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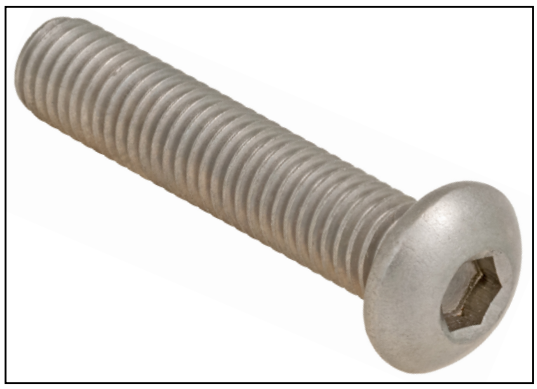
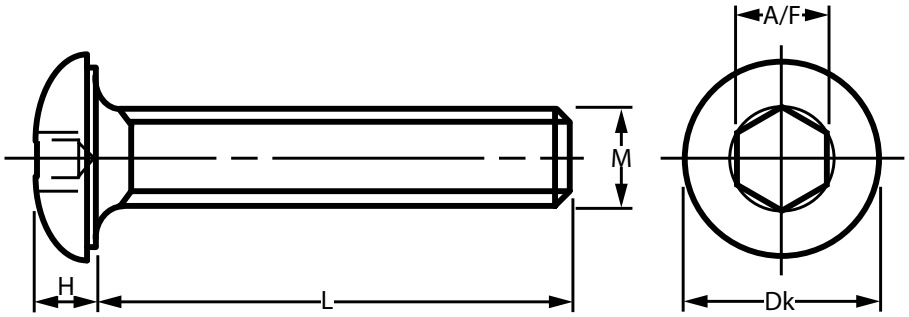
FASTENERS

BM

Socket Head Button Screws

Stainless Steel : ISO 7380 - A2 : M3 - M12





Part Number	Thread M	L	Dk	H	A/F
BM3-6	M3	6	5.7	1.65	2.0
BM3-8	M3	8	5.7	1.65	2.0
BM3-10	M3	10	5.7	1.65	2.0
BM3-12	M3	12	5.7	1.65	2.0
BM3-16	M3	16	5.7	1.65	2.0
BM4-6	M4	6	7.6	2.20	2.5
BM4-8	M4	8	7.6	2.20	2.5
BM4-10	M4	10	7.6	2.20	2.5
BM4-12	M4	12	7.6	2.20	2.5
BM4-16	M4	16	7.6	2.20	2.5
BM4-20	M4	20	7.6	2.20	2.5
BM4-25	M4	25	7.6	2.20	2.5
BM5-8	M5	8	9.5	2.75	3.0
BM5-10	M5	10	9.5	2.75	3.0
BM5-12	M5	12	9.5	2.75	3.0
BM5-16	M5	16	9.5	2.75	3.0
BM5-20	M5	20	9.5	2.75	3.0
BM5-25	M5	25	9.5	2.75	3.0
BM5-30	M5	30	9.5	2.75	3.0
BM5-35	M5	35	9.5	2.75	3.0
BM5-40	M5	40	9.5	2.75	3.0
BM5-50	M5	50	9.5	2.75	3.0
BM6-10	M6	10	10.5	3.30	4.0
BM6-12	M6	12	10.5	3.30	4.0
BM6-16	M6	16	10.5	3.30	4.0
BM6-20	M6	20	10.5	3.30	4.0
BM6-25	M6	25	10.5	3.30	4.0
BM6-30	M6	30	10.5	3.30	4.0

Part Number	Thread M	L	Dk	H	A/F
BM8-12	M8	12	14.0	4.40	5.0
BM8-16	M8	16	14.0	4.40	5.0
BM8-20	M8	20	14.0	4.40	5.0
BM8-25	M8	25	14.0	4.40	5.0
BM8-30	M8	30	14.0	4.40	5.0
BM8-40	M8	40	14.0	4.40	5.0
BM8-50	M8	50	14.0	4.40	5.0
BM8-60	M8	60	14.0	4.40	5.0
BM8-70	M8	70	14.0	4.40	5.0
BM10-16	M10	16	17.5	5.50	6.0
BM10-20	M10	20	17.5	5.50	6.0
BM10-25	M10	25	17.5	5.50	6.0
BM10-30	M10	30	17.5	5.50	6.0
BM10-35	M10	35	17.5	5.50	6.0
BM10-40	M10	40	17.5	5.50	6.0
BM10-50	M10	50	17.5	5.50	6.0
BM12-20	M12	20	21.0	6.60	8.0
BM12-25	M12	25	21.0	6.60	8.0
BM12-30	M12	30	21.0	6.60	8.0
BM12-35	M12	35	21.0	6.60	8.0
BM12-40	M12	40	21.0	6.60	8.0
BM12-50	M12	50	21.0	6.60	8.0
BM12-60	M12	60	21.0	6.60	8.0

