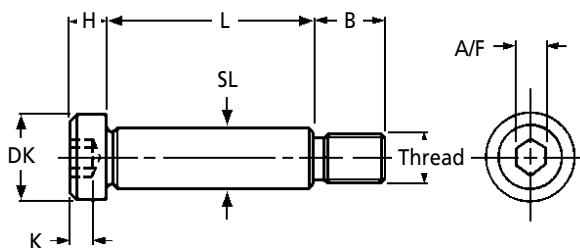
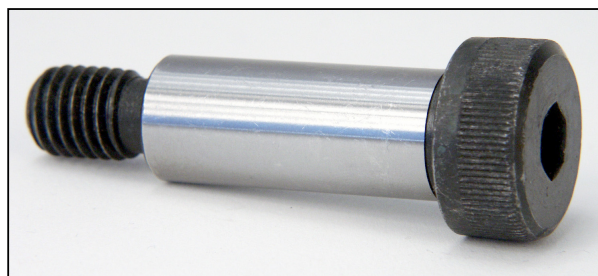


HSS

FASTENERS

Hardened Steel Shoulder Screws

12.9 Quality - BS 4168 Pt. 7 (ISO 7379) : M5 - M8



Nom size mm	Thd Ø	Thd Section Tensile Strength		Shoulder		Thread Neck		**Tightening Torque	
		Kg	KN	Kg	KN	Kg	KN	Kgfm	Nm
6	M5	1732	16.99	2087	20.47	777	7.62	0.78	7.61
8	M6	2450	24.03	3710	36.38	1112	10.90	1.34	13.14
10	M8	4465	43.77	5798	56.86	2122	20.81	3.43	33.63
12	M10	7075	69.38	8349	81.88	3446	33.79	6.17	60.56
16	M12	10250	100.52	14842	145.55	5079	49.80	12.30	120.62
20	M16	19150	187.80	23191	227.43	9828	96.38	27.92	273.80
24	M20	29850	292.73	33395	327.49	15518	152.18	50.14	491.70

Discounts: 20+ -20% 50+ -40% 100+ -50% 200+ -60% 500+ -68% 1000+ -70% 2000+ -72%

Part Number	Thread	L ^{+0.25}	Pitch	B	DK	K	SL	H	AF	Price Each 1 - 19
HSS5-10	M5	10	0.80	9.75	10.22	2.40	Ø6 ^{-0.010/-0.040}	4.50	3	£1.38
HSS5-12	M5	12	0.80	9.75	10.22	2.40	Ø6 ^{-0.010/-0.040}	4.50	3	£1.38
HSS5-16	M5	16	0.80	9.75	10.22	2.40	Ø6 ^{-0.010/-0.040}	4.50	3	£1.41
HSS5-20	M5	20	0.80	9.75	10.22	2.40	Ø6 ^{-0.010/-0.040}	4.50	3	£1.41
HSS5-25	M5	25	0.80	9.75	10.22	2.40	Ø6 ^{-0.010/-0.040}	4.50	3	£1.42
HSS5-30	M5	30	0.80	9.75	10.22	2.40	Ø6 ^{-0.010/-0.040}	4.50	3	£1.42
HSS5-40	M5	40	0.80	9.75	10.22	2.40	Ø6 ^{-0.010/-0.040}	4.50	3	£1.47
HSS6-12	M6	12	1.00	11.25	13.27	3.30	Ø8 ^{-0.013/-0.049}	5.50	4	£1.51
HSS6-16	M6	16	1.00	11.25	13.27	3.30	Ø8 ^{-0.013/-0.049}	5.50	4	£1.54
HSS6-20	M6	20	1.00	11.25	13.27	3.30	Ø8 ^{-0.013/-0.049}	5.50	4	£1.59
HSS6-25	M6	25	1.00	11.25	13.27	3.30	Ø8 ^{-0.013/-0.049}	5.50	4	£1.59
HSS6-30	M6	30	1.00	11.25	13.27	3.30	Ø8 ^{-0.013/-0.049}	5.50	4	£1.66
HSS6-40	M6	40	1.00	11.25	13.27	3.30	Ø8 ^{-0.013/-0.049}	5.50	4	£1.72
HSS6-50	M6	50	1.00	11.25	13.27	3.30	Ø8 ^{-0.013/-0.049}	5.50	4	£1.77
HSS8-16	M8	16	1.25	13.25	16.27	4.20	Ø10 ^{-0.013/-0.049}	7.00	5	£1.80
HSS8-20	M8	20	1.25	13.25	16.27	4.20	Ø10 ^{-0.013/-0.049}	7.00	5	£1.80
HSS8-25	M8	25	1.25	13.25	16.27	4.20	Ø10 ^{-0.013/-0.049}	7.00	5	£1.86
HSS8-30	M8	30	1.25	13.25	16.27	4.20	Ø10 ^{-0.013/-0.049}	7.00	5	£2.28
HSS8-40	M8	40	1.25	13.25	16.27	4.20	Ø10 ^{-0.013/-0.049}	7.00	5	£2.42
HSS8-50	M8	50	1.25	13.25	16.27	4.20	Ø10 ^{-0.013/-0.049}	7.00	5	£2.44
HSS8-60	M8	60	1.25	13.25	16.27	4.20	Ø10 ^{-0.013/-0.049}	7.00	5	£2.44
HSS8-70	M8	70	1.25	13.25	16.27	4.20	Ø10 ^{-0.013/-0.049}	7.00	5	£2.68
HSS8-80	M8	80	1.25	13.25	16.27	4.90	Ø10 ^{-0.013/-0.049}	7.00	5	£2.99

