



 **Cuttingtool / Parts**
CMT Co., Ltd.

Head Office **CMT CO.,LTD.**

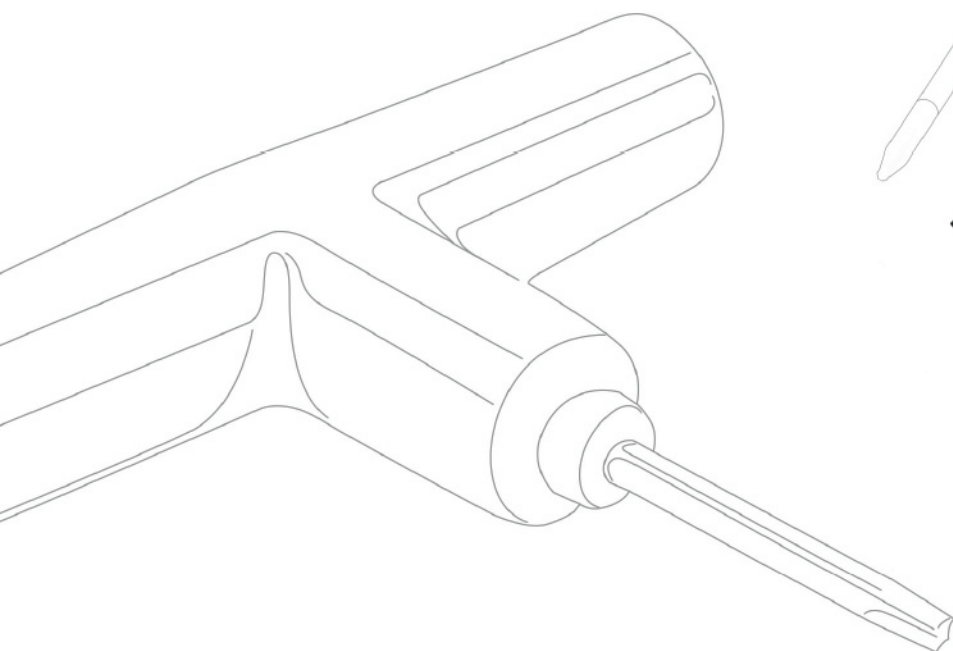
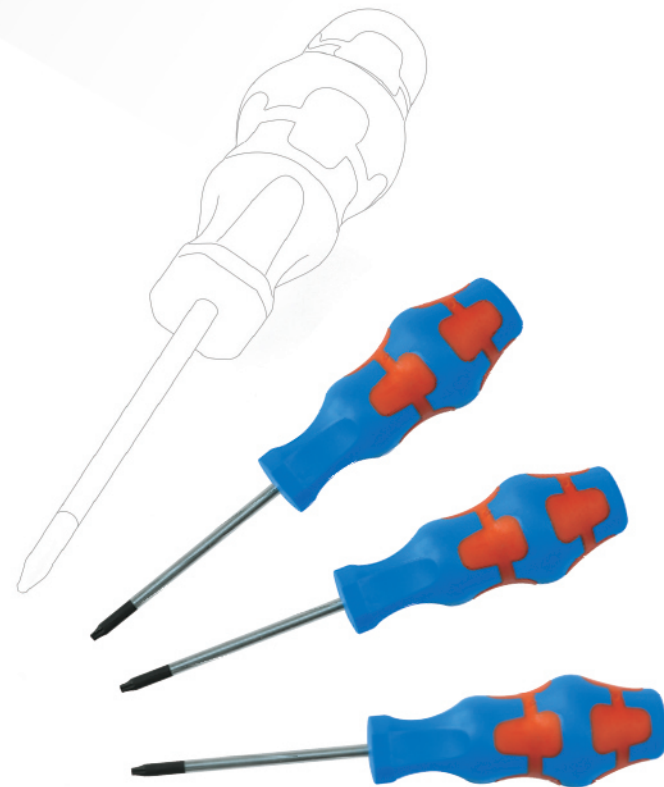
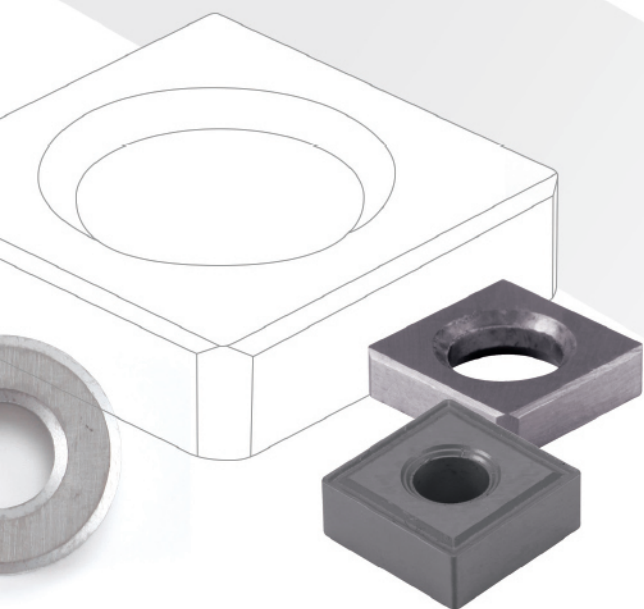
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Characteristics of screws

