	d ₂	Typ	d ₁ x h	⌚	l ₁	l	Nr./No.
5	2,8	6	11	28	28	1	Tr 16 x 50	R	50	50	Z 1520/16x 50/R/ 50
				40		2					
			15	28	36	1	Tr 16 x 63		50	63/R/ 50	
				40		2				50	80
6	3,8	8	13,5	36	36	1	Tr 20 x 63	R	63	63	Z 1520/20x 63/R/ 63
				50		2					
7			13,5	36	45	1	Tr 20 x 80		63	63	80/R/ 63
				50		2					
			13,5	36	56	1	Tr 20 x 100		63	63	100/R/ 63
				50		2					
8	4,8	12	15	50	45	1	Tr 25 x 80	R	80	80	Z 1520/25x 80/R/ 80
				63		2					
9			15	50	56	1	Tr 25 x 100		80	80	100/R/ 80
				63		2					
			15	50	67	1	Tr 25 x 125		80	80	125/R/ 80
				63		2					
10			15	50	78	1	Tr 25 x 160		80	80	160/R/ 80
				63		2					
9	5,5	14	18,5	63	56	1	Tr 32 x 100	R	100	100	Z 1520/32x100/R/100
				80		2					
10			18,5	63	67	1	Tr 32 x 125		100	100	125/R/100
				80		2					
			18,5	63	78	1	Tr 32 x 160		100	100	160/R/100
				80		2					
11			18,5	63	89	1	Tr 32 x 200		100	100	200/R/100
				80		2					

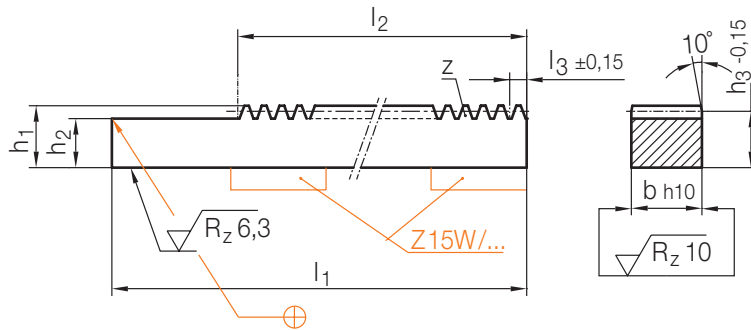
Z 1540/...

Zahnstange
 Rack
 Crémaillère

Mat.: 1.7225 / 1080 N/mm²



► Info



4

*m = Modul / Module / Module
 **z = Zähnezah/Number of teeth/
 Nbre de dents

h ₂	l ₂	l ₃	h ₁	h ₃	**z	b	l ₁	Tol. l ₁	*m	Nr./No.
11,2	282,5	2,9	13,5	12,5	90	16	315	+ 0,5	1	Z 1540/16x 315/1
	367,7				400		400/1			
	467,9				500		500/1			
	596,7				630		630/1			
	361,1				3,7		17,25			16
459,3	500	500/1,25								
588,8	630	630/1,25								
757,7	800	800/1,25								
16,1	447,5	4,5	19,5	18	95	20	500	+ 1	1,5	Z 1540/20x 500/1,5
	579,4				630		630/1,5			
	749,1				800		800/1,5			
	565,2				6		22			20
734,9	800	800/2								
935,9	1000	1000/2								
21,8	722,3	7,6	27,5	25	92	28	800	+ 1	2,5	Z 1540/28x 800/2,5
	918,7				1000		1000/2,5			
	1170				1250		1250/2,5			

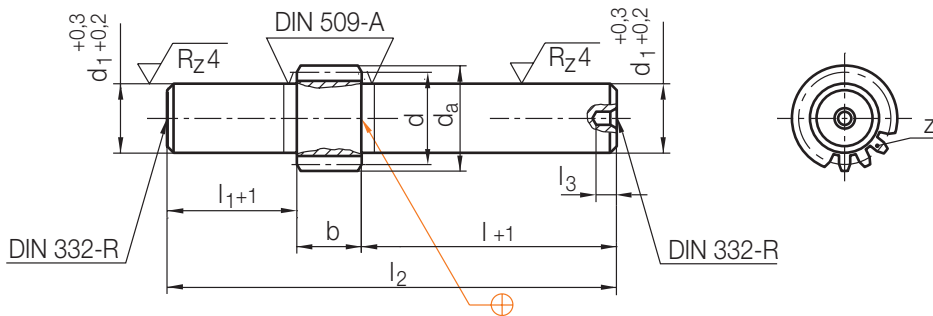
09.08.12.22 0022229

Z 1550/...

Gewindekern
 Threaded core blank
 Ebauche de noyau fileté
 Mat.: 1.2767/830 N/mm²



► Info

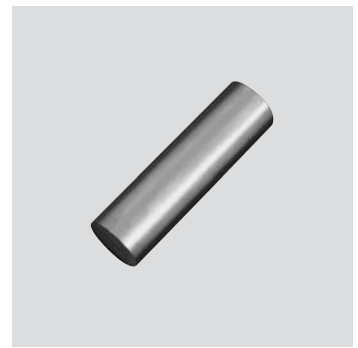


*m = Modul / Module / Module
 **z = Zähnezahl / Number of teeth /
 Nombre de dents

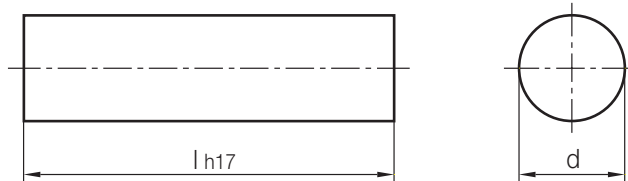
l ₃	l ₁	b	l ₂	d _a	d	d ₁	l	**z	*m	Nr./No.
4	45	16,5	186,5	16	14	10,5	125	14	1	Z 1550/10,5x125/14/1
				18	16	13		16		13 x125/16/1
				19	17	14		17		14 x125/17/1
				20	18	15		18		15 x125/18/1
				21	19	16		19		16 x125/19/1
				23	21	18		21		18 x125/21/1
4,5	50	18,5	208,5	20	17,5	14	140	14	1,25	Z 1550/14 x140/14/1,25
				21,25	18,75	15		15		15 x140/15/1,25
				22,5	20	16		16		16 x140/16/1,25
				25	22,5	18		18		18 x140/18/1,25
				27,5	25	21		20		21 x140/20/1,25
				30	27,5	23		22		23 x140/22/1,25
6	63	20,5	263,5	25,5	22,5	18	180	15	1,5	Z 1550/18 x180/15/1,5
				28,5	25,5	21		17		21 x180/17/1,5
				31,5	28,5	23		19		23 x180/19/1,5
				33	30	25		20		25 x180/20/1,5
				36	33	28		22		28 x180/22/1,5
				42	39	34		26		34 x180/26/1,5
7	71	26	321	38	34	28	224	17	2	Z 1550/28 x224/17/2
				44	40	34		20		34 x224/20/2
				48	44	38		22		38 x224/22/2
				56	52	45		26		45 x224/26/2
				60	56	50		28		50 x224/28/2
				66	62	56		31		56 x224/31/2
8	80	29	359	50	45	38	250	18	2,5	Z 1550/38 x250/18/2,5
				57,5	52,5	45		21		45 x250/21/2,5
				62,5	57,5	50		23		50 x250/23/2,5
				70	65	56		26		56 x250/26/2,5
				75	70	63		28		63 x250/28/2,5
				85	80	71		32		71 x250/32/2,5

Z 1552/...

Leitgewindebuchsen-Rohling
 Pilot thread bushing, blank
 Ebauche pour patron à filet
 Mat.: 2.0550



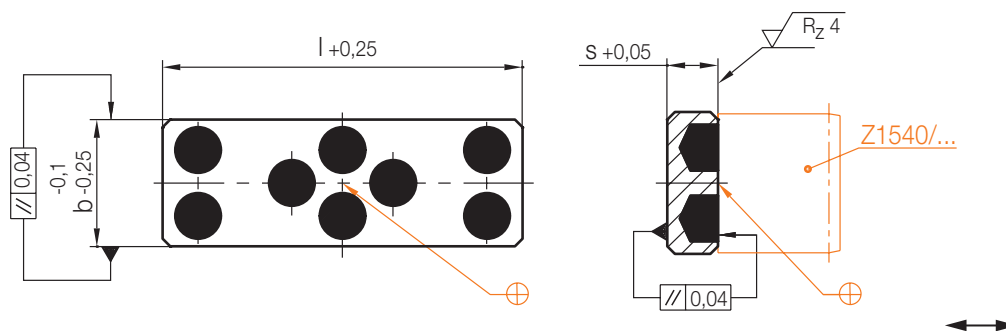
► Info



d	Tol. d	l	Nr./No.	d	Tol. d	l	Nr./No.
25	h12	315	Z 1552/ 25x315	60	js 16	200	Z 1552/ 60x200
32			32x315	75			75x200
40			250	40x250	90	js 17	160
50	50x250	100		100x160			

Z 15W/...

Flachgleitlager, selbstschmierend
 Slide plate, self-lubricating
 Palier lisse plat, autolubrifiante
 Mat.: 2.0492
 max. °C: 200



b	s	l	Nr./No.	b	s	l	Nr./No.
16	8	40	Z 15W/ 16x 8x40	25	10	71	Z 15W/ 25x10x71
18		50	18x 8x50	28		80	28x10x80
20	10	63	20x10x63				

09.08.12.22 0022229

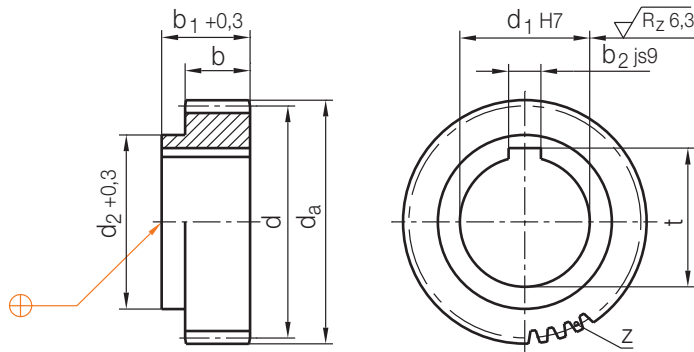
Z 1553/...

Stirnrad
Gear wheel
Engrenage

Mat.: 1.0503 / 690 N/mm²



► Info



*m = Modul / Module / Module
**z = Zähnezahl / Number of teeth /
Nobre de dents

b ₂	t	b ₁	d ₂	d _a	d	d ₁	b	** z	* m	Nr./No.
6	31,5	22	40	47	45	28	16	45	1	Z 1553/28/16/45/1
				52	50			50		28/16/50/1
				57	55			55		28/16/55/1
				62	60			60		28/16/60/1
8	39,5	25	50	57	55	36	18	55	1,25	Z 1553/36/18/55/1,25
				62	60			60		36/18/60/1,25
				72	70			70		36/18/70/1,25
6	31,5	25	40	58,75	56,25	28	18	45	1,25	Z 1553/28/18/45/1,25
				65	62,5			50		28/18/50/1,25
				58,75	56,25			45		36/18/45/1,25
				65	62,5			50		36/18/50/1,25
				71,25	68,75			55		36/18/55/1,25
				77,5	75			60		36/18/60/1,25
12	48,5	28	50	90	87,5	36	20	70	1,5	Z 1553/36/20/70/1,5
				71,25	68,75			45		45/18/55/1,25
				77,5	75			60		45/18/60/1,25
				90	87,5			70		45/18/70/1,25
8	39,5	28	50	70,5	67,5	36	20	45	1,5	Z 1553/36/20/45/1,5
				78	75			50		36/20/50/1,5
				85,5	82,5			55		36/20/55/1,5
				70,5	67,5			45		45/20/45/1,5
				78	75			50		45/20/50/1,5
				85,5	82,5			55		45/20/55/1,5
12	48,5	34	63	93	90	45	25	60	2	Z 1553/45/25/60/2
				108	105			70		45/20/70/1,5
				84	80			40		45/25/40/2
				94	90			45		45/25/45/2
14	59,8	34	63	104	100	56	28	50	2,5	Z 1553/56/28/50/2,5
				114	110			55		56/28/55/2,5
				94	90			45		56/25/45/2
				104	100			50		56/25/50/2
				114	110			55		56/25/55/2
				124	120			60		56/25/60/2
14	59,8	38	75	144	140	56	28	70	2,5	Z 1553/56/28/70/2,5
				105	100			40		56/28/40/2,5
				117,5	112,5			45		56/28/45/2,5
				130	125			50		56/28/50/2,5
				142,5	137,5			55		56/28/55/2,5
				155	150			60		56/28/60/2,5
180	175	70	56/28/70/2,5							

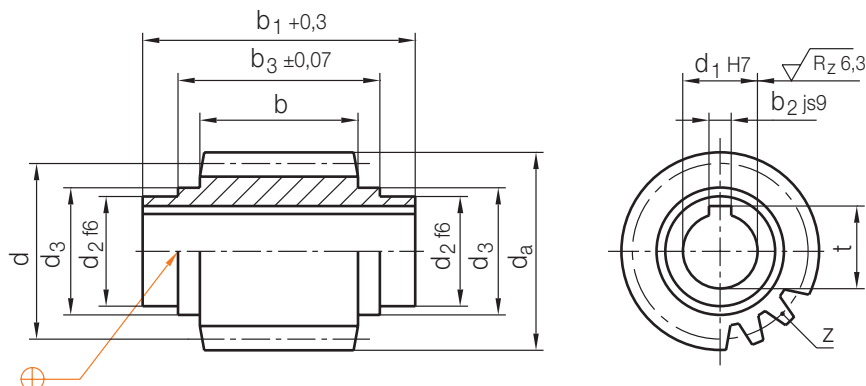
Z 1555/...

Zwischenrad
Intermediate gear wheel
Engrenage intermédiaire

Mat.: 1.0503/690 N/mm²



► Info



*m = Modul / Module / Module
**z = Zähnezahl / Number of teeth /
Nobre de dents

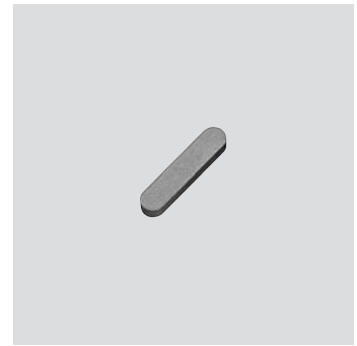
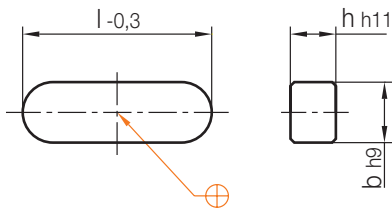
4

b ₂	t	b ₁	b ₃	d ₂	d ₃	d _a	d	d ₁	b	**z	*m	Nr./No.
3	8,2	37	27	12	14	19	17	7	22	17	1	Z 1555/ 7/22/17/1
					14,5	20	18					7/22/18/1
	10,2			15	17,2	22	20	9				9/22/20/1
4	11,7	48	36	17	20	27	25	10	30	25	1,25	10/22/25/1
	13,8				20	23,5	32	30				12
5	18,8			25	29	37	35	17				35
3	10,2	48	36	15	16,9	22,5	20	9	30	16	1,25	Z 1555/ 9/30/16/1,25
					17,5	23,75	21,25					9/30/17/1,25
	17			20	27,5	25	10	18				9/30/18/1,25
4	11,7	48	36	17	20	27,5	25	10	30	20	1,5	10/30/20/1,25
	13,8				20	23,5	33,75	31,25				12
5	18,8			25	29	40	37,5	17				30
4	11,7	48	36	17	20	27	24	10	30	16	1,5	Z 1555/10/30/16/1,5
					30	27	18					10/30/18/1,5
	13,8			20	23,5	33	30	12				12/30/20/1,5
5	18,8	48	36	25	29	40,5	37,5	17	30	25	1,5	17/30/25/1,5
					30	35	48					45
	22,3			55,5	52,5	35	20/30/35/1,5					
4	13,8	60	46	20	23,4	36	32	12	36	16	2	Z 1555/12/36/16/2
					30	35	54					50
	5			18,8	25	29,3	40	36				17
6	27,5	60	46	30	35	54	50	20	36	25	2,5	20/36/25/2
					35	40	64					60
	22,3			74	70	35	25/36/35/2					
5	18,8	62	46	25	29	45	40	17	36	16	2,5	Z 1555/17/36/16/2,5
					30	35	50					45
	22,3			55	50	20	20/36/20/2,5					
6	27,5	62	46	35	40	67,5	62,5	25	36	25	2,5	25/36/25/2,5
					80	75	30					25/36/30/2,5
	22,3			92,5	87,5	35	25/36/35/2,5					

Z 1558/...

Passfeder
Parallel key
Clavette

DIN 6885-1



► Info

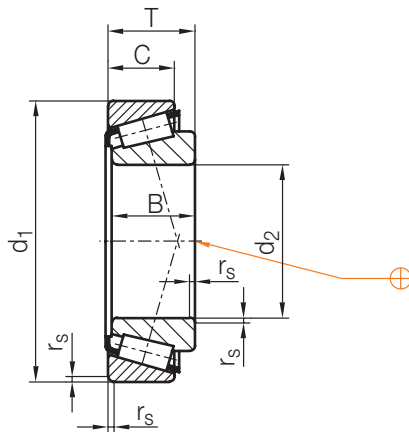
	b	h	l	Nr./No.
10	3	3	25	Z 1558/3x3x25
			32	32
			40	40
	4	4	25	Z 1558/4x4x25
			32	32
			40	40
			50	50
	5	5	14	Z 1558/5x5x14
			25	25
			32	32
			40	40
			50	50
6	6	20	Z 1558/6x6x20	
		28	28	
		40	40	
		50	50	

	b	h	l	Nr./No.
10	8	5	18	Z 1558/ 8x5x18
			34	34
			40	40
8	7	22	Z 1558/ 8x7x22	
		36	36	
		50	50	
10	6	40	Z 1558/10x6x40	
		45	45	
		50	50	
		60	60	
		65	65	
12	8	25	Z 1558/12x8x25	
		50	50	
		63	63	
14	9	32	Z 1558/14x9x32	
		63	63	
		63	63	
		80	80	

Z 1560/...

Kegelrollenlager
Taper roller bearing
Roulement à rouleaux coniques

DIN 720/DIN ISO 355



► Info

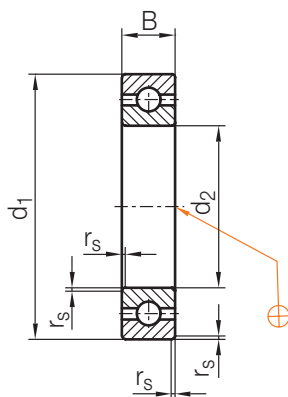
r _s	B	C	T	d ₁	d ₂	Nr./No.
0,6	15	11,5	15	44	22	Z 1560/44/22
1	14	12	15,25	47	20	47/20
0,6	15	11,5	15	47	25	47/25
1	16	12	16	52	28	52/28
	17	13	17	55	30	55/30
				58	32	58/32
18	14	18	62	35	62/35	

r _s	B	C	T	d ₁	d ₂	Nr./No.
1	19	14,5	19	68	40	Z 1560/ 68/40
	20	15,5	20	75	45	75/45
1,5	23	17,5	23	80	50	80/50
				90	55	90/55
	25	19	25	95	60	95/60
				100	65	100/65
				110	70	110/70

Z 1562 / ...

Rillenkugellager
Grooved ball bearing
Roulement à bille rainuré

DIN 625 -1



► Info

r_s	B	d_1	d_2	Nr./No.
0,3	6	19	6	Z 1562/19/ 6
			7	19/ 7
		22	8	22/ 8
	8	26	9	26/ 9
			10	26/10
		28	12	28/12
9	32	15	32/15	
10	35	17	35/17	
0,6	12	42	20	42/20

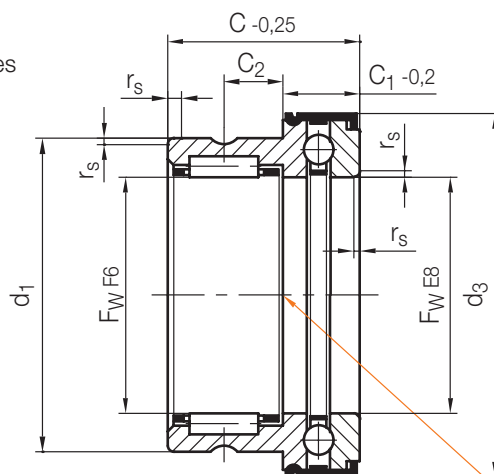
r_s	B	d_1	d_2	Nr./No.
0,6	12	47	25	Z 1562/ 47/25
1	13	55	30	55/30
	14	62	35	62/35
	15	68	40	68/40
	16	75	45	75/45
1,1	18	80	50	80/50
		90	55	90/55
		95	60	95/60
		100	65	100/65

4

Z 1564 / ...

Nadel-Axial-Kugellager
Needle-thrust ball bearing
Roulement à aiguilles, à billes butées

DIN 5429 -1



► Info

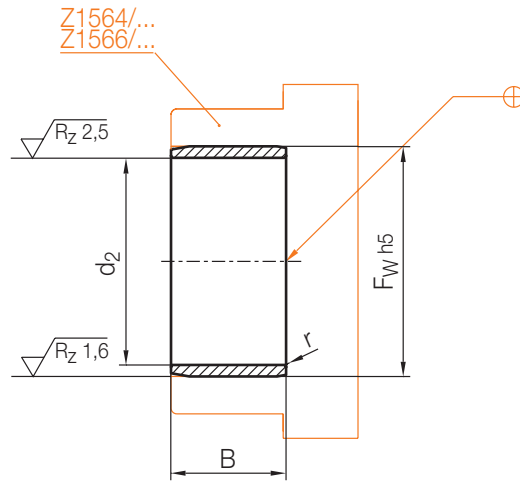
r_s	C_2	C_1	C	d_3	d_1	F_w	Nr./No.
0,3	6,5	9	23	25,2	19	10	Z 1564/19/10
				27,2	21	12	21/12
				29,2	24	15	24/15
	8	10	25	31,2	26	17	26/17
	36,2			30	20	30/20	
	43,2			37	25	37/25	
0,6	9,5	11	30	48,2	42	30	42/30

r_s	C_2	C_1	C	d_3	d_1	F_w	Nr./No.
0,6	9	12	30	53,2	47	35	Z 1564/47/35
				61,2	52	40	52/40
	10	13	32	66,5	58	45	58/45
				71,5	62	50	62/50
1	12	17	40	86,5	72	60	72/60
				96,5	85	70	85/70

Z 1565/...

Nadellager-Innenring
Thrust ring
Bague intérieure du roulement à aiguilles

Mat.: 1.3505/58 ± 4 HRC



► Info

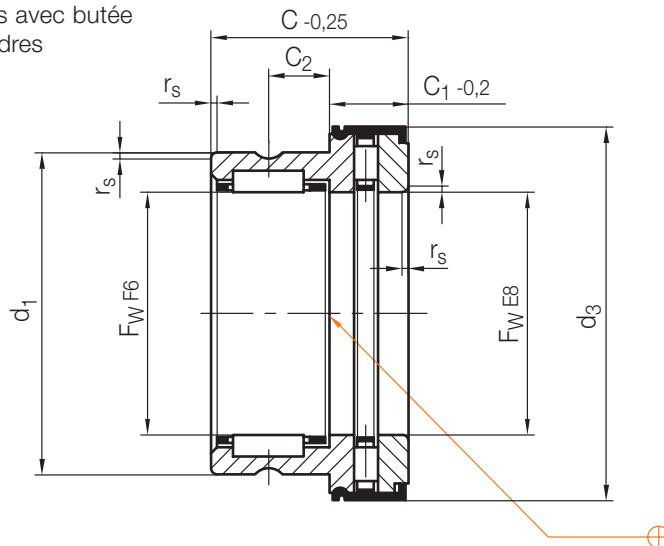
r	d ₂	Tol.	F _w	B	Nr./No.
0,3	7	-0,008	10	16	Z 1565/ 7x10x16
	9		12		9x12x16
	12		15		12x15x16
	14		17		14x17x17
	17		20		17x20x20
0,6	20	-0,01	25	20	20x25x20
	25		30		25x30x20

r	d ₂	Tol.	F _w	B	Nr./No.
0,3	30	-0,012	35	20	Z 1565/30x35x20
	35		40		35x40x20
	40		45		40x45x20
	45		50		45x50x25
0,6	50	-0,015	60	25	50x60x25
	60		70		60x70x25

Z 1566/...

Nadel-Axial-Zylinderrollenlager
Needle-thrust roller bearing
Roulement à aiguilles avec butée de roulement à cylindres

DIN 5429-1



► Info

r _s	C ₂	C ₁	C	d ₃	d ₁	F _w	Nr./No.
0,3	6,5	9	23	29,2	24	15	Z 1566/24/15
	8			31,2	26	17	26/17
	10,5	10	30	36,2	30	20	30/20
0,6	9,5	11		43,2	37	25	37/25
				48,2	42	30	42/30

r _s	C ₂	C ₁	C	d ₃	d ₁	F _w	Nr./No.
0,6	9	12	30	53,2	47	35	Z 1566/47/35
				61,2	52	40	52/40
	10	14	35	66,5	58	45	58/45
				71,5	62	50	62/50

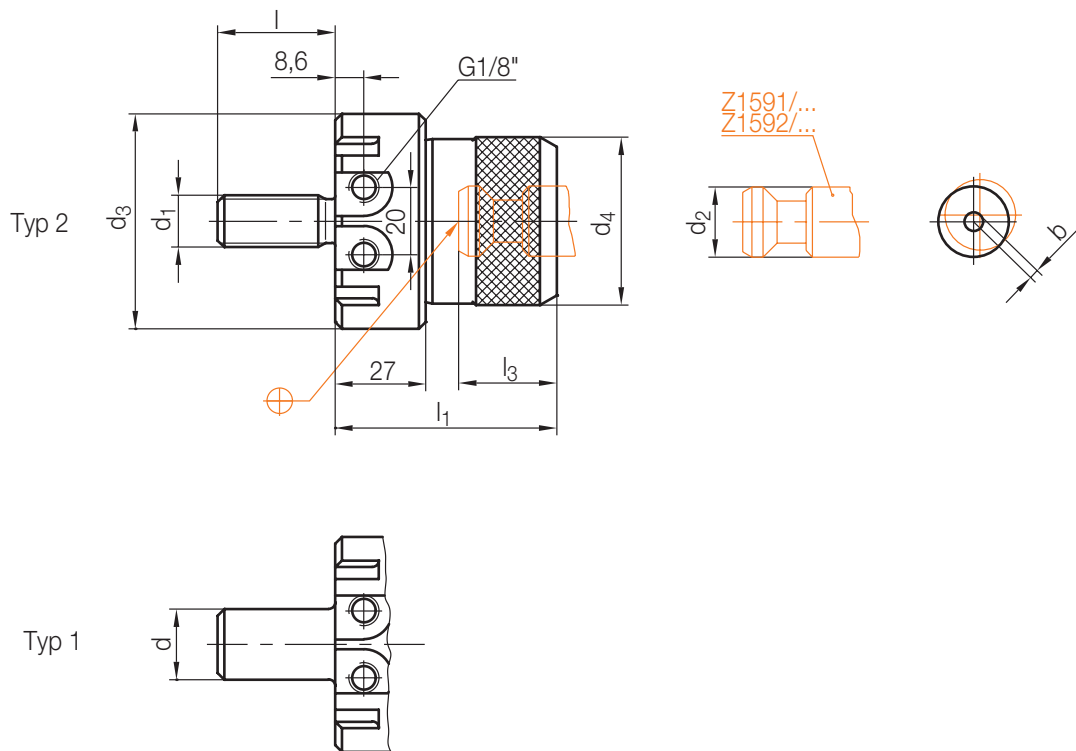
Z 159/...

Auswerferkupplung, pneumatisch
 Ejector coupling device, pneumatic
 Coupleur pneumatique

≈ EUROMAP 11 Part 5



► Info



4

Typ	b	d ₄	d ₃	l ₃	l ₁	l	d	d ₂	d ₁	Nr./No.
1	0,7	50	64	20	65	28	20,5	18	—	Z 159/18
2							—		M 16	18/M16
1	1,0	60	78	23	70	36	24,5	24	—	24
2							—		M 20	24/M20
1	1,2	70	92	26	75	45	30,5	30	—	30
2							—		M 24	30/M24

09.08.1.2.22 002229

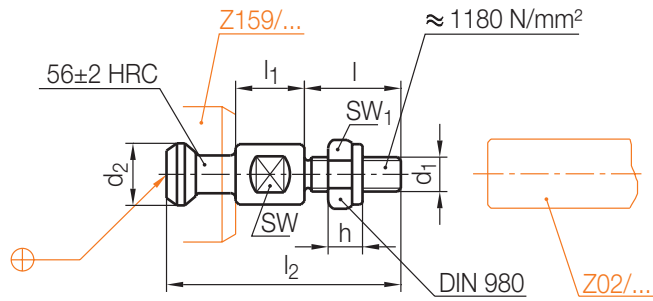
Z 1591/...

Kupplungszapfen
Coupling spigot
Tige d'éjection

Mat.: 1.2764/58 - 3 HRC



► Info



Z28/...	SW	SW ₁	h	l ₂	l	d ₁	d ₂	l ₁	Nr./No.
Z28/10	14	17	7,6	68	28	M10	18	20	Z 1591/18x20
12	19	19	9,6	83	35	M12	24	25	24x25
16	24	24	12,3	101	43	M16	30	32	30x32

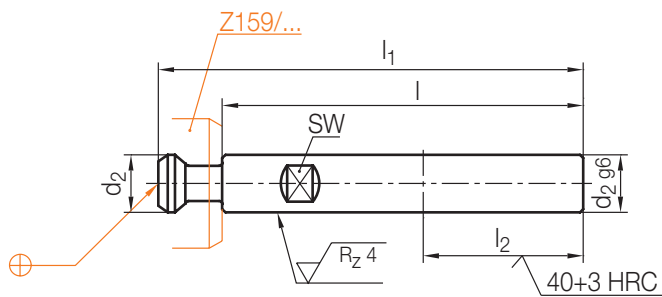
Z 1592/...

Ausstoß-/Kupplungsbolzen
Ejector/coupling rod
Ejecteur-coupleur

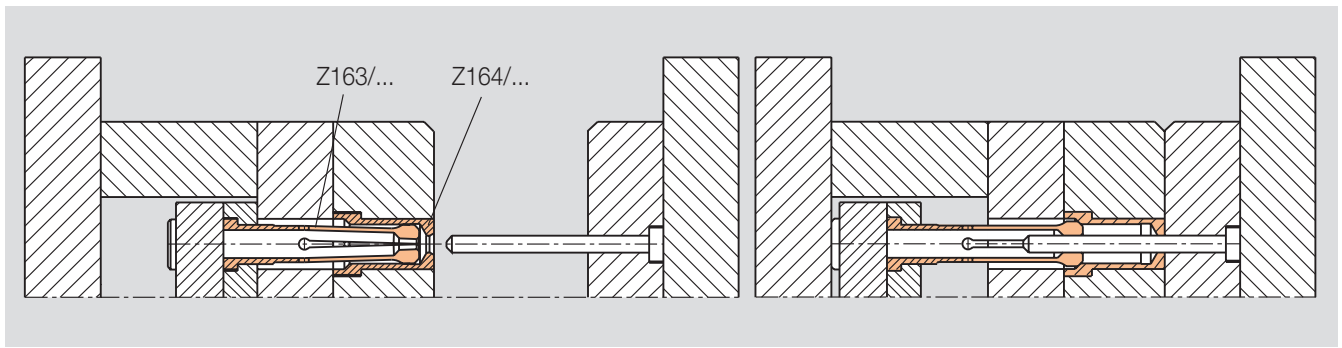
Mat.: 1.2764/58 - 3 HRC



► Info



SW	l ₂	l ₁	d ₂	l	Nr./No.
14	50	220	18	200	Z 1592/18x200
19	60	273	24	250	24x250
24	70	306	30	280	30x280



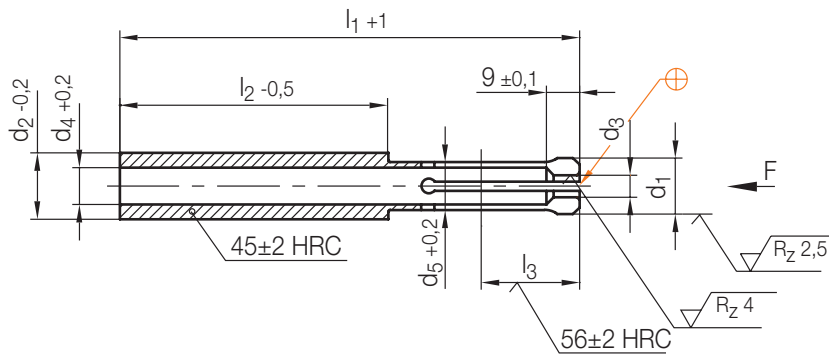
Z163/...

Rückdruckhülse
Pressure sleeve
Rappel anticipé d'éjection
Mat.: 1.2826



► Info

4



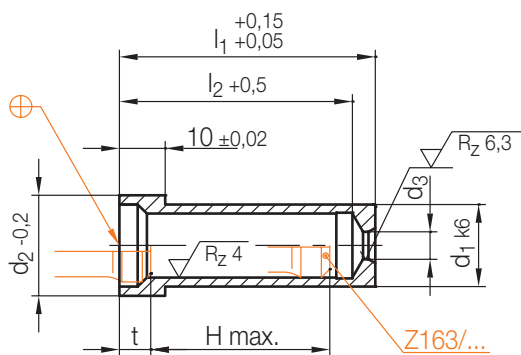
max. F[N]	l ₃	l ₂	d ₁	d ₂	d ₄	d ₅	d ₃	l ₁	Nr./No.
12000	20	73	16	18	10	13	6	125	Z163/ 6x125
20000	25	100	20	24	12,5	17	10	160	10x160

Z164/...

Rückdruckbuchse
Bush
Tige
Mat.: 1.2080/60 + 2 HRC



► Info



H = Hub / stroke / course

max. H	t	l ₂	d ₂	d ₁	d ₃	l ₁	Nr./No.
24	6,7	31	22	18	6	36	Z164/6x36
34		41				46	46
44		51				56	56

max. H	t	l ₂	d ₂	d ₁	d ₃	l ₁	Nr./No.
23	6,7	30	29	24	10	36	Z164/10x36
33		40				46	46
43		50				56	56
63		70				76	76

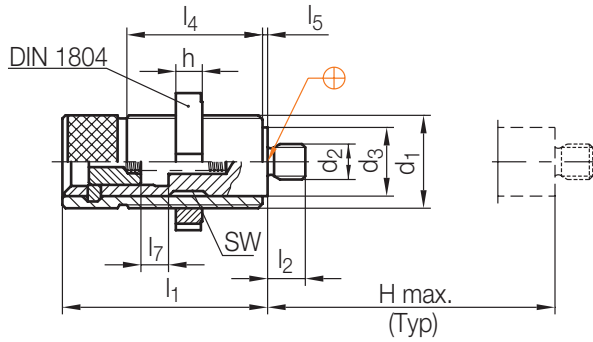
09.08.12.22 0022229

Z 165/...