Material

Alloy Steel - High Grade. 12.9 Quality BS4168 Pt. 7 (ISO 7379). **Hardness:** 38 HRC

Performance

***Minimum Tensile Strength:** 1220N/mm²**Shear Strength:** 624N/mm²**Minimum Elongation:** 8%**Working Temperature:** -50°C +300°C**Minimum Hardness:** Rockwell 38 HRC

Hardness

To test that the hardness is in accordance with the values specified: Socket shoulder screws

The test shall be made on the point after 0.38mm has been removed by grinding.

* Where tensile tests cannot be carried out because sizes are too small, the hardness test is acceptable.

** It is recommended that tightening torque be limited to these values when screws are to be tightened or loosened with standard keys or bits.

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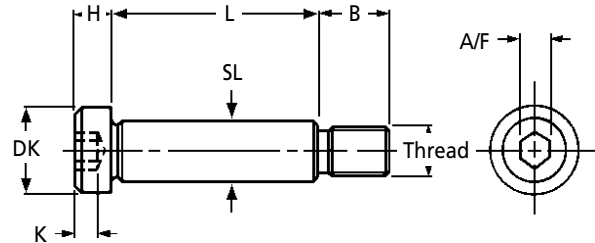
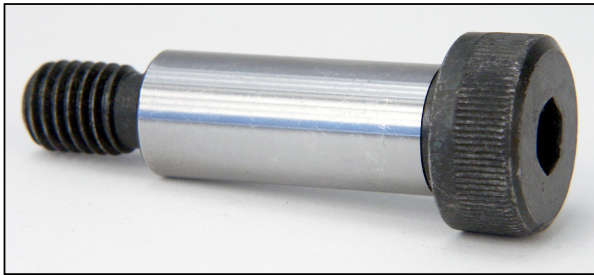
Product information updated 1st April 2011 and subject to change. Please contact Sales for the latest prices and availability.

FASTENERS

HSS

Hardened Steel Shoulder Screws

12.9 Quality - BS 4168 Pt. 7 (ISO 7379) : M10 - M12



Nom size mm	Thd Ø	Thd Section Tensile Strength		Shoulder		Thread Neck		**Tightening Torque	
		Kg	KN	Kg	KN	Kg	KN	Kgfm	Nm
6	M5	1732	16.99	2087	20.47	777	7.62	0.78	7.61
8	M6	2450	24.03	3710	36.38	1112	10.90	1.34	13.14
10	M8	4465	43.77	5798	56.86	2122	20.81	3.43	33.63
12	M10	7075	69.38	8349	81.88	3446	33.79	6.17	60.56
16	M12	10250	100.52	14842	145.55	5079	49.80	12.30	120.62
20	M16	19150	187.80	23191	227.43	9828	96.38	27.92	273.80
24	M20	29850	292.73	33395	327.49	15518	152.18	50.14	491.70

