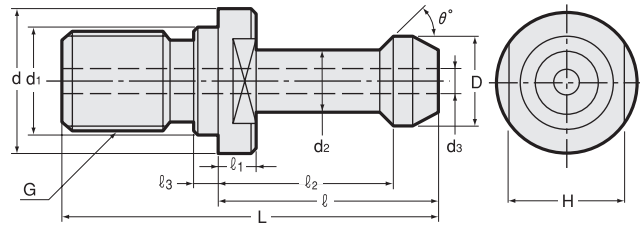
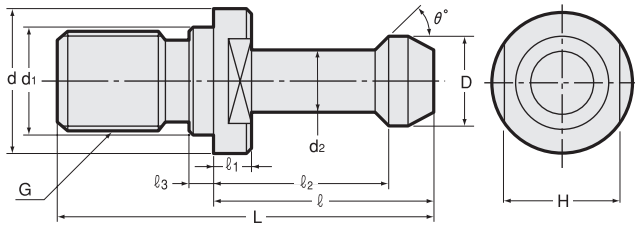
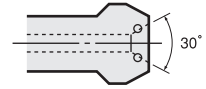


Retention Stud

Center- thru noncompliant

Center- thru compliant

PSB-25



Metric Sizes

Unit : Metric

Code	Model	Shank	Standard	Center-thru	D ₀ ^{-0.1}	d	d1 _{h7}	d2 ₀ ^{-0.1}	L	ℓ	ℓ1	ℓ2 ₀ ^{-0.1}	ℓ3	H	G	θ°	d3
0754 0000000	PSB -0	BT30	MAS-1	—	11	16.5	12.5	7	43	23	5	18	4	13	M12	45°	—
0754 00000100	PSB -0A	BT30	MAS-2	—	11	16.5	12.5	7	43	23	5	18	4	13	M12	60°	—
0754 00000001	PSB -1	—	—	—	13.7	20	13	8.9	53	28	5	22.5	5	17	M12	60°	—
0754 00000002	PSB -2	BT30	—	—	10	18	13	7	43	25	5	20	3	14	M12	45°	—
0754 00000302	PSB -2M	BT35	MAS-1	—	13	20	12.5	8.5	48	28	5	22.5	4	17	M12	45°	—
0754 00000003	PSB -3	BT40	MAS-1	—	15	23	17	10	60	35	6	28	5	19	M16	45°	—
0754 00000004	PSB -4	BT40	MAS-2	—	15	23	17	10	60	35	6	28	5	19	M16	60°	—
0754 00000005	PSB -5	BT45	MAS-1	—	19	31	21	14	70	40	8	31	6	24	M20	45°	—
0754 00000007	PSB -7	BT50	MAS-1	—	23	38	25	17	85	45	10	35	8	30	M24	45°	—
0754 00000008	PSB -8	BT50	MAS-2	—	23	38	25	17	85	45	10	35	8	30	M24	60°	—
0754 00000009	PSB -9	BT40	—	—	15	23	17	10	54.6	30	5	23	5	19	M16	90°	—
0754 00000010	PSB -10	BT40	—	—	15	23	17	10	50	25	5	18	5	19	M16	90°	—
0754 00000011	PSB -11	BT40	—	—	15	23	17	10	60	35	6	28	5	19	M16	90°	—
0754 00000013	PSB -13	BT50	—	—	25	39	25	18	95	55	29	45.5	8	30	M24	60°	—
0754 00000014	PSB -14	BT50	—	—	23	38	25	17	85	45	7.5	35	8	30	M24	90°	—
0754 00000015	PSB -15	BT50	—	—	22	38	25	17	111	73	37	63	5	30	M24	45°	—
0754 00000016	PSB -16	BT50	—	—	21	39	25	15	105	63	29	55	5	30	M24	45°	—
0754 00000017	PSB -17	BT50	—	—	24	36	25	18	71	31	5	23	8	30	M24	90°	—
0754 00000018	PSB -18	BT50	—	—	22	38	25	16	112	72	35	61	6	30	M24	60°	—
0754 00000019	PSB -19	BT50	—	—	23	38	25	17	85	45	10	35	8	30	M24	90°	—
0754 00000022	PSB -22	BT50	—	—	23	39.6	25	18	104	64	30	56	8	29	M24	4R	—
0754 00000023	PSB -23	BT40	—	○	18.8	22	17	12.5	44.1	19.1	3	14	5	19	M16	45°	7
0754 00000024	PSB -24	BT50	—	○	29	37	25	20.9	65.2	25.2	5	17.6	8	30	M24	45°	10
0754 00000025	PSB -25	BT40	—	○	19	23	17	14	54	29	4	23	7	19	M16	75°	7
0754 00000026	PSB -26	BT30	—	○	11	16.5	12.5	7.5	43	23	5	18	4	13	M12	60°	2.5
0754 10000000	PSB -0-CH	BT30	MAS-1	○	11	16.5	12.5	7	43	23	5	18	5.5	13	M12	45°	2.5
0754 10000100	PSB -0A-CH	BT30	MAS-2	○	11	16.5	12.5	7	43	23	5	18	5.5	13	M12	60°	2.5
0754 10000401	PSB -1T	BT30	—	○	11	16.5	12.5	8	43	23	5	18	5.5	13	M12	45°	4
0754 10000003	PSB -3-CH	BT40	MAS-1	○	15	23	17	10	60	35	6	28	7	19	M16	45°	4
0754 10000004	PSB -4-CH	BT40	MAS-2	○	15	23	17	10	60	35	6	28	7	19	M16	60°	4
0754 10000007	PSB -7-CH	BT50	MAS-1	○	23	38	25	17	85	45	10	35	10	30	M24	45°	6
0754 10000008	PSB -8-CH	BT50	MAS-2	○	23	38	25	17	85	45	10	35	10	30	M24	60°	6
0754 00000030	PSB -30P	BT30	JIS-30P	○	12	16.5	12.5	8	43	23.4	5	18.4	6	13	M12	75°	4
0754 00000040	PSB -40P	BT40	JIS-40P	○	19	23	17	14	54	29	7	23	7	19	M16	75°	7
0754 00000050	PSB -50P	BT50	JIS-50P	○	28	38	25	21	74	34	7	25	10	30	M24	75°	10