Rückzug-Führungsvorrichtung
Guided ejector pull back device
Système de rappel d'éjection



► Info



H = Hub / Stroke / Course

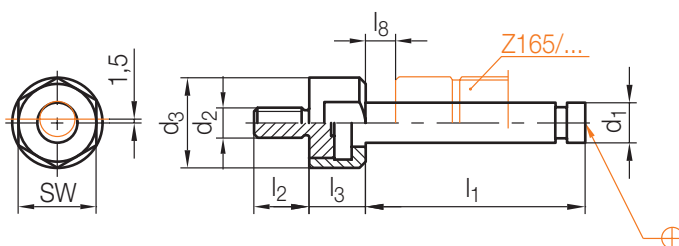
SW	h	d ₃	d ₁	d ₂	l ₄	l ₅	l ₇	l ₁	l ₂	H max.	Typ	Nr./No.
20	11	24	M32x1,5	M12x1	45	1	11,5	70	12	55	50	Z 165/50
27	12	31	M42x1,5	M16x1,5	60	1	13,5	90	17	70	60	60
34	13	39	M50x1,5	M20x1,5	75	1	15,5	120	22	100	80	80

Z 166/...

Ausstoßbolzen
Ejector rod
Tige d'éjection
Mat.: 1.5919



► Info



l ₁	l ₂	l ₃	l ₈	SW	d ₂	d ₁	d ₃	Typ	Nr./No.
87,5	22	22,5	12	32	M12	16	36	50	Z 166/50
109	25	25	14	46	M16	21	50	60	60
132	30	27	4,5	55	M20	28	60	80	80

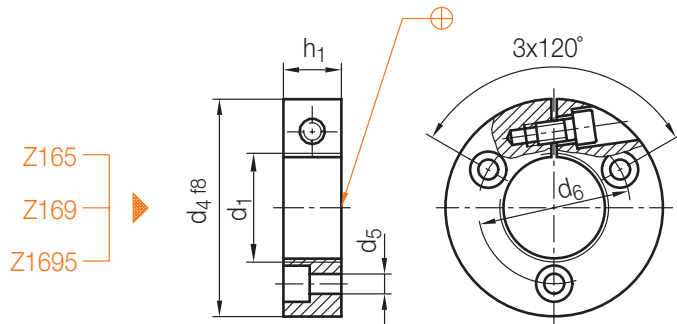
Z 167/...

Flansch
Flange
Bride

Mat.: 1.0580/540 N/mm²



► Info



Z165
Z169
Z1695

d ₄	d ₅	d ₆	h ₁	d ₁	Nr./No.
60	5,5	46	14	M32 x 1,5	Z167/32x1,5
82	9	65,5	20	M36 x 1,5	36x1,5
80	6,6	62	22	M42 x 1,5	42x1,5
90	9	72	22	M50 x 1,5	50x1,5

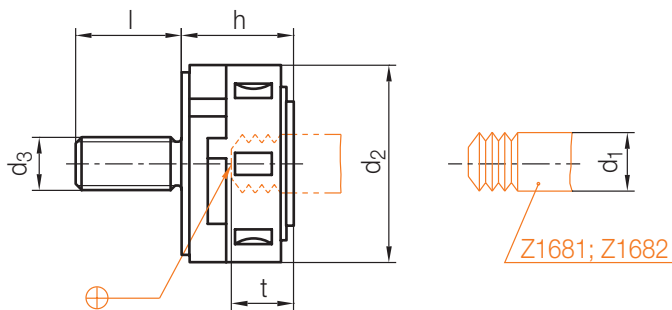
d ₄	d ₅	d ₆	h ₁	d ₁	Nr./No.
90	9	72	25	M52 x 1,5	Z167/52x1,5
100	9	80	32	M60 x 1,5	60x1,5
112	11	90	40	M70 x 1,5	70x1,5
110	11	91	42	M72 x 1,5	72x1,5

Z 168/...

Schnellkupplung
Rapid coupling
Coupleur rapide



► Info



Z1681; Z1682

t	l	d ₃	d ₂	h	d ₁	Nr./No.
22,7	35	M16	55	40	20	Z168/20
30	40	M20	72	50	30	30
35	50	M24	90	60	40	40

Z 1681/...

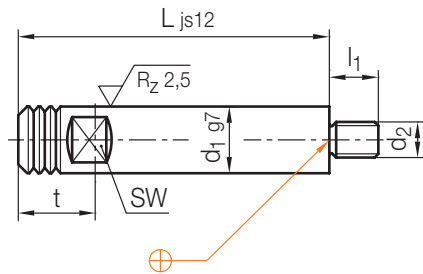
Ausstoß-/Kupplungsbolzen
Ejector/coupling rod
Tige d'éjection

Mat.: 1.5919/56 ± 2 HRC



► Info

Z1681/... ►



t	SW	d ₂	l ₁	d ₁	L	Nr./No.
22,7	14	M12x1	12	20	115	Z 1681/20x115
					140	20x140
30	22	M16x1,5	22	30	140	30x140

t	SW	d ₂	l ₁	d ₁	L	Nr./No.
30	22	M16x1,5	22	30	170	Z 1681/30x170
35	30	M20x1,5	27	40	175	40x175
					220	40x220

Z 1682/...

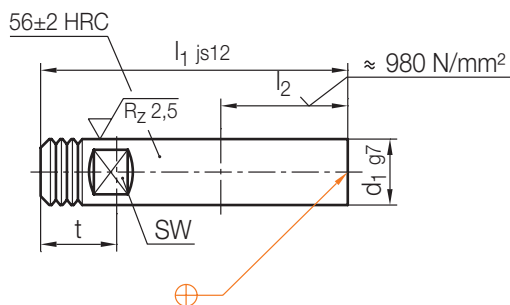
Ausstoß-/Kupplungsbolzen
Ejector/coupling rod
Tige d'éjection

Mat.: 1.5919



► Info

Z1682/... ►



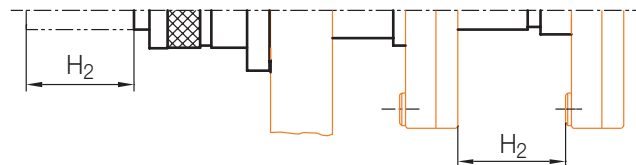
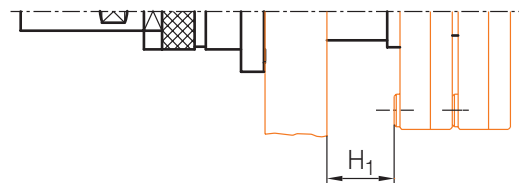
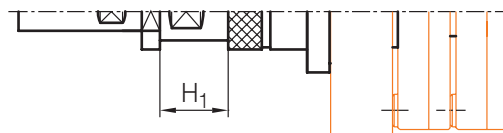
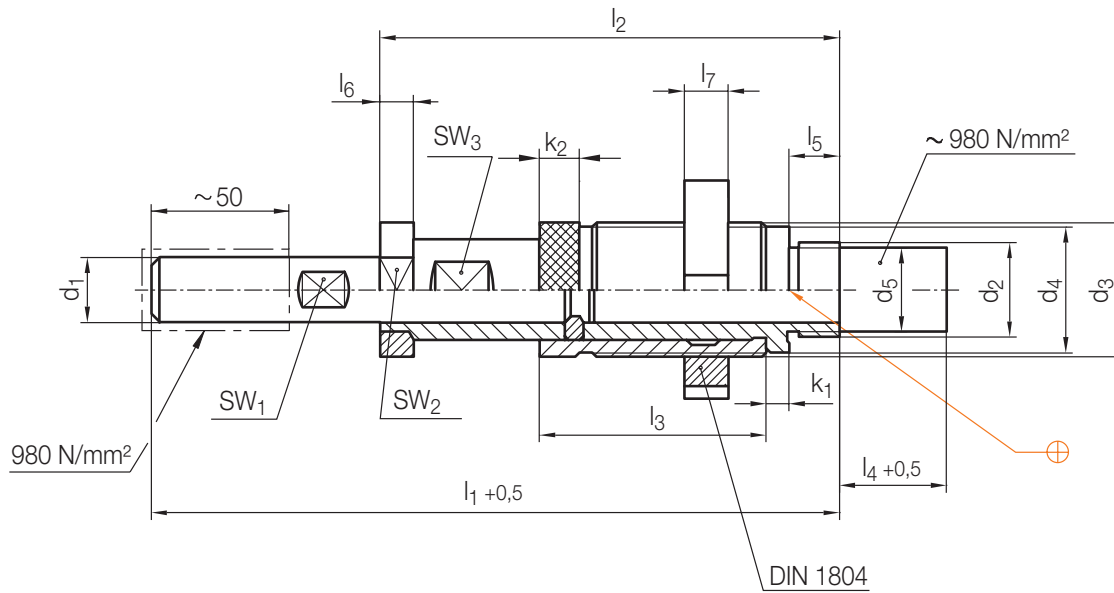
t	SW	l ₂ min.	d ₁	l ₁	Nr./No.
22,7	14	40	20	220	Z 1682/20x220
30	22	60	30	260	30x260
35	30	80	40	300	40x300

Z 169/...

Zweistufenauswerfer, zentraler Einbau
 Two stage ejector, central mounting
 Ejecteur bi-étagé, montage central



Info



H = Hub / Stroke / Course

SW ₃	SW ₂	SW ₁	k ₂	k ₁	d ₄	d ₅	l ₇	l ₆	l ₅	l ₄	l ₃	l ₂	l ₁	d ₂	d ₃	H ₁		H ₂		d ₁	Nr./No.
																min.	max.	min.	max.		
20	28	13	8	5	30	20	11	9	11	26	56	112	164	M22x1,5	M32x1,5	5	30	5	50	16	Z 169/16
27	38	17	10	6	40	28	12		16	36	75	148	220	M30x1,5	M42x1,5	6	40	6	70	22	22
38	55	24		7	50	38	13	11	21	45	80	170	255	M40x1,5	M60x1,5	7	50	7	85	30	30
46	65	32	14	8	65	50	14	12	22		98	200	270	M52x1,5	M70x1,5	7,5	60	7,5	70	40	40

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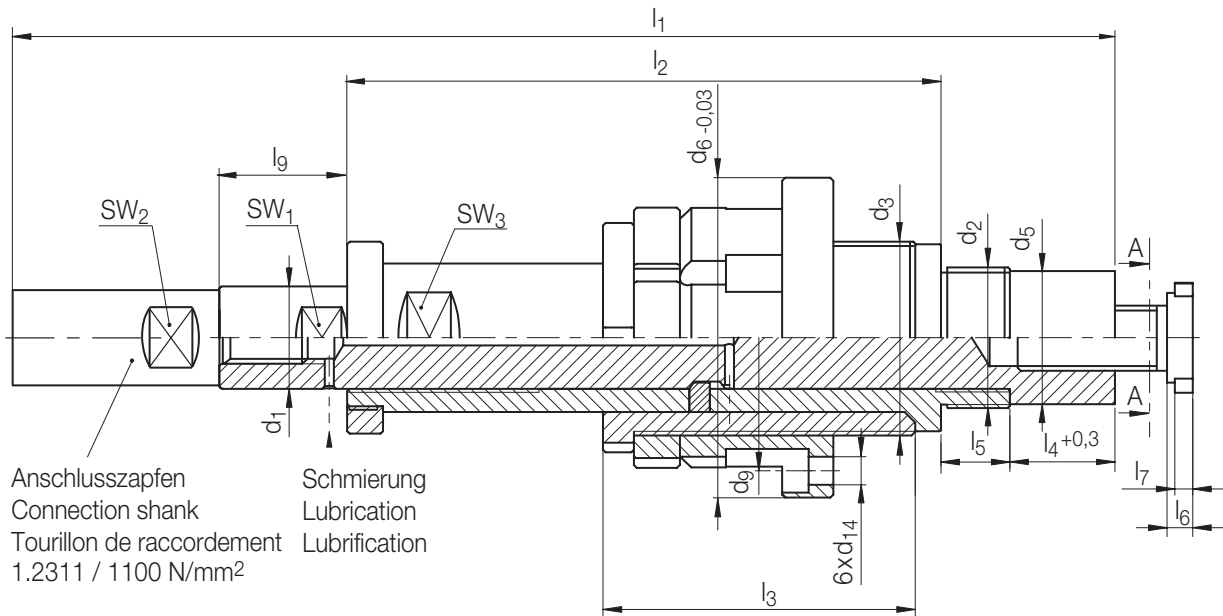
4

Z 1691/...

Zweistufenauswerfer, zentraler Einbau
 Two stage ejector, central mounting
 Ejecteur bi-étagé, montage central

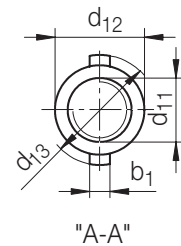
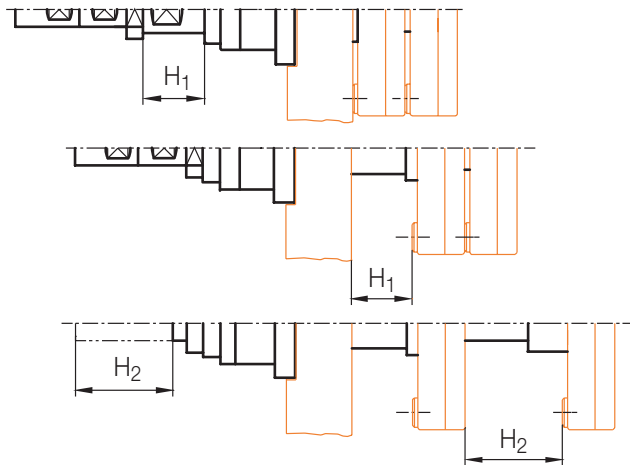


► Info



Anschlusszapfen
 Connection shank
 Tourillon de raccordement
 1.2311 / 1100 N/mm²

Schmierung
 Lubrication
 Lubrification



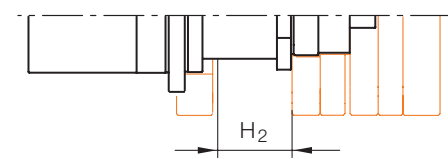
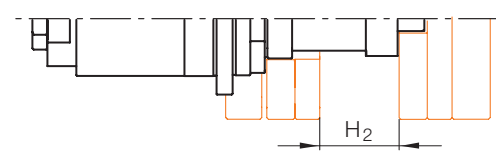
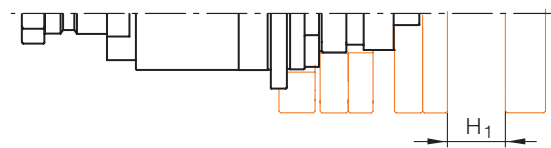
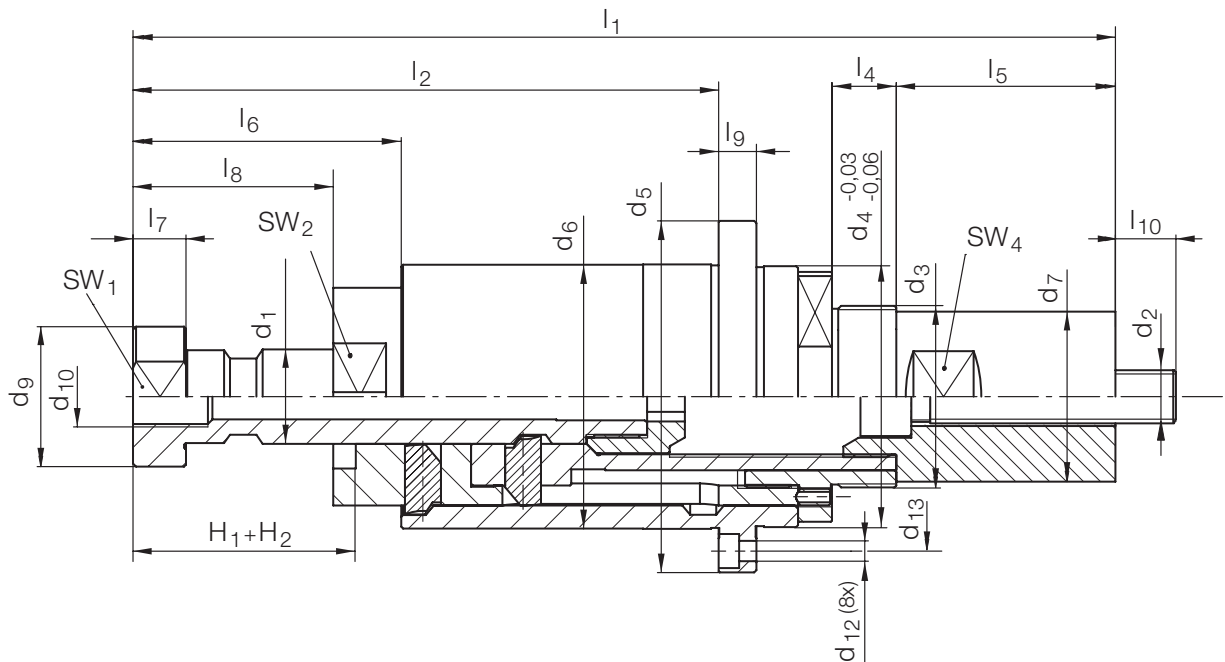
H = Hub / Stroke / Course

Neu / New / Nouveau

SW ₁	SW ₂	SW ₃	d ₂	d ₃	d ₅	d ₆	d ₉	d ₁₁	d ₁₂	d ₁₃	d ₁₄	b ₁	l ₁	l ₂	l ₃	l ₄	l ₅	l ₆	l ₇	l ₉	H ₁	H ₂ max.	d ₁	Nr./No.
10	10	17	M20x1	M28x1,5	18,5	50	41,6	M 8x0,75	13,4	17,6	4,3	3,2	164	72	38,8	21	9	4	2,6	22	3- 20	50	13	Z1691/13
13	12	21	M24x1,5	M35x1,25	22	60	48	M11x1	17,4	22	5,4	4	228	110	63		12	5	3,5	25	4- 30	65	17	17
17	17	27	M30x1,5	M45x1,5	28	75	61	M14x1	21	27	6,5	5	270	131	74	17	17	6	4	30	6- 42	80	22	22
24	22	36	M40x1,5	M60x1,5	38	100	82	M18x1	26	33	8,8	6	340	166	89	27		7	5	38	10- 60	95	30	30
32	32	46	M55x1,5	M75x1,5	52	125	104	M25x1,5	35	43	11	8	470	232	122	41	27	10	7	50	14- 86	130	40	40
41	41	65	M72x1,5	M98x2	69	150	128	M34x1,5	48	58	11	9	583	295	155	51	27	15	11	60	18-110	180	52	52

Z 1692 / ...

Zweistufenauswerfer, vorlaufend
 Two-stage ejector, advancing
 Ejecteur bi-étagé, en continu



4

Neu / New / Nouveau

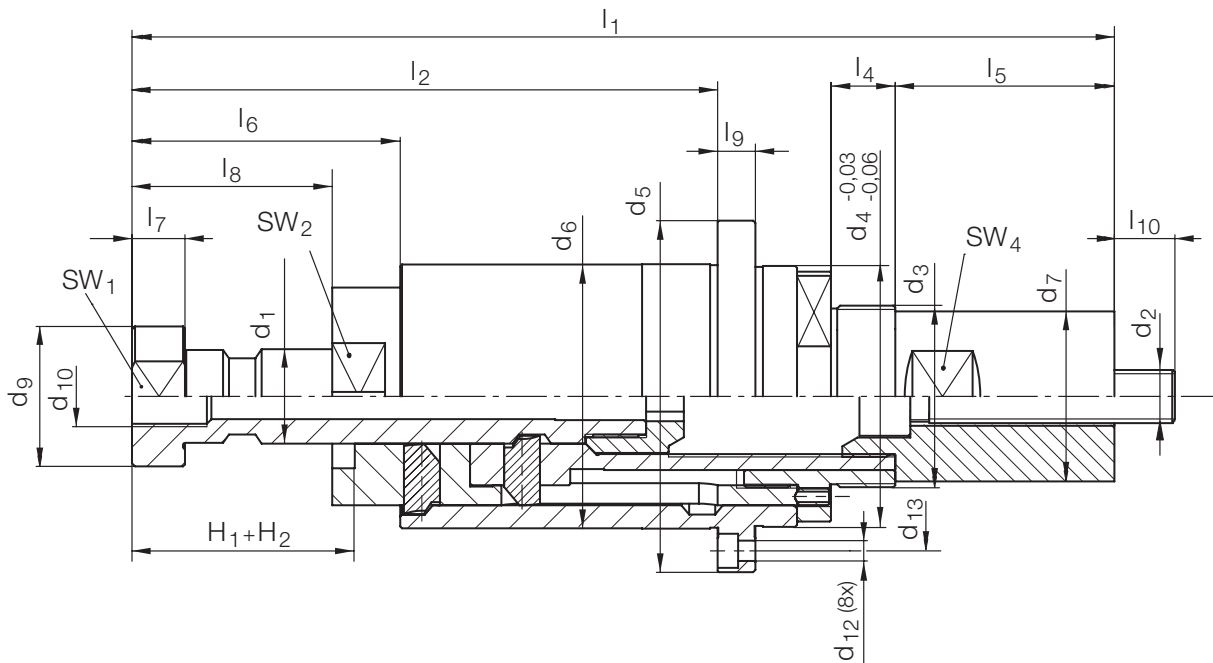
SW ₁	SW ₂	SW ₄	d ₂	d ₃	d ₄	d ₅	d ₆	d ₇	d ₉	d ₁₀	d ₁₂	d ₁₃	l ₁	l ₂	l ₄	l ₅	l ₆	l ₇	l ₈	l ₉	l ₁₀	H _{2 max.}	d ₁	H ₁	Nr./No.
32	50,2	38	M14x1	M48x1,5	69	93	70	45	37	M16	5,4	81	260	155	17	58	71	14	53	10	16	0-45	25	4-45	Z 1692/25x45
41	60,2	46	M18x1	M58x1,5	80	110	82	55	46	M16	6,4	95	325	198	17	80	89	15	68	12	25	0-60	32	6-60	32x60
50	80,2	65	M24x1,5	M76x1,5	106	140	108	73	56	M24	8,5	123	471	258	22	152	116	18	90	14	24	0-80	40	8-80	40x80

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Bestellformular	Order form	Formulaire de commande
Firma/Company/Société : _____		
Zuständig/Contact/Responsable : _____		
Tel.: _____	Fax.: _____	Datum/Date : _____
<input type="checkbox"/> Bestellung/Order/Commande	Nr./No.: _____	<input type="checkbox"/> Anfrage/Quotation/Demande

Z 1692/.../S

Zweistufenauswerfer, vorlaufend
 Two-stage ejector, advancing
 Ejecteur bi-étagé, en continu



Neu / New / Nouveau

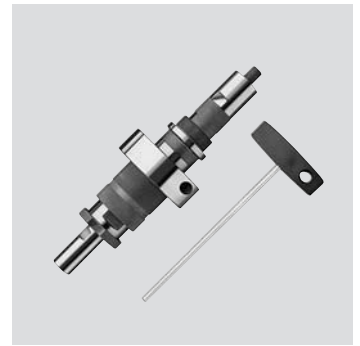
Alle Abmessungen sind identisch mit der Standardversion, siehe S.6. Der Hub „H₁“ ist in mm-Schritten wählbar.
 All dimensions are identical with the standard version, see page 6. The stroke “H₁” can be selected in mm steps.
 Toutes les dimensions sont identiques à la version standard, voir p.6. La course «H₁» peut être sélectionnée mm par mm.

Stck./Pc.	Typ	d ₁	H ₁	S
	Z 1692	/	x	/ S
		/	x	/ S
		/	x	/ S

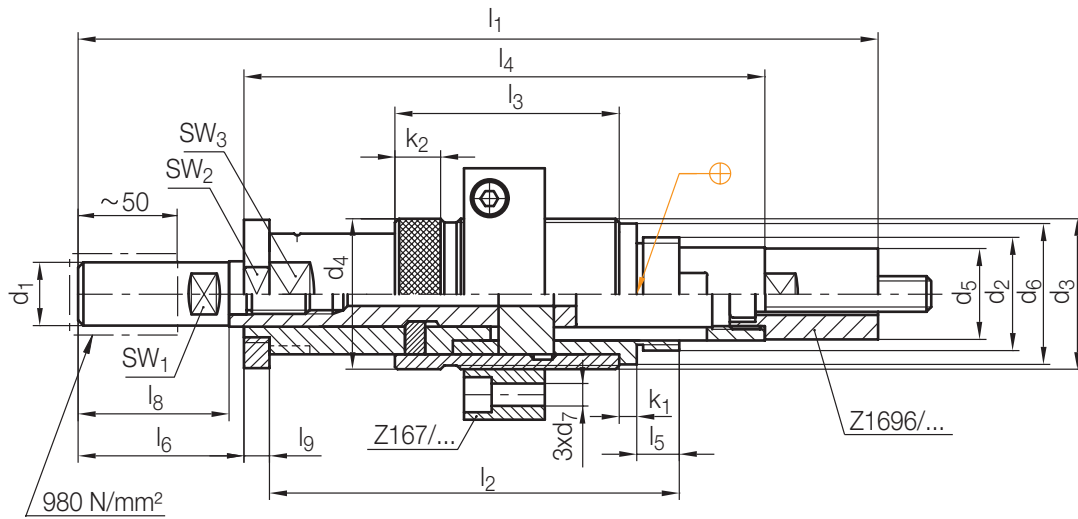
09.08.12.22 002229

Z 1695 / ...

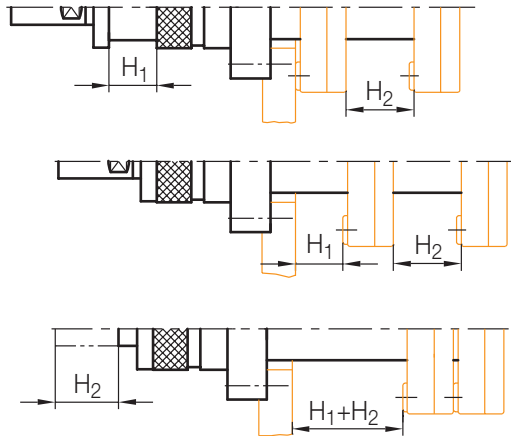
Zweistufenauswerfer, zentraler Einbau
Two stage ejector, central mounting
Ejecteur bi-étagé, montage central



► Info



4



H = Hub / Stroke / Course

k_2	k_1	SW ₃	SW ₂	SW ₁	l_9	l_8	l_6	l_5	l_4	l_3	l_2	l_1	H_2		H_1		d_7	d_6	d_5	d_4	d_3	d_2	d_1	Nr./No.
													min.	max.	min.	max.								
18	6	36	46	17	10	52	58	17	175	82	141	278	12	48	6	36	9	50	31,5	52	M52x1,5	M40x1,5	22	Z 1695/22
	7	41	55	19		60	66		207	89	163	329	20	60	8	50		56	36	60	M60x1,5	M45x1,5	25	25
16	8	50	65	27	12	82	102	22	257	106	196	430	30	86	16	60	11	70	44	72	M72x1,5	M55x1,5	32	32

09.08.12.22 0022229

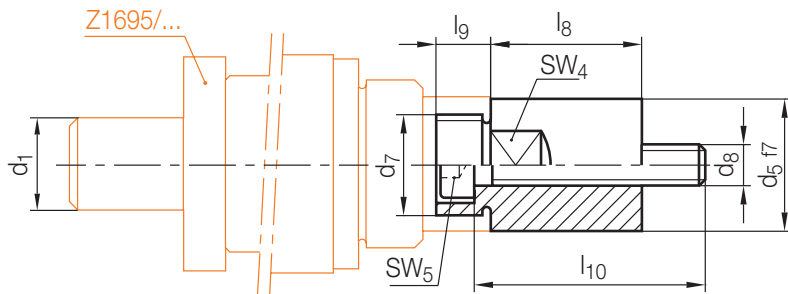
Z 1696/...

Adapter
 Adapter
 Adaptateur

Mat.: 1.2312 / 1100 N/mm²



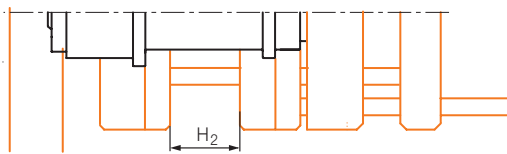
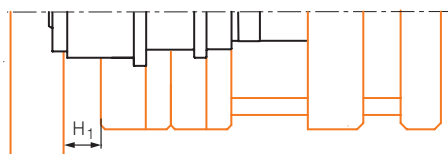
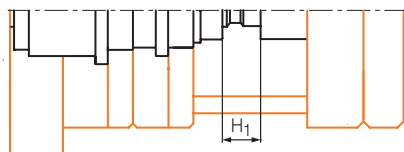
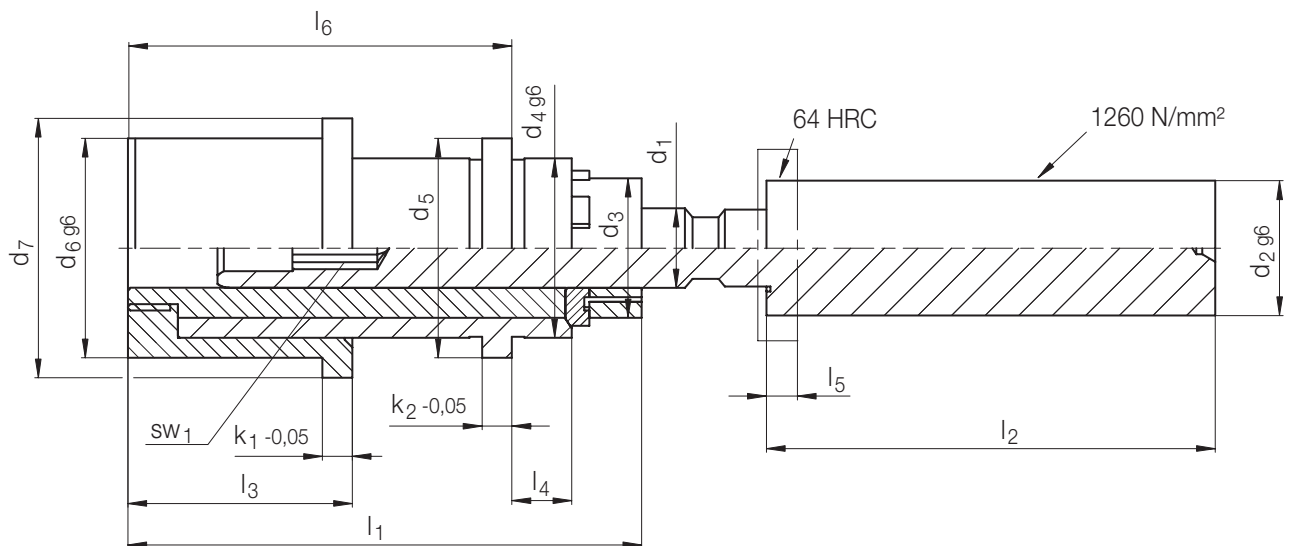
► Info



SW ₅	SW ₄	l ₁₀	l ₉	l ₈	d ₈	d ₇	d ₅	d ₁	Nr./No.
6	27	62	13	45	M12x1,25	M24x1,25LH	31,5	22	Z 1696/22
8	32	78	14	56	M14x1,5	M28x1,25LH	36	25	25
	36	100	16	71	M16x1,5	M34x1,25LH	44	32	32

Z 1697/...