Discounts: 20+ -20% 50+ -40% 100+ -50% 200+ -60% 500+ -68% 1000+ -70% 2000+ -72%

Part Number	Thread	L ^{+0.25}	Pitch	B	DK	K	SL	H	AF	Price Each 1 - 19
HSS10-16	M10	16	1.50	16.40	18.27	4.90	Ø12 ^{-0.016/-0.059}	8.00	6	£2.85
HSS10-20	M10	20	1.50	16.40	18.27	4.90	Ø12 ^{-0.016/-0.059}	8.00	6	£2.88
HSS10-25	M10	25	1.50	16.40	18.27	4.90	Ø12 ^{-0.016/-0.059}	8.00	6	£3.10
HSS10-30	M10	30	1.50	16.40	18.27	4.90	Ø12 ^{-0.016/-0.059}	8.00	6	£3.16
HSS10-40	M10	40	1.50	16.40	18.27	4.90	Ø12 ^{-0.016/-0.059}	8.00	6	£3.07
HSS10-50	M10	50	1.50	16.40	18.27	4.90	Ø12 ^{-0.016/-0.059}	8.00	6	£3.41
HSS10-60	M10	60	1.50	16.40	18.27	4.90	Ø12 ^{-0.016/-0.059}	8.00	6	£4.21
HSS10-70	M10	70	1.50	16.40	18.27	4.90	Ø12 ^{-0.016/-0.059}	8.00	6	£4.47
HSS10-80	M10	80	1.50	16.40	18.27	4.90	Ø12 ^{-0.016/-0.059}	8.00	6	£5.75
HSS10-90	M10	90	1.50	16.40	18.27	4.90	Ø12 ^{-0.016/-0.059}	8.00	6	£6.59
HSS10-100	M10	100	1.50	16.40	18.27	4.90	Ø12 ^{-0.016/-0.059}	8.00	6	£7.84
HSS12-30	M12	30	1.75	18.40	24.33	6.60	Ø16 ^{-0.016/-0.059}	10.00	8	£5.35
HSS12-40	M12	40	1.75	18.40	24.33	6.60	Ø16 ^{-0.016/-0.059}	10.00	8	£5.80
HSS12-50	M12	50	1.75	18.40	24.33	6.60	Ø16 ^{-0.016/-0.059}	10.00	8	£6.02
HSS12-60	M12	60	1.75	18.40	24.33	6.60	Ø16 ^{-0.016/-0.059}	10.00	8	£7.20
HSS12-70	M12	70	1.75	18.40	24.33	6.60	Ø16 ^{-0.016/-0.059}	10.00	8	£7.47
HSS12-80	M12	80	1.75	18.40	24.33	6.60	Ø16 ^{-0.016/-0.059}	10.00	8	£8.11
HSS12-90	M12	90	1.75	18.40	24.33	6.60	Ø16 ^{-0.016/-0.059}	10.00	8	£8.84
HSS12-120	M12	120	1.75	18.40	24.33	6.60	Ø16 ^{-0.016/-0.059}	10.00	8	£28.38

Material

Alloy Steel - High Grade. 12.9 Quality BS4168 Pt. 7 (ISO 7379). **Hardness:** 38 HRC

Performance

*Minimum Tensile Strength: 1220N/mm²

Shear Strength: 624N/mm²

Minimum Elongation: 8%

Working Temperature: -50°C +300°C

Minimum Hardness: Rockwell 38 HRC

Hardness

To test that the hardness is in accordance with the values specified: Socket shoulder screws

The test shall be made on the point after 0.38mm has been removed by grinding.

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** It is recommended that tightening torque be limited to these values when screws are to be tightened or loosened with standard keys or bits.