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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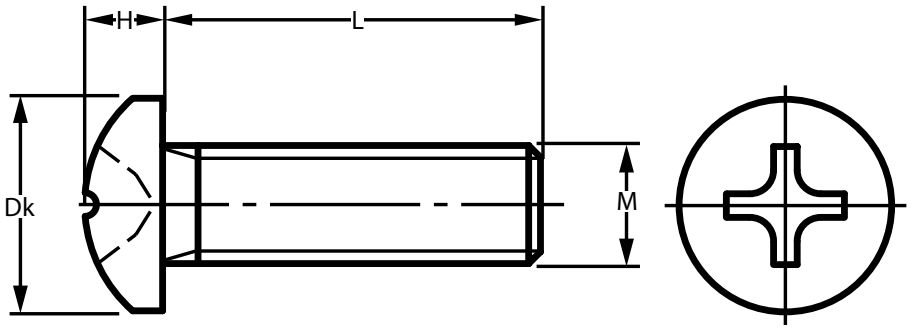
FASTENERS

SNPT

Cross Recessed Pan Head Machine Screws

Titanium : M2 - M5



Part Number	Thread M	L	Dk	H	Tensile Breaking Force* (N)	Tightening Torque Nm	Mass g
SNPT-M2X5	M2	5	3.5	1.3	840	0.3	0.09
SNPT-M2X6	M2	6	3.5	1.3	840	0.3	0.10
SNPT-M2X8	M2	8	3.5	1.3	840	0.3	0.12
SNPT-M2X10	M2	10	3.5	1.3	840	0.3	0.14
SNPT-M2.5X5	M2.5	5	4.5	1.7	1,380	0.5	0.17
SNPT-M2.5X6	M2.5	6	4.5	1.7	1,380	0.5	0.19
SNPT-M2.5X8	M2.5	8	4.5	1.7	1,380	0.5	0.23
SNPT-M2.5X10	M2.5	10	4.5	1.7	1,380	0.5	0.27
SNPT-M2.5X12	M2.5	12	4.5	1.7	1,380	0.5	0.30
SNPT-M3X6	M3	6	5.5	2.0	2,360	1.0	0.31
SNPT-M3X8	M3	8	5.5	2.0	2,360	1.0	0.35
SNPT-M3X10	M3	10	5.5	2.0	2,360	1.0	0.40
SNPT-M3X12	M3	12	5.5	2.0	2,360	1.0	0.44
SNPT-M3X16	M3	16	5.5	2.0	2,360	1.0	0.54
SNPT-M3X20	M3	20	5.5	2.0	2,360	1.0	0.63
SNPT-M4X6	M4	6	7.0	2.6	4,120	2.4	0.59
SNPT-M4X8	M4	8	7.0	2.6	4,120	2.4	0.68
SNPT-M4X10	M4	10	7.0	2.6	4,120	2.4	0.77
SNPT-M4X12	M4	12	7.0	2.6	4,120	2.4	0.86
SNPT-M4X16	M4	16	7.0	2.6	4,120	2.4	1.00
SNPT-M4X20	M4	20	7.0	2.6	4,120	2.4	1.20
SNPT-M4X25	M4	25	7.0	2.6	4,120	2.4	1.40
SNPT-M5X8	M5	8	9.0	3.3	6,670	5.1	1.30
SNPT-M5X10	M5	10	9.0	3.3	6,670	5.1	1.40
SNPT-M5X12	M5	12	9.0	3.3	6,670	5.1	1.50
SNPT-M5X16	M5	16	9.0	3.3	6,670	5.1	1.80
SNPT-M5X20	M5	20	9.0	3.3	6,670	5.1	2.10
SNPT-M5X25	M5	25	9.0	3.3	6,670	5.1	2.40
SNPT-M5X30	M5	30	9.0	3.3	6,670	5.1	2.80

Material

TB340C (Grade 2 Titanium).