Retention Stud Selection Table

1. This selection table describes standard retention studs for each of standard machines. Please check operation manual of machines to select appropriate type of the retention studs.
 2. Take note that our center through coolant retention stud may not be used on certain M/C because of specifications.

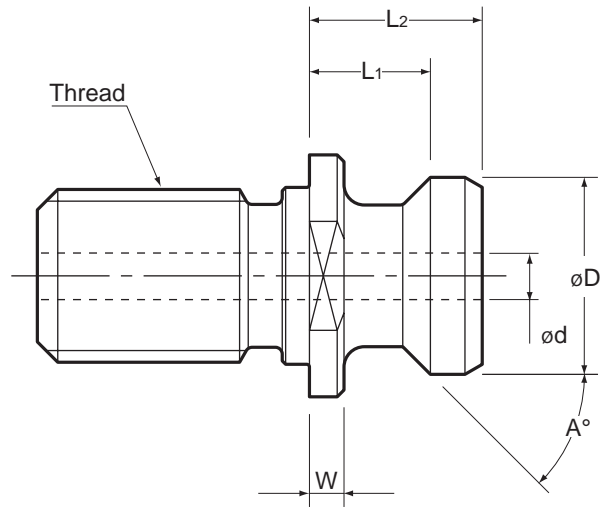
Machine Tool Maker	M/C Model	BT	Center Through Coolant	PSB
IKEGAI	TV4, TH500	BT40	No	PSB-3
	TVU400, THU500	BT40	Yes	PSB-40P
	TV5, TH600, TVU5, THU600, NB110T, NB130T	BT50	No	PSB-7
ENSHU	JE Series, E130, ES400, EV360	BT30	No	PSB-0A
	JE Series, E130, ES400, EV360	BT30	Yes	PSB-0A -CH
	JE Series, EV Series, ES450	BT40	No	PSB-4
	JE Series, EV Series, ES450	BT40	Yes	PSB-4 -CH
	JE Series, EV Series	BT50	No	PSB-8
	JE Series, EV Series	BT50	Yes	PSB-8 -CH
OKUMA	MU Series, MA-400H, MB Series	BT40	Yes	PSB-4 -CH
	MILLAC Series	BT40	Yes	PSB-3 -CH
	MA Series, MB Series, MCR Series, MCM-B, MCV-AII, MILLACSeries	BT50	Yes	PSB-8 -CH
	MU Series, MA-400H, MB Series	BT40	No	PSB-4
	MILLAC Series	BT40	No	PSB-3
OKK	MA Series, MB Series, MCR Series, MCM-B, MCV-AII, MILLACSeries	BT50	No	PSB-8
	PM Series, HM Series, PG-8, 5AX Series, VM Series, VP Series, GR, VC51, VB53	BT40	No	PSB-3
	MCV1260, HM Series, HCM1000II, 5AX Series, VPSeries	BT50	No	PSB-19
	PM Series, HM Series, 5AX Series, GC Series, VC51, VB53	BT40	Yes	PSB-3 -CH
	HM Series, 5AX Series	BT50	Yes	Custom sizes available
KITAMURA	Mycenter Series, Nano Mycenter	BT30	No	PSB-0
	Mycenter Series	BT30	Yes	PSB-30P
	Mycenter Series	BT40	Yes	PSB-40P
	Mycenter Series, BRIDGE center, HX500i, HX630i, H500	BT50	Yes	PSB-50P
KIRA	PC Series, KPC Series, HPC30Vb	BT30	No	PSB-0
	PC Series, KPC Series, HPC30Vb(Center Through Coolant model)	BT30	Yes	PSB-0-CH
	KN Series, VTC Series, PC-40b	BT40	No	PSB-3
