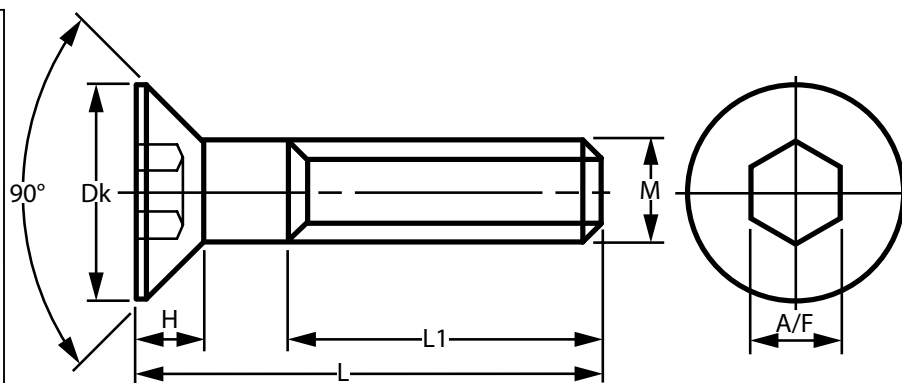


CSM

FASTENERS

Socket Head Countersunk Screws

Stainless Steel : DIN 7991 : M2.5 - M20



Part Number	Thread M	L	L1	Dk	H	A/F	Part Number	Thread M	L	L1	Dk	H	A/F
CSM2.5-5	M2.5	5	-	5	1.6	1.6	CSM8-60	M8	60	45	16	4.4	5
CSM2.5-10	M2.5	10	-	5	1.6	1.6	CSM8-70	M8	70	45	16	4.4	5
CSM2.5-12	M2.5	12	-	5	1.6	1.6	CSM8-80	M8	80	45	16	4.4	5
CSM3-8	M3	8	-	6	1.6	2.0	CSM8-90	M8	90	45	16	4.4	5
CSM3-10	M3	10	-	6	1.6	2.0	CSM8-100	M8	100	45	16	4.4	5
CSM3-12	M3	12	-	6	1.6	2.0	CSM10-16	M10	16	-	20	5.5	6
CSM3-16	M3	16	-	6	1.6	2.0	CSM10-18	M10	18	-	20	5.5	6
CSM3-20	M3	20	-	6	1.6	2.0	CSM10-20	M10	20	-	20	5.5	6
CSM3-25	M3	25	-	6	1.6	2.0	CSM10-25	M10	25	-	20	5.5	6
CSM3-30	M3	30	25	6	1.6	2.0	CSM10-30	M10	30	-	20	5.5	6
CSM4-10	M4	10	-	8	2.3	2.5	CSM10-35	M10	35	-	20	5.5	6
CSM4-12	M4	12	-	8	2.3	2.5	CSM10-40	M10	40	-	20	5.5	6
CSM4-16	M4	16	-	8	2.3	2.5	CSM10-45	M10	45	-	20	5.5	6
CSM4-20	M4	20	-	8	2.3	2.5	CSM10-50	M10	50	-	20	5.5	6
CSM4-25	M4	25	-	8	2.3	2.5	CSM10-55	M10	55	50	20	5.5	6
CSM4-30	M4	30	25	8	2.3	2.5	CSM10-60	M10	60	50	20	5.5	6
CSM4-40	M4	40	25	8	2.3	2.5	CSM10-70	M10	70	50	20	5.5	6
CSM5-10	M5	10	-	10	2.8	3.0	CSM10-80	M10	80	50	20	5.5	6
CSM5-12	M5	12	-	10	2.8	3.0	CSM10-90	M10	90	50	20	5.5	6
CSM5-16	M5	16	-	10	2.8	3.0	CSM10-100	M10	100	50	20	5.5	6
CSM5-18	M5	18	-	10	2.8	3.0	CSM12-20	M12	20	-	24	6.5	8
CSM5-20	M5	20	-	10	2.8	3.0	CSM12-25	M12	25	-	24	6.5	8
CSM5-25	M5	25	-	10	2.8	3.0	CSM12-30	M12	30	-	24	6.5	8
CSM5-30	M5	30	-	10	2.8	3.0	CSM12-35	M12	35	-	24	6.5	8
CSM5-35	M5	35	30	10	2.8	3.0	CSM12-40	M12	40	-	24	6.5	8
CSM5-40	M5	40	30	10	2.8	3.0	CSM12-45	M12	45	-	24	6.5	8
CSM5-45	M5	45	30	10	2.8	3.0	CSM12-50	M12	50	-	24	6.5	8
CSM5-50	M5	50	30	10	2.8	3.0	CSM12-55	M12	55	-	24	6.5	8
CSM6-10	M6	10	-	12	3.3	4.0	CSM12-60	M12	60	-	24	6.5	8