SNPTG 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 x 10^{-6} °K^{-1}.
Electrical Resistance: 0.55 μΩ•m.
Amplitude Permeability: 1.0001μ (Nonmagnetic).
Tensile Strength: 270-410 N/mm^2.
0.2% Proof Stress: 165 (or higher) N/mm^2.
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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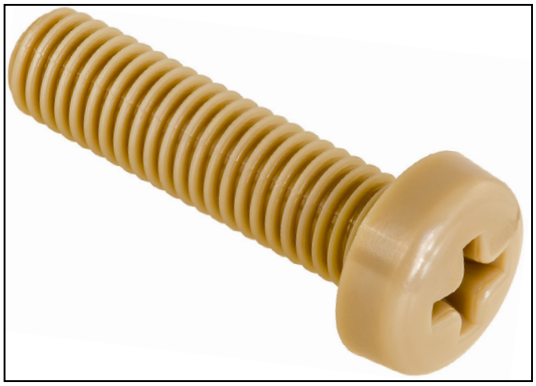
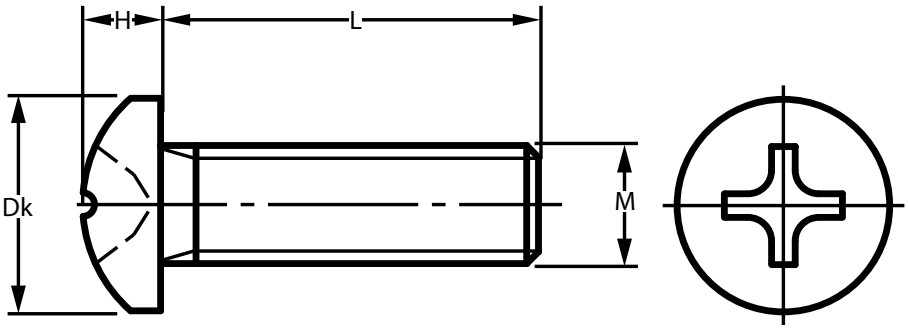
FASTENERS

SPE-P

Cross Recessed Pan Head Machine Screws

PEEK† : M1.7 - M3





Part Number	Thread M	L	Dk	H	Tensile Breaking Force* (N)	Torsional Breaking Torque* (Nm)	Quantity per Pack
SPE-M1.7X4-P	M1.7	4	2.5	0.5	59	0.02	20
SPE-M2X4-P	M2	4	3.5	1.3	160	0.06	20
SPE-M2X5-P	M2	5	3.5	1.3	160	0.06	20
SPE-M2X6-P	M2	6	3.5	1.3	160	0.06	20
SPE-M2X8-P	M2	8	3.5	1.3	160	0.06	20
SPE-M2X10-P	M2	10	3.5	1.3	160	0.06	20
SPE-M2X12-P	M2	12	3.5	1.3	160	0.06	20
SPE-M2.6X6-P	M2.6	6	4.5	1.7	312	0.16	20
SPE-M2.6X8-P	M2.6	8	4.5	1.7	312	0.16	20
SPE-M2.6X10-P	M2.6	10	4.5	1.7	312	0.16	20
SPE-M2.6X12-P	M2.6	12	4.5	1.7	312	0.16	20
SPE-M3X5-P	M3	5	5.5	2.0	430	0.30	20
SPE-M3X6-P	M3	6	5.5	2.0	430	0.30	20
SPE-M3X8-P	M3	8	5.5	2.0	430	0.30	20
SPE-M3X10-P	M3	10	5.5	2.0	430	0.30	20
SPE-M3X12-P	M3	12	5.5	2.0	430	0.30	20
SPE-M3X15-P	M3	15	5.5	2.0	430	0.30	20
SPE-M3X16-P	M3	16	5.5	2.0	430	0.30	20
SPE-M3X20-P	M3	20	5.5	2.0	430	0.30	20
SPE-M3X25-P	M3	25	5.5	2.0	430	0.30	20