Zweistufenauswerfer, dezentraler Einbau
 Two stage ejector, off-center mounting
 Ejecteur bi-étagé, montage décentré



4

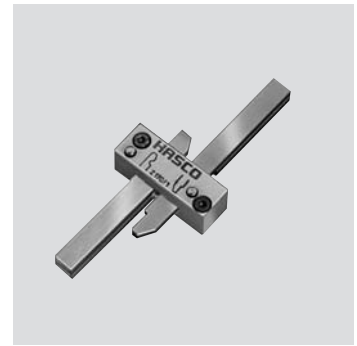
09.08.1.2.22 0022229

SW ₁	k ₂	k ₁	l ₆	l ₅	l ₄	l ₃	l ₂	l ₁	d ₇	d ₆	d ₅	d ₄	d ₃	d ₂	H ₁		H ₂		d ₁	Nr./No.
															min.	max.	min.	max.		
8	6	6	77	5	12	45	90	103	52	44	44	36	28	27	6	76	14	76	16	Z 1697 / 16
10	7	7	101	6	17	59	100	134	59	51	51	43	34	32	8	96	16	96	20	20
14	8	8	126	7	22	74	150	168	73	64	63	54	43	42	10	130	20	130	26	26

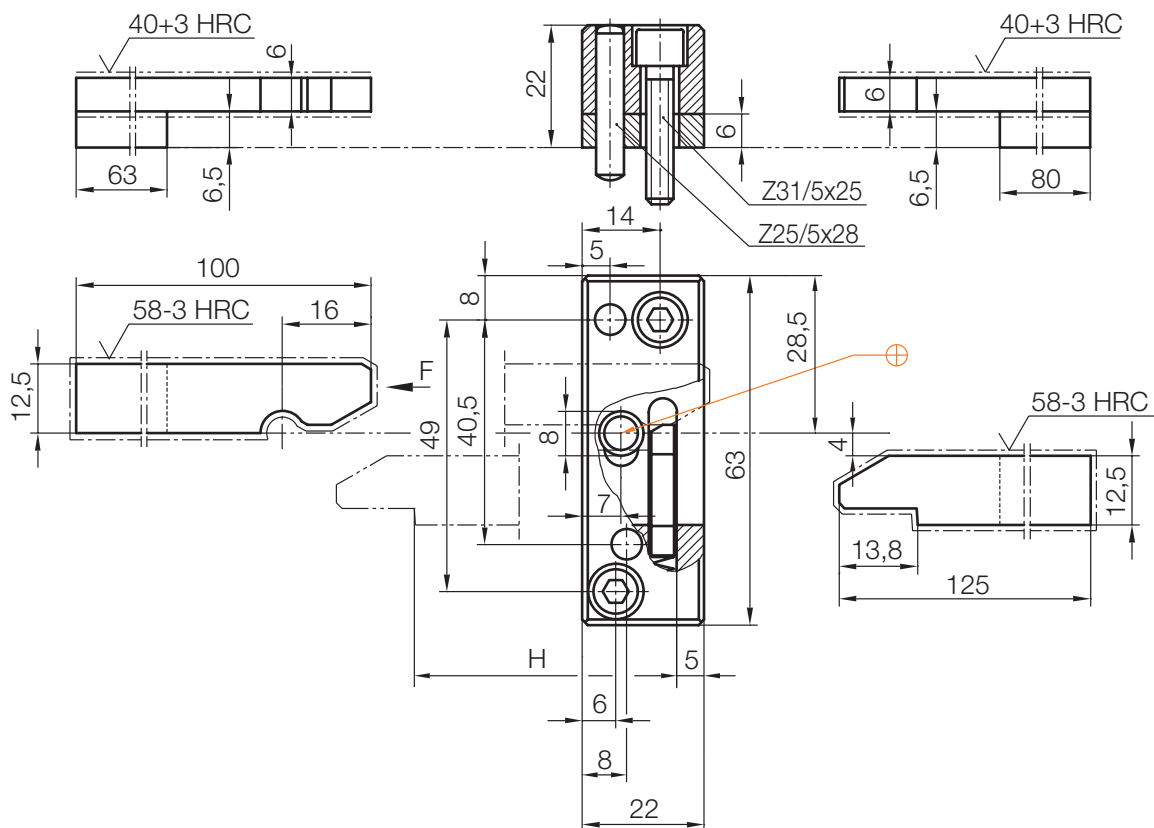
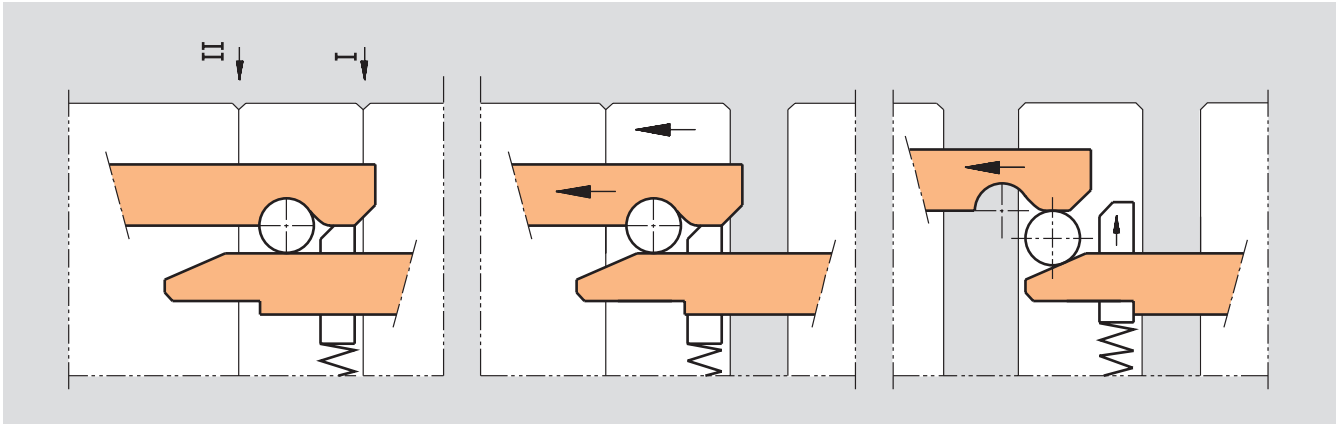
Z170/1

Klinkenzug
 Latch locking unit
 Loquet

Mat.: 1.2764



► Info



H = Hub/Stroke/Course

H min.	H max.	F [N]	Typ	Nr./No.
5,5	80	8000	1	Z170/1

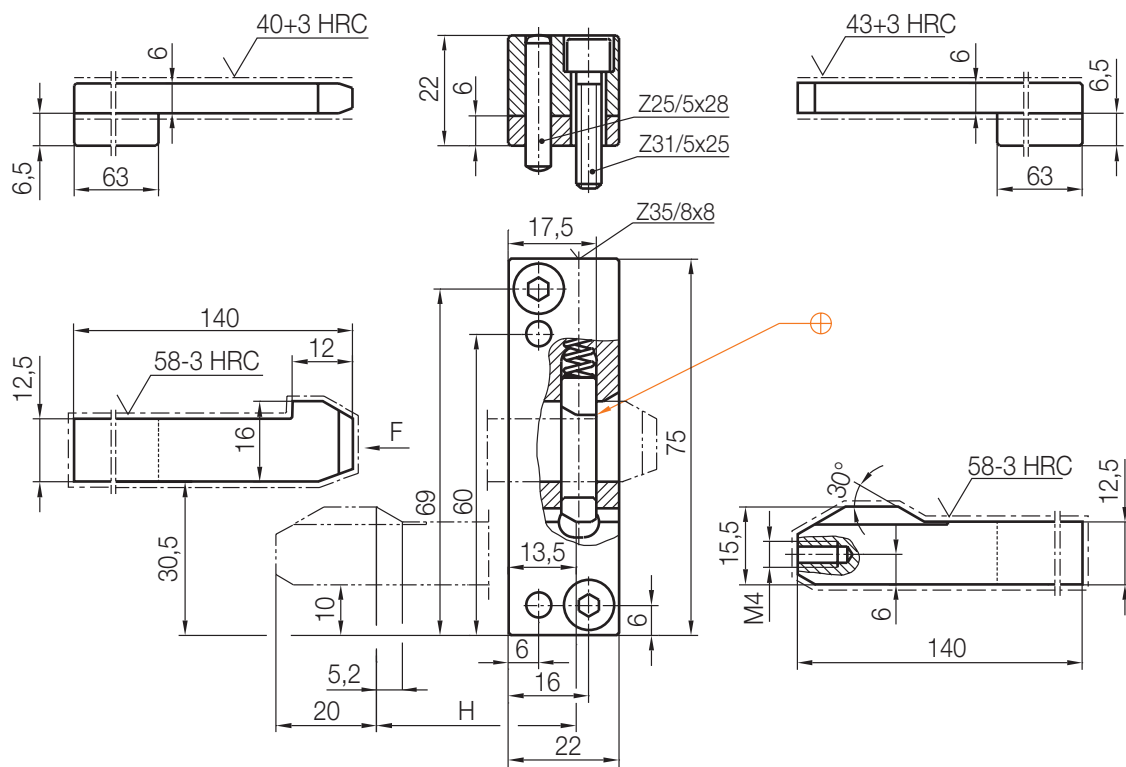
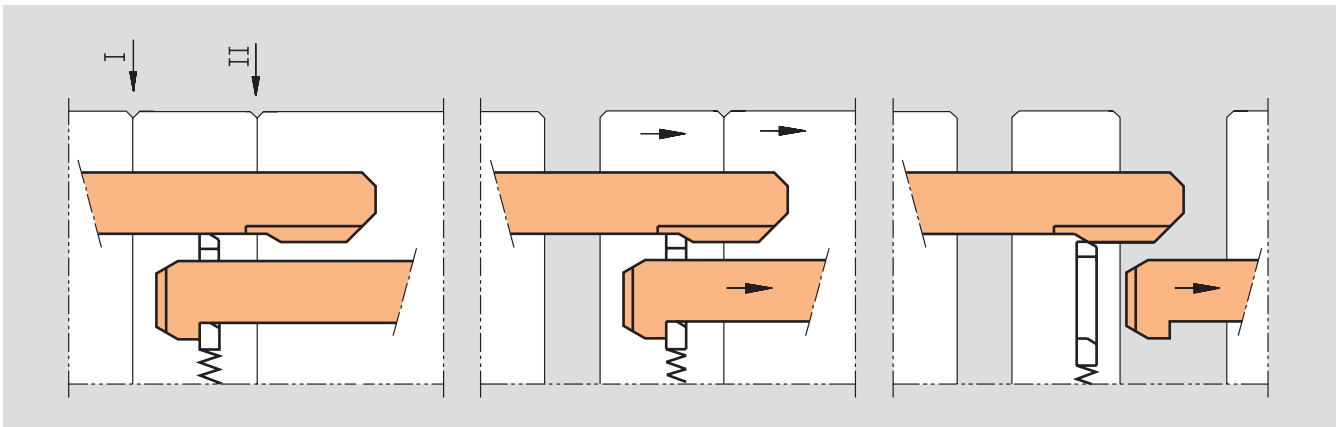
Z171/1

Klinkenzug
 Latch locking unit
 Loquet

Mat.: 1.2764



► Info



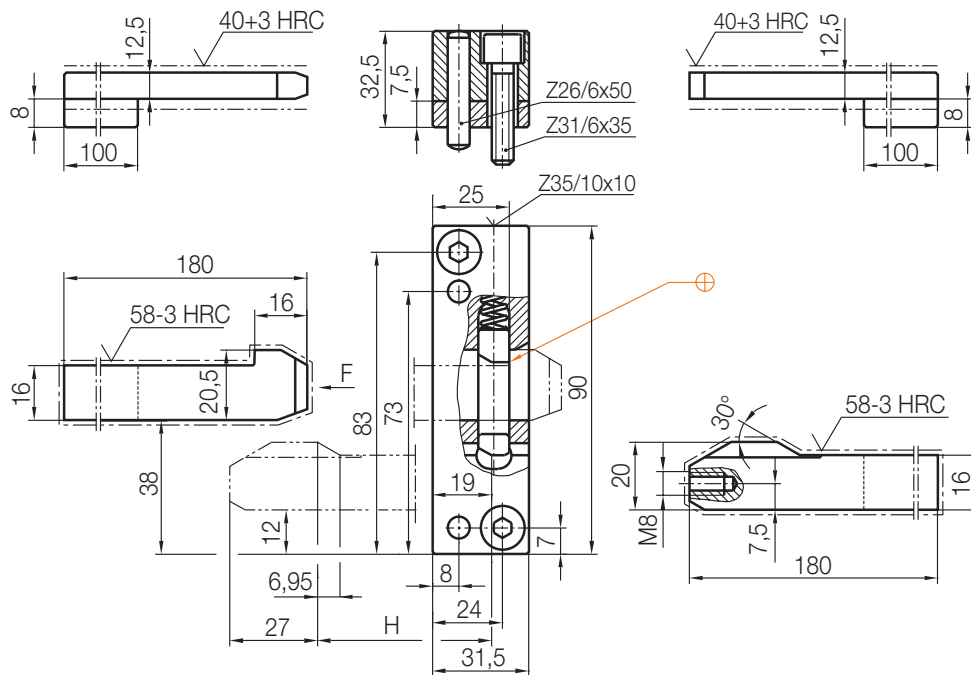
H = Hub / Stroke / Course

H min.	H max.	F [N]	Typ	Nr./No.
5,5	80	6500	1	Z171/1

Z171/2

Klinkenzug
Latch locking unit
Loquet

Mat.: 1.2764



► Info

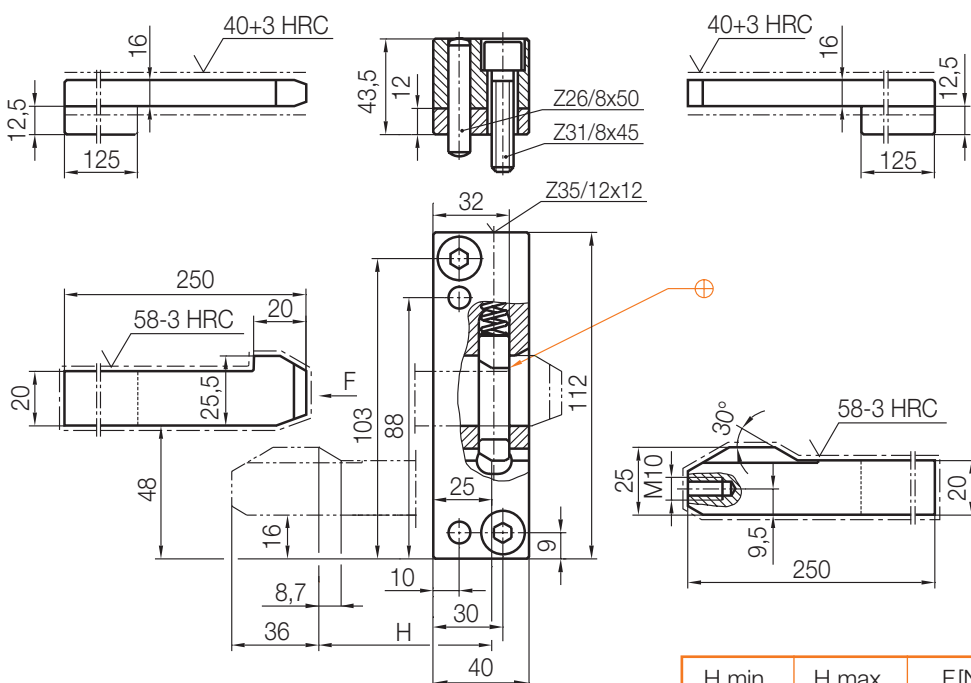
H = Hub/Stroke/Course

H min.	H max.	F [N]	Typ	Nr./No.
7	110	15500	2	Z171/2

Z171/3

Klinkenzug/Latch locking unit/Loquet

Mat.: 1.2764



► Info

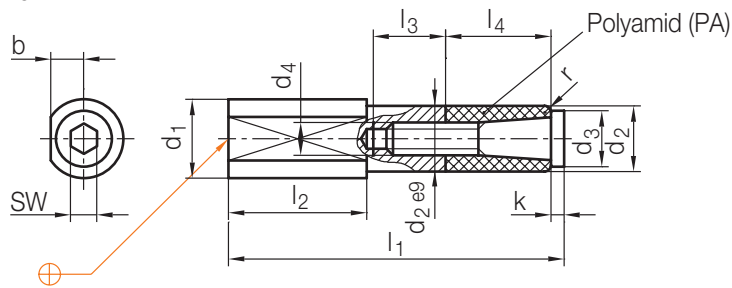
H = Hub/Stroke/Course

H min.	H max.	F [N]	Typ	Nr./No.
9	160	22000	3	Z171/3

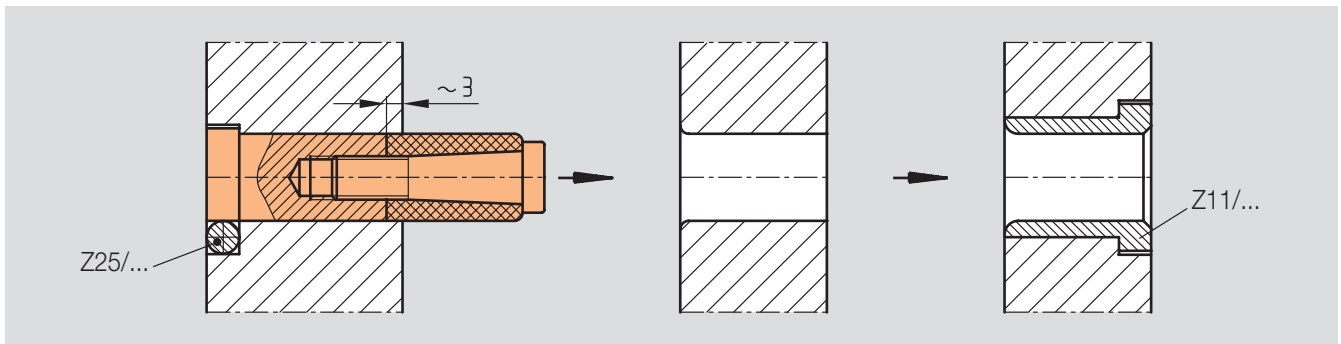
Z172/...

Mitnehmer
Frictional puller
Taquet d'entraînement

Mat.: ≈ 1.0711



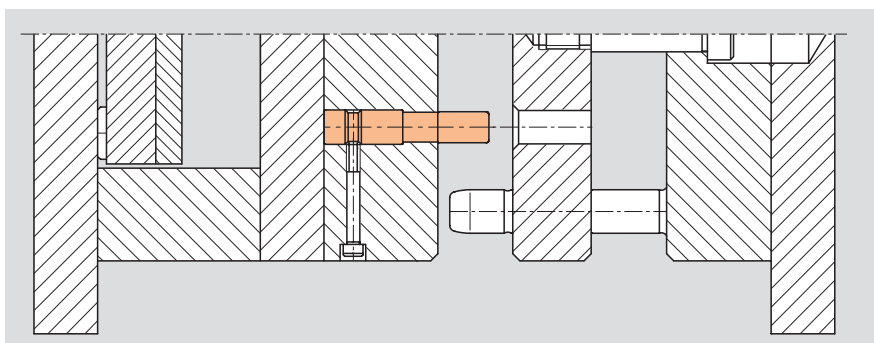
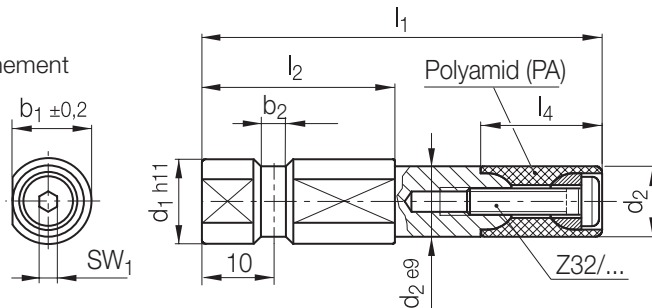
► Info



max. °C	r	b	k	SW	l ₃	l ₄	l ₂	l ₁	d ₁	d ₄	d ₃	d ₂	Nr./No.
120	1	5	2	4	12	16	22	51	12	M5	8,5	10	Z172/10
	1,5	8	4	6	14	25	23	72	18	M8	13	16	16

Z1721/...

Mitnehmer
Frictional puller
Taquet d'entraînement



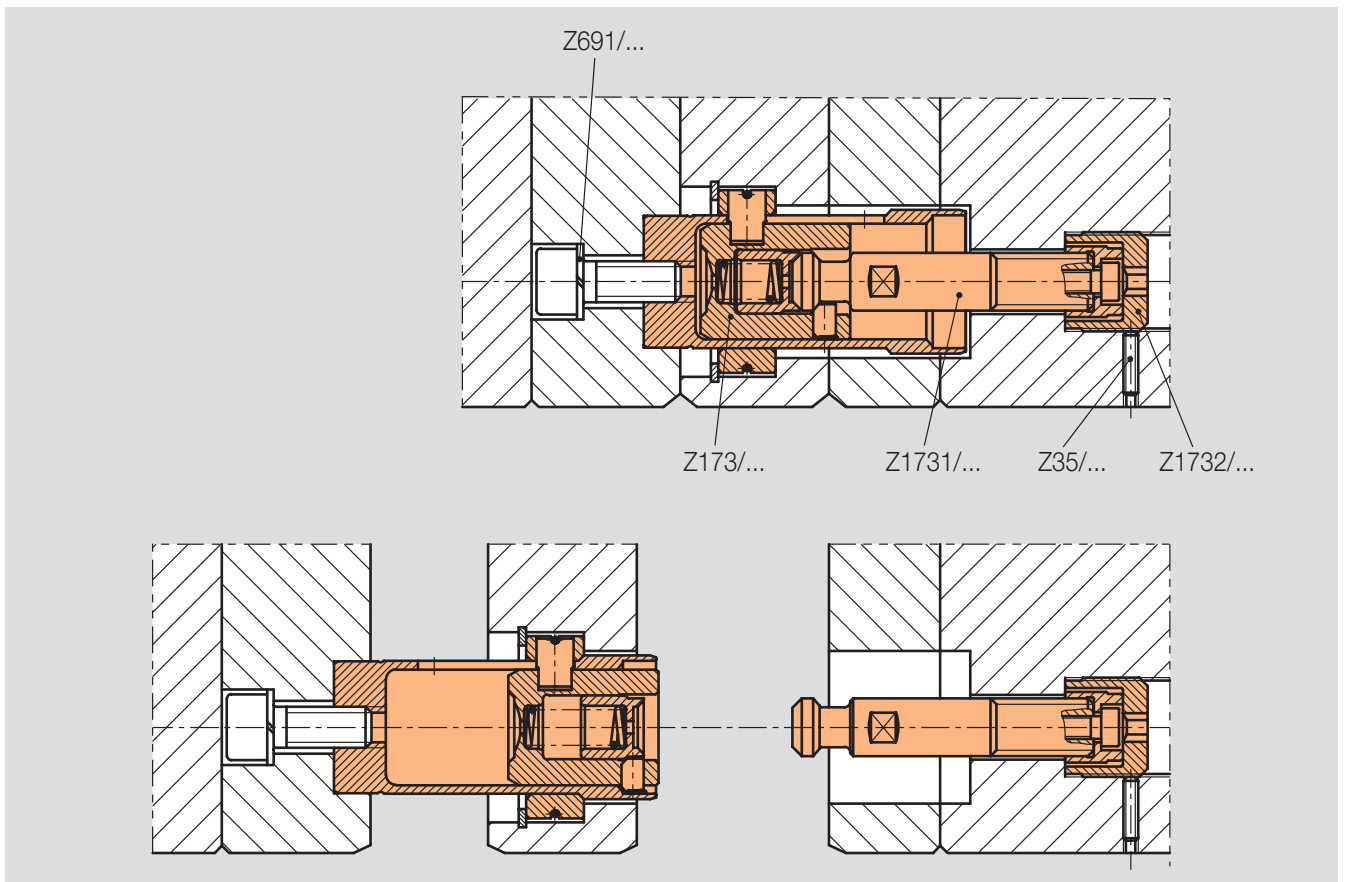
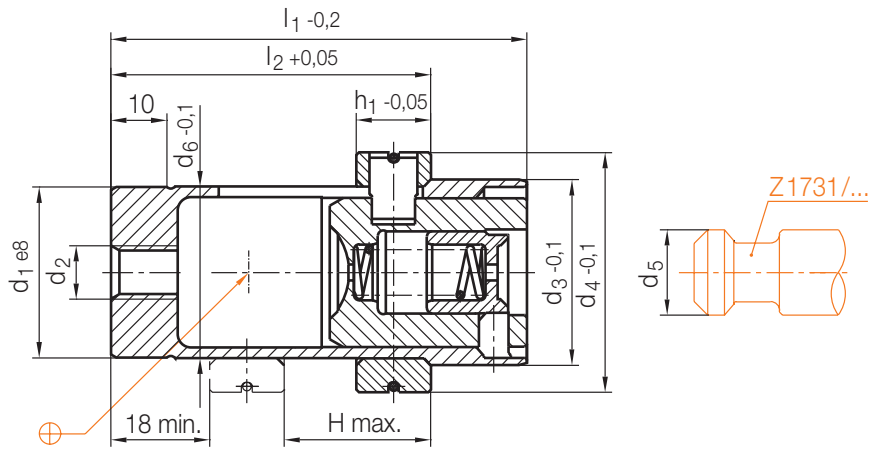
max. °C	Z32/...	SW ₁	b ₂	b ₁	l ₄	l ₂	l ₁	d ₁	d ₂	Nr./No.
120	4x16	2,5	3,5	11	17	27	56	12	10	Z1721/10
	5x22	3	4	15	22	36	75	16	12	12
	6x30	4	5,5	19	27	36	85	20	16	16
	8x25	5	5,5	24	36	46	109	25	20	20

Z 173/...

Rundklinkenzug
 Round latch locking unit
 Dispositif d'ouverture de moule



▶ Info



H = Hub/Stroke/Course

h ₁	l ₂	l ₁	d ₆	d ₅	d ₄	d ₃	d ₂	H min.	d ₁	H max.	Nr./No.
14	60	78	32,2	14	44,8	34,8	M 10	6	32	28	Z 173/32x28
	88	106								56	32x56
16	70	90	38,2	18	51,8	40,8	M 12	8	38	36	38x36
	105	125								71	38x71

09 08 1 2 22 002229

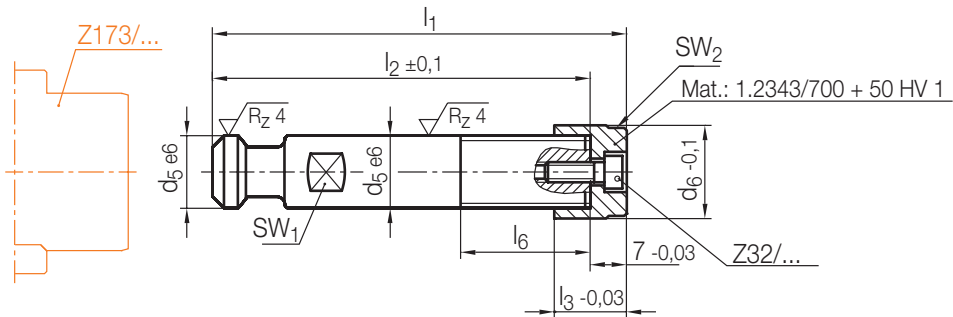
Z1731/...

Zugbolzen
Pulling rod
Tige de traction

Mat.: 1.5920/59 + 2 HRC



► Info

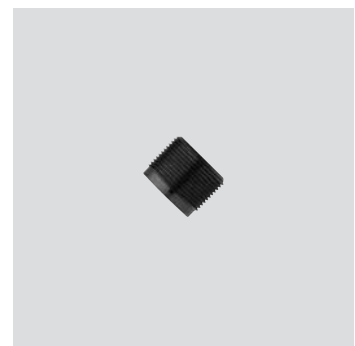


SW ₁	SW ₂	l ₆	l ₃	l ₂	d ₆	d ₅	l ₁	Nr./No.
12	15	20	14	56	18,5	14	63	Z1731/14x 63
				73			80	80
				93			100	100
				118			125	125
15	19	20	16	73	23,5	18	80	Z1731/18x 80
				93			100	100
				118			125	125
				133			140	140

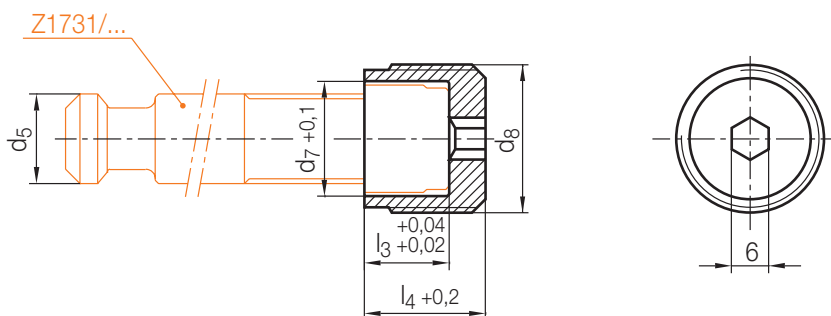
Z1732/...

Gewindebuchse
Threaded bush
Douille filetée

Mat.: 1.2343/1000 N/mm²



► Info



l ₄	l ₃	d ₈	d ₇	d ₅	Nr./No.
20	14	M24x1	19	14	Z1732/14
22	16	M30x1,5	24	18	18

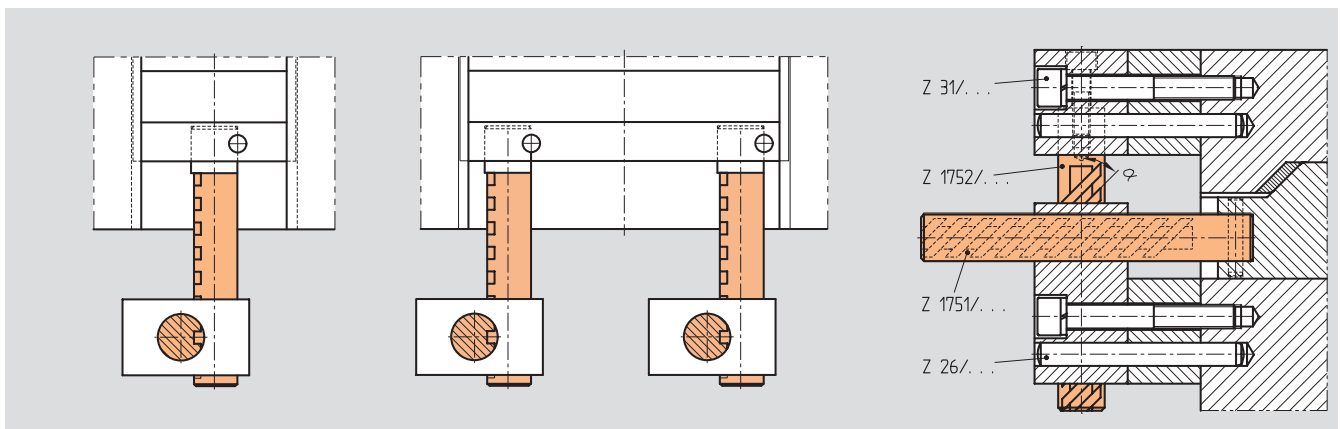
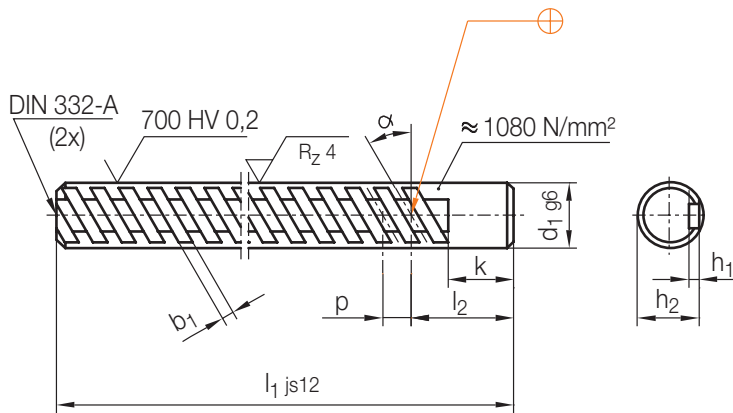
Z1751/...

Zahnstange
Rack
Crémaillère

Mat.: 1.2312 / 1080 N/mm²



► Info

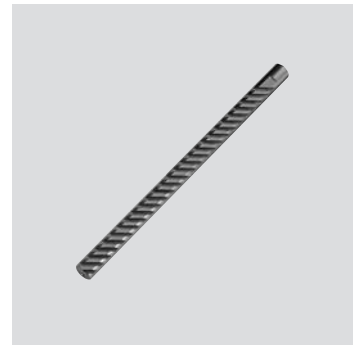


k	b ₁	h ₂	h ₁	p	l ₂	d ₁	l ₁	α	Nr./No.
16	3	15	2,5	6,93	25	16	160	30°	Z1751/16x160/30
							200		200/30
							250		250/30
16	3	15	2,5	8,48	29	16	160	45°	160/45
							200		200/45
							250		250/45
20	4	22	3	9,24	33	25	200	30°	Z1751/25x200/30
							250		250/30
							315		315/30
							400		400/30
20	4	22	3	11,31	40	25	200	45°	200/45
							250		250/45
							315		315/45
							400		400/45

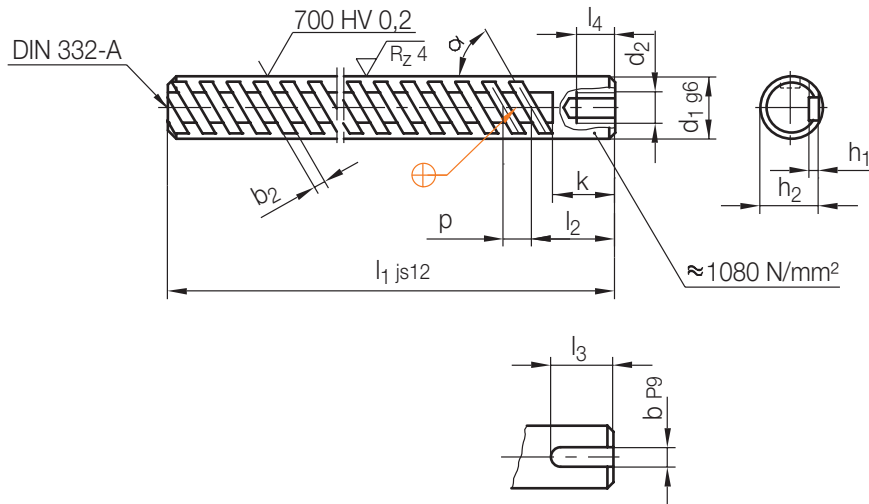
Z 1752/...

Zahnstange
 Rack
 Crémaillère

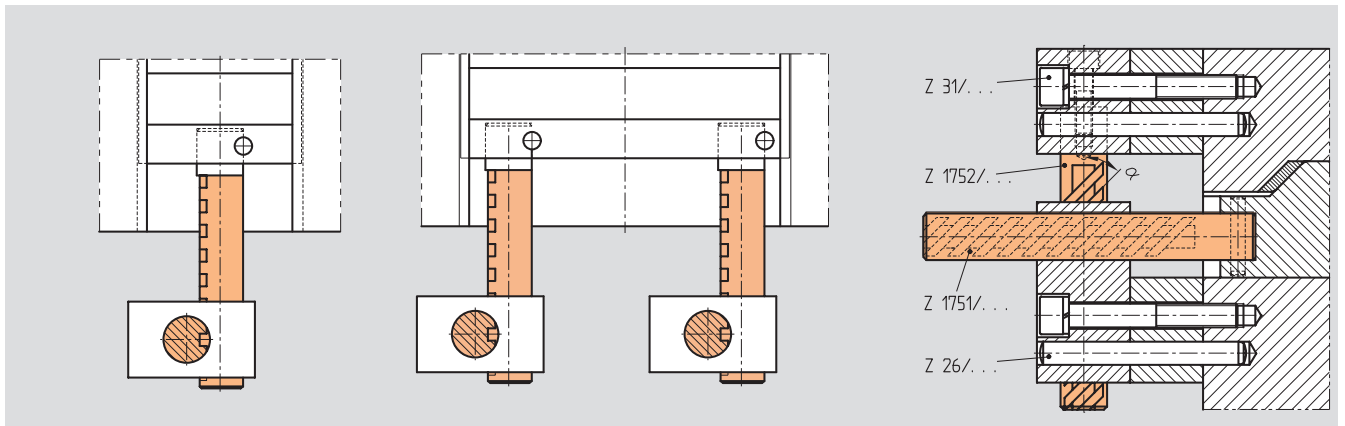
Mat.: 1.2312/1080 N/mm²



► Info



4



k	h ₂	h ₁	d ₂	l ₄	b	b ₂	p	l ₂	l ₃	d ₁	l ₁	α	Nr./No.
16	15	2,5	M 8	15	5	3	12	37	16	16	200	30°	Z 1752/16x200/30
											250		250/30
											315		315/30
16	15	2,5	M 8	15	5	3	8,48	29	16	16	160	45°	160/45
											200		200/45
											250		250/45
20	22	3	M12	18	8	4	16	49	20	25	250	30°	Z 1752/25x250/30
											315		315/30
											400		400/30
											500		500/30
20	22	3	M12	18	8	4	11,31	40	20	25	200	45°	200/45
											250		250/45
											315		315/45
											400		400/45

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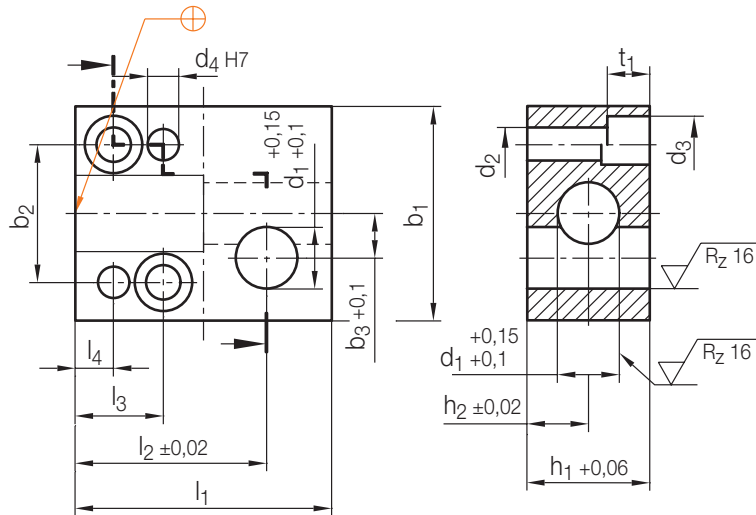
Z1754/...

Führungsblock
Guide block
Plot de guidage

Mat.: 1.2767/54 + 2 HRC



► Info



b ₂	b ₃	l ₂	l ₃	l ₄	d ₄	d ₂	d ₃	t ₁	h ₂	b ₁	h ₁	l ₁	d ₁	Nr./No.
36	11,6	50	23	10	8	9	15	11	16	56	32	67	16	Z1754/16
54	16,1	67	32	13	10	14	20	15,5	22,5	80	45	90	25	25

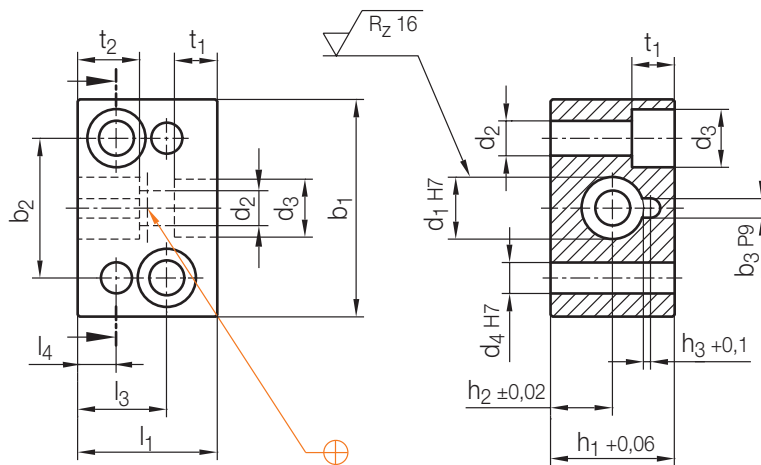
Z1755/...