	KN Series, VTC Series, PC-40b(Center Through Coolant model)	BT40	Yes	PSB-3-CH
KIWA	V21 Series, V41 Series, KH-45, KH-41, KNH400/426, KCW-10V	BT40	Yes	PSB-40P
	D433 Series, EX Series, PX Series, PMM40, AD-8	BT40	No	PSB-3
	D433 Series, EX Series, PX Series, PMM40, AD-8	BT40	Yes	PSB-3 -CH
	KH-55	BT50	Yes	PSB-50P
KURAKI	KBT, KBF, KBM, KBH, KGD, CMN, KMP	BT50	No	PSB-7
SHIZUOKA	CM-210G	BT30	No	PSB-0
	B Series, CM-350G	BT40	No	PSB-11
	BSeries	BT50	No	PSB-19
SNK	CMV Series	BT40	No	PSB-4
	CMV Series, DC Series, HF Series, PC Series, RB Series, AIC Series, MAC Series	BT50	No	PSB-8
	FSP Series, HPS Series, PARTE	BT50	No	PSB-8
SUGINO	NSV-1555, SCV-1555, SCV-611, SCH Series	BT30	No	PSB-0A
TAKISAWA	MAC-V40 / Y520	BT40	Yes	PSB-40P
	MAC-V1E / 430VP	BT40	No	PSB-3
TSUGAMI	VMA3-III, VML3-III, VMC3-III, VA32A	BT30	No	PSB-0
	VMA4-III, VLA4-III, FMA3-III, FMA5-III	BT40	No	PSB-3
	VMT4-III, VLT4-III	BT40	Yes	PSB-40P
TOSHIBA	BF, BMC, BTD, BTF Series, BTU-14, VMC-7, NX-630, BTH Series	BT50	No	PSB-7
TOYOSK	TVT Series, THMC Series, TVMC310	BT30	No	PSB-0A
	H46, THMC410	BT40	No	PSB-3
	H46, THMC410	BT40	Yes	PSB-3 -CH
JTEKT	FV Series, UXSeries	BT40	No	PSB-3
	FV Series, RBSeries, SBSeries	BT50	No	PSB-7
	FV Series	BT40	Yes	PSB-3-CH
	FV Series	BT50	Yes	PSB-7-CH
	FHSeries	BT40	No	PSB-3 or PSB-10
	FHSeries	BT40	Yes	PSB-40P
	FHSeries, FA Series	BT50	No	PSB-7 or PSB-17
FHSeries, FA Series	BT50	Yes	PSB-50P	
NIIGATA	HNSeries(Standard model), ULTYSeries (Standard model)	BT50	No	PSB-8
Nishida Machine	HFA3, HLB3, HS-2A, HLA3S, VFR3	BT30	No	PSB-0
	HA40, HFB-4A, HLB-4A, HFA4, HAB4, HFB4	BT40	No	PSB-3
	HFA5, HFB5, HS Series	BT50	No	PSB-8
	HFA3, HLB3, HS-2A, HLA3S, VFR3	BT30	Yes	PSB-0-CH
	HA40, HFB-4A, HLB-4A, HFA4, HAB4, HFB4	BT40	Yes	PSB-3 -CH
	HFA5, HFB5, HS Series	BT50	Yes	PSB-8-CH