CSM6-12	M6	12	-	12	3.3	4.0	CSM12-70	M12	70	60	24	6.5	8
CSM6-16	M6	16	-	12	3.3	4.0	CSM12-80	M12	80	60	24	6.5	8
CSM6-20	M6	20	-	12	3.3	4.0	CSM12-90	M12	90	60	24	6.5	8
CSM6-25	M6	25	-	12	3.3	4.0	CSM12-100	M12	100	60	24	6.5	8
CSM6-30	M6	30	-	12	3.3	4.0	CSM16-25	M16	25	-	30	7.5	10
CSM6-35	M6	35	-	12	3.3	4.0	CSM16-30	M16	30	-	30	7.5	10
CSM6-40	M6	40	35	12	3.3	4.0	CSM16-35	M16	35	-	30	7.5	10
CSM6-45	M6	45	35	12	3.3	4.0	CSM16-40	M16	40	-	30	7.5	10
CSM6-50	M6	50	35	12	3.3	4.0	CSM16-45	M16	45	-	30	7.5	10
CSM6-55	M6	55	35	12	3.3	4.0	CSM16-50	M16	50	-	30	7.5	10
CSM6-60	M6	60	35	12	3.3	4.0	CSM16-55	M16	55	-	30	7.5	10
CSM6-70	M6	70	35	12	3.3	4.0	CSM16-60	M16	60	-	30	7.5	10
CSM8-12	M8	12	-	16	4.4	5.0	CSM16-65	M16	65	-	30	7.5	10
CSM8-16	M8	16	-	16	4.4	5.0	CSM16-70	M16	70	-	30	7.5	10
CSM8-18	M8	18	-	16	4.4	5.0	CSM16-80	M16	80	75	30	7.5	10
CSM8-20	M8	20	-	16	4.4	5.0	CSM16-90	M16	90	75	30	7.5	10
CSM8-25	M8	25	-	16	4.4	5.0	CSM16-100	M16	100	75	30	7.5	10
CSM8-30	M8	30	-	16	4.4	5.0	CSM20-50	M20	50	-	36	8.5	12
CSM8-35	M8	35	-	16	4.4	5.0	CSM20-60	M20	60	-	36	8.5	12
CSM8-40	M8	40	-	16	4.4	5.0	CSM20-70	M20	70	-	36	8.5	12
CSM8-45	M8	45	-	16	4.4	5.0	CSM20-80	M20	80	75	36	8.5	12
CSM8-50	M8	50	45	16	4.4	5.0	CSM20-90	M20	90	75	36	8.5	12
CSM8-55	M8	55	45	16	4.4	5.0	CSM20-100	M20	100	75	36	8.5	12

Material

A2 Stainless Steel.
Also available in A4 Stainless Steel, P.O.A.

Nominal screws are threaded within 2.5 thread pitches of the head.
Maximum Operating Temperature: +430°C.

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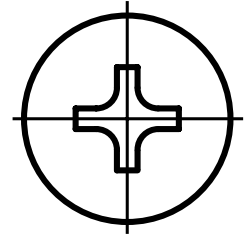
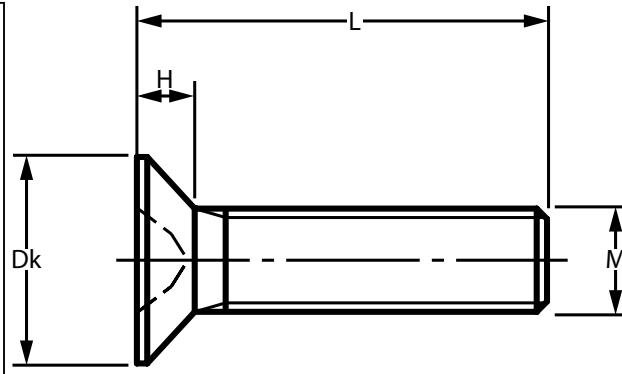
Product information updated May 2017 and subject to change. Please click the product links for prices and availability.