Aufnahmeblock
Mounting block
Bloc récepteur

Mat.: 1.2312/1080 N/mm²



► Info



b ₂	b ₃	l ₃	l ₄	d ₄	d ₂	d ₃	t ₁	t ₂	h ₂	h ₃	b ₁	h ₁	l ₁	d ₁	Nr./No.
36	5	23	10	8	9	15	11	16	16	2,2	56	32	36	16	Z1755/16
54	8	32	13	10	14	20	15,5	22	22,5	2	80	45	45	25	25

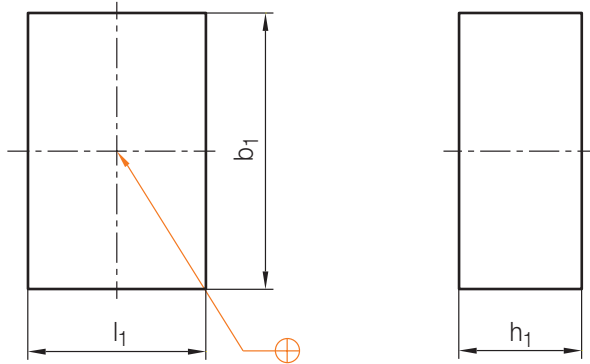
Z 1756/...

Distanzstück
 Spacer block
 Entretoise à bout fileté

Mat.: 1.2162/590 N/mm²



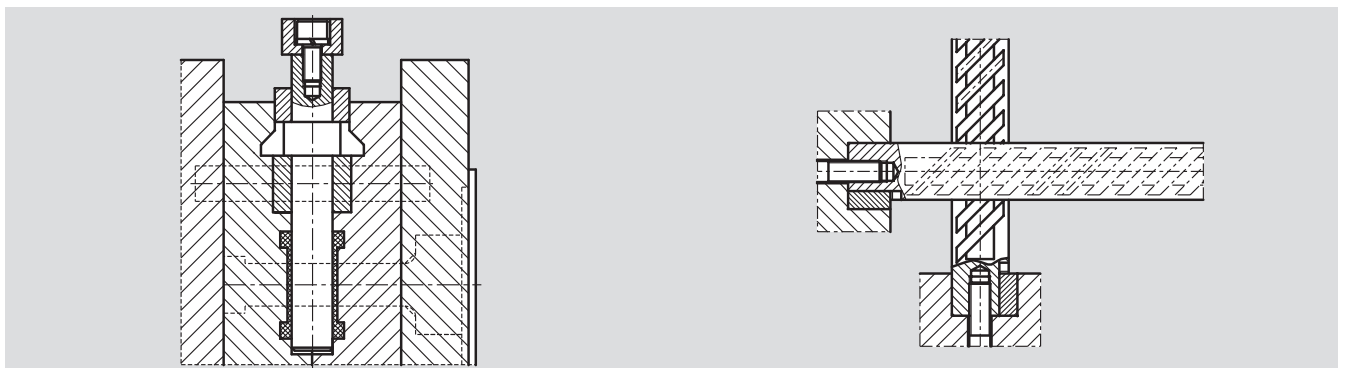
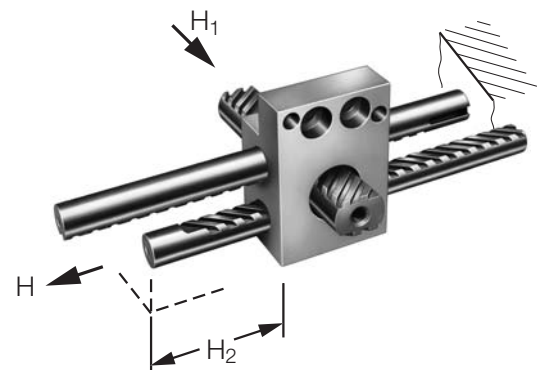
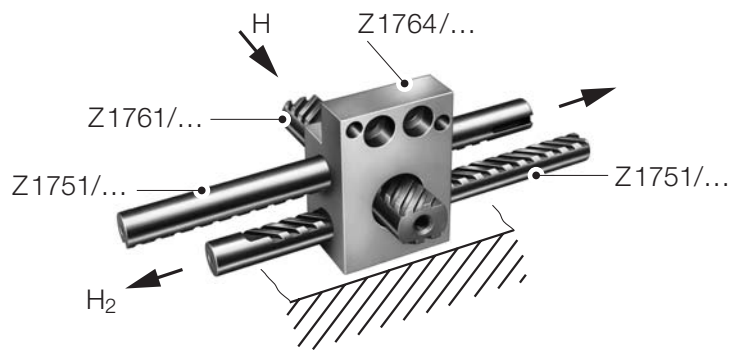
► Info



4

b ₁	l ₁	h ₁	Nr./No.
56	36	25	Z 1756/36/25
		40	40
		63	63

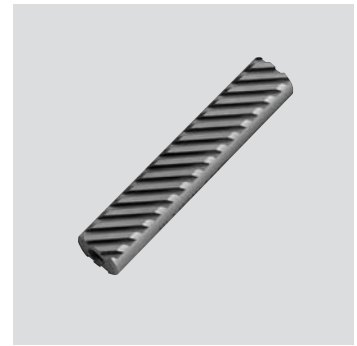
b ₁	l ₁	h ₁	Nr./No.
80	45	32	Z 1756/45/32
		50	50
		80	80



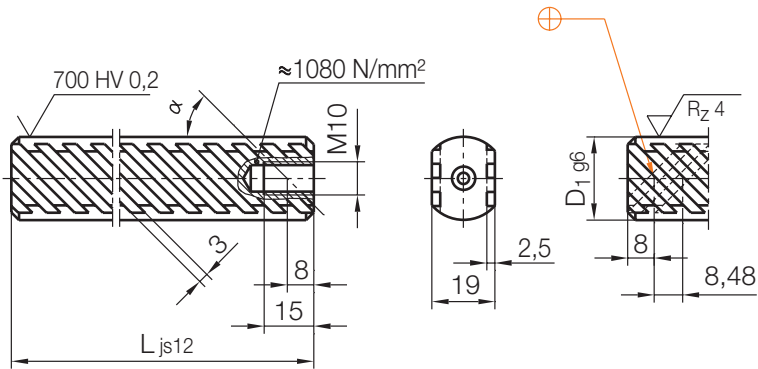
Z1761/...

Zahnstange
Rack
Crémaillère

Mat.: 1.2312 / 1080 N/mm²



► Info



D ₁	L	α	Nr./No.
25	125	45°	Z1761/25x125/45
	160		160/45
	200		200/45

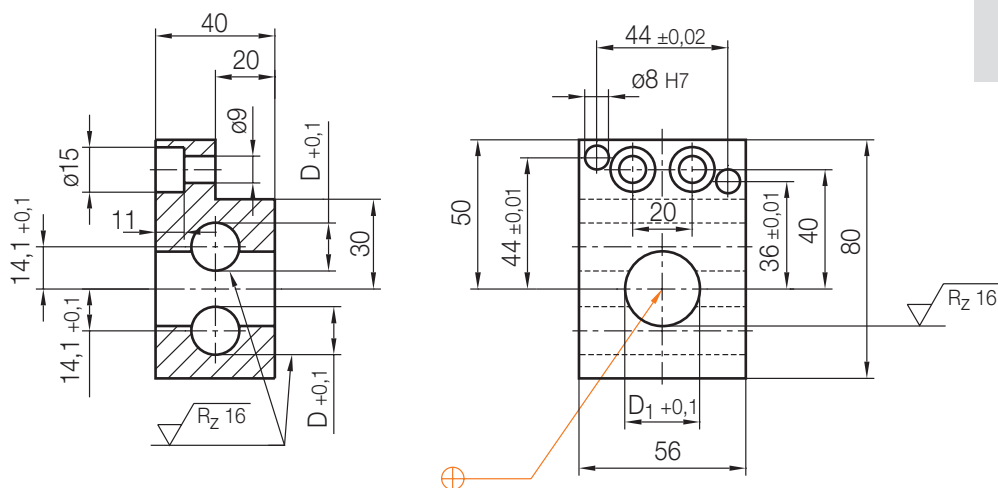
Z1764/...

Führungsblock
Guide block
Plot de guidage

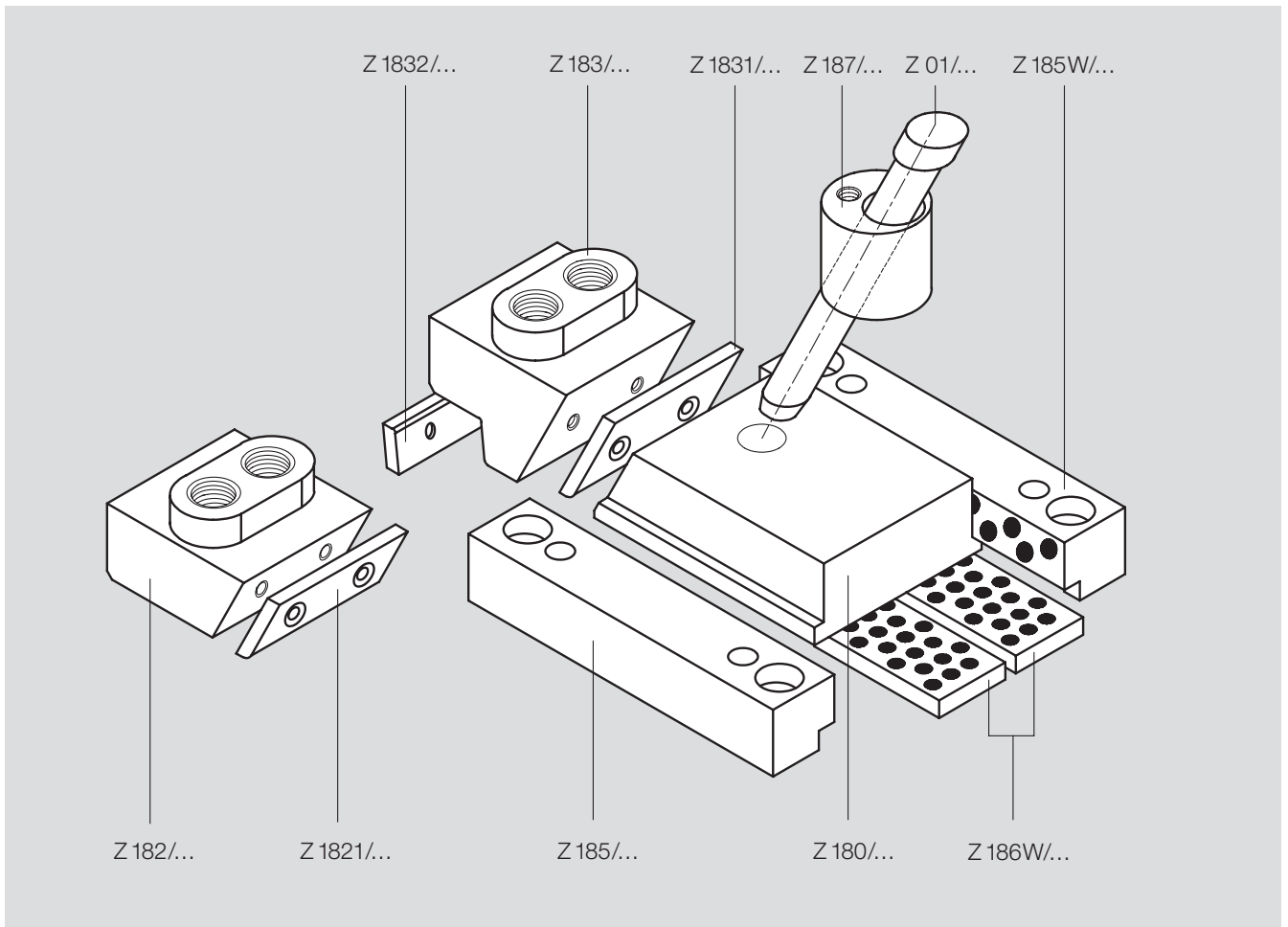
Mat.: 1.2767 / 54 + 2 HRC



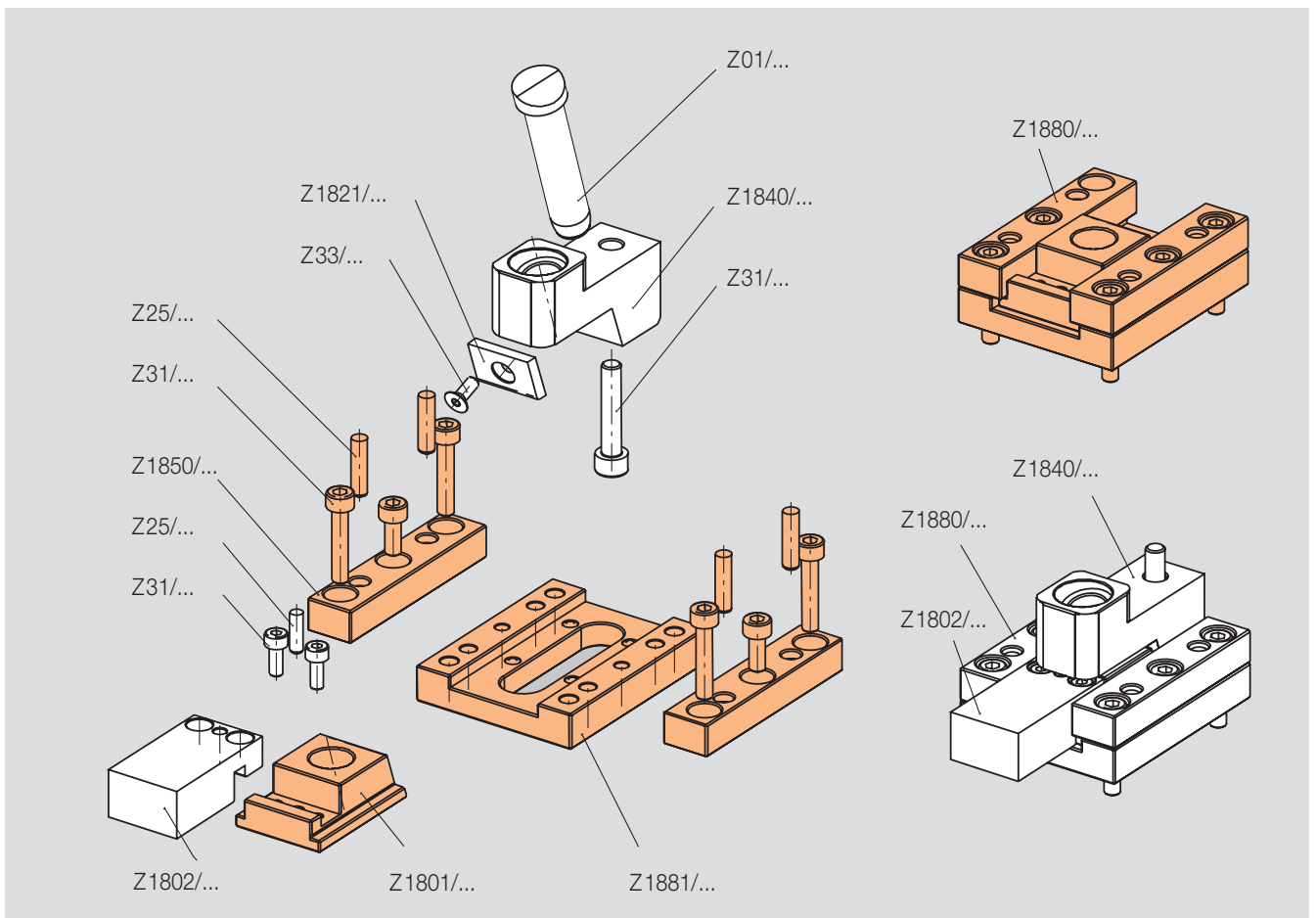
► Info



D ₁	D	Nr./No.
25	16	Z1764/25/16



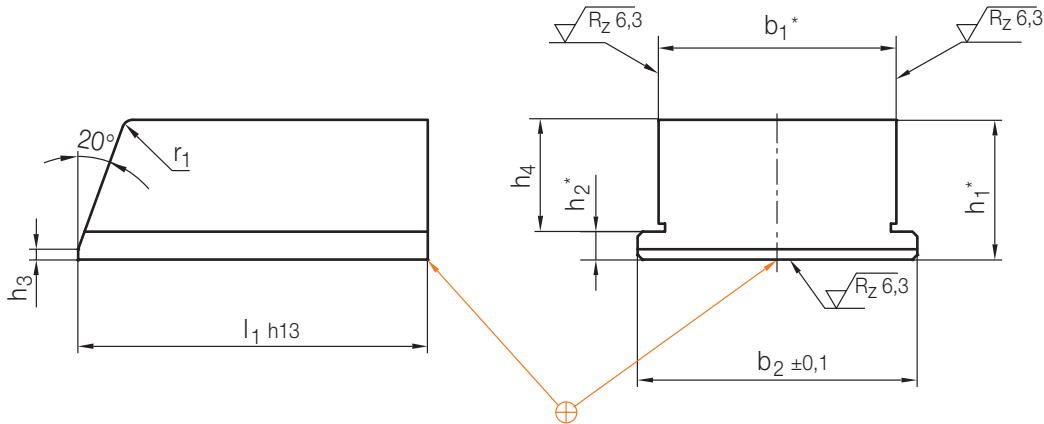
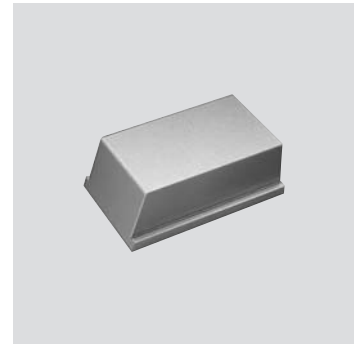
4



Z 180/...

Schieber
Slide
Coulisseau

Mat.: 1.2767/1.2343/Toolox 44



Toleranzen *			
Mat.:	b ₁	h ₁	h ₂
1.2312	+0,3	+0,3	+0,3
1.2767	+0,2	+0,2	+0,2
Toolox 44	g6	+0,2 +0,1	g6

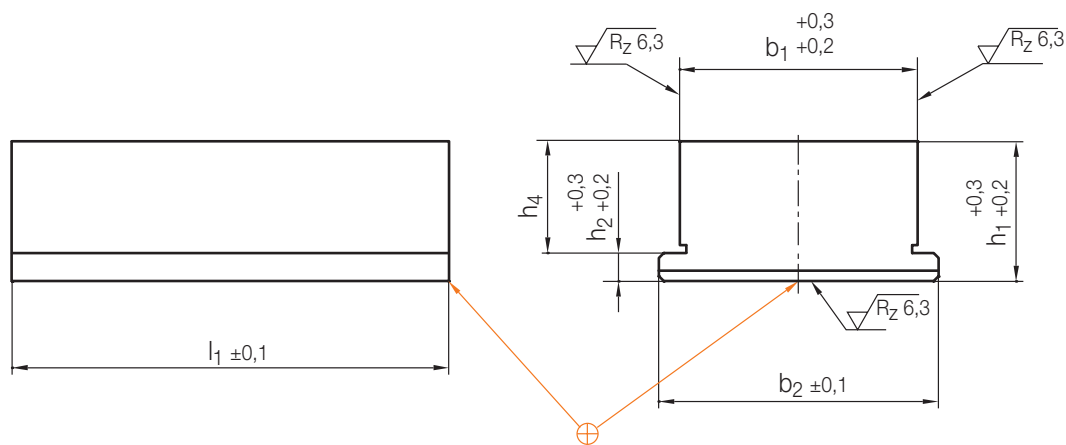
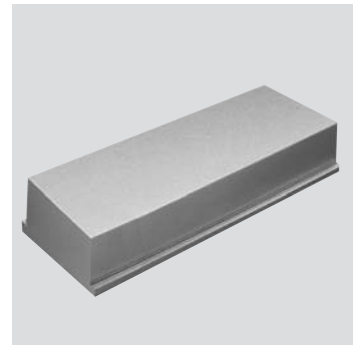
Neu / New / Nouveau

r ₁	h ₃	h ₂	b ₂	h ₄	h ₁	l ₁	b ₁	Mat.			Nr./No.
								1.2343ESU	1.2767	Toolox 44	
1,5	1,5	4	26	8	12	40	20	x	x	x	Z 180/12x 40x 20 /Mat
							25	x	x	x	25
							40	x	x	x	40
							63	x	x	x	63
		26	12	16	50	20	x	x	x	Z 180/16x 50x 20 /Mat	
						25	x	x	x	25	
						40	x	x	x	40	
						63	x	x	x	63	
2	2	5	46	15	20	63	40	x	x	x	Z 180/20x 63x 40 /Mat
							63	x	x	x	63
							80	x	x	x	80
		46	20	25	71	40	x	x	x	Z 180/25x 71x 40 /Mat	
						63	x	x	x	63	
						80	x	x	x	80	
3	3	6	71	26	32	100	63	x	x	x	Z 180/32x100x 63 /Mat
							80	x	x	x	80
							108	x	x	x	108
		71	34	40	100	63	x	x	x	Z 180/40x100x 63 /Mat	
						80	x	x	x	80	
						108	x	x	x	108	
4	4	8	90	42	50	112	80	x	x	x	Z 180/50x112x 80 /Mat
							100	x	x	x	100
							125	x	x	x	125
		90	55	63	112	80	x	x	x	Z 180/63x112x 80 /Mat	
						100	x	x	x	100	
						125	x	x	x	125	

Z 1800/...

Schieber, ablängbar
 Slide, can be cut as required
 Coulisseau, pouvant être raccourci

Mat.: 1.2343/1.2767



4

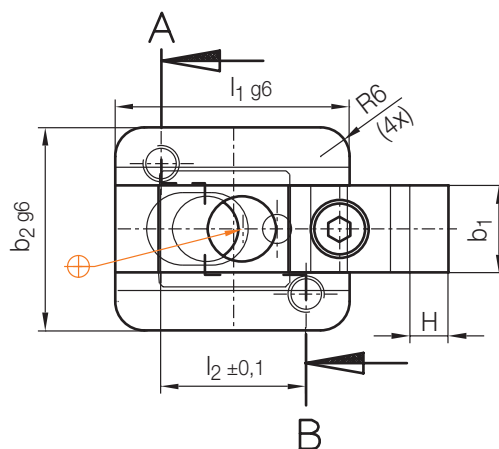
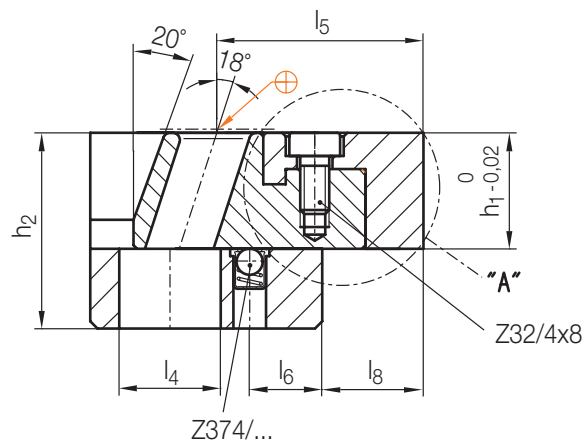
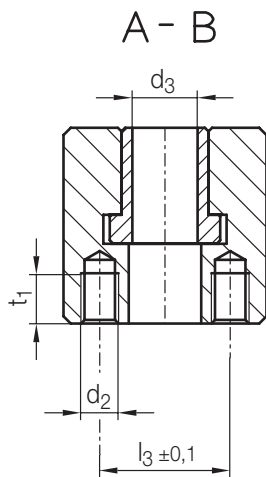
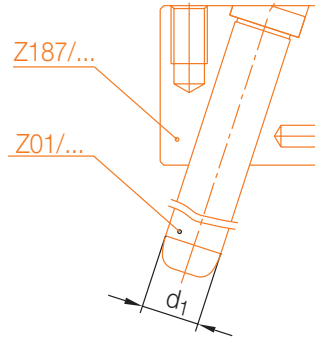
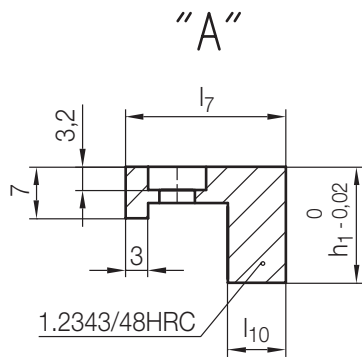
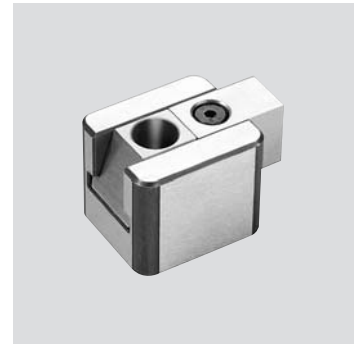
Neu / New / Nouveau

h ₂	b ₂	h ₄	h ₁	l ₁	b ₁	Mat.		Nr./No.
						1.2343ESU	1.2767	
4	26	12	16	200	20	x	x	Z 1800 / 16x200x 20 / Mat
	31				25	x	x	25
	46				40	x	x	40
	69				63	x	x	63
5	46	20	25	200	40	x	x	Z 1800 / 25x200x 40 / Mat
	69				63	x	x	63
	86				80	x	x	80
6	71	34	40	250	63	x	x	Z 1800 / 40x250x 63 / Mat
	88				80	x	x	80
	108				100	x	x	100
8	90	55	63	250	80	x	x	Z 1800 / 63x250x 80 / Mat
	110				100	x	x	100
	135				125	x	x	125

09.08.12.22 002229

Z181/...

Schiebereinheit
Mould slide unit
Coulisse



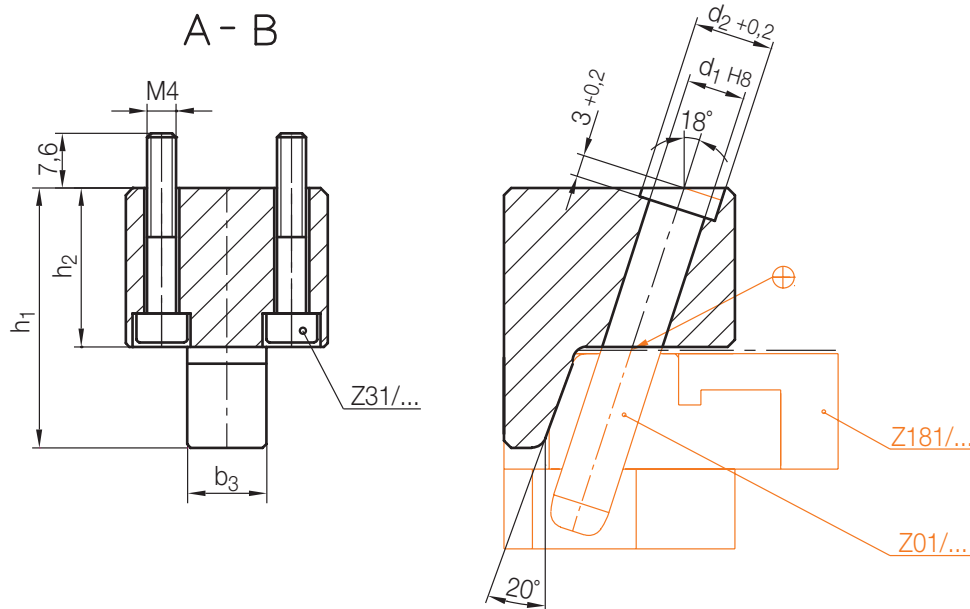
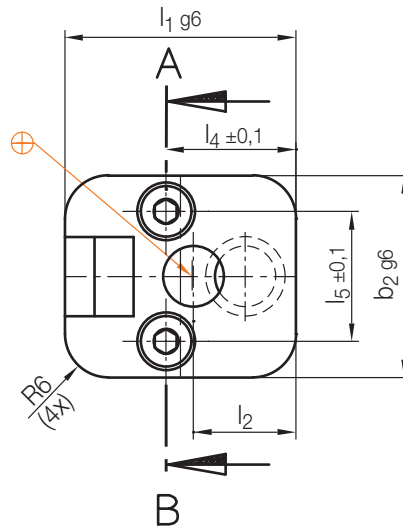
H = Hub/Stroke/Course

Z01/...	t ₁	d ₂	d ₃	h ₂	l ₁₀	l ₈	l ₇	l ₆	l ₅	l ₄	l ₃	l ₂	l ₁	H	b ₂	d ₁	b ₁	h ₁	Nr./No.
8x50	8	M5	9	27	8	14,3	22	10	28,5	14	18	20	32	5	28	8	12	16	Z181/ 8x12x16
10x60	10	M6	11	32	10	15,3	25	12	32,5	17	20	29	40	6,5	32	10	16	18	10x16x18

Z 1810/...

Verriegelung
Locking heel
Verrou

Mat.: 1.2842/53 HRC



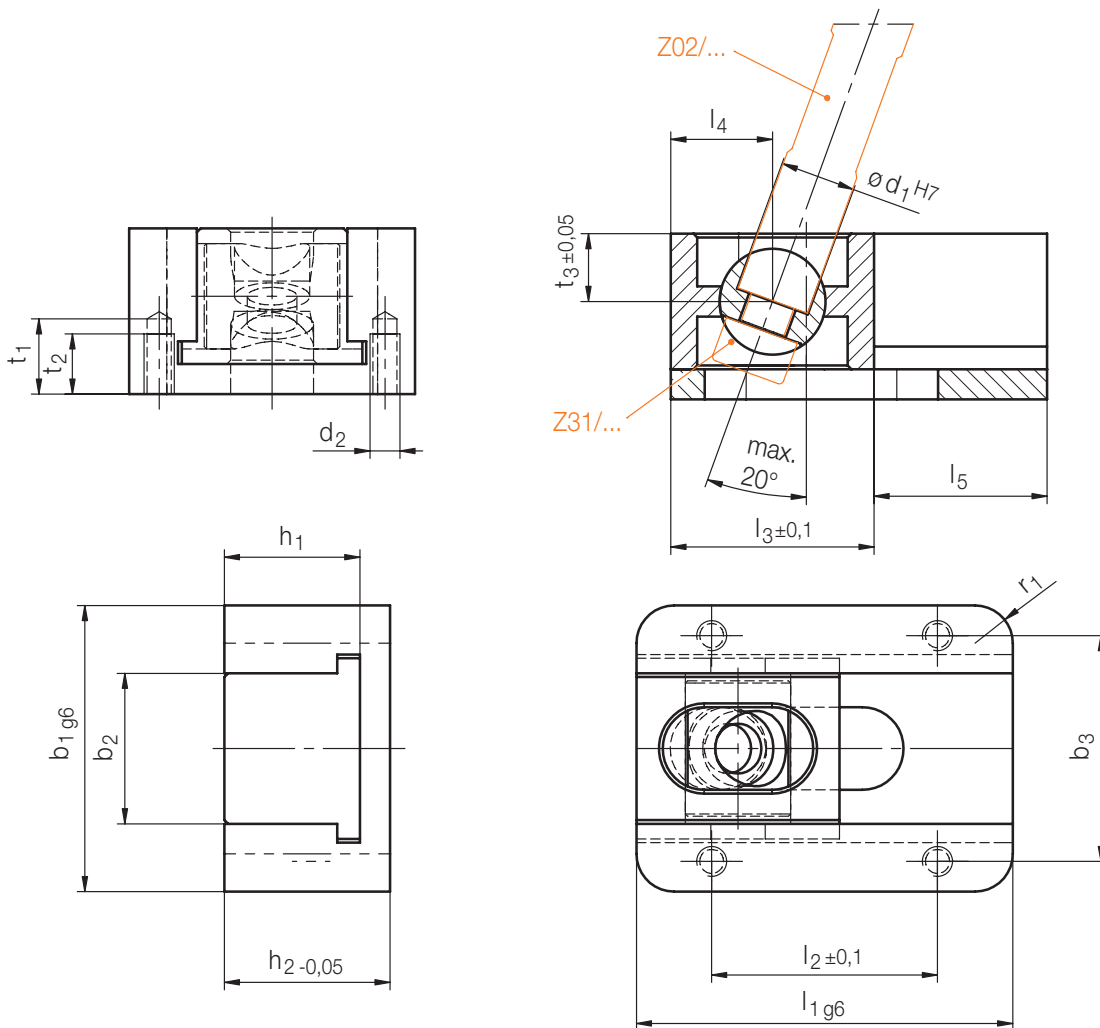
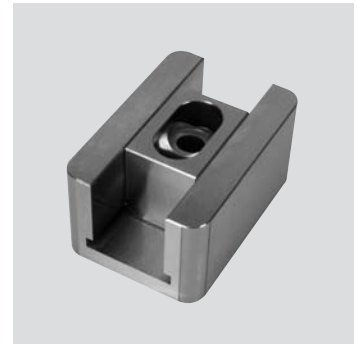
4

09.08.12.22 002229

Z31/...	h ₂	h ₁	l ₄	l ₂	l ₁	b ₃	l ₅	b ₂	d ₂	d ₁	Nr./No.
Z31/4x25	22	36	18	14,2	32	11	18	28	11	8	Z1810/ 8
Z31/4x30	27	44	22	17,2	40	15	20	32	13	10	10

Z1811/...

Schrägschieber
Inclined sliding carriage
Coulisseau incliné

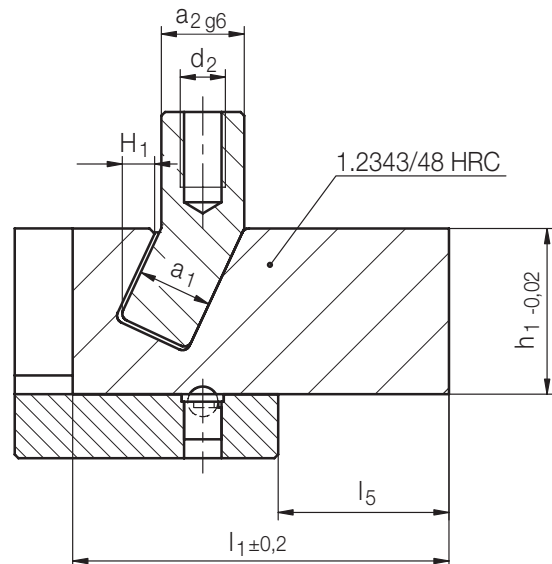
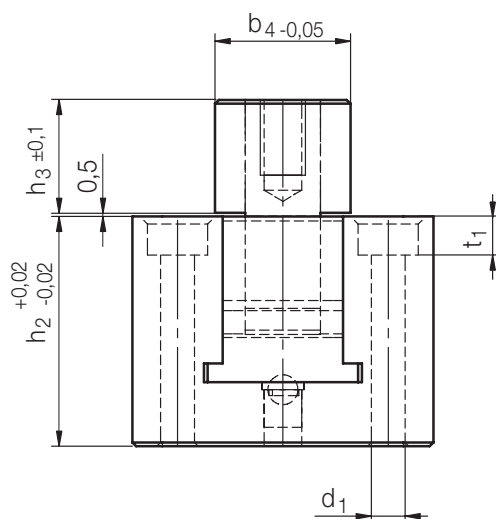


Neu / New / Nouveau

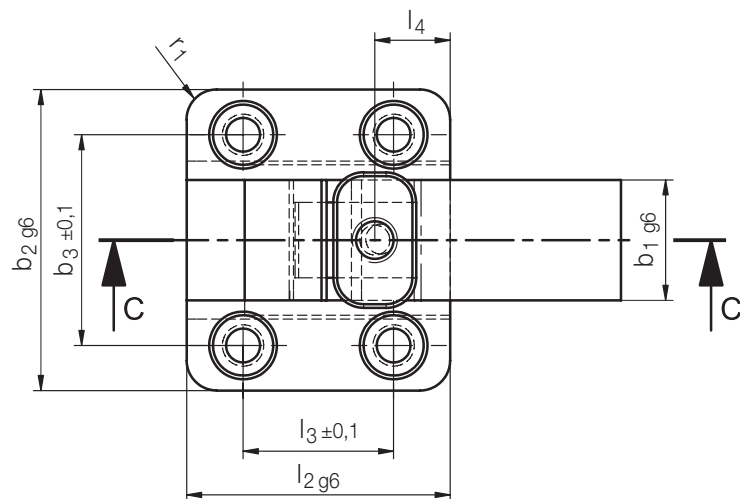
r ₁	t ₃	t ₂	t ₁	l ₅	l ₄	l ₃	l ₂	l ₁	h ₂	h ₁	d ₂	b ₃	b ₂	b ₁	d ₁	Nr./No.
5	8,5	10	12	23	13,5	27	30	50	25	20	M5	32	20	40	10	Z1811/10
6	12,5	12	14	35	17,5	35	50	70	35	28	M6	39	25	48	14	14

Z1812/...