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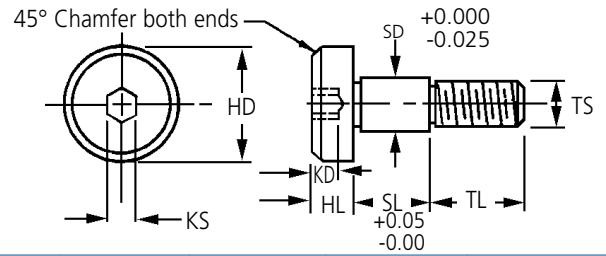
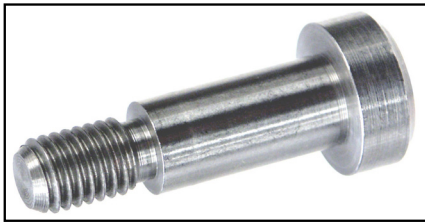
Product information updated 1st April 2011 and subject to change. Please contact Sales for the latest prices and availability.

MECHANICAL

Precision Stainless Steel Shoulder Screws

303 & 416 Grade : M3 - M10

SHS
SHSS



Discounts: 21+ -30% 51+ -40% 200+ -45% 500+ -50% 1000+ -55%

Part Number		SD	SL	HD	HL	TL	TS	KS	KD	Price Each 1 - 20	
303	416									303	416
SHS3-4	SHSS3-4	3.987	4.013	6	3	4	M3	2.00	1.60	£3.04	£7.15
SHS3-5	SHSS3-5	3.987	5.013	6	3	4	M3	2.00	1.60	£3.04	£7.15
SHS3-6	SHSS3-6	3.987	6.013	6	3	4	M3	2.00	1.60	£3.04	£7.15
SHS3-8	SHSS3-8	3.987	8.013	6	3	4	M3	2.00	1.60	£3.04	£7.15
SHS3-10	SHSS3-10	3.987	10.013	6	3	4	M3	2.00	1.60	£3.04	£7.15
SHS4-4	SHSS4-4	4.987	4.013	8	4	5	M4	2.50	2.00	£3.04	£7.15
SHS4-5	SHSS4-5	4.987	5.013	8	4	5	M4	2.50	2.00	£3.04	£7.15
SHS4-6	SHSS4-6	4.987	6.013	8	4	5	M4	2.50	2.00	£3.04	£7.15
SHS4-8	SHSS4-8	4.987	8.013	8	4	5	M4	2.50	2.00	£3.04	£7.15
SHS4-10	SHSS4-10	4.987	10.013	8	4	5	M4	2.50	2.00	£3.04	£7.15
SHS4-12	SHSS4-12	4.987	12.013	8	4	5	M4	2.50	2.00	£3.47	£8.16
SHS4-14	SHSS4-14	4.987	14.013	8	4	5	M4	2.50	2.00	£3.47	£8.16
SHS4-16	SHSS4-16	4.987	16.013	8	4	5	M4	2.50	2.00	£3.47	£8.16
SHS4-20	SHSS4-20	4.987	20.013	8	4	5	M4	2.50	2.00	£3.47	£8.16
SHS4-25	SHSS4-25	4.987	25.013	8	4	5	M4	2.50	2.00	£4.32	£8.82
SHS4-30	SHSS4-30	4.987	30.013	8	4	5	M4	2.50	2.00	£4.32	£8.82
SHS5-4	SHSS5-4	5.987	4.013	10	5	6	M5	3.00	2.40	£3.04	£7.15
SHS5-5	SHSS5-5	5.987	5.013	10	5	6	M5	3.00	2.40	£3.04	£7.15
SHS5-6	SHSS5-6	5.987	6.013	10	5	6	M5	3.00	2.40	£3.04	£7.15
SHS5-8	SHSS5-8	5.987	8.013	10	5	6	M5	3.00	2.40	£3.04	£7.15
SHS5-10	SHSS5-10	5.987	10.013	10	5	6	M5	3.00	2.40	£3.04	£7.15
SHS5-12	SHSS5-12	5.987	12.013	10	5	6	M5	3.00	2.40	£3.47	£8.16
SHS5-14	SHSS5-14	5.987	14.013	10	5	6	M5	3.00	2.40	£3.47	£8.16
SHS5-16	SHSS5-16	5.987	16.013	10	5	6	M5	3.00	2.40	£5.00	£8.16
SHS5-20	SHSS5-20	5.987	20.013	10	5	6	M5	3.00	2.40	£5.00	£8.82