FASTENERS

SNFT

Cross Recessed Countersunk Machine Screws

Titanium : M3 - M4



Part Number	Thread M	L	Dk	H	Tensile Breaking Force* (N)	Tightening Torque Nm	Mass g
SNFT-M3X6	M3	6	6	1.75	2,360	1.0	0.31
SNFT-M3X8	M3	8	6	1.75	2,360	1.0	0.35
SNFT-M3X10	M3	10	6	1.75	2,360	1.0	0.40
SNFT-M4X6	M4	6	8	2.30	4,120	2.4	0.59
SNFT-M4X8	M4	8	8	2.30	4,120	2.4	0.68
SNFT-M4X10	M4	10	8	2.30	4,120	2.4	0.77
SNFT-M4X12	M4	12	8	2.30	4,120	2.4	0.86

Material

TB340C (Grade 2 Titanium).

SNFTG High Intensity Titanium Alloy - Ti-15-3-3-3 (β Titanium) - available, P.O.A.

Specific Gravity: 4.51.

Melting Point: 1668°C.

Longitudinal Elastic Modulus: 106 GPa.

Thermal Conductivity: 17.16 W/(m·K).

Linear Expansion Coefficient: $8.4 \times 10^{-6} \text{ }^\circ\text{K}^{-1}$.

Electrical Resistance: $0.55 \text{ } \mu\Omega \cdot \text{m}$.

Amplitude Permeability: 1.0001μ (Nonmagnetic).

Tensile Strength: 270-410 N/mm².

0.2% Proof Stress: 165 (or higher) N/mm².

Elongation: 27% (or higher).

*The Tensile Breaking Force values listed are for reference only and are not guaranteed under performance conditions.

Features

- The specific gravity of titanium is approximately 60% that of stainless steel. For use in lightweight applications, e.g. automotive, aerospace, medical and robotics.
- Completely Nonmagnetic (0 Magnetic Flux Density). Nonmagnetic characteristics may be used with FPD (Flat Panel Display) and semiconductor production equipment and devices, and electronic equipment.
- Excellent chemical and seawater resistance for electrochemical plating and aquatic applications.
- Chemical polishing and brightening processing improve the screw surface. Furthermore, the screws are cleanroom washed, cleanroom packed, and comply with clean specifications that require no oil or foreign matter deposits.
- For information on chemical resistance test details please contact Sales.



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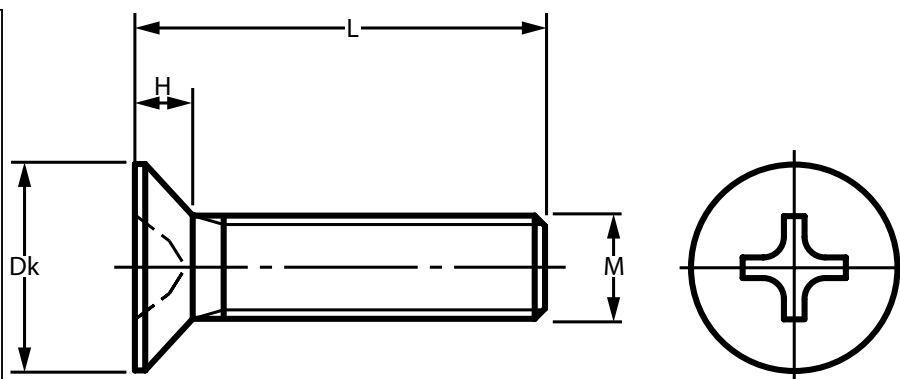
Product information updated May 2017 and subject to change. Please click the product links for prices and availability.