BT
 CAT
 AHO
 HSK-A/E/F/C
 HSK-T
 UTS
 Specialized Machine
 Related Equipment
 Bush & Chamfering Drill
 Milling Chuck
 Collet Holder
 "R" Zero Holder
 Hydraulic Chuck
 Shrink Fit
 Tapping Chuck
 Arbors
 Function Holder
 Turning Tool
 Retention Stud
 Tool Shank Dimensions



Machine Tool Maker	M/C Model	BT	Center Through Coolant	PSB
KOMATSU NTC	N3 Series, Z3V	BT30	No	PSB-0
	Z Series, TMC Series	BT40	No	PSB-3
	N5H, ZV Series	BT50	No	PSB-7
	N3 Series, Z3V	BT30	Yes	PSB-0 -CH
	Z Series, TMC Series	BT40	Yes	PSB-3 -CH
	N5H, ZV Series	BT50	Yes	PSB-7 -CH
FANUC	ROBODRILL Series	BT30	No	PSB-0
BROTHER	SPEEDIO M140X1, TC Series	BT30	No	PSB-0A
	SPEEDIO M140X1, TC Series(Center Through Coolant model)	BT30	Yes	PSB-26
HORKOS	RS50H, ES50H, NJ50	BT30	No	PSB-0
	RM70H, RM70V, DM70H, NS70	BT40	No	PSB-3
	RM100H, DM100H, NM100, HFN-C50H	BT50	No	PSB-7
	RS50H, ES50H, NJ50	BT30	Yes	PSB-0-CH
	RM70H, RM70V, DM70H, NS70	BT40	Yes	PSB-3-CH
	RM100H, DM100H, NM100, HFN-C50H	BT50	Yes	PSB-7-CH
HOWA MACHINERY	MEN-500V, MJN400, MBN-350Ha, MKN Series	BT30	Yes	PSB-0 -CH
	MBN Series	BT40	Yes	PSB-3 -CH
	MEN-500V, MJN400, MBN-350Ha, MKN Series	BT30	No	PSB-0
	MBN Series	BT40	No	PSB-3
HOMMA	HVM Series(High speed model)	BT40	No	PSB-40P
	FM Series, TAC-M Series, STAC-M Series, HVM Series(Standard model), HTM Series	BT50	No	PSB-8
	HVM Series(High speed model)	BT40	Yes	PSB-40P
	FM Series, TAC-M Series, STAC-M Series, HVM Series(Standard model), HTM Series	BT50	Yes	PSB-8-CH
MAKINO	A, V, a Series	BT40	No	PSB-3 or PSB-4
	A, V, a Series, D500	BT40	Yes	PSB-40P or PSB-3-CH or PSB-4-CH
	A, GF, MC, MCC, MCD, MCF, V, a Series	BT50	No	PSB-7 or PSB-8
Matsuura	LX Series, FX Series	BT30	No	PSB-30P
	H.Plus Series, V.Plus Series, R.Plus-800, RA-1X / 2G, Mold.Plus-800	BT40	No	PSB-10 or PSB-40P
	MAM72 Series, MC Series, FX-10G	BT40	No	PSB-10 or PSB-40P
	H.Plus-630	BT50	No	PSB-50P
	LX Series, FX Series	BT30	Yes	PSB-30P
	H.Plus Series, V.Plus Series, R.Plus-800, RA-1X / 2G, Mold.Plus-800	BT40	Yes	PSB-40P
	MAM72 Series, MC Series, FX-10G	BT40	Yes	PSB-40P
	H.Plus-630	BT50	Yes	PSB-50P
MITSUI SEIKI	HU40A, 40-T, 50A, 63A, 63A-5X, 80A, 80A-5X, VJ7, VU50A, 65A, VERTEX550-5X	BT40	No	PSB-10
	HU40A, 40-T, 50A, 63A, 63A-5X, 80A, 80A-5X, VJ7, VU50A, 65A, VERTEX550-5X	BT40	Yes	PSB-40P