Schiebereinheit
Slide unit
Coulisse



$H_1 = \text{Hub / Stroke / Course}$



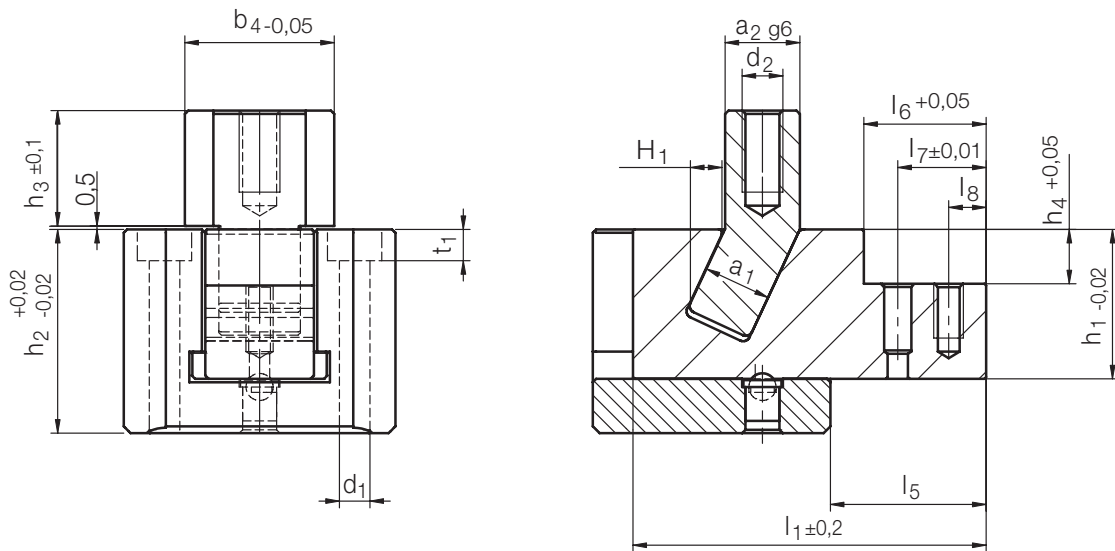
4

Neu / New / Nouveau

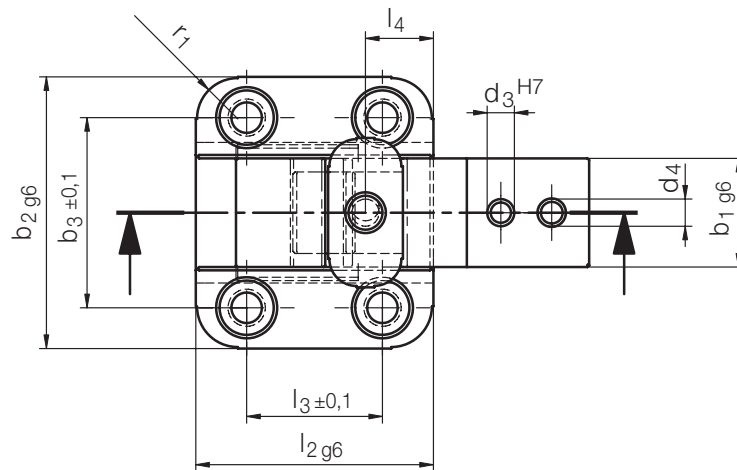
t ₁	r ₁	l ₅	l ₄	l ₃	l ₂	l ₁	d ₂	d ₁	h ₃	h ₂	b ₄	b ₃	b ₂	a ₂	H ₁	a ₁	b ₁	h ₁	Nr./No.
4,6	6	22,9	10	20	35	52	M6	4,5	17	30	22	28	40	11	4,6	10	16	22	Z1812/10x16x22
6,8	7	33,8	15	35	50	75	M8	6,6	20	40	30	40	55	13	7	12	25	30	12x25x30

Z1813/...

Schiebereinheit
Slide unit
Coulisse



$H_1 = \text{Hub / Stroke / Course}$



Neu / New / Nouveau

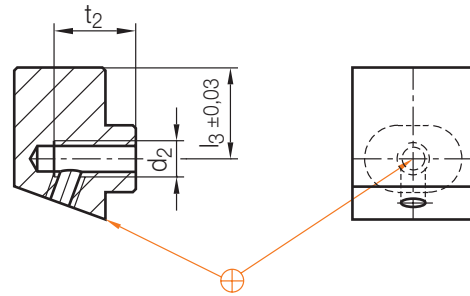
t ₁	r ₁	l ₈	l ₇	l ₆	l ₅	l ₄	l ₃	l ₂	l ₁	d ₄	d ₃	d ₂	d ₁	h ₄	h ₃	h ₂	b ₄	b ₃	b ₂	a ₂	H ₁	a ₁	b ₁	h ₁	Nr./No.
4,6	6	5,5	13	18	22,9	10	20	35	52	M4	4	M6	4,5	8	17	30	22	28	40	11	4,6	10	16	22	Z1813/10x16x22
6,8	7	7	16	20	26,8	15	35	50	68	M5	5	M8	6,6	10	20	40	30	40	55	13	7	12	25	30	12x25x30

09.08.12.22 002229

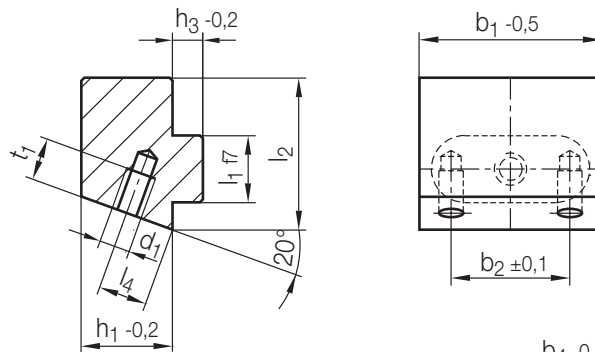
Z 182/...

Schieberrriegelung, einseitig
 Locking heel, single sided
 Verrou du coulisseau simple

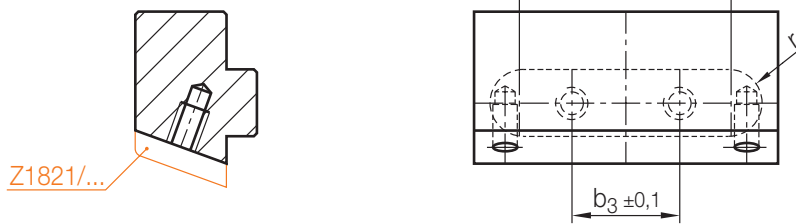
Mat.: 1.2162/60 HRC



Typ 1



Typ 2



Typ 3

Z1821/...

Neu / New / Nouveau

Typ	r	t ₂	t ₁	d ₂	d ₁	l ₄	l ₃	l ₂	l ₁	b ₄	b ₃	b ₂	h ₃	h ₁	Z 180/... h ₁	b ₁	Nr./No.
1	5,8	10	5	M 6	M 4	4,5	12	22	12	5	—	—	5	11	12	18	Z 182/12x18
																22	22
			7	14	—	16	30	30									
3										34	24	36			50	50	
1		13	5	M 8		7	16	28		8,5	—	—		15	16	18	Z 182/16x18
																22	22
2			7							14	—	16				30	30
3										34	24	36				50	50
2	7,8	15		M 10		10	24	40	16	12	—	16	6	19	20	30	Z 182/20x30
																38	38
																53	53
3										33	25	39			53	53	
2		14				13	27	45		12	—	16	8	24	25	30	Z 182/25x30
																38	38
3										18	—	24				38	38
										33	25	39				53	53
2	9,8	15	10		M 6	17	30	50	20	16	—	18	9	31	32	38	Z 182/32x38
																50	50
																71	71
3										26	20	30			50	50	
2						21	34	56		16	—	18	11	39	40	38	Z 182/40x38
																50	50
3										26	20	30				50	50
										47	35	51				71	71
2	12,3	18		M 12		26	39	63	25	21	—	30	14	49	50	50	Z 182/50x50
																63	63
																85	85
3										34	30	43				63	63
										56	45	65				85	85

09.08.12.22 002229

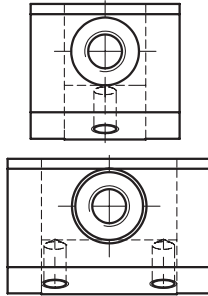
Z1820/...

Schieberrriegelung, einseitig
 Locking heel, single sided
 Verrou du coulisseau simple

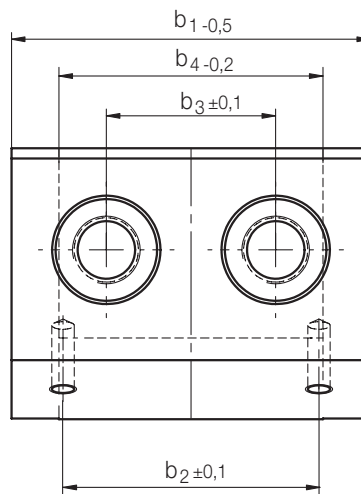
Mat.: 1.2162/60 HRC



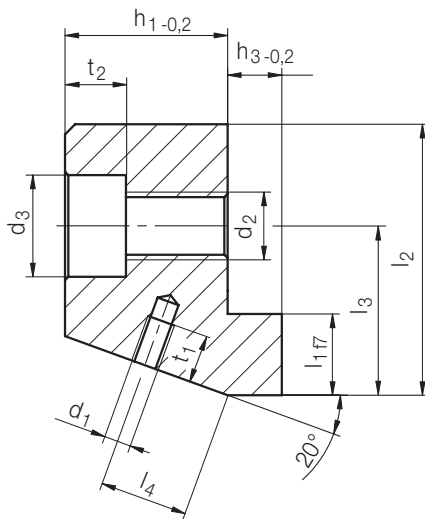
Typ 1



Typ 2



Typ 3

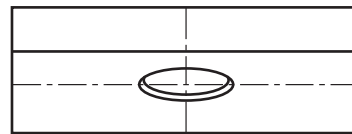
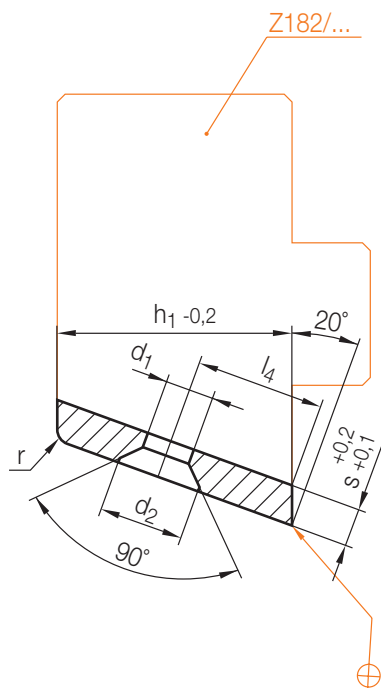


Neu / New / Nouveau

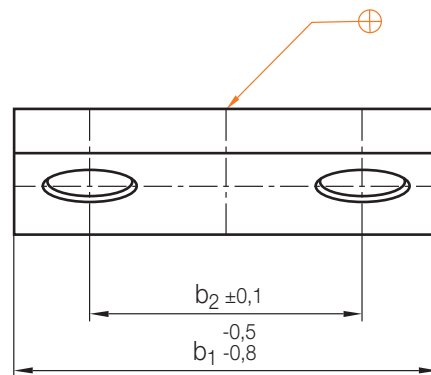
Typ	t ₂	t ₁	d ₃	d ₂	d ₁	l ₄	l ₃	l ₂	l ₁	b ₄	b ₃	b ₂	h ₃	h ₁	Z180/... h ₁	b ₁	Nr./No.
1	5,7	5	10	M 6	M4	4,5	13	20	8	10	-	-	5	11	12	18	Z1820/ 12x 18
2										12	-	-				22	22
3										20	-	16				30	30
1	6,8	7	11	M 8	M4	7	17	25	10	10	-	-	6	19	20	18	Z1820/ 16x 18
2										12	-	-				22	22
3										18	-	16				30	30
2	9	7	15	M10	M4	10	20	32	12	16	-	16	8	24	25	30	Z1820/ 20x 30
3										24	-	24				38	38
2										39	25	39				53	53
2	9	7	15	M10	M4	13	25	40	12	16	-	16	8	24	25	30	Z1820/ 25x 30
3										24	-	24				38	38
2										39	25	39				53	53
2	9	10	15	M10	M6	17	28	45	16	20	-	18	9	31	32	38	Z1820/ 32x 38
3										32	20	30				50	50
2										53	35	51				71	71
2	11	10	18	M12	M6	21	30	50	16	20	-	18	11	39	40	38	Z1820/ 40x 38
3										32	20	30				50	50
2										53	39	51				71	71
2	11	11	18	M12	M6	26	34	56	20	28	-	30	14	49	50	50	Z1820/ 50x 50
3										41	30	43				63	63
2										63	45	65				85	85

Z 1821/...

Druckplatte
Wear plate
Plaque d'frottement
Mat.: 1.2842/53 HRC



Typ 1



Typ 2

Neu / New / Nouveau

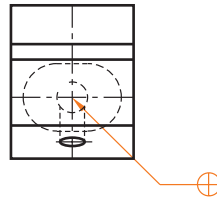
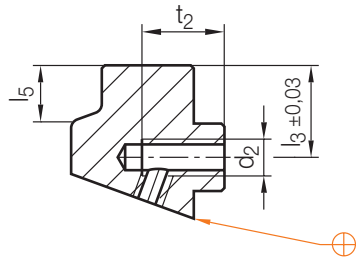
Typ	r	d ₂	d ₁	l ₄	b ₂	h ₁	Z180/... h ₁	s	b ₁	Nr. / No.
1	1,5	8,3	4,3	4,5	—	11	12	4	18	Z 1821/12x4x18
					—				22	22
					16				30	30
2	1,5	8,3	4,3	4,5	36	11	12	4	50	50
					—				18	Z 1821/16x4x18
					—				22	22
1	1,5	8,3	4,3	7	—	15	16	4	18	Z 1821/16x4x18
					—				22	22
					16				30	30
2	1,5	8,3	4,3	7	36	15	16	4	50	50
					16				30	Z 1821/20x4x30
					24				38	38
	1,5	8,3	4,3	10	39	19	20	4	53	53
					16				30	Z 1821/25x5x30
					24				38	38
	1,5	8,3	4,3	13	39	24	25	5	53	53
					16				30	Z 1821/25x5x30
					24				38	38
	2	12,4	6,4	17	18	31	32	4	38	Z 1821/32x5x38
					30				50	50
					51				71	71
	2	12,4	6,4	21	18	39	40	6	38	Z 1821/40x6x38
					30				50	50
					51				71	71
	2	12,4	6,4	26	30	49	50	5	50	Z 1821/50x6x50
					43				63	63
					65				85	85

09.08.12.22 0022229

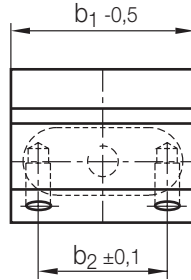
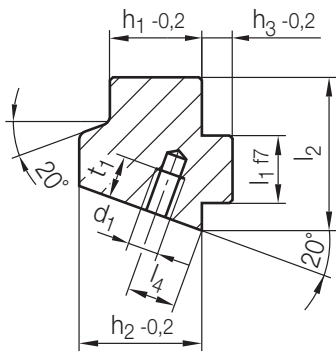
Z 183/...

Schieberrriegelung, doppelseitig
 Locking heel, double sided
 Verrau du coulisseau double

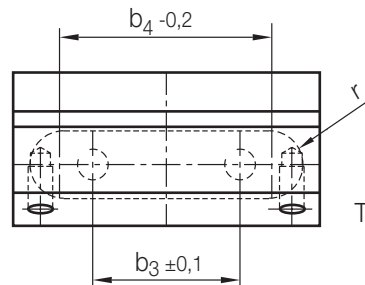
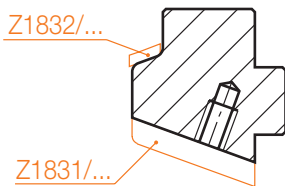
Mat.: 1.2162/60 HRC



Typ 1



Typ 2

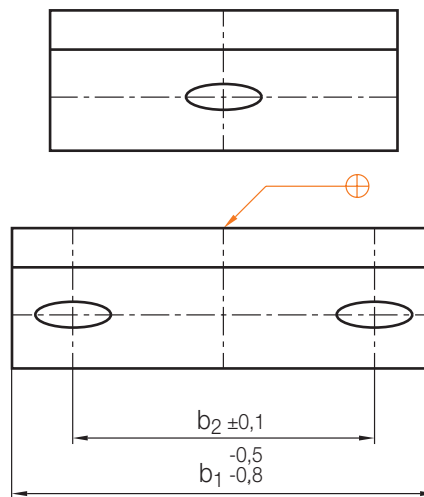
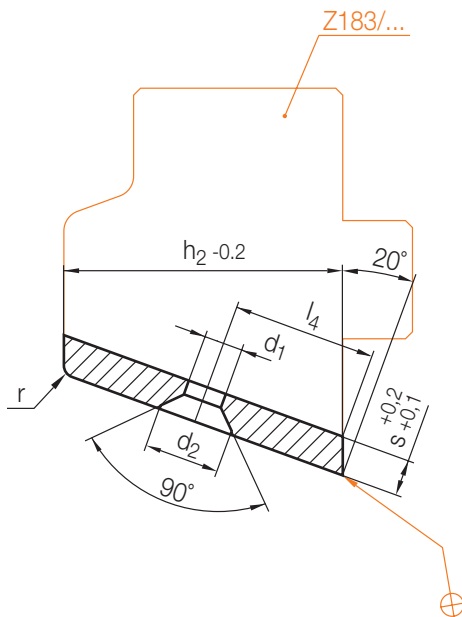
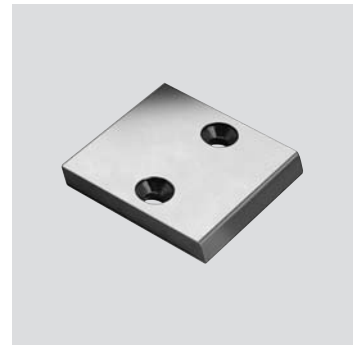


Typ 3

Typ	r	t ₂	t ₁	d ₂	d ₁	b ₄	b ₃	b ₂	l ₅	l ₄	l ₃	l ₂	l ₁	h ₃	h ₁	Z180/... h ₁	h ₂	b ₁	Nr./No.	
1	5,8	12	5	M 8	M4	8,5	—	—	14,9	12	20	32	12	5	15	16	23	22	Z 183/16/23x22	
2		14				—	16	30										30		
3		34				24	36	50										50		
2	7,8	15	10	M10	M6	12	—	16	18,4	16	24	40	16	6	19	20	31	30	Z 183/20/31x30	
3		18				—	24	38										38		
3		33				25	39	53										53		
2	9,8	18	10	M12	M6	12	—	16	21,4	19	27	45	8	24	25	36	30	Z 183/25/36x30		
3							18	—									24	38	38	
3							33	25									39	53	53	
2	9,8	18	10	M12	M6	16	—	18	22,5	24	30	50	20	9	31	32	46	38	Z 183/32/46x38	
3							26	20										30	50	50
3							47	35										51	71	71
2	9,8	18	10	M12	M6	16	—	18	24,5	28	34	56	11	39	40	54	38	Z 183/40/54x38		
3							26	20									30	50	50	
3							47	35									51	71	71	
2	12,3	18	10	M12	M6	21	—	30	26,2	35	39	63	25	14	49	50	66	50	Z 183/50/66x50	
3							34	27										43	63	63
3							56	45										65	85	85
2	14,8	18	10	M12	M6	16	—	30	36,2	42	51	80	30	16	62	63	79	50	Z 183/63/79x50	
3							29	27										43	63	63
3							51	45										65	85	85

Z 1831/...

Druckplatte
Wear plate
Plaque d'frottement
Mat.: 1.2842/53 HRC



Typ 1

Typ 2

4

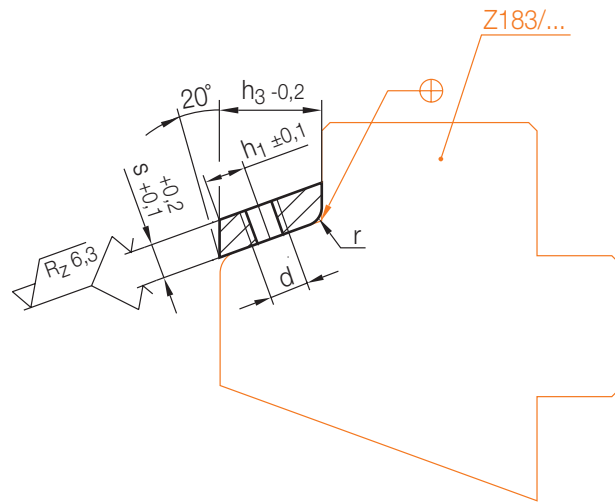
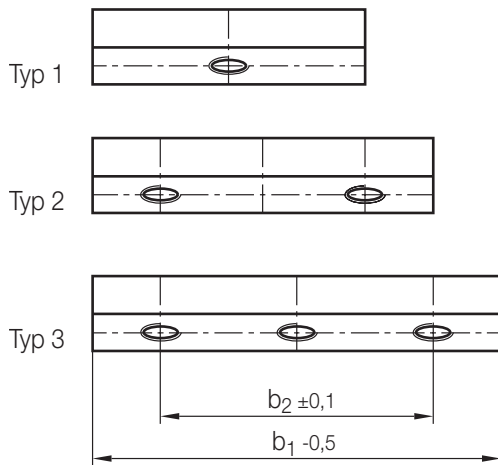
Typ	r	d ₂	d ₁	l ₄	b ₂	h ₂	s	b ₁	Nr./No.											
1	1,5	8,3	4,3	12	—	23	4	22	Z 1831 / 23x4x22											
2					16			31	30	30										
					36						50	50								
					16								36	30	Z 1831 / 31x4x30					
					24											38	38			
					39													53	53	
				19	36	5	Z 1831 / 36x5x30													
24				38				38												
39									53	53										
2											12,4	6,4	24	46	6					38
2																30	50			
																51		71	71	
	28	54	6		Z 1831 / 54x6x38															
	30			50		50														
	51						71	71												
	35								66	6			Z 1831 / 66x6x50							
43	63													63						
65															85	85				
42		79	6		Z 1831 / 79x6x50															
30				50		50														
43							63	63												
65									85	85										

09 08 1 2 22 002229

Z 1832/...

Druckplatte
Wear plate
Plaque d'frottement

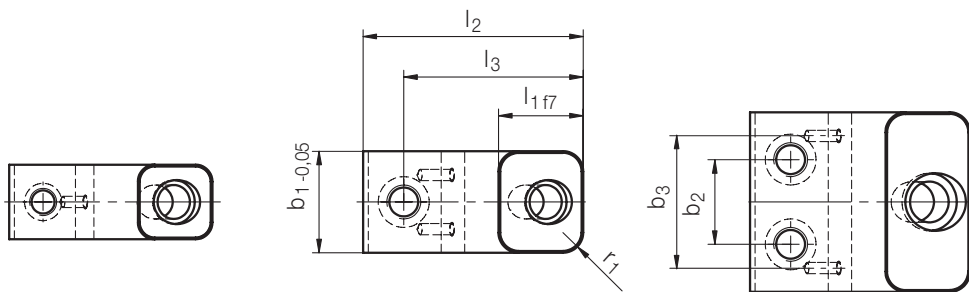
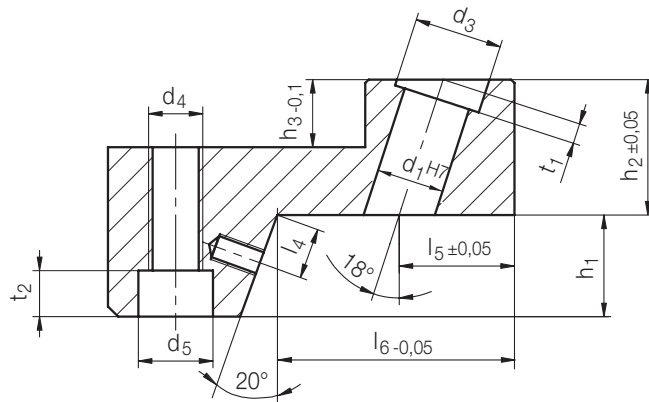
Mat.: 1.2842/53 HRC



Typ	r	b ₂	d	h ₁	h ₃	s	b ₁	Nr./No.
1	1,5	—	M4	3,5	8	4	22	Z 1832/ 8x4x22
2		18					30	30
	2	30	M5	5,5	12	5	50	Z 1832/12x5x30
		18					38	38
	2	24	M6	7	15	6	53	Z 1832/15x6x38
		35					50	50
3		50					71	71
2		34		8	17		50	Z 1832/17x6x50
		42				63	63	
3		65					85	85

Z 1840/...

Schieberrriegelung mit Aufnahme
 Locking heel with retainer
 Verrou du coulisseau avec logement
 Mat.: 1.2162/58 HRC



Typ 1

Typ 2

Typ 3

4

Neu / New / Nouveau

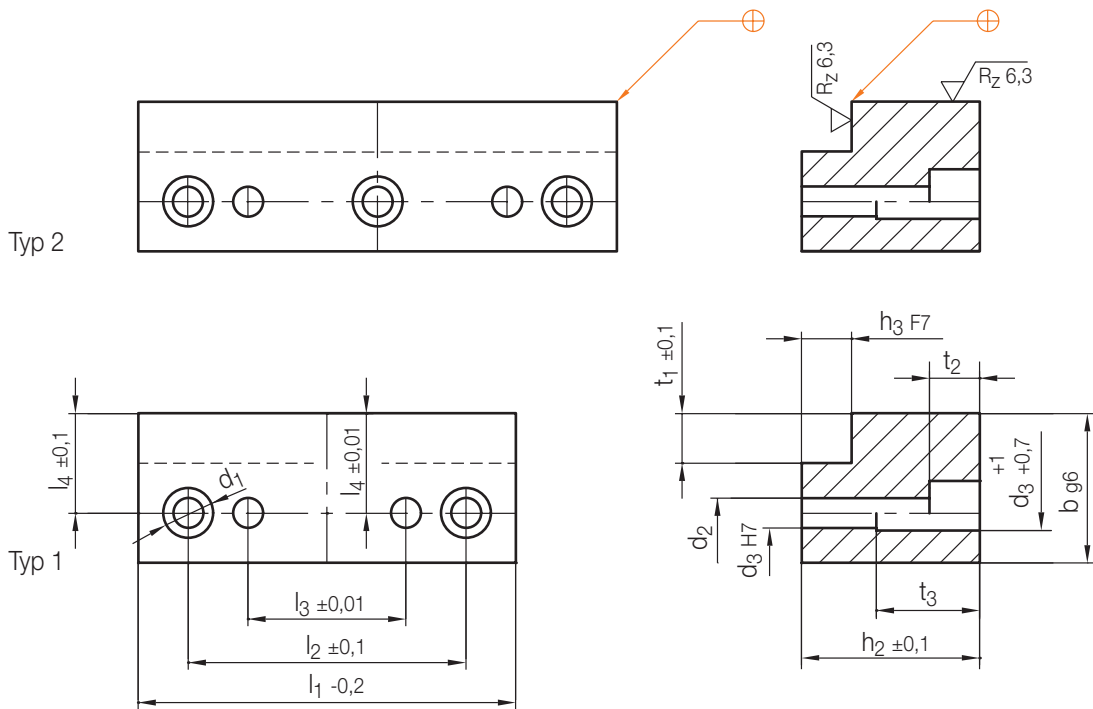
Typ	r ₁	l ₆	l ₅	l ₄	l ₃	l ₂	l ₁	t ₂	t ₁	d ₅	d ₄	d ₃	b ₃	b ₂	h ₃	h ₂	h ₁	Z 180/... h ₁	b ₁	d ₁	Nr./No.
1	5	32	17	4,5	43	50	22	5,7	3	10	M 6	13	-	-	8	18	11	12	22	10	Z 1840 / 12 x 22 x 10
2			16						6				16	-					30	12	30 x 12
3												17	36	24					50		50 x 12
1		35	19	7	50	60	25	6,8		11	M 8		-	-	10	22	15	16	22		Z 1840 / 16 x 22 x 12
2													16	-					30		30 x 12
3			18						8			19	36	24					50	14	50 x 14
2	6		19	10	54	65		9	6	15	M10	17	16	-			19	20	30	12	Z 1840 / 20 x 30 x 12
													24	-					38		38 x 12
3			18									19	39	25					53	14	53 x 14
2		38	19,5	13	58	71			8				16	-	12	26	24	25	30		Z 1840 / 25 x 30 x 14
													24	-					38		38 x 14
3													39	25					53		53 x 14

09.08.12.22 002229

Z 185/...

Führungsleiste
Guide strip
Barre de guidage

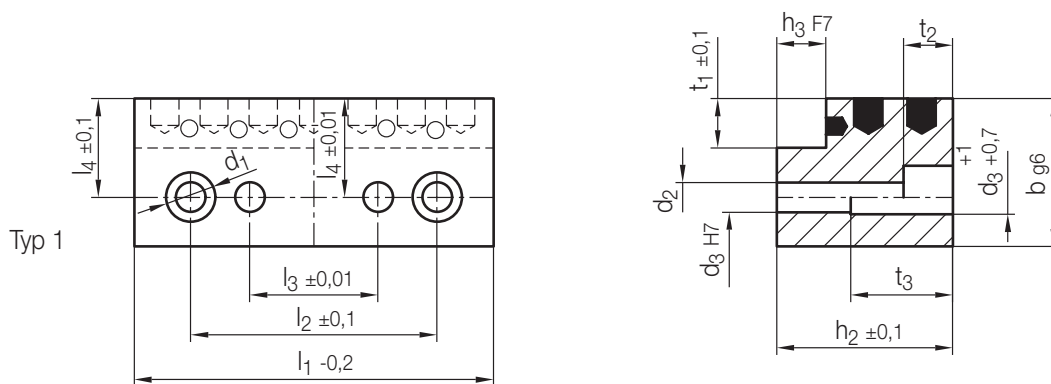
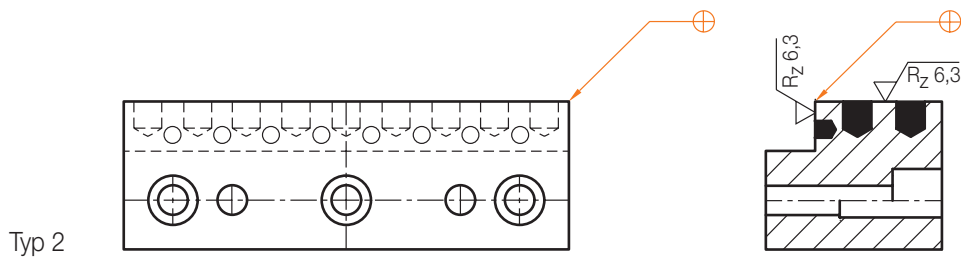
Mat.: 1.2842 / 58 HRC



Typ	t ₃	t ₂	t ₁	d ₃	d ₂	d ₁	l ₄	l ₃	l ₂	h ₃	h ₂	b	Z 180/... h ₁	l ₁	Nr./No.
1	—	5,7	5	5	5,5	10	9,5	14	34	4	11	16	12	50	Z 185/16x12x 50
								35	55					71	71
								54	74					90	90
1	9,5	6,8		6	6,6	11	12	40	64	5	19	20	20	80	Z 185/20x20x 80
								60	84					100	100
								85	109					125	125
1	19	9	6	8	9	15	15,5	50	80	6	31	25	32	100	Z 185/25x32x100
								75	105					125	125
								110	140					160	160
1	34	11	7	10	11	18	18	55	95	8	49	30	50	125	Z 185/30x50x125
								90	130					160	160
								130	170					200	200

Z 185 W/...

Führungsleiste, selbstschmierend
 Guide strip, self lubricating
 Barre de guidage, autolubrifiante
 Mat.: 2.0492 / 180 HB



4

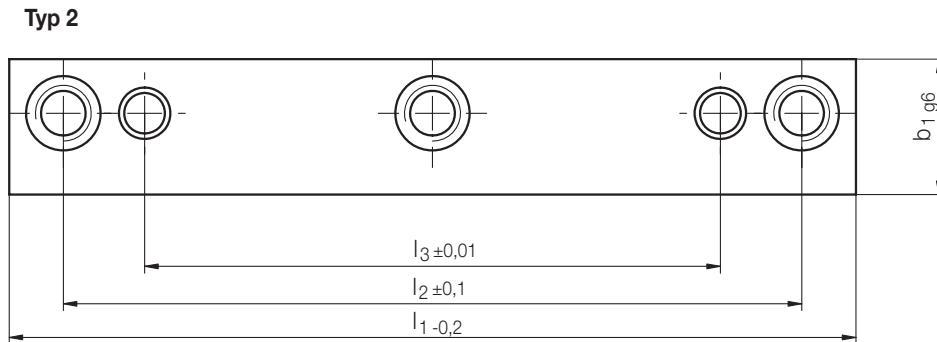
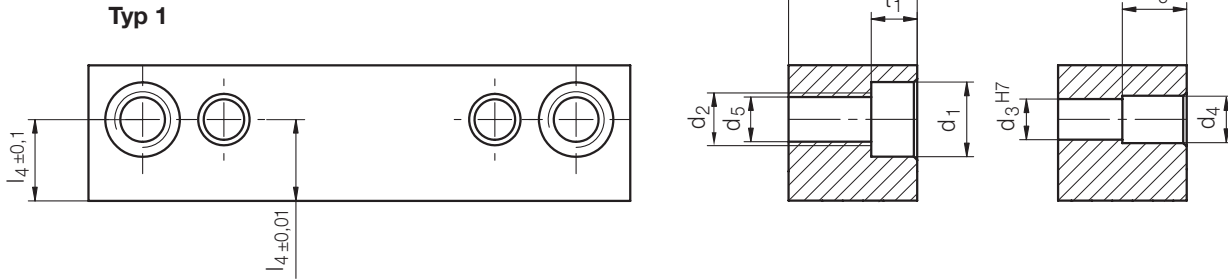
Typ	t ₃	t ₂	t ₁	d ₃	d ₂	d ₁	l ₄	l ₃	l ₂	h ₃	h ₂	b	Z180/... h ₁	l ₁	Nr./No.
1	—	5,7	5	5	5,5	10	9,5	14	34	4	11	16	12	50	Z 185 W/ 16x12x 50
								35	55					71	71
								54	74					90	90
2	9,5	6,8		6	6,6	11	12	40	64	5	19	20	20	80	Z 185 W/ 20x20x 80
								60	84					100	100
								85	109					125	125
1	19	9	6	8	9	15	15,5	50	80	6	31	25	32	100	Z 185 W/ 25x32x 100
								75	105					125	125
								110	140					160	160
2	34	11	7	10	11	18	18	55	95	8	49	30	50	125	Z 185 W/ 30x50x 125
								90	130					160	160
								130	170					200	200

09.08.12.22 0022229

Z 1850/...

