

AZ



Anzugbolzen Pull Studs

Anwendung

Anzugbolzen sind zum Einschrauben in Steilkegelwerkzeugschäfte, Werkstückträger und Paletten bestimmt. In Verbindung mit SSK-Spannsätzen dienen sie zum Einziehen und Ausstoßen der vorgenannten Maschinenelemente.

Konstruktionsmerkmale

AZB - Anzugbolzen entsprechen in den Abmessungen, Oberflächen-
güten, Härte- und Festigkeitswerten den in den DIN, ANSI, ISO,
MAS und JIS - Normen festgelegten Werten.

Kurzzeichen

F_{Smax} kN Spannkraft

Bestellbeispiel

AZB 40DIN

Lieferumfang

Anzugbolzen nach Datenblatt

Anmerkung

Für maschinenspezifische Anwendungen stehen Sonderausführungen zur Verfügung.

Application

Retention knobs are designed for screwing into steep taper tool shanks, workpiece holders and pallets. In conjunction with SSK grippers they are intended for drawing in and ejecting the above mentioned machine elements.

Design features

AZB retention knobs correspond to the values prescribed in the DIN, ANSI, ISO, MAS and JIS standards with regards to their dimensions, surface quality, hardness and strength values.

Abbreviation

F_{Smax} kN Clamping force

Ordering example

AZB 40DIN

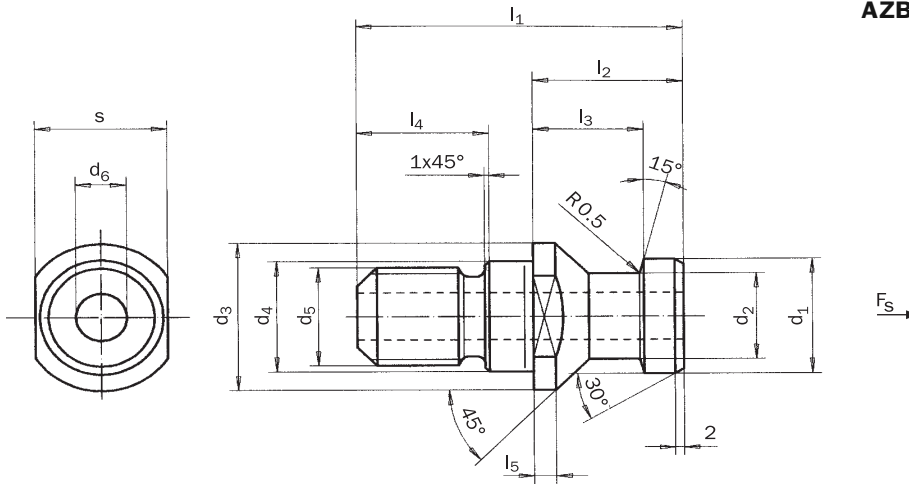
Delivery scope

Retention knob as per data sheet

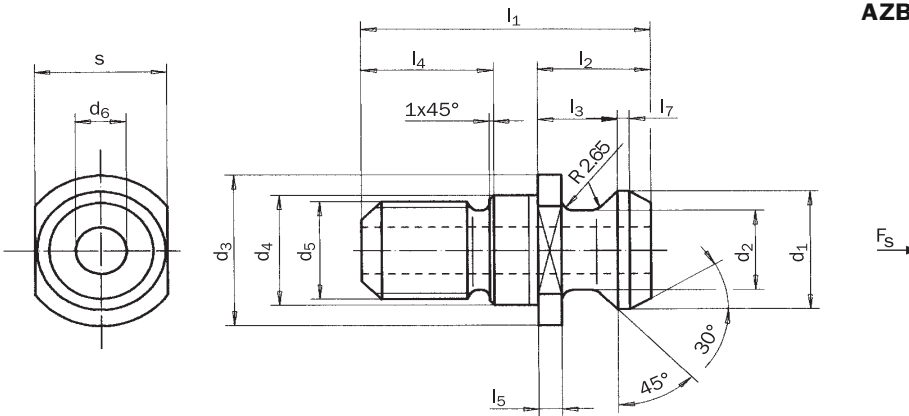
Comment

Special designs are available for machine specific applications.