- Mechanical property is excellent and dimensional accuracy is high due to cold forging process.
- Guaranteed strength grade over 12.9 by using high tension material.
- Adjusting the screw grade according to the demand, such as 4h and 6g.

Ex

Way to check the product specifications

S	T	2	043-	60	F	-HS
Form of use	Wrench	Metric thread	Length	Angle	Additional items	High+Strength
S : screw on type C : clamp on type W : for wedge L : for locator AD : adjustable Etc : for special	T : torx H : hexagonal TP : torx plus				F : fine screw None : normal screw M : machining Etc : for specials	

X-Treatment

X-Treatment refers to CMT's exclusive technology, which uses expanded heat treatment on metal or alloy surfaces to create the hardened layer that customers demand.

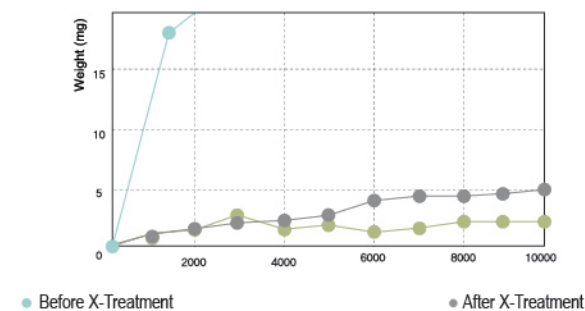
Characteristics

- Outstanding abrasion and corrosion resistance
- Guaranteed to be adherence-free, fracture-free
- Able to adjust thickness of hardened layer
- Able to adjust surface hardness and in-depth hardness
 - Surface hardness : over 68 HRC
 - In-depth hardness : adjustable according to use
- Guaranteed zero-deformation after heat treatment

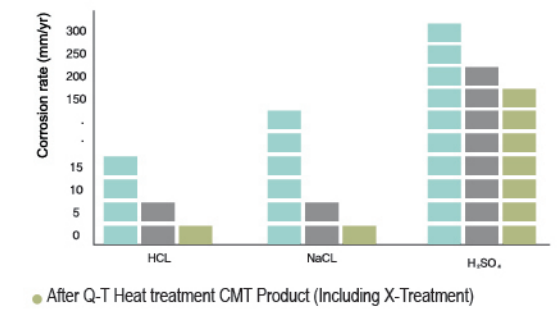
Testing Data

- Sample : Low carbon steel(C:0.04%, Mn:0.17%)
- Testing meting method : 2kg load, 72rpm wheel spinning speed, using diamond wheel with average particle size of 20 μ m

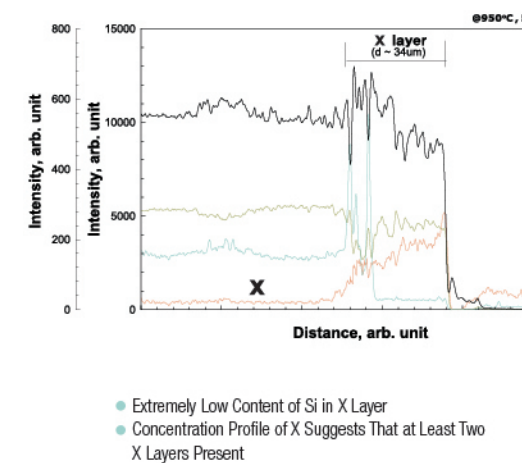
Comparison of Abrasion Resistance



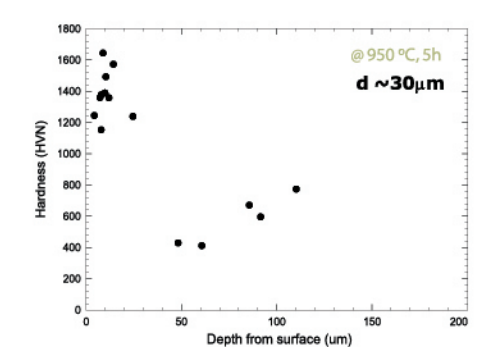
Comparison of Corrosion Resistance



Redistribution of Alloying Elements



Changes in Hardness by w/t Distance



SCREW

- Screw on
- Ball Cutter Screw
- Drill Fixing Screw
- Clamp Screw
- Multi Screw
- Shim Screw
- Adjust Screw
- Locator Screw
- Wedge Double Screw
- Special Screw
- Nut