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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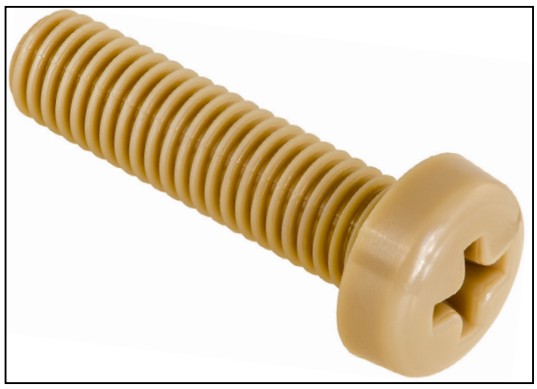
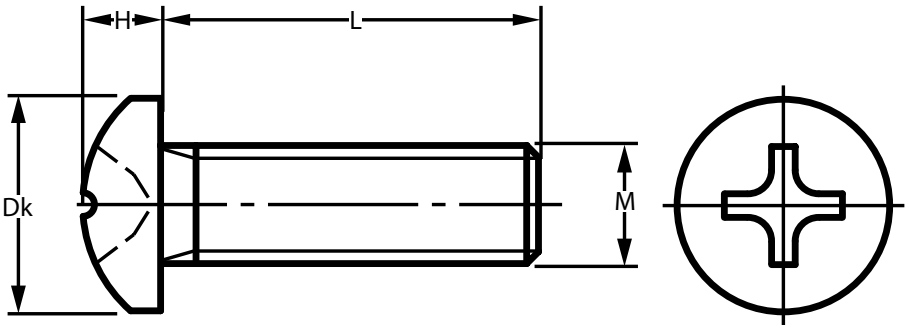
FASTENERS

SPE-P

Cross Recessed Pan Head Machine Screws

PEEK† : M4 - M8





Part Number	Thread M	L	Dk	H	Tensile Breaking Force* (N)	Torsional Breaking Torque* (Nm)	Quantity per Pack
SPE-M4X6-P	M4	6	7.0	2.6	765	0.64	20
SPE-M4X8-P	M4	8	7.0	2.6	765	0.64	20
SPE-M4X10-P	M4	10	7.0	2.6	765	0.64	20
SPE-M4X12-P	M4	12	7.0	2.6	765	0.64	20
SPE-M4X15-P	M4	15	7.0	2.6	765	0.64	20
SPE-M4X16-P	M4	16	7.0	2.6	765	0.64	20
SPE-M4X20-P	M4	20	7.0	2.6	765	0.64	20
SPE-M4X25-P	M4	25	7.0	2.6	765	0.64	20
SPE-M4X30-P	M4	30	7.0	2.6	765	0.64	20
SPE-M5X8-P	M5	8	9.0	3.3	1,230	1.28	10
SPE-M5X10-P	M5	10	9.0	3.3	1,230	1.28	10
SPE-M5X12-P	M5	12	9.0	3.3	1,230	1.28	10
SPE-M5X15-P	M5	15	9.0	3.3	1,230	1.28	10
SPE-M5X16-P	M5	16	9.0	3.3	1,230	1.28	10
SPE-M5X20-P	M5	20	9.0	3.3	1,230	1.28	10
SPE-M5X25-P	M5	25	9.0	3.3	1,230	1.28	10
SPE-M5X30-P	M5	30	9.0	3.3	1,230	1.28	10
SPE-M6X10-P	M6	10	10.5	3.9	1,670	2.26	10
SPE-M6X12-P	M6	12	10.5	3.9	1,670	2.26	10
SPE-M6X15-P	M6	15	10.5	3.9	1,670	2.26	10
SPE-M6X20-P	M6	20	10.5	3.9	1,670	2.26	10
SPE-M6X25-P	M6	25	10.5	3.9	1,670	2.26	10
SPE-M6X30-P	M6	30	10.5	3.9	1,670	2.26	10
SPE-M8X15-P	M8	15	14.0	5.2	3,090	5.98	5
SPE-M8X20-P	M8	20	14.0	5.2	3,090	5.98	5
SPE-M8X30-P	M8	30	14.0	5.2	3,090	5.98	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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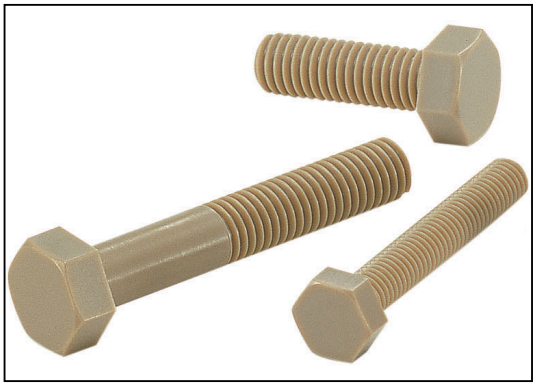
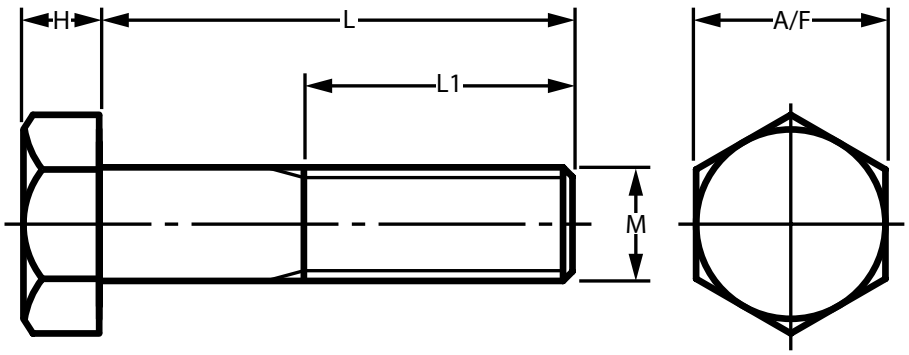
FASTENERS

