

Shoulder Bolts Shaft Dia. Tolerance e9

Shoulder Bolts
- Shaft Dia. Tolerance e9

(Standard Type)
DMSB
DSMSB

※ DMSB
3max. for both D12 and 13
3.5max. for both D16 and 20

Configurable
DMSMF
DSMSBF

Ⓢ L Dimension Tolerance of Configurable Type is ±0.05.

	DMSB	DMSBMF	DSMSB, DSMSBF
M Material	SCM435	SCM435	SUS304 Equivalent
H Hardness	33~38HRC	33~38HRC	—
S Surface Treatment	—	Electroless Nickel Plating	—
Strength Class	33~38HRC	10.9	A2-50

Specification Table

De9	A	B	C	E	F	M×P	T
4	6.5	2.5	1.6	3	5	2.5×0.45	4.5
4.5	7				6	3×0.5	5
5	8	3	2.2	4	7	4×0.7	5.5
5.5	9						6
6	10	3	2	9	5×0.8	7	6.5
6.5	13	5	3				6
8	16	6	4	12	8×1.25	10.8	12.8
10	17	8	8				12
12	18	8	5	10	16	10×1.5	14
13	24	10	7	14	18	12×1.75	17
16	27	14	9	18	24	16×2.0	21
20	27	14	9	18	24	16×2.0	21

Type	D	L (DSMSB is applicable only to sizes marked with *)	F
DMSB DSMSB	4	*15 *20 *25 *30 35 *40	5
	4.5	*15 *20 *25 *30 *35 *40	6
	5	*15 *20 *25 *30 35 *40	7
	5.5	*15 *20 *25 *30 *35 *40	9
	6	*15 *20 *25 *30 35 *40	12
	6.5	*15 *20 *25 *30 *35 *40	16
	8	*15 *20 *25 *30 *35 *40 *45	18
	10	*15 *20 *25 *30 *35 *40 *45 *50 *55	21
	12	15 20 25 30 35 40 45 50 55	24
	13	15 20 25 30 35 40 45 50 55 60 65 70	27
	16	15 20 25 30 35 40 45 50 55 60 65 70 75 80 85	30
	20	40 50 60 70 80 90 100	36

Configurable

Part Number		L 0.1mm Increment	A	B	C	E	T	L+F Machining Condition
Type	De9							
DMSBMF DSMSBF	4	10~40	7	2.5	1.6	3	4.5	L+F≤46
	4.5	10~40						L+F≤46
	5	10~40	9	3	2.2	4	5.5	L+F≤47
	5.5	10~40						L+F≤47
	6	10~50	10	4	2.5	5	6.5	L+F≤59
	6.5	10~50						L+F≤59
	8	10~60	13	5	3	6	8.7	L+F≤70
	10	10~60						L+F≤72

Part Number

L

F

DMSB10 — 50 —
DSMSBF5.5 — L30 — F10

ORDERING GUIDE



DMSB10 — L(LC) — F (FC, LKC)
DSMSBF8 — LC50.1 — F10 — FC10
L30 — LKC