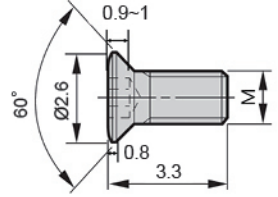
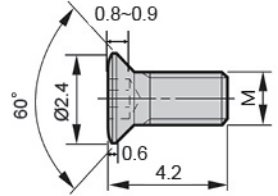
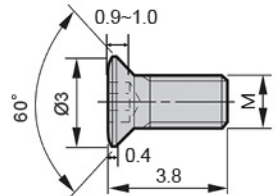
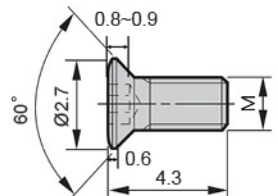
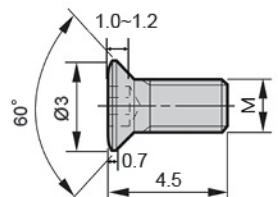
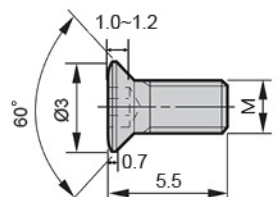
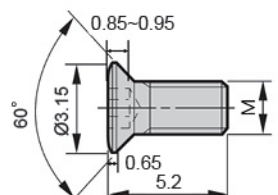
※ 14.9 grade

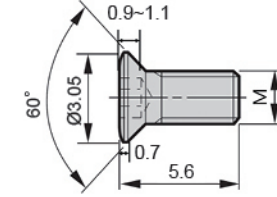
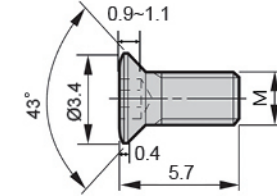
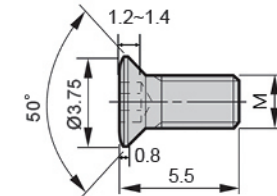
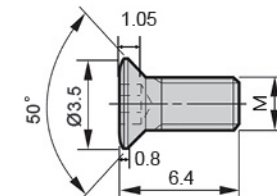
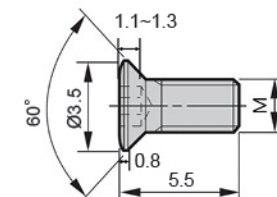
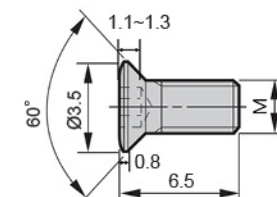
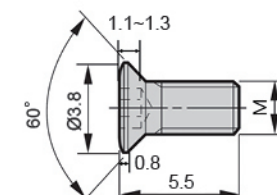
14.9 grade screw are higher toughness than 12.9 grade screws and 1,400N/mm² of tensile strength.

Comparison of mechanical property

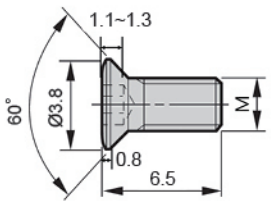
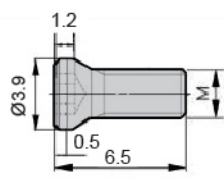
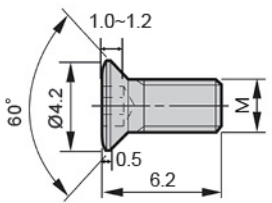
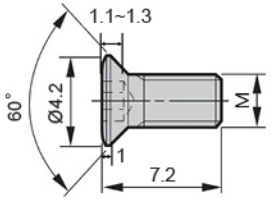
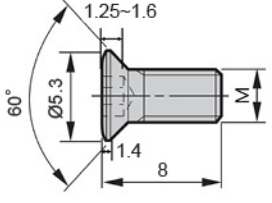
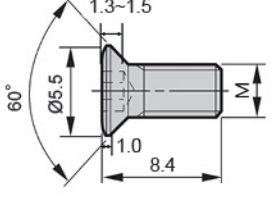
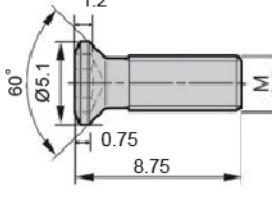
Grade	Tensile strength (N/mm ²)	0.2% Yield strength (N/mm ²)	Proof load (N/mm ²)
8.8	800	640	580
10.9	1,000	900	830
12.9	1,200	1,080	970
14.9	1,400	1,260	1,120

