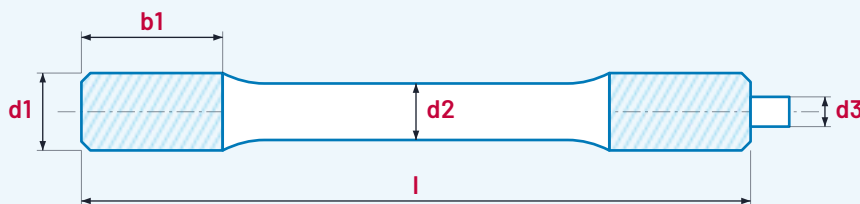


Studs with reduced shank

DIN 2510 · bolted connections with reduced shank

LEGEND

- d1** Nominal thread diameter
- d2** Reduced shank diameter
- d3** End pin diameter
- s** Width across flats, end pin
- b1** Thread length, form L
- b2** Thread length, forms K / KU
- b3** Thread length, forms Z / ZU
- d7** Dimension to DIN 2510-3
- z1-z4** Dimensions to DIN 2510-3
- l** Nominal length



DIMENSIONS IN MM

D1	D2	D3	D7	B1 FORM L	B2 FORM K / KU	B3 FORM Z / ZU	Z1 MAX.	Z2	Z3 FORM KU	Z4 FORM ZU	S
M12	8.5	8	8	20	13	27	1.75	4	11	7	7
M16	12	12	12	23	16	31	2	5	14	8	10
M20	15	14	13	28	20	36	2.5	6	16	9	11
M24	18	14	16	32	24	42	3	6	17	8	11
M27	20.5	18	18	35	27	47	3	6	19	10	13
M30	23	18	21	39	30	50	3.5	6	19	12	13
M33	25.5	25	24	42	33	53	3.5	9	21	14	22
M36	27.5	25	26	45	36	57	4	9	23	14	22
M39	30.5	28	30	48	39	60	4	10	23	14	24
M42	32.5	28	32	52	42	64	4.5	10	24	15	24
M45	35.5	32	34	55	45	66	4.5	11	25	15	27
M48	37.5	32	37	58	48	70	5	11	26	19	27
M52	41	36	40	62	52	74	5	12	26	18	30
M56	44	40	45	–	56	79	5.5	13	28	19	32
M64	51	42	52	64	64	88	6	14	28	20	36
M72 × 6	58.5	50	56	72	72	95	6	15	28	20	41
M80 × 6	66	50	63	80	80	103	6	15	28	19	41
M90 × 6	75	50	74	90	90	112	6	15	28	20	41
M100 × 6	84	50	86	100	100	122	6	15	28	19	41
M110 × 6	92.5	50	97	110	110	132	6	15	28	19	41
M120 × 6	102	50	105	120	120	142	6	15	30	20	41
M125 × 8	106	50	–	125	125	–	8	15	–	–	41
M140 × 8	118	65	–	140	140	–	8	18	–	–	55
M150 × 8	127	65	–	150	150	–	8	18	–	–	55
M160 × 8	136	65	–	160	160	–	8	18	–	–	55
M170 × 8	145	65	–	170	170	–	8	18	–	–	55
M180 × 8	154	65	–	180	180	–	8	18	–	–	55

Nuts. Use hexagon nuts countersunk on both sides to DIN 2510-NF – see the separate datasheet.

Forms L, K / KU and Z / ZU have the thread lengths b1, b2 and b3 shown. Configure at hbsfasteners.nl/products/stud-bolts.