SPE-H

Hexagon Head Machine Screws

PEEK† : M4 - M10





Part Number	Thread M	L	A/F	H	L1	Tensile Breaking Force* (N)	Torsional Breaking Torque* (Nm)	Mass g	Quantity per Pack
SPE-M4X8-H	M4	8	7	2.8	Full Thread	765	0.64	0.26	10
SPE-M4X10-H	M4	10	7	2.8	Full Thread	765	0.64	0.29	10
SPE-M4X15-H	M4	15	7	2.8	Full Thread	765	0.64	0.36	10
SPE-M4X20-H	M4	20	7	2.8	Full Thread	765	0.64	0.42	10
SPE-M4X25-H	M4	25	7	2.8	Full Thread	765	0.64	0.48	10
SPE-M5X10-H	M5	10	8	3.5	Full Thread	1,230	1.28	0.46	10
SPE-M5X15-H	M5	15	8	3.5	Full Thread	1,230	1.28	0.59	10
SPE-M5X20-H	M5	20	8	3.5	Full Thread	1,230	1.28	0.67	10
SPE-M5X25-H	M5	25	8	3.5	Full Thread	1,230	1.28	0.78	10
SPE-M5X30-H	M5	30	8	3.5	Full Thread	1,230	1.28	0.88	10
SPE-M6X10-H	M6	10	10	4.0	Full Thread	1,670	2.26	0.75	10
SPE-M6X12-H	M6	12	10	4.0	Full Thread	1,670	2.26	0.81	10
SPE-M6X15-H	M6	15	10	4.0	Full Thread	1,670	2.26	0.93	10
SPE-M6X20-H	M6	20	10	4.0	Full Thread	1,670	2.26	1.00	10
SPE-M6X25-H	M6	25	10	4.0	Full Thread	1,670	2.26	1.20	10
SPE-M6X30-H	M6	30	10	4.0	Full Thread	1,670	2.26	1.30	10
SPE-M6X35-H	M6	35	10	4.0	Full Thread	1,670	2.26	1.50	10
SPE-M6X40-H	M6	40	10	4.0	Full Thread	1,670	2.26	1.60	10
SPE-M8X10-H	M8	10	13	5.5	Full Thread	3,090	5.98	1.60	5
SPE-M8X15-H	M8	15	13	5.5	Full Thread	3,090	5.98	1.90	5
SPE-M8X20-H	M8	20	13	5.5	Full Thread	3,090	5.98	2.10	5
SPE-M8X25-H	M8	25	13	5.5	Full Thread	3,090	5.98	2.40	5
SPE-M8X30-H	M8	30	13	5.5	Full Thread	3,090	5.98	2.80	5
SPE-M8X40-H	M8	40	13	5.5	Full Thread	3,090	5.98	3.40	5
SPE-M8X50-H	M8	50	13	5.5	27	3,090	5.98	4.10	5
SPE-M10X20-H	M10	20	17	7.0	Full Thread	4,900	10.80	4.00	1
SPE-M10X25-H	M10	25	17	7.0	Full Thread	4,900	10.80	4.40	1
SPE-M10X30-H	M10	30	17	7.0	Full Thread	4,900	10.80	4.80	1

Material

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