

Bolted connections with waisted shank

Stud bolts

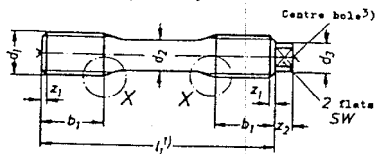
DIN
2510
 Part 3

Schraubenverbindungen mit Dehnschaft; Schraubenbolzen

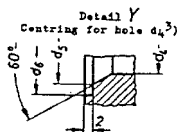
Dimensions in mm

Type L with long thread

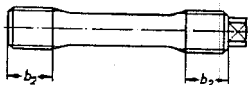
up to M 52 DIN 2510



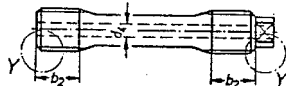
Detail X

Type K with short thread

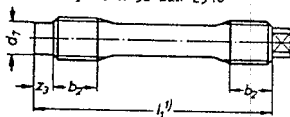
up to M 56 DIN 2510



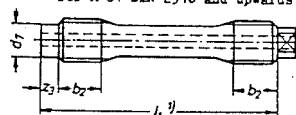
for M 64 DIN 2510 and upwards



other dimensions and details as for Type L

Type KU with short thread and spacer point(only for use with cap nuts at both ends)
up to M 56 DIN 2510

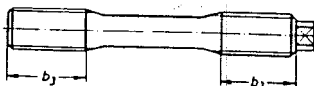
for M 64 DIN 2510 and upwards



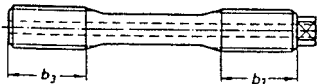
other dimensions and details as for Type L and K

Type Z with long thread

up to M 56 DIN 2510



for M 64 DIN 2510 and upwards



other dimensions and details as for Type L and K

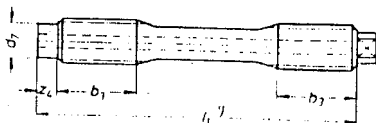
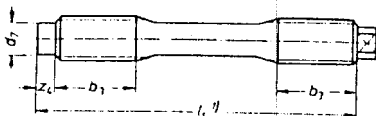
1) and 3) see on page 3

For Explanations see DIN 2510 Part 1

Continued on pages 2 and 3

Type ZU with long thread and spacer point(only for use with cap nuts at both ends)
up to M 56 DIN 2510

for M 64 DIN 2510 and upwards



other dimensions and details as for Type L and K

Designation of a stud-bolt Type L with thread $d_1 = M 30$ and nominal length ($l_1 = 200 \text{ mm}^1$) in 24CrMo5 (code letter G²):
Stud-bolt L M 30 x 200 DIN 2510 - 24CrMo5

Thread d_1 acc. to DIN 2510 Part 2	M 12	M 16	M 20	M 24	M 27	M 30	M 33	M 36	M 39	M 42	M 45	M 48	M 52	M 56
d_2	8,5	12	15	18	20,5	23	25,5	27,5	30,5	32,5	35,5	37,5	41	44
d_3	8	12	14	14	18	18	25	25	28	28	32	32	36	40
d_4	8	12	13	16	18	21	24	26	30	32	34	37	40	45
h_1	20	23	28	32	35	39	42	45	48	52	55	58	62	—
h_2	13	16	20	24	27	30	33	36	39	42	45	48	52	56
h_3	27	31	36	42	47	50	52	57	60	64	66	70	74	79
r	10	10	10	16	16	16	16	20	20	20	20	20	20	25
\sqrt{r}	7	10	11	11	13	13	22	22	24	24	27	27	30	32
$l_1 \text{ max}$	175	2	2,5	3	3	3,5	3,5	4	4	4,5	4,5	5	5	5,5
l_2	4	5	6	6	6	6	9	9	10	10	11	11	12	13
l_3	11	14	16	17	19	19	21	23	23	24	25	26	26	28
l_4	7	8	9	8	10	12	14	14	14	15	15	19	18	19
KAPITEL	A 1.6							A 2.5						

Thread d_1 acc. to DIN 2510 Part 2	M 64	M 72 x 6	M 80 x 6	M 90 x 6	M 100 x 6	M 110 x 6	(M 120 x 6)	M 125 x 8	M 140 x 8	(M 150 x 8)	M 160 x 8	(M 170 x 8)	M 180 x 8
d_2	51	58,5	66	75	84	92,5	102	106	118	127	136	145	154
d_3	42	50	50	50	50	50	50	50	65	65	65	65	65
d_4	18	25	25	25	25	25	25	25	36	36	36	36	36
d_5	25	32	32	32	32	32	32	32	43	43	43	43	43
d_6	30	37	37	37	37	37	37	37	48	48	48	48	48
d_7	52	56	63	74	86	97	105	—	—	—	—	—	—
h_1	—	—	—	—	—	—	—	—	—	—	—	—	—
h_2	64	72	80	90	100	110	120	125	140	150	160	170	180
h_3	88	95	103	112	122	132	142	—	—	—	—	—	—
r	25	25	25	25	25	25	32	32	32	32	32	32	32
\sqrt{r}	36	41	41	41	41	41	41	41	55	55	55	55	55
$l_1 \text{ max}$	6	6	6	6	6	6	6	6	8	8	8	8	8
l_2	14	15	15	15	15	15	15	15	18	18	18	18	18
l_3	28	28	28	28	28	28	28	—	—	—	—	—	—
l_4	20	20	19	20	19	19	20	—	—	—	—	—	—
KAPITEL	A 4						A 6.1						

Bracketed sizes should be avoided where possible.

1), 2) and 3) see on page 3

Technical conditions of delivery and materials according to DIN 267 Part 13

TYPE: m according to DIN 267 Part 13 .

f only to special order. The designation in this case reads, e.g.:

Stud-bolt L M 30 x 200 DIN 2510 - f - 24CrMo5

MARKING: according to DIN 267 Part 13

Unless agreed to the contrary when ordering, the marking should be applied to the end face of the point r_2 .

If stud-bolts of Types K, EU, Z or ZU for M 64 DIN 2510 and upwards are required without hole d_4 , then the letter O should be inserted in the designation, e.g.:

Stud-bolt KO M 100 x 6 x 600 DIN 2510 - 24CrMo5

1) Nominal length l_1 to be stated when ordering (see also DIN 2510 Part 1)

2) Instead of the code number the code letter of the material may also be stated in the designation. In such cases the designation reads, e.g.:

Stud-bolt L M 30 x 200 DIN 2510 - G

3) Centring according to DIN 332 and detail Y only for stud-bolts of type f.