FASTENERS

SPE-F

Cross Recessed Countersunk Machine Screws

PEEK† : M2 - M8



Part Number	Thread M	L	Dk	H	Tensile Breaking Force* (N)	Torsional Breaking Torque* (Nm)	Mass g	Quantity per Pack
SPE-M2X6-F	M2	6	4.0	1.20	160	0.06	0.030	20
SPE-M2X8-F	M2	8	4.0	1.20	160	0.06	0.035	20
SPE-M2.6X4-F	M2.6	4	5.2	1.50	312	0.16	0.045	20
SPE-M2.6X6-F	M2.6	6	5.2	1.50	312	0.16	0.055	20
SPE-M3X6-F	M3	6	6.0	1.75	430	0.30	0.088	20
SPE-M3X8-F	M3	8	6.0	1.75	430	0.30	0.100	20
SPE-M3X10-F	M3	10	6.0	1.75	430	0.30	0.120	20
SPE-M3X12-F	M3	12	6.0	1.75	430	0.30	0.130	20
SPE-M3X15-F	M3	15	6.0	1.75	430	0.30	0.150	20
SPE-M3X16-F	M3	16	6.0	1.75	430	0.30	0.160	20
SPE-M3X20-F	M3	20	6.0	1.75	430	0.30	0.180	20
SPE-M3X25-F	M3	25	6.0	1.75	430	0.30	0.220	20
SPE-M4X6-F	M4	6	8.0	2.30	765	0.64	0.170	20
SPE-M4X8-F	M4	8	8.0	2.30	765	0.64	0.200	20
SPE-M4X10-F	M4	10	8.0	2.30	765	0.64	0.220	20
SPE-M4X12-F	M4	12	8.0	2.30	765	0.64	0.250	20
SPE-M4X15-F	M4	15	8.0	2.30	765	0.64	0.290	20
SPE-M4X16-F	M4	16	8.0	2.30	765	0.64	0.300	20
SPE-M4X20-F	M4	20	8.0	2.30	765	0.64	0.350	20
SPE-M4X25-F	M4	25	8.0	2.30	765	0.64	0.420	20
SPE-M5X8-F	M5	8	10.0	2.80	1,230	1.28	0.370	10
SPE-M5X10-F	M5	10	10.0	2.80	1,230	1.28	0.410	10
SPE-M5X12-F	M5	12	10.0	2.80	1,230	1.28	0.450	10
SPE-M5X15-F	M5	15	10.0	2.80	1,230	1.28	0.520	10
SPE-M5X20-F	M5	20	10.0	2.80	1,230	1.28	0.600	10
SPE-M5X25-F	M5	25	10.0	2.80	1,230	1.28	0.700	10
SPE-M5X30-F	M5	30	10.0	2.80	1,230	1.28	0.800	10
SPE-M6X10-F	M6	10	12.0	3.40	1,670	2.26	0.650	10
SPE-M6X15-F	M6	15	12.0	3.40	1,670	2.26	0.820	10
SPE-M6X20-F	M6	20	12.0	3.40	1,670	2.26	0.940	10
SPE-M6X30-F	M6	30	12.0	3.40	1,670	2.26	1.200	10
SPE-M8X20-F	M8	20	16.0	4.40	3,090	5.98	1.900	5
SPE-M8X25-F	M8	25	16.0	4.40	3,090	5.98	2.200	5
SPE-M8X30-F	M8	30	16.0	4.40	3,090	5.98	2.400	5

Material

PEEK (Polyetheretherketone), light brown. †PEEK is a registered trademark of Vitre™. Heat Resistance Temperature: 180°C. This is the value for the plastic material. The maximum operating temperature of the product changes with performance conditions such as tightening torque.

*Numerical values listed above are for reference only; they are not guaranteed under performance conditions. The recommended torque is 50% of the numerical values.

Precautions for Use

Because a cumulative pitch difference is created when PEEK screws are manufactured, use these screws with nuts. If a nut is not used, use a 20 mm or less fit with female thread.

Features

- PEEK is a thermoplastic super-engineering plastic with excellent physical and chemical properties.
- These screws have excellent chemical resistance. They are mostly unaffected by chemicals excluding concentrated sulfuric acid, concentrated nitric acid, and concentrated hydrofluoric acid.
- These screws have excellent heat resistance, water resistance, and high heat resistance strength.
- These screws have excellent abrasion, shock, and fatigue resistance.
- They have high incombustibility that meets V-0 of UL 94.

Applications

FPD production equipment, semiconductor devices, PCB etching devices, metallic surface treatment equipment and facilities, chemical plants, transformers, electrical and electronic equipment, hot water pumps, and chemical pumps.



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