	H5D, 6D, HU50-T, 50A, 50A-5X, 63A, 63A-5X, 80A, 80A-5X, HS6A-5X, HB63-T, VJ7	BT50	No	PSB-17
MITSUBISHI	M-H Series, M-V Series	BT40	No	PSB-3 or PSB-4
	M-H Series, DH Series, M-V Series, MVR Series, MVR-DX Series, MG Series, M-VRD Series	BT50	No	PSB-8 or PSB-7
	MHT Series, MAF-S Series, MAF-R Series, MAF-RS Series, MAF-C Series, MAF-B Series	BT50	No	PSB-8 or PSB-7
	M-H Series, M-V Series	BT40	Yes	PSB-3-CH or PSB-4-CH
	M-H Series, DH Series, M-V Series, MVR Series, MVR-DX Series, MG Series, M-VRD Series	BT50	Yes	PSB-8-CH or PSB-7-CH
	MHT Series, MAF-S Series, MAF-R Series, MAF-RS Series, MAF-C Series, MAF-B Series	BT50	Yes	PSB-8-CH or PSB-7-CH
MECTRON	MTV-T301, T351 Series, T360, C350, MTS-C351, MCH-80	BT30	No	PSB-0A
	MTV-C410, T451 Series, T452W, T470	BT40	No	PSB-4
MORI SEIKI	ACCUMILL Series, ULTIMILL Series	BT30	No	PSB-0
	NV Series, DuraVertical Series, VS Series, MV-653, SVL5000	BT40	No	PSB-11
	NVD Series, NH Series, SH junior, AFM2400, FM Series	BT40	No	PSB-11
	NV Series, DuraVertical Series, VS Series, MV-653, SVL5000, NVD Series	BT40	Yes	PSB-25
	NH Series, SH junior, AFM2400, FM Series(Center Through Coolant model)	BT40	Yes	PSB-25
YASDA	NV Series, VS Series, MV Series, NH Series, HG Series, MH Series	BT50	No	PSB-19
	H30i /H 40i, Vi40, YBM-640V / 950V / 9150V	BT40	No	PSB-25
	YBM-N Series, YBM-T Series, YBM-1218V	BT50	No	PSB-7
	H30i /H 40i, Vi40, YBM-640V / 950V / 9150V	BT40	Yes	Custom sizes available
MAZAK	YBM-N Series, YBM-T Series, YBM-1218V	BT50	Yes	Custom sizes available
	UN Series	BT30	Yes	Custom sizes available S/PSB-30P
	VRX Series, VCN Series, VTC Series, SVC Series, FF&F3Series, FJV Series	BT40	Yes	PSB-23
	MM/SMM Series, HCN Series, FH/PFH Series, μ Series, ANGULAX Series	BT40	Yes	PSB-23
	VRX Series, VCN Series, MAZATECH V Series, VERSATECH V Series	BT50	Yes	PSB-24
ROKU-ROKU	VORTEX Series, FJV Series, HCN Series, FH Series, μ Series	BT50	Yes	PSB-24
	RX Series	BT30	No	PSB-0
	KX, LX, MX Series	BT40	No	PSB-3
	GIGA-650	BT40	No	PSB-11

Retention Studs CT Taper



Unit : Inch

Model	D	L1	L2	Angle	W	Thread	d	Shank size	Description
PSC40-1	0.74	0.440	0.64	45°	0.12	5/8"-11	0.275	CAT40	ANSI Standard , With a coolant hole
PSC50-1	1.14	0.700	1.00	45°	0.20	1"-8	0.464	CAT50	ANSI Standard , With a coolant hole

Please check dimensions with your machine spindle specs.