AZB ..DIN



AZB ..ISO-B



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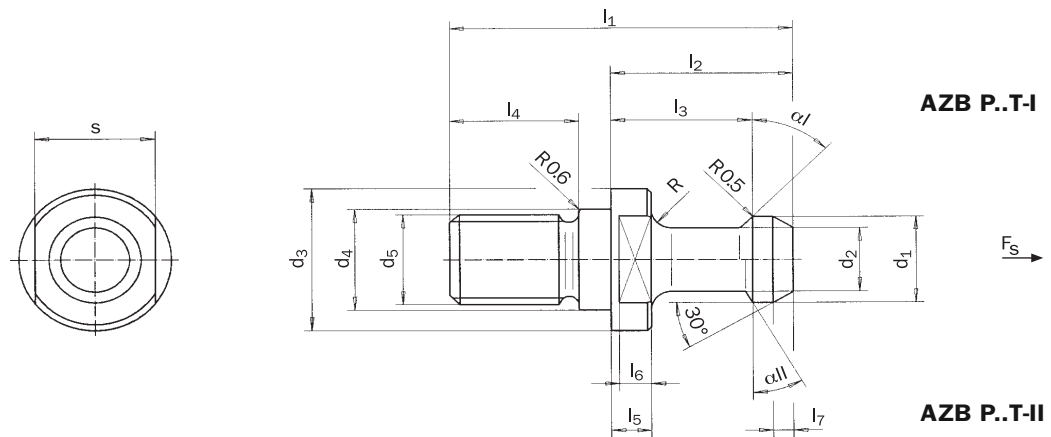
Maße | Technische Daten
Dimensions | Technical Data

Typ Type	d_1 - 0,1	d_2 - 0,1	d_3 - 0,2	d_4 g6	d_5	d_6 + 0,1	l_1	l_2 $\pm 0,1$	l_3 $\pm 0,1$	l_4	l_5	S - 0,1	$F_{S \max}$ kN
AZB 30/1 DIN	13	9	17	13	M 12	-	44	24	19	15	4	14	10
AZB 40 DIN	19	14	23	17	M 16	7,0	54	26	20	21	4	19	18
AZB 45 DIN	23	17	30	21	M 20	9,5	65	30	23	27	5	24	25
AZB 50 DIN	28	21	36	25	M 24	11,5	74	34	25	30	5	30	35
AZB 60/1 DIN	40	30	52	32	M 30	14,0	90	40	30	37	6	46	70

Maße | Technische Daten
Dimensions | Technical Data

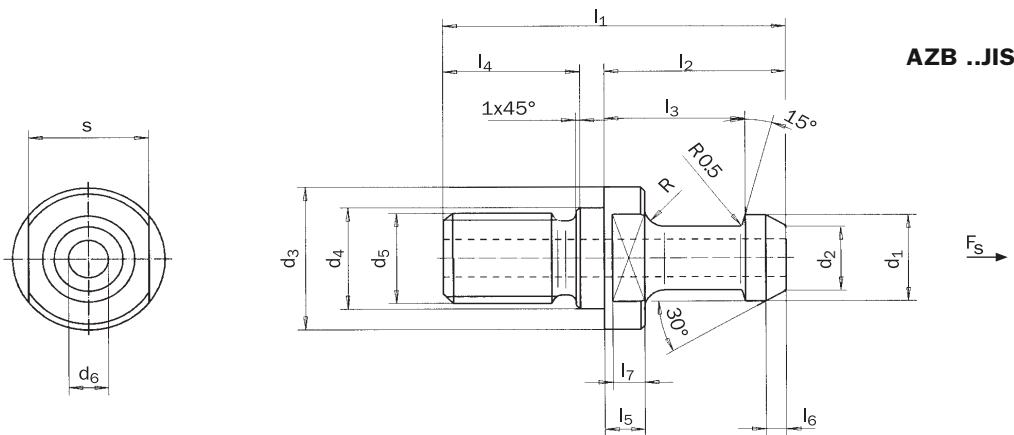
Typ Type	d_1 0 - 0,3	d_2 0 - 0,3	d_3	d_4 h6	d_5	d_6	l_1	l_2 0 - 0,3	l_3 - 0,3	l_4	l_5 0 - 0,5	l_7 0 - 0,5	S	$F_{S \max}$ kN
AZB 30 ISO-B	13,35	9,3	17 - 0,5	13	M 12	4,00	34,0	11,80	8,15	17,20	2,75	1,25	14 - 0,27	10
AZB 40 ISO-B	18,95	12,95	22,5 - 1	17	M 16	7,35	44,5	16,40	11,15	21,10	3,25	1,75	18 - 0,33	18
AZB 45 ISO-B	24,05	16,30	30,0 - 1	21	M 20	9,25	56,0	20,95	14,85	27,05	4,25	2,25	24 - 0,39	25
AZB 50 ISO-B	29,10	19,60	37,0 - 1	25	M 24	11,55	65,5	25,55	17,95	29,95	5,25	2,75	30 - 0,65	35
AZB 60/1 ISO-B	37,25	24,95	50,0 - 2	32	M 30	14,00	88,0	38,15	27,65	37,00	7,75	3,75	36 - 0,75	70