SHS5-25	SHSS5-25	5.987	25.013	10	5	6	M5	3.00	2.40	£5.00	£8.82
SHS5-30	SHSS5-30	5.987	30.013	10	5	6	M5	3.00	2.40	£4.00	£8.82
SHS6-6	SHSS6-6	7.987	6.013	12	6	11	M6	4.00	3.20	£5.00	£8.82
SHS6-8	SHSS6-8	7.987	8.013	12	6	11	M6	4.00	3.20	£5.00	£8.82
SHS6-10	SHSS6-10	7.987	10.013	12	6	11	M6	4.00	3.20	£5.00	£8.82
SHS6-12	SHSS6-12	7.987	12.013	12	6	11	M6	4.00	3.20	£5.00	£8.82
SHS6-16	SHSS6-16	7.987	16.013	12	6	11	M6	4.00	3.20	£5.00	£8.82
SHS6-20	SHSS6-20	7.987	20.013	12	6	11	M6	4.00	3.20	£5.00	£8.82
SHS6-25	SHSS6-25	7.987	25.013	12	6	11	M6	4.00	3.20	£5.00	£8.82
SHS6-30	SHSS6-30	7.987	30.013	12	6	11	M6	4.00	3.20	£5.00	£8.82
SHS6.1-8	SHSS6.1-8	9.987	8.013	12	6	11	M6	4.00	3.20	£6.25	£11.53
SHS6.1-10	SHSS6.1-10	9.987	10.013	12	6	11	M6	4.00	3.20	£6.25	£11.53
SHS6.1-12	SHSS6.1-12	9.987	12.013	12	6	11	M6	4.00	3.20	£6.25	£11.53
SHS6.1-16	SHSS6.1-16	9.987	16.013	12	6	11	M6	4.00	3.20	£6.25	£11.53
SHS8-8	SHSS8-8	9.987	8.013	14	7	12	M8	5.00	4.00	£6.25	£11.53
SHS8-10	SHSS8-10	9.987	10.013	14	7	12	M8	5.00	4.00	£6.25	£11.53
SHS8-12	SHSS8-12	9.987	12.013	14	7	12	M8	5.00	4.00	£7.00	£13.33
SHS8-16	SHSS8-16	9.987	16.013	14	7	12	M8	5.00	4.00	£7.00	£13.33
SHS8-20	SHSS8-20	9.987	20.013	14	7	12	M8	5.00	4.00	£6.25	£13.33
SHS8-25	SHSS8-25	9.987	25.013	14	7	12	M8	5.00	4.00	£6.25	£13.33
SHS8-30	SHSS8-30	9.987	30.013	14	7	12	M8	5.00	4.00	£6.25	£13.33
SHS10-12	SHSS10-12	11.987	12.013	20	8	16	M10	6.00	4.80	£9.47	£17.54
SHS10-16	SHSS10-16	11.987	16.013	20	8	16	M10	6.00	4.80	£9.47	£17.54
SHS10-20	SHSS10-20	11.987	20.013	20	8	16	M10	6.00	4.80	£9.47	£17.54
SHS10-25	SHSS10-25	11.987	25.013	20	8	16	M10	6.00	4.80	£9.47	£17.54
SHS10-30	SHSS10-30	11.987	30.013	20	8	16	M10	6.00	4.80	£9.47	£13.39

Material

SHS: Stainless Steel Grade 303 18-8 (Tensile Strength 550+ N/mm²) SHSS: Hard 416 Stainless 26-32 HRC (Tensile Strength 850-1000 N/mm²)

SHST: Grade 5 Titanium 6AL-4V. P.O.A. Min order quantity 10 pieces (Tensile Strength 1100 N/mm²).

Also available with the head slotted or cross recessed.

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