Führungsleiste
Guide strip
Barre de guidage

Mat.: 1.2842 / 58 HRC



Neu / New / Nouveau

Typ	t ₃	t ₁	d ₅	d ₄	d ₃	d ₂	d ₁	l ₄	l ₃	l ₂	b ₁	h ₄	l ₁	Nr./No.
1	-	4	5,3	-	5	M 6	10	9,5	14	34	16	7	50	Z 1850/16 x 7 x 50
2								35	55	71				Z 1850/16 x 7 x 71
								54	74	90				Z 1850/16 x 7 x 90
1	3	5,7							14	34	11	50	Z 1850/16 x 11 x 50	
2								35	55	71			Z 1850/16 x 11 x 71	
								54	74	90			Z 1850/16 x 11 x 90	
1	4	6,8	6,8	7	6	M 8	11	12	40	64	20	14	80	Z 1850/20 x 14 x 80
2								60	84	100				Z 1850/20 x 14 x 100
								85	109	125				Z 1850/20 x 14 x 125
1	9								40	64	19	80	Z 1850/20 x 19 x 80	
2								60	84	100			Z 1850/20 x 19 x 100	
								85	109	125			Z 1850/20 x 19 x 125	
1	12	9	8,5	9	8	M10	15	15,5	50	80	25	25	100	Z 1850/25 x 25 x 100
2								75	105	125				Z 1850/25 x 25 x 125
								110	140	160				Z 1850/25 x 25 x 160
1	20								50	80	33	100	Z 1850/25 x 33 x 100	
2								75	105	125			Z 1850/25 x 33 x 125	
								110	140	160			Z 1850/25 x 33 x 160	
1	26	11	10,5	11	10	M12	18	18	55	95	30	41	125	Z 1850/30 x 41 x 125
2								90	130	160				Z 1850/30 x 41 x 160
								130	170	200				Z 1850/30 x 41 x 200
1	39								55	95	54	125	Z 1850/30 x 54 x 125	
2								90	130	160			Z 1850/30 x 54 x 160	
								130	170	200			Z 1850/30 x 54 x 200	

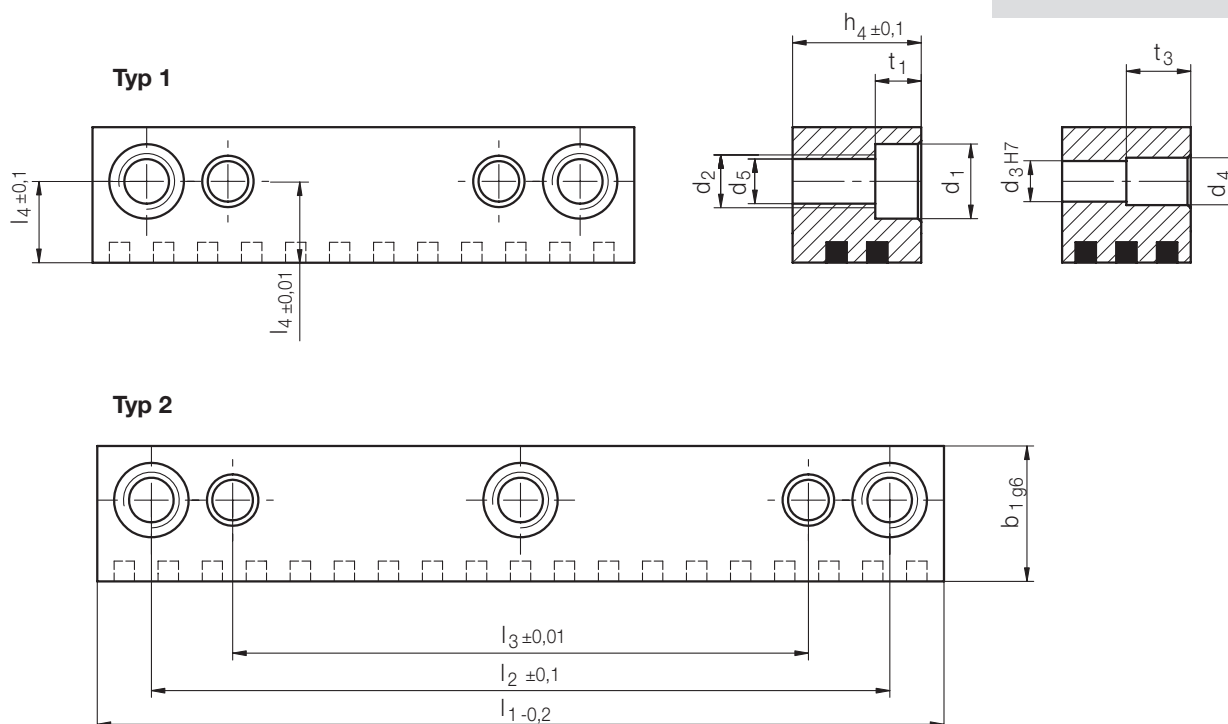
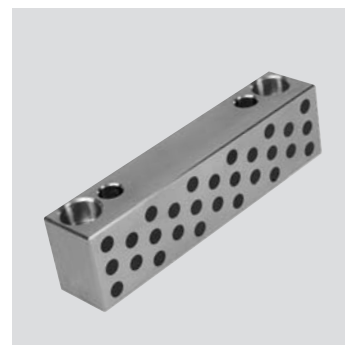
Z 1850 W/...

Führungsleiste, selbstschmierend

Guide strip, self lubricating

Barre de guidage, autolubrifiante

Mat.: 2.0492 / 180 HB



4

Neu / New / Nouveau

Typ	t ₃	t ₁	d ₅	d ₄	d ₃	d ₂	d ₁	l ₄	l ₃	l ₂	b ₁	h ₄	l ₁	Nr./No.
1	-	4	5,3	6	5	M 6	10	9,5	14	34	16	7	50	Z 1850 W / 16 x 7 x 50
									35	55			71	71
									54	74			90	90
1	3	5,7	5,3	6	5	M 6	10	9,5	14	34	16	11	50	Z 1850 W / 16 x 11 x 50
									35	55			71	71
									54	74			90	90
1	4	6,8	6,8	7	6	M 8	11	12	40	64	20	14	80	Z 1850 W / 20 x 14 x 80
									60	84			100	100
									85	109			125	125
1	9	6,8	6,8	7	6	M 8	11	12	40	64	20	19	80	Z 1850 W / 20 x 19 x 80
									60	84			100	100
									85	109			125	125
1	12	9	8,5	9	8	M10	15	15,5	50	80	25	25	100	Z 1850 W / 25 x 25 x 100
									75	105			125	125
									110	140			160	160
1	20	9	8,5	9	8	M10	15	15,5	50	80	25	33	100	Z 1850 W / 25 x 33 x 100
									75	105			125	125
									110	140			160	160
1	26	11	10,5	11	10	M12	18	18	55	95	30	41	125	Z 1850 W / 30 x 41 x 125
									90	130			160	160
									130	170			200	200
1	39	11	10,5	11	10	M12	18	18	55	95	30	54	125	Z 1850 W / 30 x 54 x 125
									90	130			160	160
									130	170			200	200

09.08.12.22 0022229

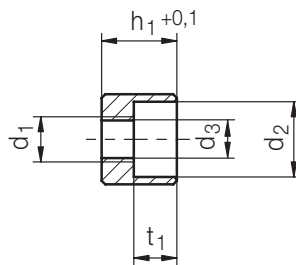
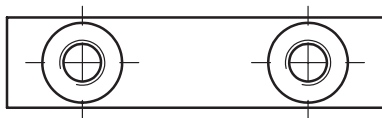
Z 1851 / ...

Führungsleiste
Guide strip
Barre de guidage

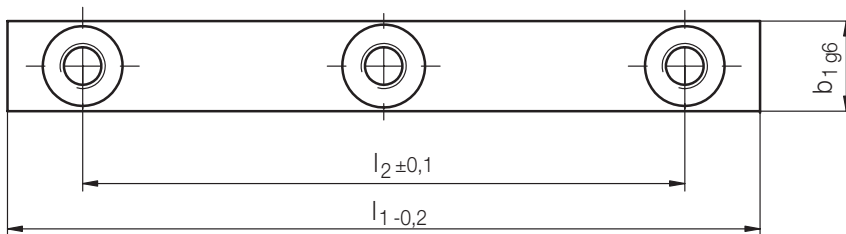
Mat.: 1.2379/58 HRC



Typ 1



Typ 2



Neu / New / Nouveau

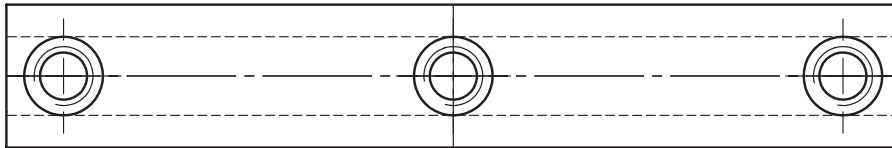
Typ	t ₁	d ₃	d ₂	d ₁	l ₂	b ₁	h ₁	l ₁	Nr./No.
1	5,7	5,3	10	M6	30	12	10	50	Z 1851 / 12x10x 50
2					70			90	90
					80			125	125
1	6,8	6,8	11	M8	30	16	16	50	Z 1851 / 16x16x 50
2					70			90	90
					105			125	125
1	6,8	6,8	11	M8	60	20	20	80	Z 1851 / 20x16x 80
2					105			125	125
					140			160	160
1	6,8	6,8	11	M8	60	25	20	80	Z 1851 / 25x20x 80
2					105			125	125
					140			160	160

Z 1852/...

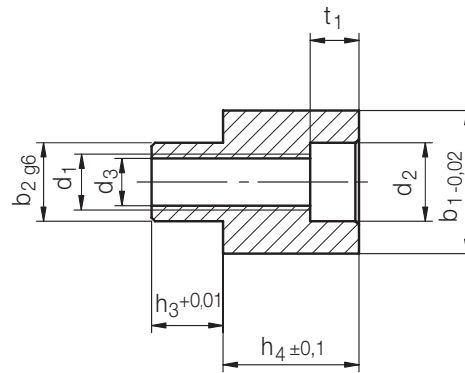
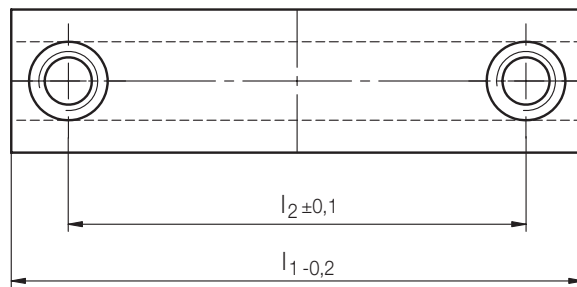
Führungsleiste
 Guide strip
 Barre de guidage
 Mat.: 1.2379/58 HRC



Typ 2



Typ 1



4

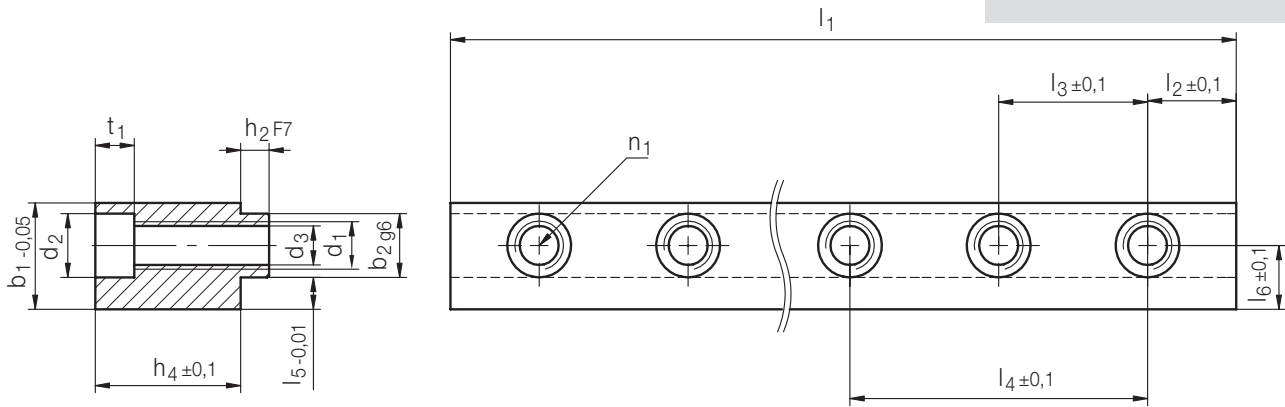
Neu / New / Nouveau

Typ	t ₁	d ₃	d ₂	d ₁	l ₂	b ₂	h ₃	b ₁	h ₄	l ₁	Nr./No.
1	4	5,3	10	M 6	34	8	8	16	7	50	Z 1852/ 16x 7x 50
					55					71	71
					74					90	90
2	5,7	5,3	10	M 6	34	8	8	16	11	50	Z 1852/ 16x 11x 50
					55					71	71
					74					90	90
1	6,8	6,8	11	M 8	64	12	10	20	14	80	Z 1852/ 20x 14x 80
					84					100	100
					109					125	125
2	6,8	6,8	11	M 8	64	12	10	20	14	80	Z 1852/ 20x 14x 80
					84					100	100
					109					125	125
1	9	8,5	15	M10	80	15	12	25	25	100	Z 1852/ 25x 25x 100
					105					125	125
					140					160	160
2	9	8,5	15	M10	80	15	12	25	25	100	Z 1852/ 25x 25x 100
					105					125	125
					140					160	160
1	10,5	8,5	18	M12	95	18	16	30	41	125	Z 1852/ 30x 41x 125
					130					160	160
					170					200	200
2	10,5	8,5	18	M12	95	18	16	30	41	125	Z 1852/ 30x 41x 125
					130					160	160
					170					200	200

09.08.12.22 0022229

Z 1853/...

Führungsleiste, ablängbar
 Guide strip, can be cut as required
 Barre de guidage, pouvant être raccourci
 Mat.: 1.2379/58 HRC

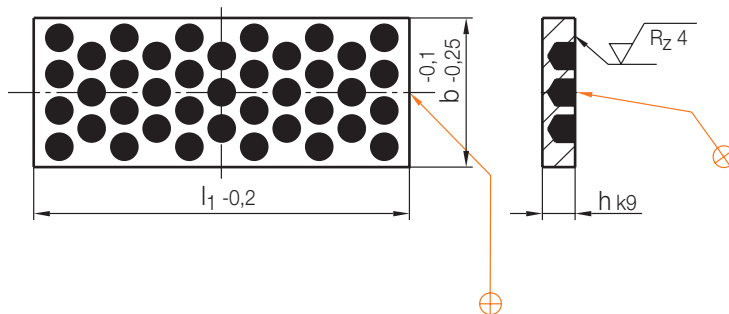
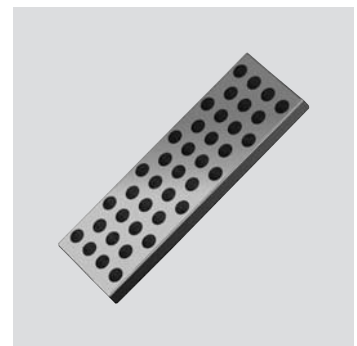


Neu / New / Nouveau

n ₁	h ₂	t ₁	d ₃	d ₂	d ₁	l ₆	l ₅	l ₄	l ₃	l ₂	b ₂	b ₁	h ₄	l ₁	Nr./No.
9	4	4	5,3	10	M 6	10	6	70	35	10	8	16	7	300	Z 1853/16x 7x300
		5,7											11	300	16x11x300
12	5	6,8	6,8	11	M 8	12	7	100	50	17,5	10	20	14	420	20x14x420
10	6	9	8,5	15	M10	15	8			25	14	25	25	25	500
	8	11	10,5	18	M12	18	9	18	30	41	500	30x41x500			

Z 186W/...

Flachführung, selbstschmierend
 Slide plate, self lubricating
 Plaque de frottement avec inserts autolubrifiante
 Mat.: 2.0492
 max. °C: 200

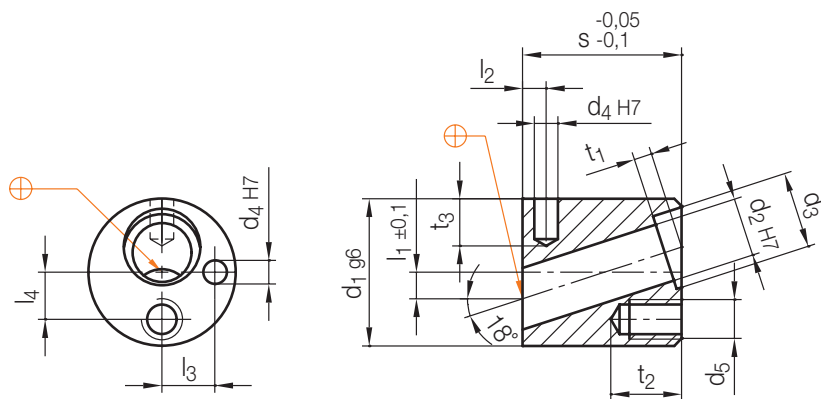


b	h	l ₁	Nr./No.
25	5	50	Z 186W/25x5x 50
		71	71
		90	90
40	5	50	Z 186W/40x5x 50
		71	71
		90	90
40	6	80	Z 186W/40x6x 80
		100	100
		125	125
		160	160
40	6	160	Z 186W/40x6x160
		200	200
		80	Z 186W/63x6x 80
		100	100
		125	125
		160	160

Z 187/...

Aufnahme
Retainer
Logement

Mat.: 1.2312/1080 N/mm²



4

Neu / New / Nouveau

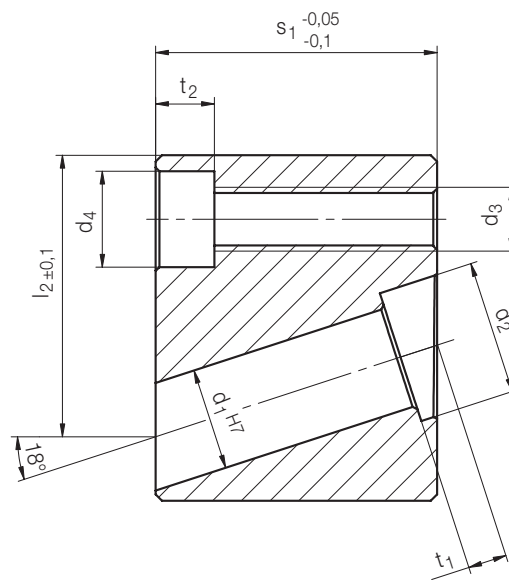
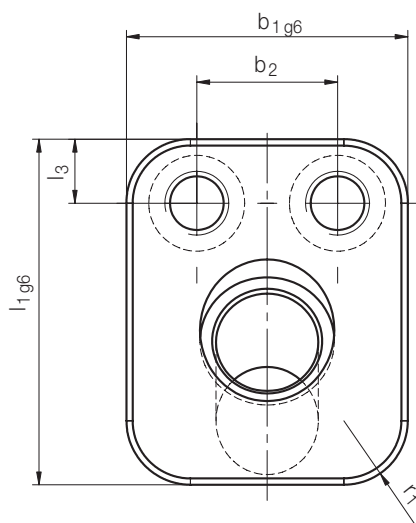
t ₃	t ₂	t ₁	l ₄	l ₃	l ₂	l ₁	d ₅	d ₄	d ₃	d ₁	s	d ₂	Nr./No.						
6	12	3	7	8	4	2,5	M 5	3	11	22	22	8	Z 187 / 22x22x 8						
8			8	9		4,5	M 6						4	13	25	27	10	25x27x10	
	10	16,5	6	10	11	6	M 8	5	21	40	46	16						Z 187 / 40x46x16	
13,5				14	8								23	20	56	18	18		
15				16,5	8,5												6	25	45
12				15	16,5								10	27	50	56			
14	23	15	16,5	18	8	11	M10	8	37	63	66	24	24						
			21	24									11	8	37	63	66	30	Z 187 / 63x66x30

09.08.1.2.22 0022229

Z 1870/...

Aufnahme, eckig
 Retainer, square
 Logement, anguleuse

Mat.: 1.2312/1080 N/mm²



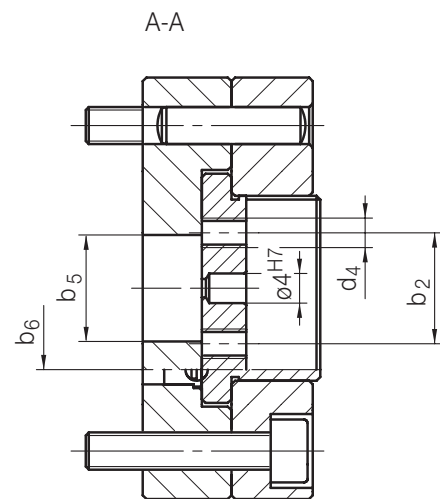
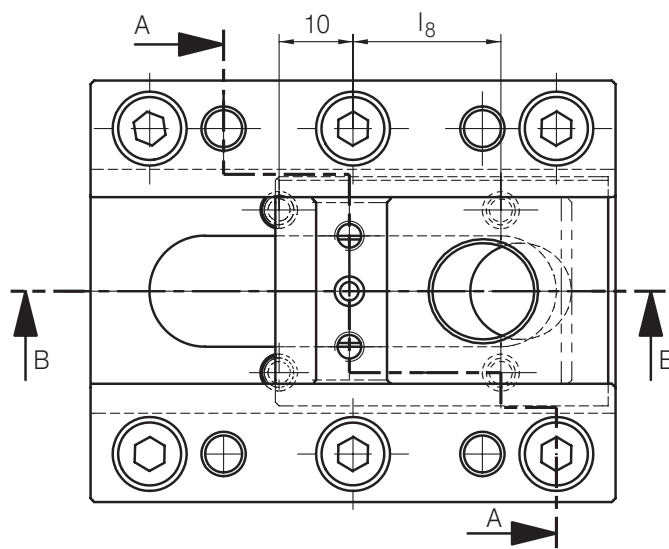
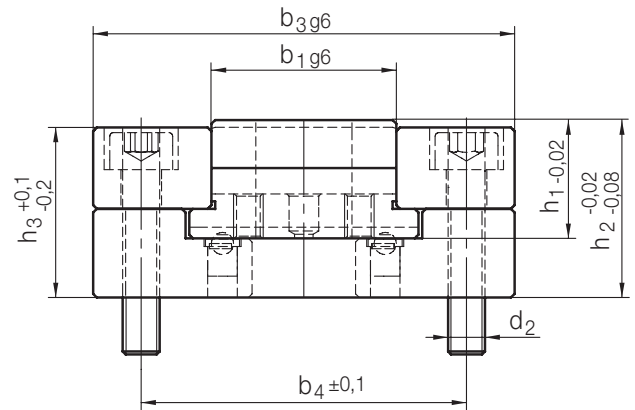
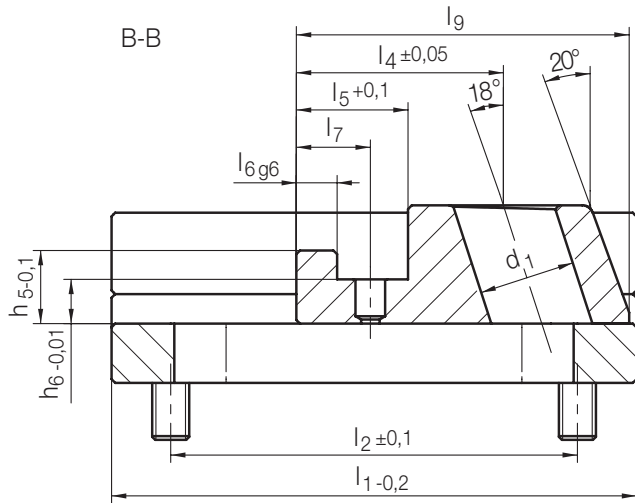
Neu / New / Nouveau

t ₂	d ₄	d ₃	l ₃	b ₂	r ₁	t ₁	d ₂	l ₂	b ₁	l ₁	s ₁	d ₁	Nr./No.
5,7	10	M 6	6,5	12	5	3	11	19,5	25	25	17	8	Z 1870 / 25x25x17x 8
			7	13			13	23	27	30	22	10	27x30x22x10
6,8	11	M 8	8	16,5	6	6	17	31	32	40	36	12	Z 1870 / 32x40x36x 12
			7				19				14	14	
			7,5	17			21	35	45	46	16	Z 1870 / 32x45x46x 16	
9	15	M10	9,5		8	8	23	40,5	36	52		18	36x52x46x 18
			10	20			10	25	42	40	55	20	Z 1870 / 40x55x46x 20
			10,5		15	27	46	60	56	22	60x56x22		
11	18	M12	11	22	12	12	29	49,5	45	65		24	Z 1870 / 45x65x56x 24
			12	30			37	56	52	75	66	30	52x75x66x 30
			32				55		66	32	55x75x66x 32		

09.08.12.22 002229

Z 1880/...

Schieberbaukasten
Slide modular system
Support guide de coulisseau



4

Neu / New / Nouveau

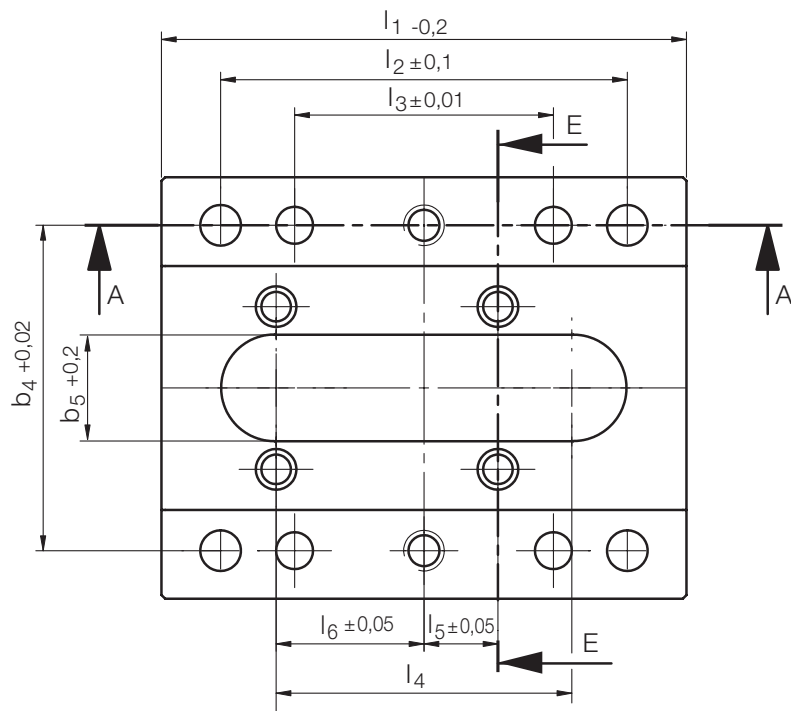
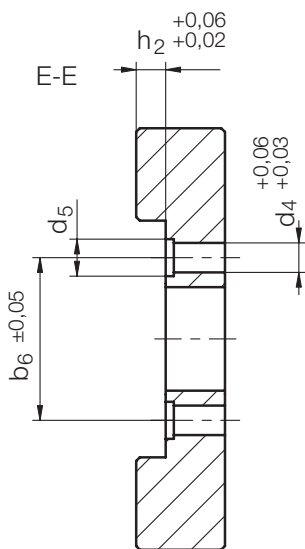
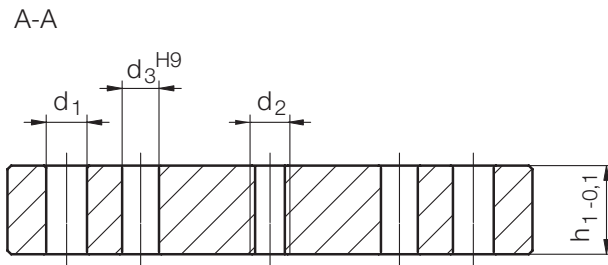
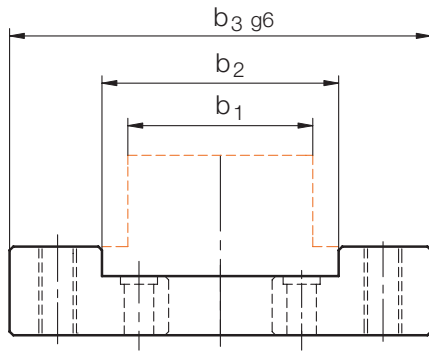
l ₉	l ₈	l ₇	l ₆	l ₅	l ₄	l ₂	d ₄	d ₂	d ₁	h ₆	h ₅	h ₃	h ₂	b ₆	b ₅	b ₄	b ₃	b ₂	h ₁	b ₁	l ₁	Nr./No.	
40	20	10	5	15,1	25,45	55	M4	M5	11	5,5	8,4	19	20	22	14	44	57	15	12	25	71	Z 1880/12x25x 71	
					24,45				13					30		59	72	20				40	40
					50				16					82		95	30	63				63	
45	20	10	5,5	15,1	28	55	M4	M5	13	6	9,9	23	24	22	14	44	57	15	16	25	71	Z 1880/16x25 x71	
					27				15					30		59	72	20				40	40
					50				16					82		95	30	63				63	
50	25	13	8	18,1	31,7	84	M4	M6	13	9	13,4	29	30	30	14	64	80	20	20	40	100	Z 1880/20x40x100	
					30,7				15					50		87	103	30				63	63
					60				104					120		40	80	80					
55	25	16	10	22,1	33,45	84	M5	M6	15	10	15,9	34	35	30	14	64	80	20	25	40	100	Z 1880/25x40x100	
					50				15					50		87	103	30				63	63
					60				104					120		40	80	80					

09.08.12.22 0022229

Z1881/...

Grundplatte
Base plate
Plaque de base

Mat.: 1.2842/56 HRC



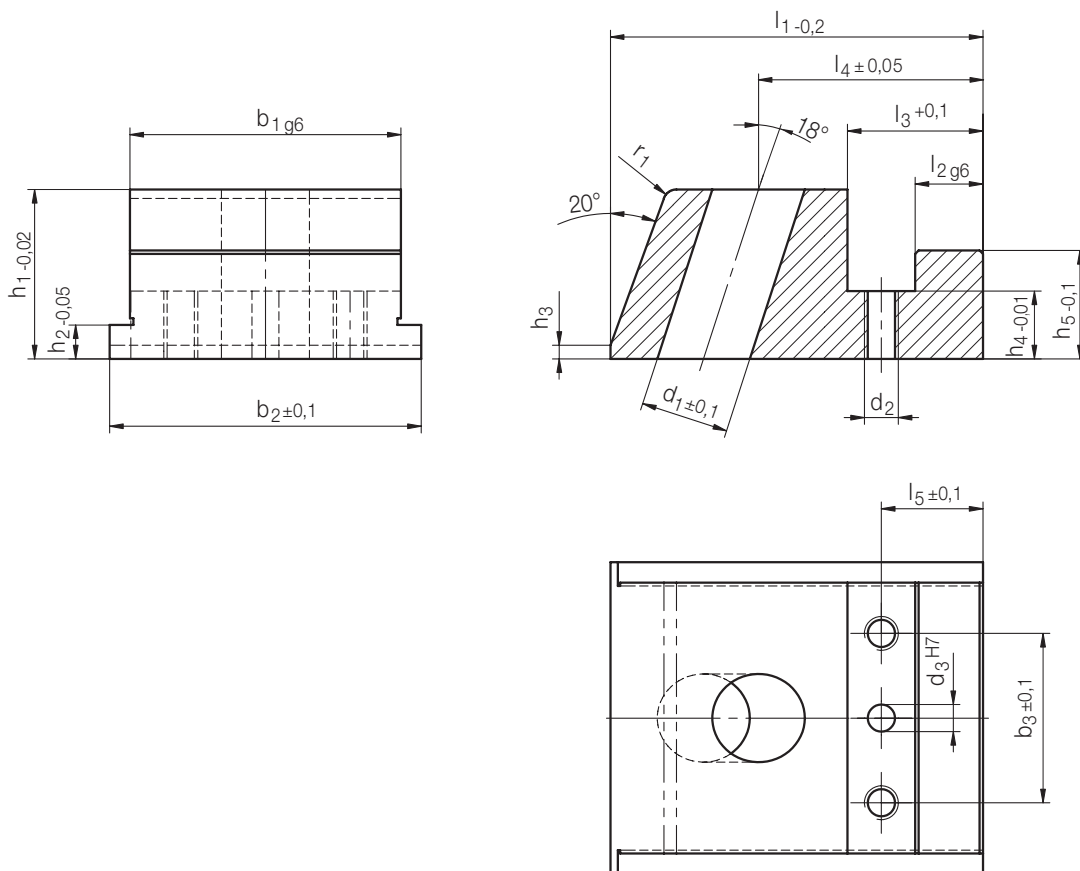
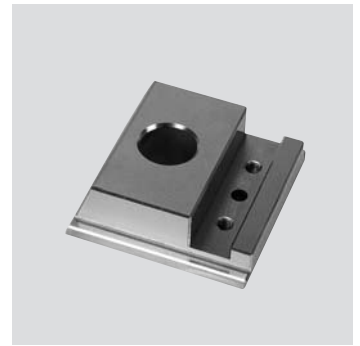
Neu / New / Nouveau

l_6	l_5	l_4	l_3	l_2	d_5	d_4	d_3	d_2	d_1	h_2	h_1	b_6	b_5	b_4	b_2	Z1801/... b_1	b_3	l_1	Nr./No.
20	10	40	35	55	5	4	5	M5	5,5	4	12	22	14	44	32	25	57	71	Z1881/25x 57x 71
					7	6						30		59	47	40	72		40x 72
												50	16	82	70	63	95		63x 95
25	10	50	60	84	7	6	6	M6	6,6	5	15	30	16	64	47	40	80	100	Z1881/40x 80x 100
												50		87	70	63	103		63x 103
												60		104	87	80	120		80x 120

Z 1801/...

Schieber
Slide
Coulisseau

Mat.: 1.2343/54 HRC



4

Neu / New / Nouveau

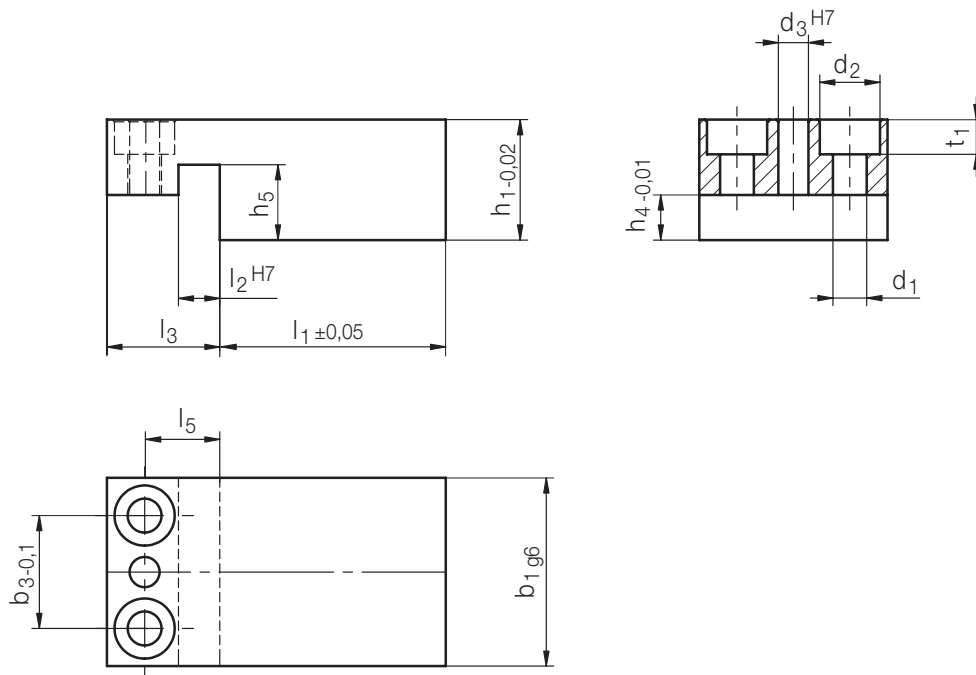
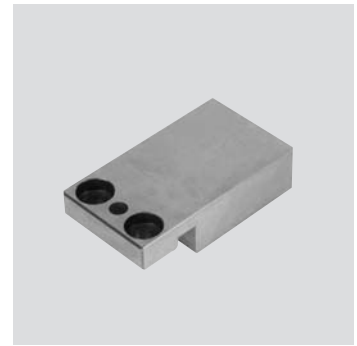
r ₁	h ₃	h ₅	h ₄	l ₅	l ₃	l ₂	d ₃	d ₂	b ₃	b ₂	l ₄	d ₁	h ₂	h ₁	b ₁	l ₁	Nr./No.								
1,5	1,5	8,4	5,5	10	15,1	5	4	M4	15	31	25,45	11	4	12	25	40	Z 1801 / 12x25 x 40								
											24,45						13	40	40						
											69						63	63							
		9,9	6			5,5					15	31					28	16	25	45	Z 1801 / 16x25 x 45				
																	24,45				15	40	40		
																	27				63	63			
2	2	13,4	9	13	18,1	8	4	M4	20	46	31,7	13	5	20	40	50	Z 1801 / 20x40 x 50								
											69						63	63							
											86						80	80							
		15,9	10			16					22,1	10					M5	20	46	33,45	25	40	55	Z 1801 / 25x40 x 55	
																				69				63	63
																				86				80	80

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Z 1802 / ...