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Maße | Technische Daten Dimensions | Technical Data

Typ Type	α $\pm 15^\circ$	d_1 - 0,1	d_2 - 0,1	d_3 - 0,2	d_4 h7	d_5	l_1	l_2 - 0,1	l_3 - 0,1	l_4	l_5 - 0,1	l_6	l_7	R	S - 0,35	$F_{S \max}$ kN
AZB P30T-I	45°	11	7,0	16,5	12,5	M 12	43	23	18,0	16	5	3,5	2,5	2	13	10
AZB P30T-II	30°	11	7,0	16,5	12,5	M 12	43	23	18,0	16	5	3,5	2,5	2	13	10
AZB P35T-I	45°	13	8,5	20,0	12,5	M 12	48	28	22,5	16	5	3,5	2,5	2	17	12
AZB P35T-II	30°	13	8,5	20,0	12,5	M 12	48	28	22,5	16	5	3,5	2,5	2	17	12
AZB P40T-I	45°	15	10,0	23,0	17,0	M 16	60	35	28,0	20	6	4,0	4,0	3	19	18
AZB P40T-II	30°	15	10,0	23,0	17,0	M 16	60	35	28,0	20	6	4,0	4,0	3	19	18
AZB P45T-I	45°	19	14,0	31,0	21,0	M 20	70	40	31,0	24	8	6,0	5,0	4	24	25
AZB P45T-II	30°	19	14,0	31,0	21,0	M 20	70	40	31,0	24	8	6,0	5,0	4	24	25
AZB P50T-I	45°	23	17,0	38,0	25,0	M 24	85	45	35,0	32	10	8,0	5,0	5	30	35
AZB P50T-II	30°	23	17,0	38,0	25,0	M 24	85	45	35,0	32	10	8,0	5,0	5	30	35
AZB P55T-I	45°	32	24,0	48,0	31,0	M 30	115	65	53,0	40	14	11,0	7,0	5	41	50
AZB P55T-II	30°	32	24,0	48,0	31,0	M 30	115	65	53,0	40	14	11,0	7,0	5	41	50
AZB P60T-I	45°	32	24,0	56,0	31,0	M 30	115	65	53,0	40	14	11,0	7,0	5	46	70
AZB P60T-II	30°	32	24,0	56,0	31,0	M 30	115	65	53,0	40	14	11,0	7,0	5	46	70



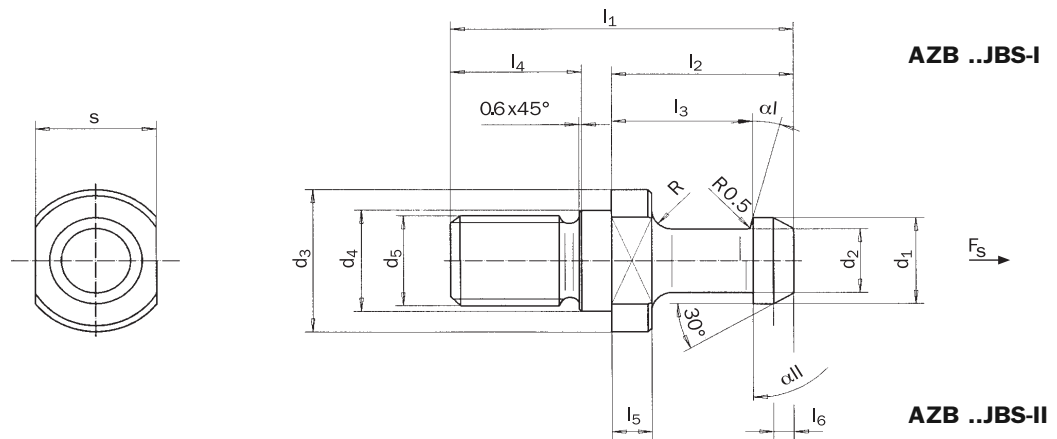
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Maße | Technische Daten
Dimensions | Technical Data

Typ Type	d ₁ - 0,1	d ₂ - 0,1	d ₃ - 0,2	d ₄ h7	d ₅	d ₆	l ₁	l ₂ - 0,1	l ₃ - 0,1	l ₄	l ₅ - 0,1	l ₆	l ₇	R	S - 0,35	F _{S max} kN
AZB 30JIS	12	8	16,5	12,5	M 12	4,0	43	23,4	18,4	15,6	5	2	3,5	2	13	10
AZB 35JIS	15	11	20,0	12,5	M 12	5,0	44	24,0	19,0	16,0	5	2	3,5	2	17	12
AZB 40JIS	19	14	23,0	17,0	M 16	7,0	54	29,0	23,0	20,0	7	3	5,0	3	19	18
AZB 45JIS	23	17	31,0	21,0	M 20	8,5	60	30,0	23,0	24,0	7	3	5,0	4	24	25
AZB 50JIS	28	21	38,0	25,0	M 24	10,0	74	34,0	25,0	32,0	7	4	5,0	5	30	35
AZB 55JIS	36	27	48,0	31,0	M 30	12,0	98	48,0	36,0	40,0	11	5	8,0	5	41	70
AZB 60JIS	36	27	48,0	31,0	M 30	12,0	98	48,0	36,0	40,0	11	5	8,0	5	41	70

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Maße | Technische Daten
Dimensions | Technical Data

Typ Type	α	d_1 - 0,1	d_2 - 0,1	d_3 - 0,2	d_4 - 0,025	d_5	l_1	l_2 - 0,1	l_3 - 0,1	l_4	l_5	l_6	R	S - 0,1	$F_{S \max}$ kN
AZB 10JBS-I	15°	6,0	4	8,5	5,5	M 5	20	10,5	7,5	7,5	2,0	1,7	1,0	7	1,2
AZB 10JBS-II	0°	6,0	4	8,5	5,5	M 5	20	10,5	7,5	7,5	2,0	1,7	1,0	7	1,2
AZB 15JBS-I	15°	7,0	5	10,0	7,0	M 6	23	12,0	8,5	9,0	3,0	2,0	1,2	9	1,7
AZB 15JBS-II	0°	7,0	5	10,0	7,0	M 6	23	12,0	8,5	9,0	3,0	2,0	1,2	9	1,7
AZB 20JBS-I	15°	8,5	6	11,0	7,0	M 6	25	14,0	10,0	9,0	3,5	2,2	1,2	9	3,0
AZB 20JBS-II	0°	8,5	6	11,0	7,0	M 6	25	14,0	10,0	9,0	3,5	2,2	1,2	9	3,0
AZB 25JBS-I	15°	10,0	7	12,0	9,0	M 8	28	16,0	11,5	10,0	3,5	2,5	1,6	10	4,0
AZB 25JBS-II	0°	10,0	7	12,0	9,0	M 8	28	16,0	11,5	10,0	3,5	2,5	1,6	10	4,0