Konturschieber
Slide for contour
Support de coulisseau

Mat.: 1.2767 / 55 HRC
Toolox 44 / 45 HRC



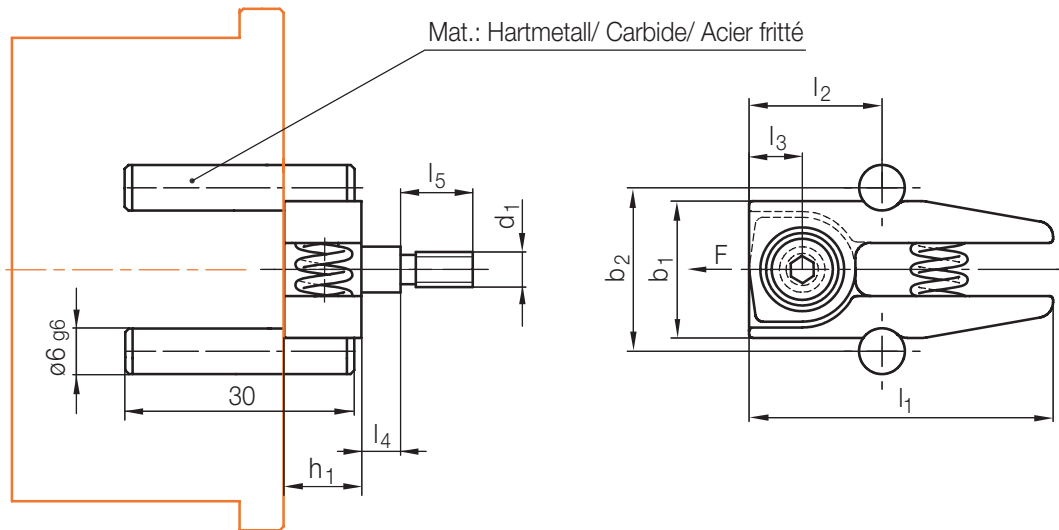
Neu / New / Nouveau

d ₃	h ₅	h ₄	t ₁	d ₂	d ₁	b ₃	l ₅	l ₃	l ₂	h ₁	b ₁	l ₁	Mat.		Nr./No.		
													1.2767	Toolox 44			
4	8,5	5,5	3,2	8	4,5	15	10	15	5	12	25	30	x	x	Z 1802 / 12x25x 30 / Mat.		
						20					40		x	x		40	
						30					63		x	x		63	
	10	6	4,6				15			5,5	16	25		x	x	Z 1802 / 16x25x 30 / Mat.	
							20					40		x	x		40
							30					63		x	x		63
	13,5	9					20	13	18	8	20	40	40	x	x	Z 1802 / 20x40x 40 / Mat.	
							30					63		x	x		63
							40					80		x	x		80
16	10	5,7	10	5,5		20	16	22	10	25	40		x	x	Z 1802 / 25x40x 40 / Mat.		
						30					63		x	x		63	
						40					80		x	x		80	

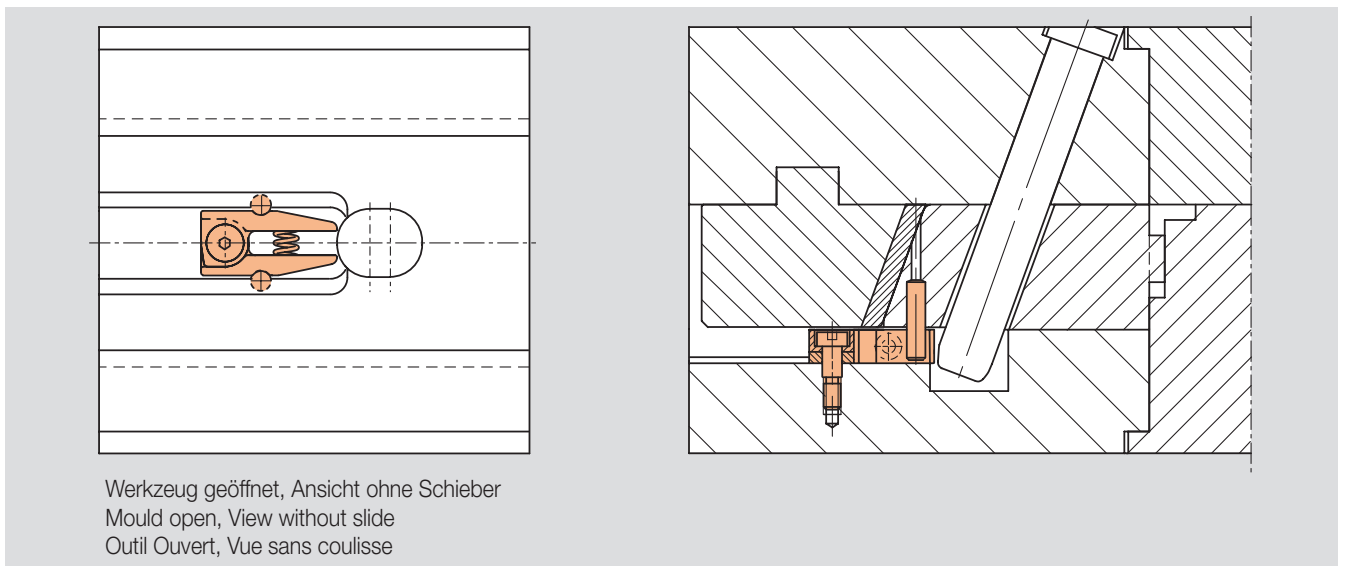
09.08.12.22 002229

Z 189/...

Schiebersicherung
 Slide retainer
 Retenue de coulisseau
 Mat.: 1.7131/54 HRC



4



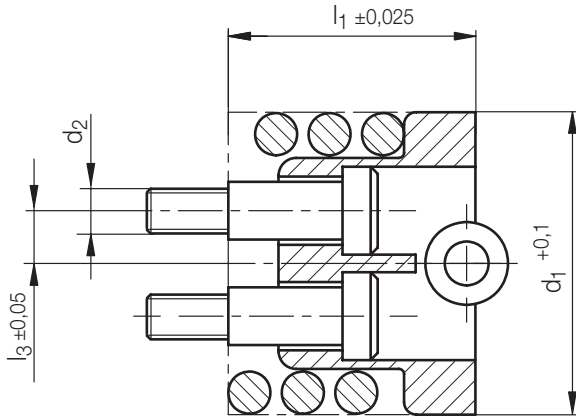
F = Schieberhaltekraft / Slide retaining force / Force de retenue du coulisseau

F[N]	b ₂	b ₁	d ₁	l ₅	l ₄	l ₃	l ₂	l ₁	h ₁	Nr./No.
100	21,5	18	M5	9,5	5,1	7	17,5	40	10	Z189/10
150	25,5	22	M6	11	6,1	7,5	18	43	12	12
250	31,5	28			3,1	9,5	20,5	50	16	16

09.08.12.22 0022229

Z 1892 / ...

Federndes Druckstück
Spring plunger
Vis à bille avec tête
max.: 218°C

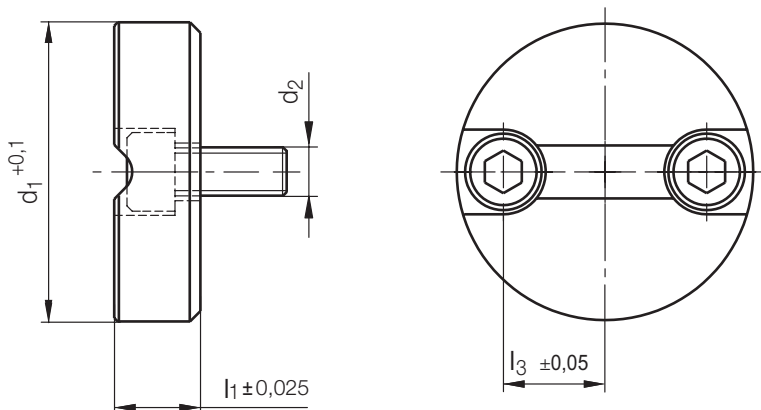


Neu / New / Nouveau

Schiebergewicht Slide weight Poids de coulisseau max. [kg]	l_3	d_2	d_1	l_1	Nr./No.
4,5	3,95	M3	16	4,06	Z 1892 / 16 x 4,06
13,5	3,8	M4	19	12,7	19 x 12,7
36			22	19,05	22 x 19,05

Z 1893 / ...

Aufnahme
Retainer
Logement de doigt de démoulage
max.: 218°C



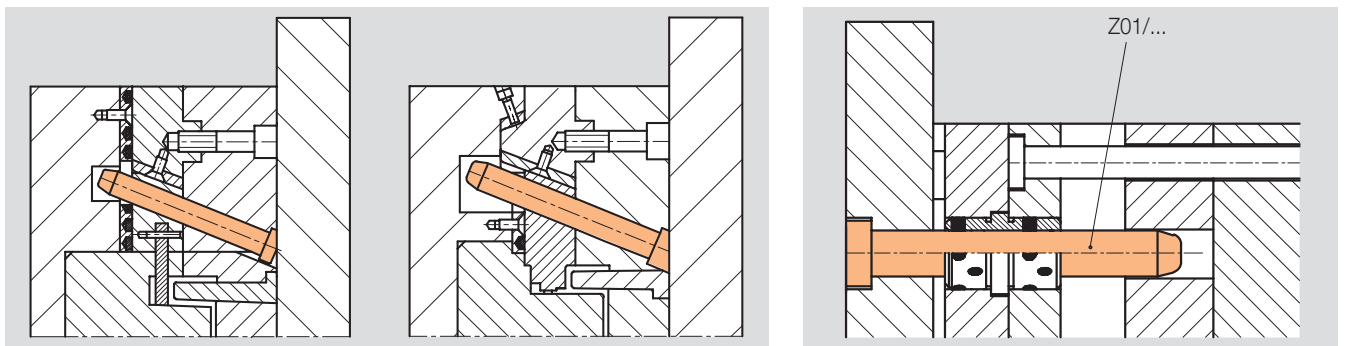
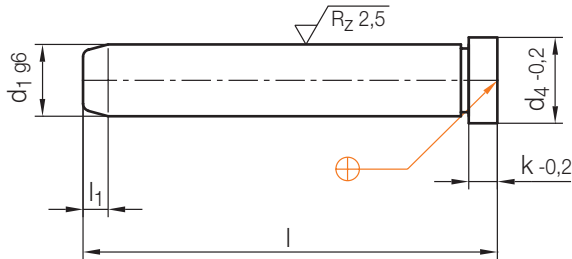
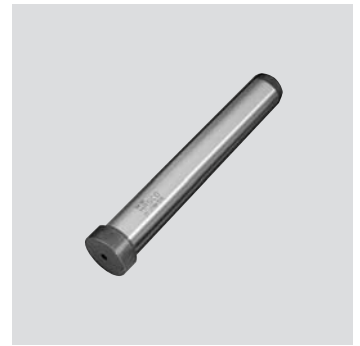
Neu / New / Nouveau

l_3	d_2	d_1	l_1	Nr./No.
4,85	M3	16	6,35	Z 1893 / 16 x 6,35
6,35		19		19 x 6,35
7,6		22		22 x 6,35

Z01/...

Führungssäule (Schrägzugsäule)
 Guide pillar (Angle Pin)
 Colonne de guidage

Mat.: ≈ 1.0401/720 HV 30
 DIN ISO 8404-A



4

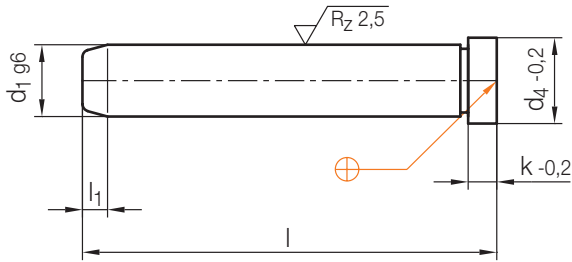
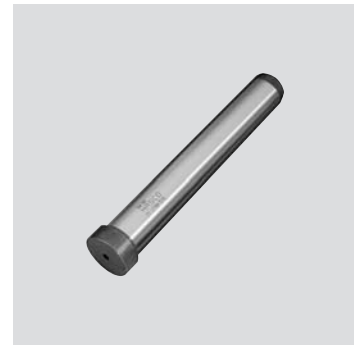
l_1	d_4	k	d_1	l	Nr./No.			
4	10	3	8	40	Z01/ 8x 40			
				50	50			
				60	60			
				80	80			
				100	100			
	12	9	40	Z01/ 9x 40				
				60	60			
				80	80			
				100	100			
				120	120			
		10	40	Z01/10x 40				
				60	60			
				80	80			
				100	100			
				120	120			
7	16	6	12	40	Z01/12x 40			
				60	60			
				80	80			
				100	100			
				120	120			
				140	140			
				160	160			
				18	8	14	60	Z01/14x 60
							80	80
							100	100
	120	120						
	140	140						
					160	160		
					180	180		

l_1	d_4	k	d_1	l	Nr./No.			
7	18	8	15	60	Z01/15x 60			
				80	80			
				100	100			
				120	120			
				140	140			
				160	160			
				180	180			
				20	16	40	Z01/16x 40	
							60	60
							80	80
							100	100
							120	120
							140	140
							160	160
							180	180
	200	200						
	22	18	60				Z01/18x 60	
				80	80			
				100	100			
				120	120			
				140	140			
				160	160			
				180	180			
				200	200			
				240	240			

Z01/...

Führungssäule (Schrägzugsäule)
 Guide pillar (Angle Pin)
 Colonne de guidage

Mat.: ≈ 1.0401/720 HV 30
 DIN ISO 8404-A

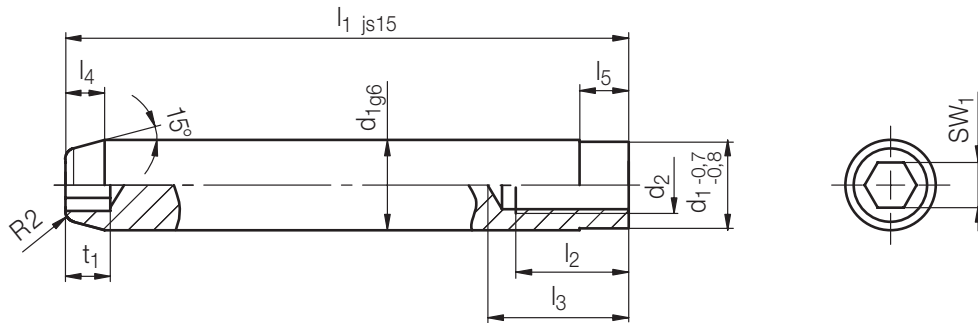


l_1	d_4	k	d_1	l	Nr./No.				
7	24	8	20	60	Z01/20x 60				
				80	80				
				100	100				
				120	120				
				140	140				
				160	160				
				180	180				
				200	200				
				240	240				
				26	15	15	22	80	Z01/22x 80
								100	100
								120	120
140	140								
160	160								
180	180								
200	200								
220	220								
240	240								
300	300								
28	24	24	24					80	Z01/24x 80
								100	100
				120	120				
				140	140				
				160	160				
				180	180				
				200	200				
				220	220				
				240	240				
				300	300				

l_1	d_4	k	d_1	l	Nr./No.			
7	36	15	30	100	Z01/30x 100			
				120	120			
				160	160			
				200	200			
				240	240			
				300	300			
			32	32	32	32	100	Z01/32x 100
							120	120
							160	160
							200	200
							240	240
							300	300
10	48	48	40	160	Z01/40x 160			
				200	200			
				240	240			
				300	300			
				360	360			
				58	58	58	50	160
	200		200					
	240		240					
	300		300					
	360		360					

Z010/...

Schrägsäule
 Angle pin
 Doigt inciné
 Mat.: ~1.0401



d ₂	l ₂	l ₃	l ₄	SW ₁	t ₁	d ₁	l ₁	Nr./No.
M 6	10	15	4	5	5	10	60	Z010/10x 60
								80
								100
M 6	10	15	7	6	6	12	60	Z010/12x 60
								80
								100
M 6	10	15	7	6	8	14	50	Z010/14x 50
								60
								67
								70
								75
								80
								90
								100
M 8	10	15	7	6	8	15	50	Z010/15x 50
								60
								70
								80
M 8	12	18	7	6	8	16	80	Z010/16x 80
								90
								100
								118
								120
								132
								140
M10	15	22	7	8	10	18	60	Z010/18x 60
								70
								80
								90
								100
								125
								140
								150
170								

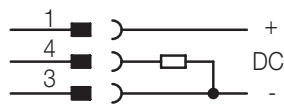
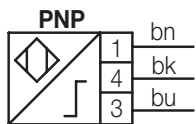
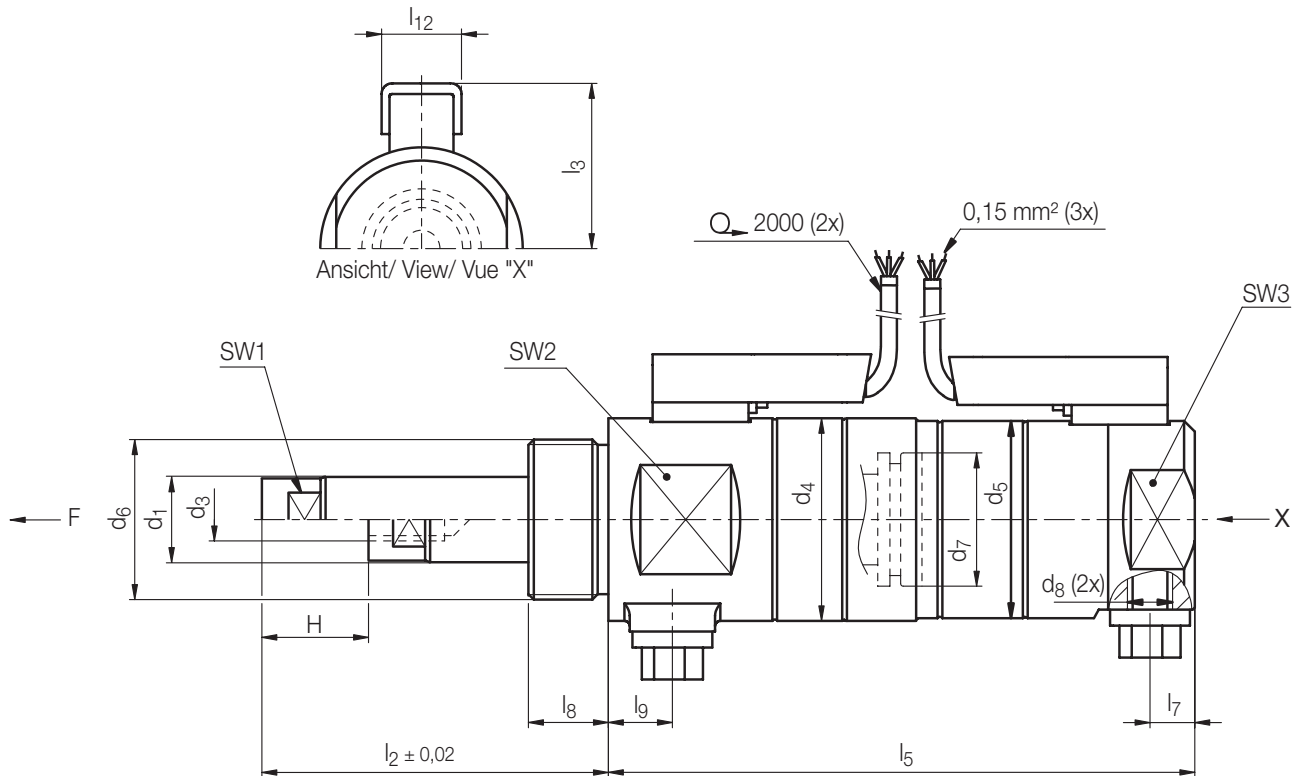
d ₂	l ₂	l ₃	l ₄	SW ₁	t ₁	d ₁	l ₁	Nr./No.
M10	15	22	7	10	10	20	60	Z010/20x 60
								70
								80
								90
								100
								120
M10	15	22	7	10	10	22	70	Z010/22x 70
								80
								90
								100
M12	18	25	7	12	12	24	70	Z010/24x 70
								80
								90
								100
								120
								140
M16	18	25	7	12	12	30	80	Z010/30x 80
								90
								100
								120
								140
								170
M16	18	25	7	12	12	32	80	Z010/32x 80
								90
								100
								120
								140
								170

09.08.12.22 0022229

Z 2301/...

Verriegelungszyylinder
Positive locking cylinder
Cylindre de verrouillage

max. °C: 100



Aderfarbe/ Colour of conductors/ Couleur des câbles:
bn = braun/ brown/ brun
bk = schwarz/ black/ noir
bu = blau/ blue/ bleu

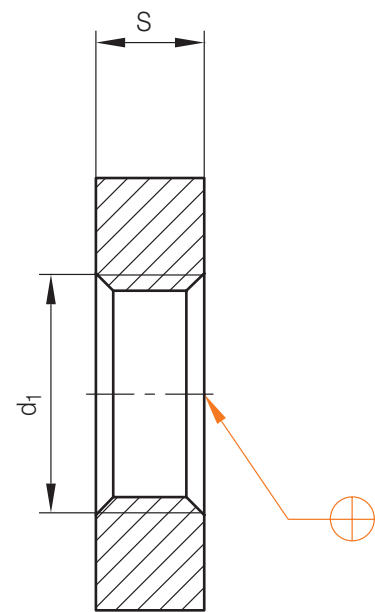
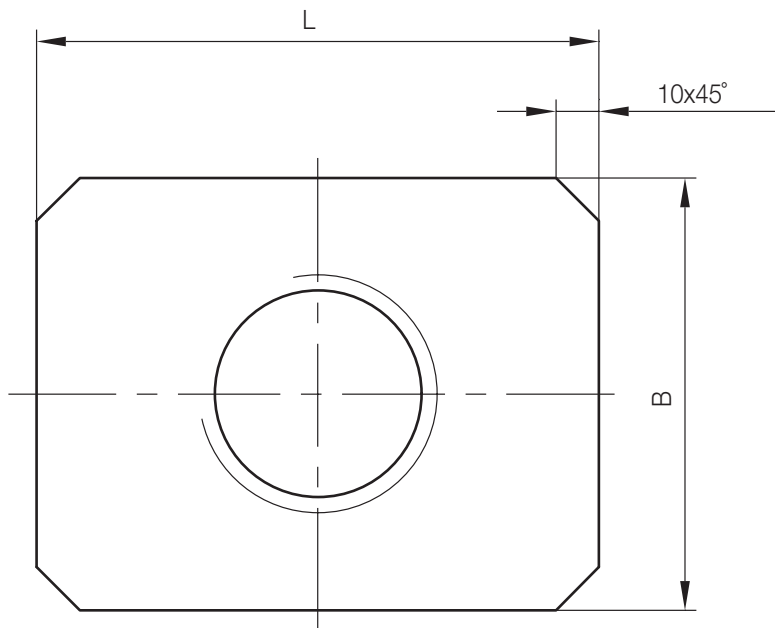
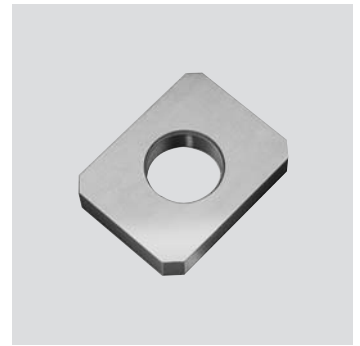
Neu/ New / Nouveau

F [kN]	SW ₃	SW ₂	SW ₁	l ₁₂	l ₉	l ₈	l ₇	l ₅	l ₃	l ₂	d ₈	d ₇	d ₆	d ₅	d ₄	d ₃	d ₁	H	Nr./No.
60	32	32	12	15	12	15	8,4	90	31	45	G 1/8	24	M 30x1,5	37	38	M 8	16	20	Z 2301 / 16 x 20
								110		65								40	
100	41	41	14	23	14	18	11	115	37	60	G 1/4	30	M 40x1,5	47	49		20	30	Z 2301 / 20 x 30
								145		90								60	
130	46	50	18		15	20	12	125	41	70		36	M 48x1,5	56	58	M10	25	35	Z 2301 / 25 x 35
								160		105							70		
200	60	60	24		20	25	13	155	46	90		45	M 60x1,5	69	72	M12	32	45	Z 2301 / 32 x 45
								200		135							90		
280	75	75	32		24	32	14	185	56	105	G 3/8	56	M 75x1,5	84	89	M16	42	50	Z 2301 / 42 x 50
								235		155							100		
500	90	95	41		26	42	17	216	64	130		71	M 95x2	104	112		50	60	Z 2301 / 50 x 60
								276		190							120		
700	105	110	50		36	50	19	260	70	155	G 1/2	84	M 110x2	119	129	M20	60	75	Z 2301 / 60 x 75
								335		230							150		

Z2310/...

Flansch
Flange
Bride

Mat.: 1.1730 / 640 N/mm²



4

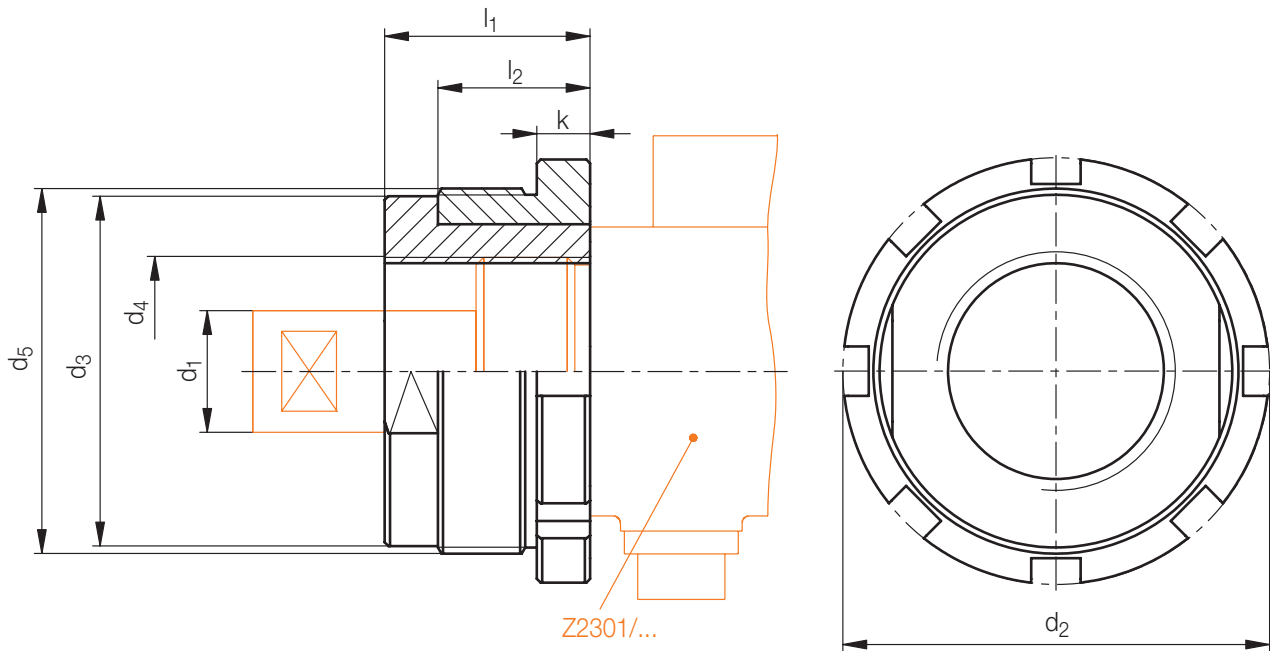
B	L	S	d ₁	Nr./No.	EDV-Nr.
70	100	20	M30 x 1,5	Z2310/ 30x1,5	581615
			M40 x 1,5	40x1,5	581623
100	130	25	M48 x 1,5	48x1,5	581631
			36	M60 x 1,5	60x1,5
130	160	56		M75 x 1,5	75x1,5
160	180	56	M95 x 2	95x2	581666
			M110 x 2	110x2	581674

09.08.12.22 002229

Z2311/...

Nutmuttern-Satz
Groove nut-set
Jeu d'écrous

Mat.: 1.5919/57 +2HRC



Neu / New / Nouveau

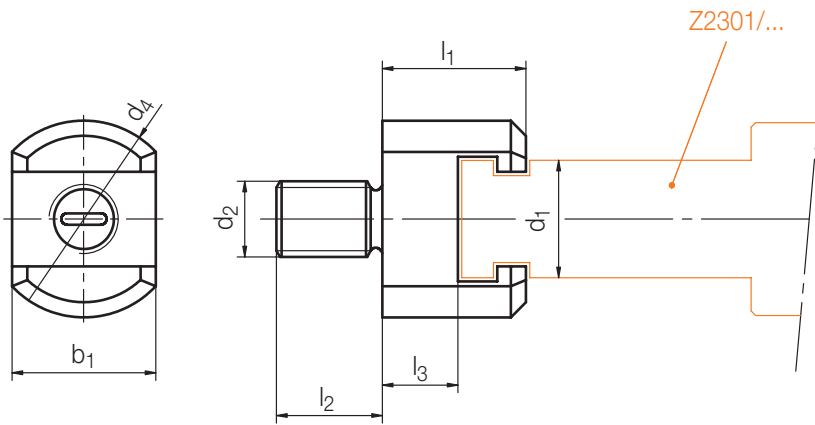
k	l ₂	l ₁	d ₅	d ₄	d ₃	d ₂	d ₁	Nr./No.
7	20	27	M48x1,5	M30x1,5	46	56	16	Z2311/16
8	22	30	M60x1,5	M40x1,5	58	68	20	20
9	25	34	M70x1,5	M48x1,5	68	80	25	25
10	29	39	M85x2	M60x1,5	82,5	98	32	32
12	37	50	M106x2	M75x1,5	103	118	42	42
13	44	60	M132x2	M95x2	129	144	50	50
14	51	70	M156x3	M110x2	152	170	60	60

09.08.12.22 002229

Z 2321/...

Adapter
Adapter
Adapteur

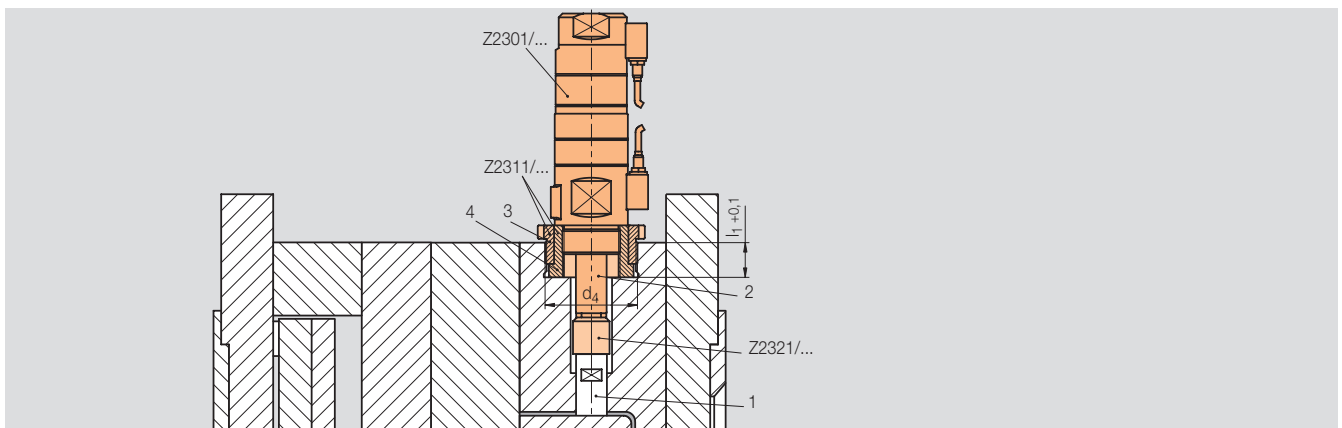
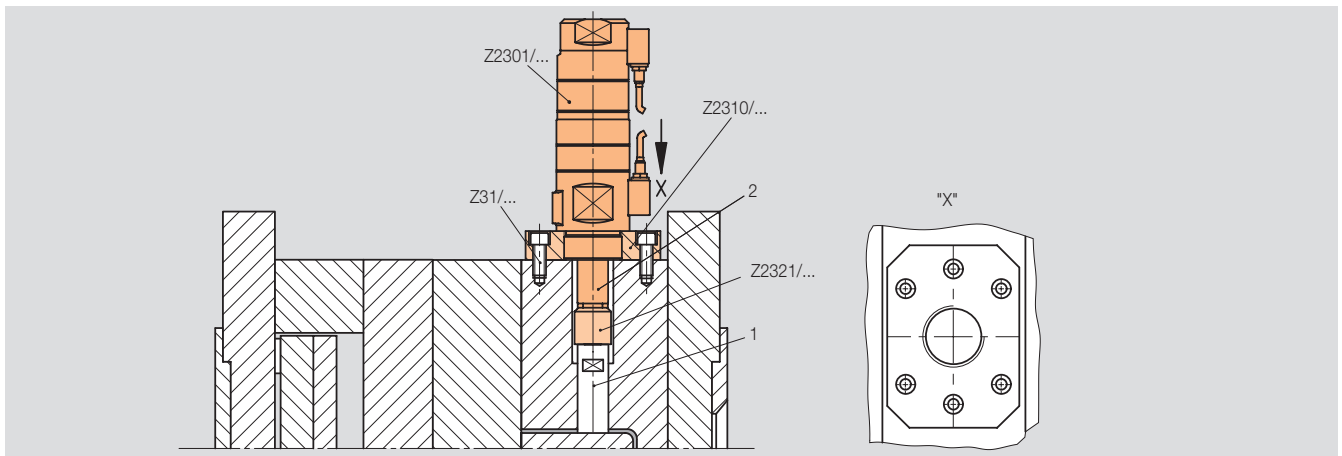
Mat.: 1.2343



Neu / New / Nouveau

b ₁	b ₃	l ₂	l ₁	d ₄	d ₂	d ₁	Nr./No.
19	10	14	19	26	M 10	16	Z 2321 / 16
23	12	16	23	32	M 12	20	20
27			26	39		25	25
34	16	20	33	48	M 16	32	32
42	20	26	40	61	M 20	42	42
49			43	72		50	50
58	24	30	48	85	M 24	60	60

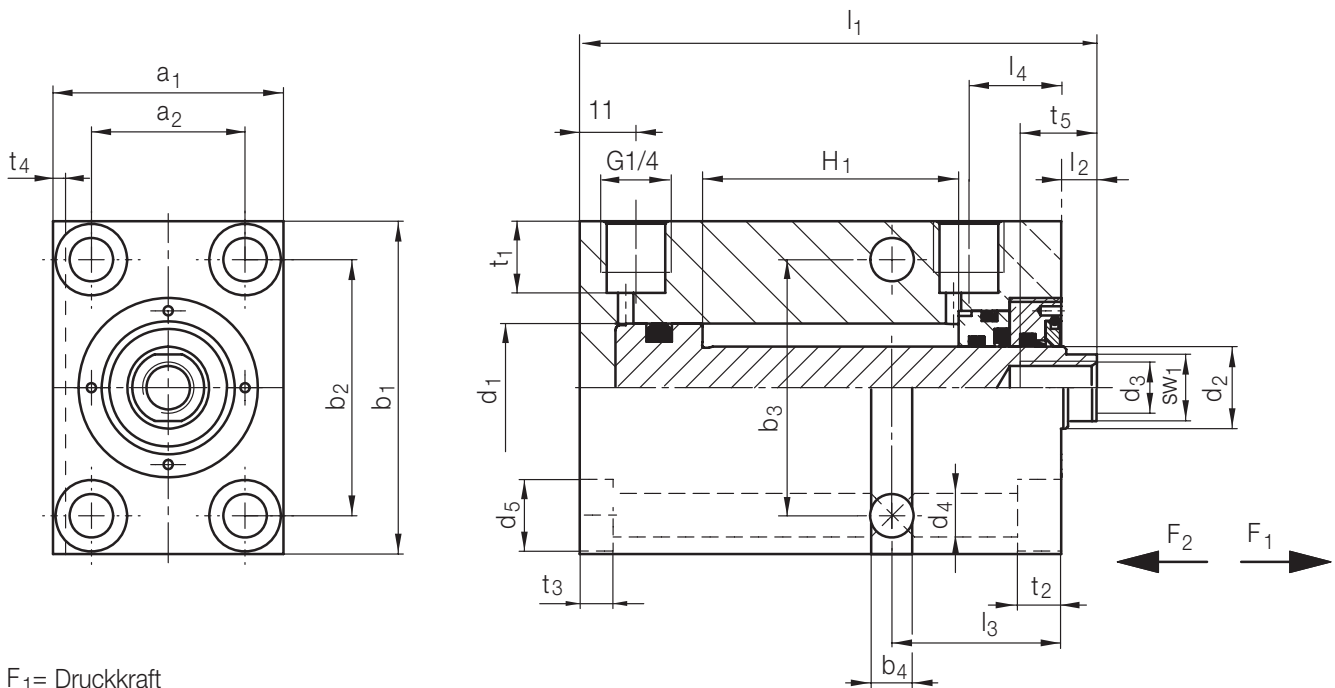
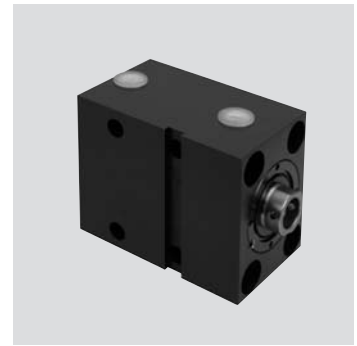
4



Z 2350/...

Blockzylinder, doppelt wirkend
Clamping cylinder, double-acting
Bloc support cylindre, double effet

Temp.: max. 150°C
P = max. 500 bar



F₁ = Druckkraft
Pressure force
Puissance de pression

F₂ = Zugkraft
Pull-back force
Puissance de rappel

Neu / New / Nouveau

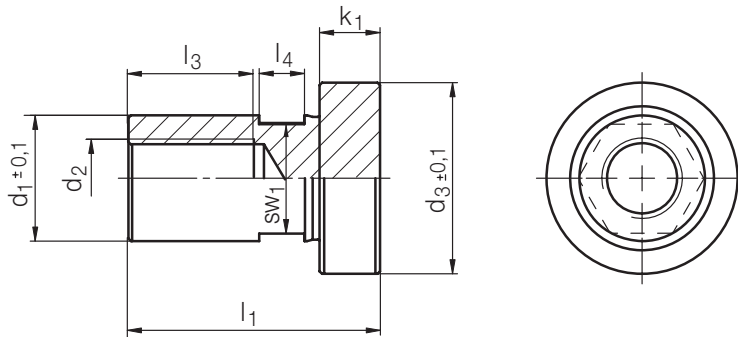
bei/at/chez 100bar [kN]																						Nr./No.			
F ₁	F ₂	sw ₁	t ₅	t ₄	t ₃	t ₂	t ₁	d ₅	d ₄	d ₃	l ₄	l ₃	l ₂	l ₁	b ₄	b ₃	b ₂	b ₁	a ₂	a ₁	d ₁	d ₂	H ₁		
2	1,2	8	15	2	4,4	6,4	14	11	6,5	M6	16,5	30	6	62	6	30	40	60	22	35	16	10	16	Z2350/16x10x 16	
														79										32	
														97										50	
4,9	2,9	13	17	2	6,4	8,6	14	14	8,5	M10	18	33	7	71	8	50	50	65	30	45	25	16	20	Z2350/25x16x 20	
														101										50	
														151										100	
12,5	7,7	22	27	3	10,6	10,6	16	18	10,5	M16	24	44	10	89	10	63	63	85	40	63	40	25	25	Z2350/40x25x 25	
														114										50	
														164										100	

09.08.12.22 002229

Z2351 / ...

Adapter
 Adapter
 Adaptateur

Mat.: 1.2343/44 + 2 HRC



Neu / New / Nouveau

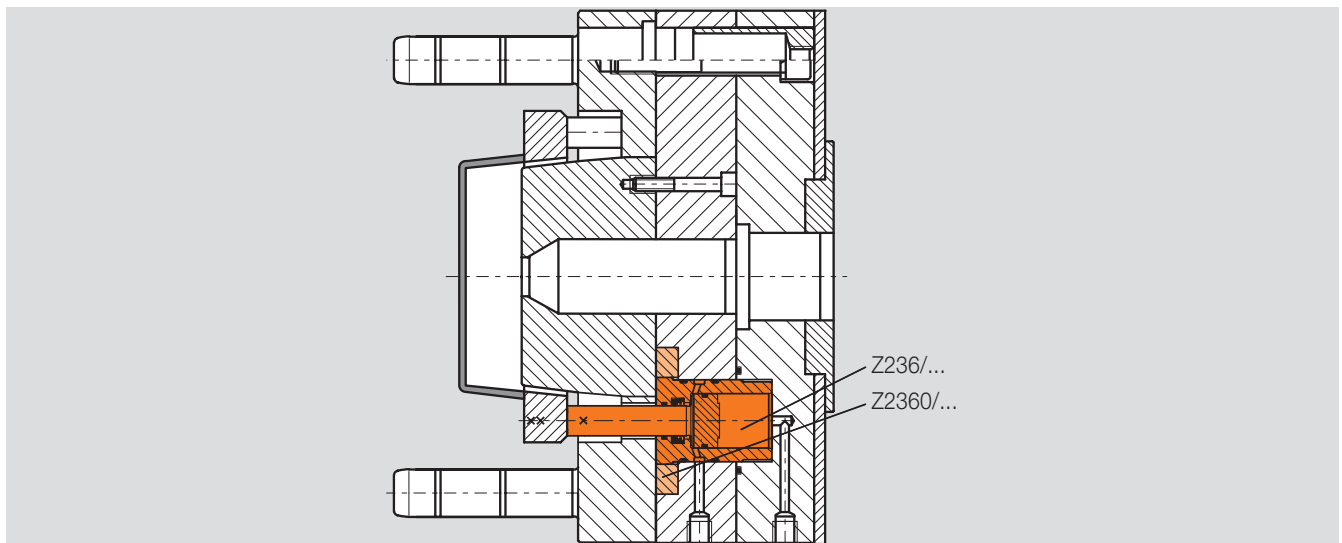
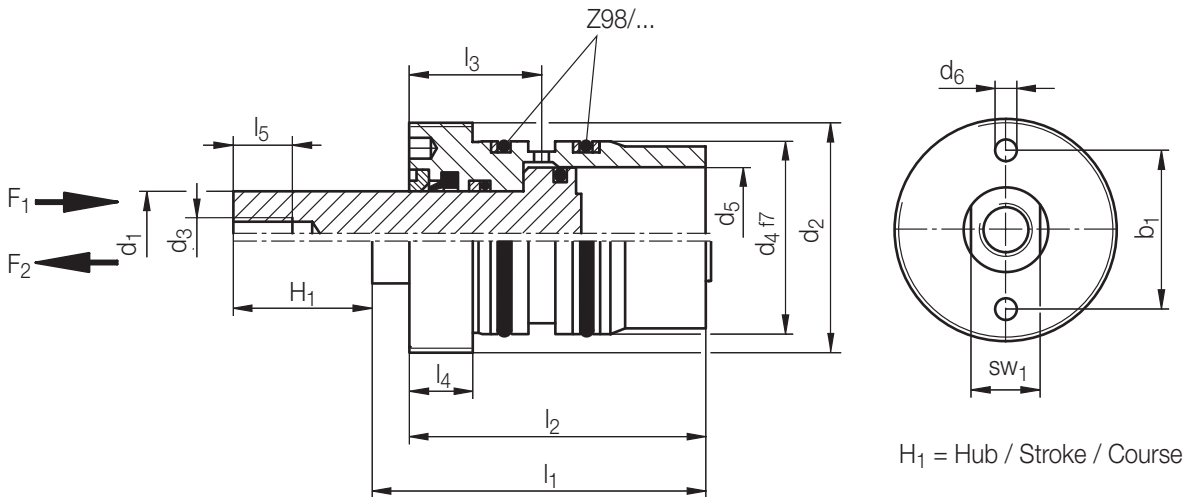
4

SW ₁	l ₄	l ₃	k ₁	d ₃	d ₂	d ₁	l ₁	Nr./No.
9	5,5	13	7	18	M6	10	30	Z2351 / 10x30
14	6,5	18	10	27	M10	16	40	16x40
22	9	25	12	38	M16	25	50	25x50

Z236/...

Kurzhubzylinder, doppeltwirkend
Short-stroke cylinder, double-acting
Vérin à faible course, double effect

max. °C: 150
max. F [bar]: 500

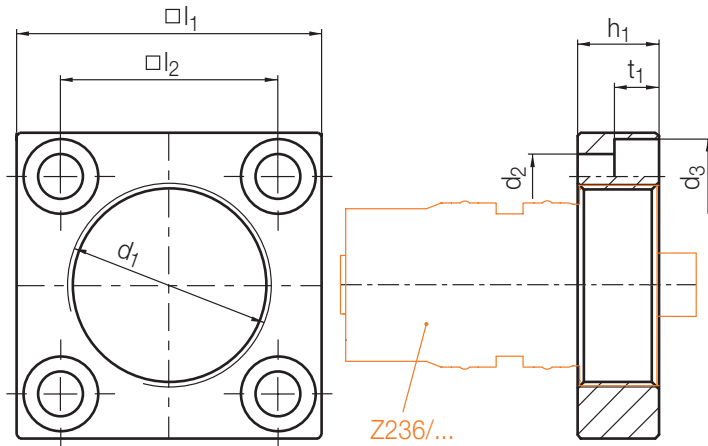


bei / at / chez 200 bar																
F ₂ [kN]	F ₁ [kN]	sw ₁	b ₁	l ₅	l ₄	l ₃	l ₂	l ₁	d ₆	d ₅	d ₄	d ₃	d ₂	d ₁	H ₁	Nr. / No.
4	2,4	8	23	15	12	24	44	50	3,5	16	22	M 6	M30 x 1,5	10	10	Z236/10x10
							50	56								16
							66	72								32
6,4	4	10	28	16		25	45	51	4,2	20	28	M 8	M 36x 1,5	12	10	Z236/12x10
							51	57								16
							67	73								32
10	5,8	13	30	17			52	59	5,2	25	35	M10	M42 x 1,5	16	16	Z236/16x16
							56	63								20
							86	93								50
16	9,8	17	40	18	14,5	28	59	69		32	45	M12	M56 x 2	20	20	Z236/20x20
							64	74								25
							89	99								50

Z 2360/...

Flansch
Flange
Bride

Mat.: 1.1191 / 800 N/mm²

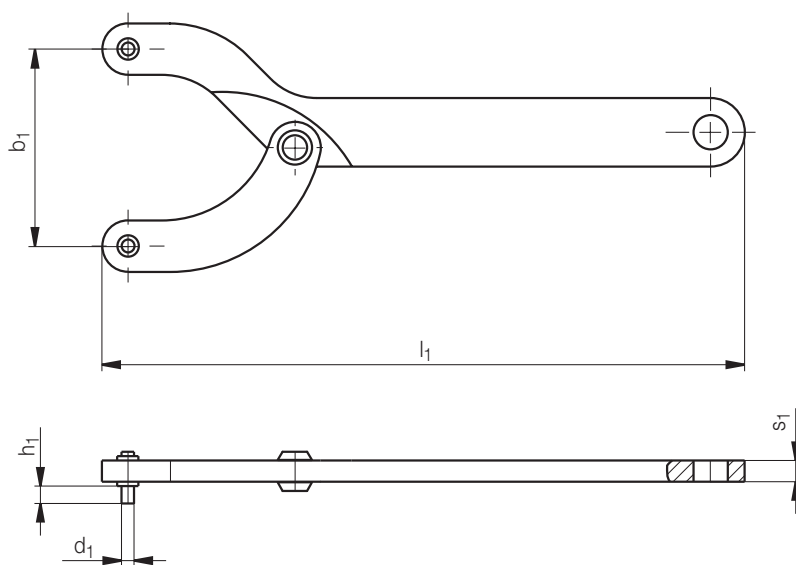


t ₁	d ₃	d ₂	h ₁	l ₂	l ₁	d ₁	Nr./No.
6,8	11	6,6	12	32	45	M 30 x 1,5	Z 2360/30 x 1,5
9	15	9		41	60	M 36 x 1,5	36 x 1,5
				45	65	M 42 x 1,5	42 x 1,5
11	18	11	14,5	57	80	M 56 x 2	56 x 2,0

4

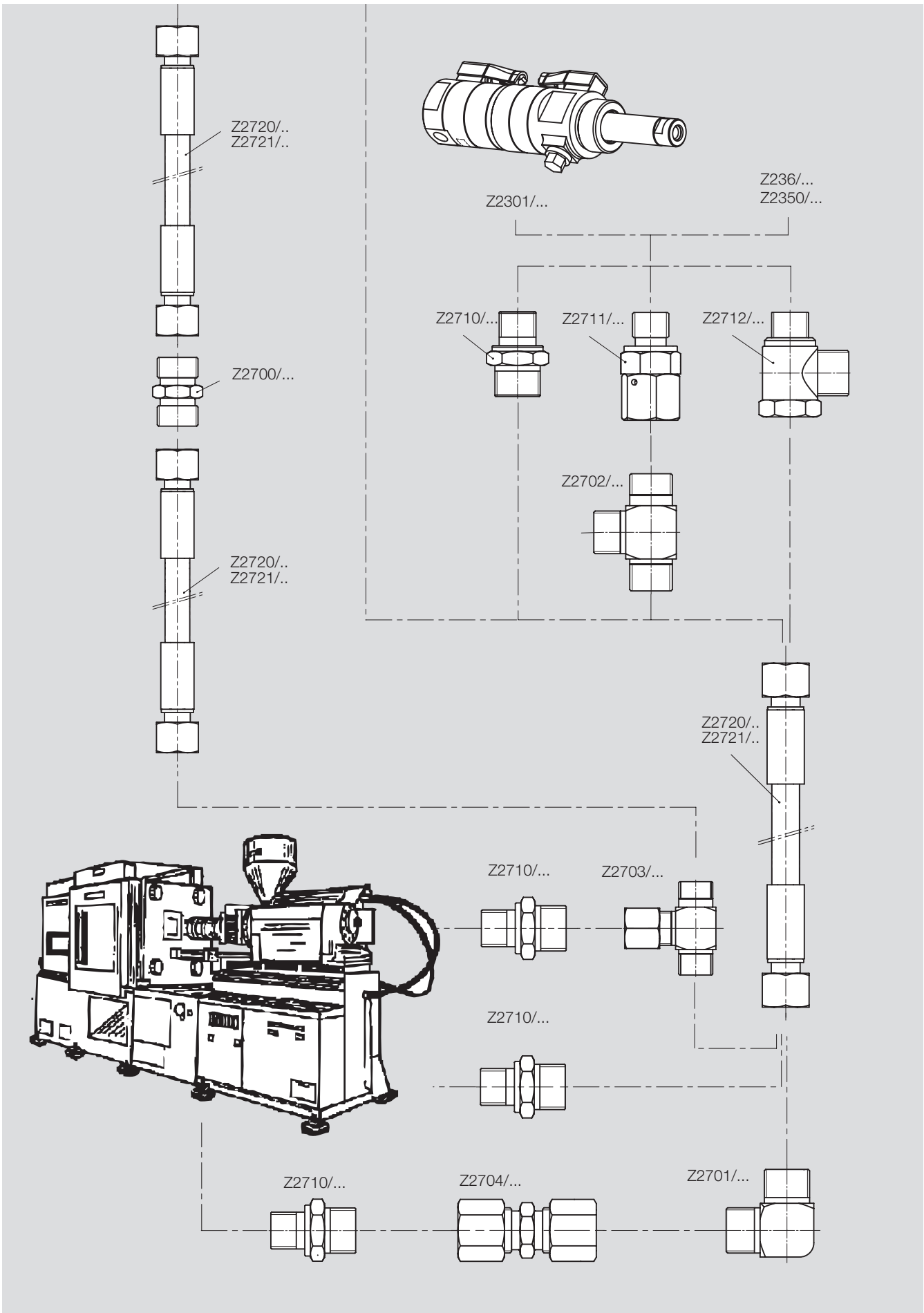
A 5085/...

Zweilochmutterndreher, verstellbar
Adjustable pin type face wrench
Clé réglable à ergots



s ₁	h ₁	b ₁	l ₁	d ₁	Nr./No.
5	4	18 - 40	150	3	A 5085/3
	5			4	4
6	6	40 - 80	220	5	5

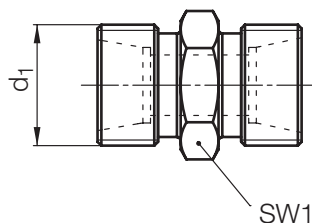
09 08 1 2 22 0022229



Z2700/...

Gerade Verschraubung
Straight pipe connector
Raccord fileté droit

Mat.: St37
DIN EN ISO 8434-1 (DIN 2353)



Neu / New / Nouveau

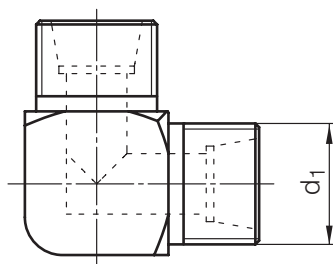
SW1	Typ	d ₁	Nr./No.
12	G06L	M 12 x 1,5	Z2700/12 x 1,5
14	G08L	M 14 x 1,5	14 x 1,5
17	G10L	M 16 x 1,5	16 x 1,5
19	G12L	M 18 x 1,5	18 x 1,5
24	G15L	M 22 x 1,5	22 x 1,5

4

Z2701/...

Winkel-Verschraubung
Elbow connector
Raccord fileté coudé

Mat.: St37
DIN EN ISO 8434-1 (DIN 2353)



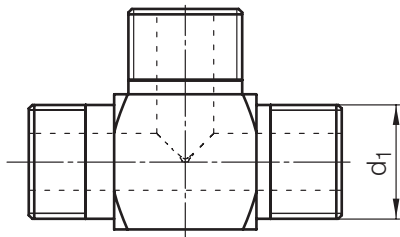
Neu / New / Nouveau

Typ	d ₁	Nr./No.
W06L	M 12 x 1,5	Z2701/12 x 1,5
W08L	M 14 x 1,5	14 x 1,5
W10L	M 16 x 1,5	16 x 1,5
W12L	M 18 x 1,5	18 x 1,5
W15L	M 22 x 1,5	22 x 1,5

Z2702/...

T-Verschraubung
T-pipe connector
Raccord fileté en T

Mat.: St37
DIN EN ISO 8434-1 (DIN 2353)



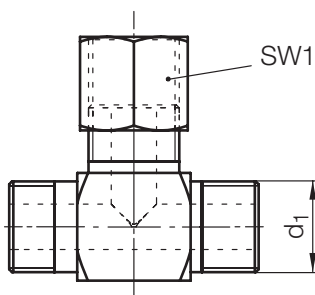
Neu / New / Nouveau

Typ	d ₁	Nr./No.
T06L	M 12 x 1,5	Z2702/12x1,5
T08L	M 14 x 1,5	14x1,5
T10L	M 16 x 1,5	16x1,5
T12L	M 18 x 1,5	18x1,5
T15L	M 22 x 1,5	22x1,5

Z2703/...

T-Verschraubung, einstellbar
T-pipe connector, adjustable
Raccord fileté en T, réglable

Mat.: St37
DIN EN ISO 8434-1 (DIN 2353)



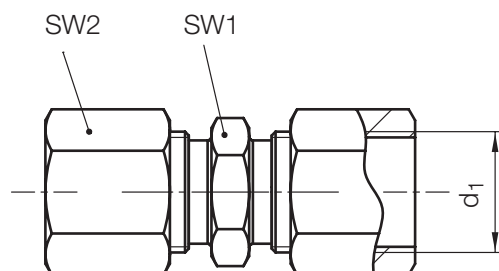
Neu / New / Nouveau

SW1	Typ	d ₁	Nr./No.
14	ET06L	M 12 x 1,5	Z2703/12x1,5
17	ET08L	M 14 x 1,5	14x1,5
19	ET10L	M 16 x 1,5	16x1,5
22	ET12L	M 18 x 1,5	18x1,5
27	ET15L	M 22 x 1,5	22x1,5

Z2704/...

Gerade Verbindung
Straight connector
Raccord fileté droit

Mat.: St37
DIN EN ISO 8434-1 (DIN 2353)



Neu / New / Nouveau

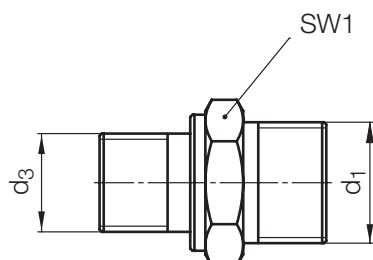
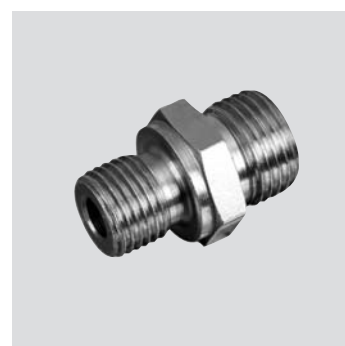
4

SW2	SW1	Typ	d ₁	Nr./No.
14	12	GZ06L	M 12 x 1,5	Z2704/12 x 1,5
17	14	GZ08L	M 14 x 1,5	14 x 1,5
19	17	GZ10L	M 16 x 1,5	16 x 1,5
22	19	GZ12L	M 18 x 1,5	18 x 1,5
27	24	GZ15L	M 22 x 1,5	22 x 1,5

Z2710/...

Gerade Einschraubverschraubung
Straight male stuck coupling
Raccord fileté droit

Mat.: St37
DIN EN ISO 8434-1 (DIN 2353)



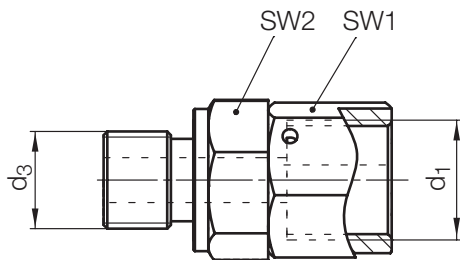
Neu / New / Nouveau

SW1	Typ	d ₁	d ₃	Nr./No.
12	GZ06LR	M 12 x 1,5	R 1/8	Z2710/12 x 1,5 x R1/8
14	GZ08LR	M 14 x 1,5	R 1/4	14 x 1,5 x R1/4
17	GZ10LR	M 16 x 1,5		16 x 1,5 x R1/4
19	GZ12LR	M 18 x 1,5	R 3/8	18 x 1,5 x R3/8
24	GZ15LR	M 22 x 1,5	R 1/2	22 x 1,5 x R1/2

Z2711/...

Gerader Aufsteckstutzen
 Straight female connector
 Raccord fileté droit de transfert

Mat.: St37
 DIN EN ISO 8434-1 (DIN 2353)



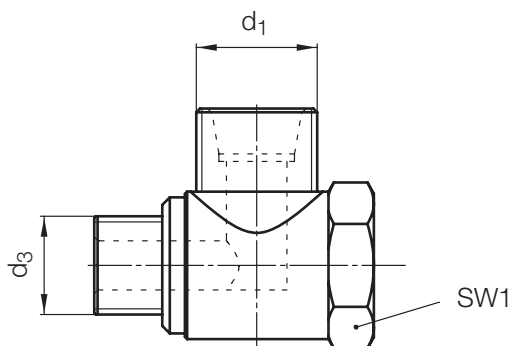
Neu / New / Nouveau

SW2	SW1	Typ	d ₁	d ₃	Nr./No.
14	14	EGE06LR	M 12 x 1,5	R 1/8	Z2711 / 12x1,5xR 1/8
19	17	EGE08LR	M 14 x 1,5	R 1/4	14x1,5xR 1/4
	19	EGE10LR	M 16 x 1,5		16x1,5xR 1/4
22	22	EGE12LR	M 18 x 1,5	R 3/8	18x1,5xR 3/8
27	27	EGE15LR	M 22 x 1,5	R 1/2	22x1,5xR 1/2

Z2712/...

Schwenkverschraubung
 Swivel fitting
 Raccord fileté de déviation

Mat.: St37
 DIN EN ISO 8434-1 (DIN 2353)



Neu / New / Nouveau

SW1	Typ	d ₁	d ₃	Nr./No.
14	SWVE06LR	M 12 x 1,5	R 1/8	Z2712 / 12x1,5xR 1/8
17	SWVE08LR	M 14 x 1,5	R 1/4	14x1,5xR 1/4
19	SWVE10LR	M 16 x 1,5		16x1,5xR 1/4
22	SWVE12LR	M 18 x 1,5	R 3/8	18x1,5xR 3/8
27	SWVE15LR	M 22 x 1,5	R 1/2	22x1,5xR 1/2

Bestellformular	Order form	Formulaire de commande
Firma / Company / Société : _____		
Zuständig / Contact / Responsable : _____		
Tel.: _____	Fax: _____	Datum / Date : _____
<input type="checkbox"/> Bestellung / Order / Commande	Nr. / No.: _____	<input type="checkbox"/> Anfrage / Quotation / Demande

Z2720 / ... / S

Hydraulikschlauch,
mit Drahtgeflechteinlage, Typ 2SC
DIN EN 857

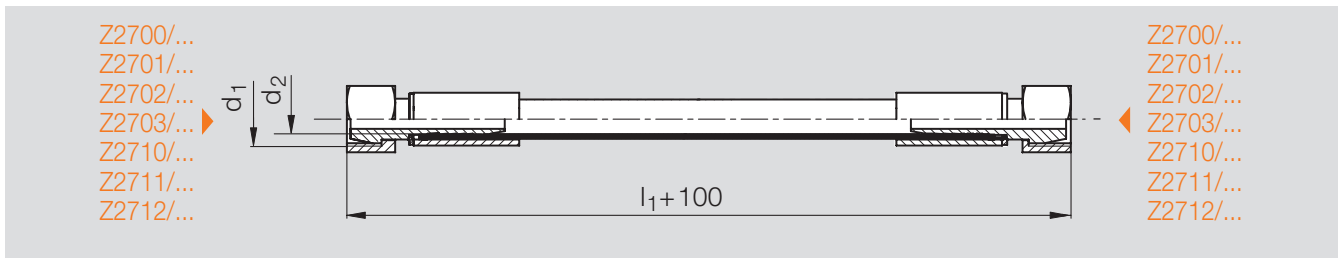
Hydraulic hose,
mesh wire reinforced, type 2SC
DIN EN 857

Tuyau hydraulique, avec armure
de grillage métallique, Type 2SC
DIN EN 857

Mat.: NBR
Temperaturbereich:
- 40 °C bis + 100 °C,
Wasser und Medien auf Wasserbasis
bis max. + 70 °C

Mat.: NBR
Temperature range:
- 40 °C up to + 100 °C,
water and water-based mediums
up to max. + 70 °C

Mat.: NBR
Gamme de température:
- 40 °C à + 100 °C,
Eau et milieus à base de l'eau
à max. + 70 °C



4

	Betriebsdruck Operating pressure Pression de service max.	Typ	d_2	d_1	Nr./No.
51	400 bar	L6	6,4	M 12 x 1,5	Z2720 / 12 x 1,5 x l_1
57	350 bar	L8	7,9	M 14 x 1,5	Z2720 / 14 x 1,5 x l_1
64	330 bar	L10	9,8	M 16 x 1,5	Z2720 / 16 x 1,5 x l_1
90	275 bar	L12	12,7	M 18 x 1,5	Z2720 / 18 x 1,5 x l_1
101	250 bar	L15	15,9	M 22 x 1,5	Z2720 / 22 x 1,5 x l_1

Neu / New / Nouveau

Bestellbeispiel:
Z2720 / 12 x 1,5 x 585 / S

Order example:
Z2720 / 12 x 1,5 x 585 / S

Order de commande:
Z2720 / 12 x 1,5 x 585 / S

Stück / Piece	Nr. / No.	d_1	l_1	S
	/	x	/	S
	/	x	/	S
	/	x	/	S
	/	x	/	S
	/	x	/	S

09 08 1 2 22 002229

Katalogwerte (Druck, Temperatur) werden von HASCO gewährleistet bei Konfektionierung durch HASCO.

List values (pressure, temperature) are guaranteed by HASCO when made to order by Hasco.

Les valeurs visées dans les catalogues (pression, température) sont garanties par HASCO en cas de confection par Hasco.

Bestellformular	Order form	Formulaire de commande
Firma / Company / Société: _____		
Zuständig / Contact / Responsable: _____		
Tel.: _____	Fax: _____	Datum / Date: _____
<input type="checkbox"/> Bestellung / Order / Commande	Nr. / No.: _____	<input type="checkbox"/> Anfrage / Quotation / Demande

Z2721 /.../S

Thermoplastschlauch,
mit Textileinlage, Typ R8
DIN EN 855

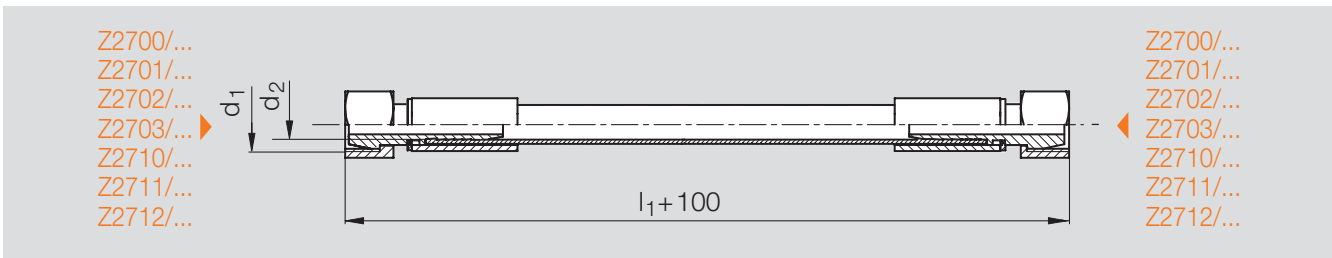
Thermoplastic hose,
textile reinforced, type R8
DIN EN 855

Tuyau thermoplastique,
avec armure textile, Type R8
DIN EN 855

Mat.: Polyester (Hytrel)
Temperaturbereich:
- 40 °C bis + 100 °C
Luft, Wasser und Medien auf
Wasserbasis bis max. + 65 °C

Mat.: Polyester (Hytrel)
Temperature range:
- 40 °C up to + 100 °C,
air, water and water-based mediums
up to max. + 65 °C

Mat.: Polyester (Hytrel)
Gamme de température:
- 40 °C à + 100 °C,
Air, eau et milieus à base de l'eau
à max. + 65 °C



	Betriebsdruck Operating pressure Pression de service max.	Typ	d ₂	d ₁	Nr./No.
30	345 bar	L6	6,5	M 12 x 1,5	Z2721 / 12 x 1,5 x l ₁
45	300 bar	L8	8,1	M 14 x 1,5	Z2721 / 14 x 1,5 x l ₁
55	275 bar	L10	9,7	M 16 x 1,5	Z2721 / 16 x 1,5 x l ₁
75	241 bar	L12	13,1	M 18 x 1,5	Z2721 / 18 x 1,5 x l ₁

Neu / New / Nouveau

Bestellbeispiel:
Z2721 / 12 x 1,5 x 585 / S

Order example:
Z2721 / 12 x 1,5 x 585 / S

Order de commande:
Z2721 / 12 x 1,5 x 585 / S

Stück / Piece	Nr./No.	d ₁	l ₁	S
	/		x	/ S
	/		x	/ S
	/		x	/ S
	/		x	/ S
	/		x	/ S

Katalogwerte (Druck, Temperatur)
werden von HASCO gewährleistet bei
Konfektionierung durch HASCO.

List values (pressure, temperature) are
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par HASCO en cas de confection par
Hasco.

Bestellformular	Order form	Formulaire de commande
Firma / Company / Société : _____		
Zuständig / Contact / Responsable : _____		
Tel.: _____	Fax: _____	Datum / Date : _____
<input type="checkbox"/> Bestellung / Order / Commande	Nr. / No.: _____	<input type="checkbox"/> Anfrage / Quotation / Demande

Z 3600 / ... / S

Einfallkern

Sonderanfertigung, welche speziell für Ihren individuellen Artikel konstruiert wird

Beispiele



Collapsible core

Special production that is designed for your individual articles

Examples



Noyau éclipseable

Dispositif sur mesure conçu spécialement pour vos produits individuels

Exemples



Wir benötigen von Ihnen folgende Angaben:

- Anzahl der benötigten Kerne
- Zu verarbeitender Kunststoff
- Schwindung des Kunststoffes (wenn möglich sollte uns das Datenblatt des Kunststoffes zur Verfügung gestellt werden).
- CAD-Konstruktionsdaten Ihres Artikels

Please supply the following information:

- Quantity of cores required
- Type of plastic to be processed
- Shrinkage of the plastic (where possible, please provide us with a copy of the specifications sheet for the plastic).
- CAD design data for your article

Nous avons besoins des indications suivantes :

- Nombre de noyaux requis
- Matière synthétique à usiner
- Retrait de la matière synthétique (si possible, nous vous prions de nous communiquer la fiche technique de la matière synthétique).
- Informations CAD concernant la construction de votre produit

⚠ Beachten:

Für Ihre speziellen Anwendungsfälle steht Ihnen die HASCO Anwendungstechnik zur Verfügung (technik@hasco.com).

⚠ Caution:

HASCO application technology is available to assist you with your special applications (technik@hasco.com).

⚠ Remarque:

La technique d'application de HASCO peut être mise à disposition pour vos cas particuliers (technik@hasco.com).

Z 3600 /.../S

Artikelbeispiele
 Examples of articles
 Exemples d'articles