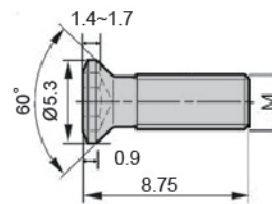
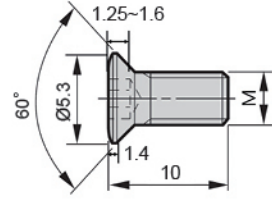
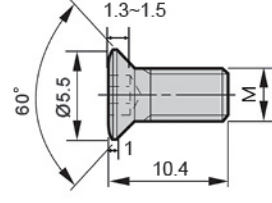
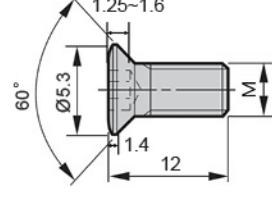
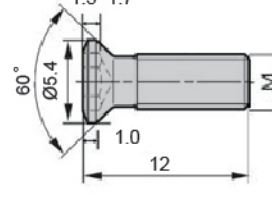
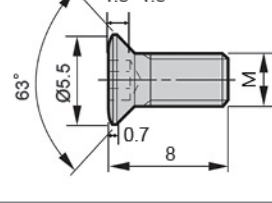
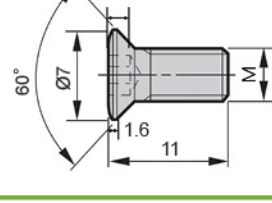
SCREW ON

Grade - 14.9				
Shape	Part No.	M	Torque N·m	Wrench
	ST16033-60-HS	M1.6 × 0.35	0.25	T6
	ST18042-60-HS	M1.8 × 0.35	0.3	T6
	ST2038-60-HS	M2.0 × 0.4	0.5	T6
	ST2043-60-HS	M2.0 × 0.4	0.5	T6
	ST22045-60-HS	M2.2 × 0.45	0.6	T6
	ST2255-60-HS	M2.2 × 0.45	0.6	T6
	ST22052-60-HS	M2.2 × 0.45	0.6	T7

Shape	Part No.	M	Torque N·m	Wrench
	ST22056-60S-HS	M2.2 × 0.45	0.6	T7
	ST25057-43-HS	M2.5 × 0.45	1	T7
	ST25055-50-HS	M2.5 × 0.45	1	T8
	ST25064-50-HS	M2.5 × 0.45	1	T8
	ST25055-60-HS	M2.5 × 0.45	1	T7
	ST25065-60-HS	M2.5 × 0.45	1	T7
	ST25055-60S-HS	M2.5 × 0.45	1	T8

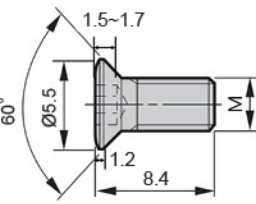
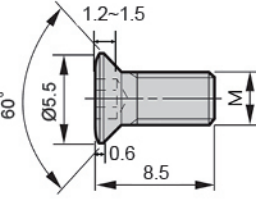
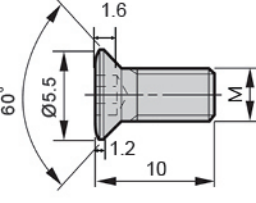
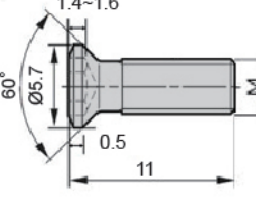
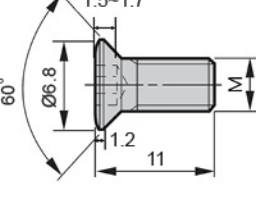
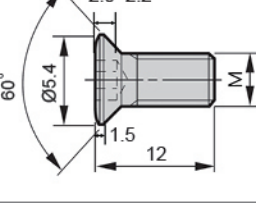
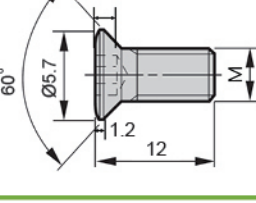
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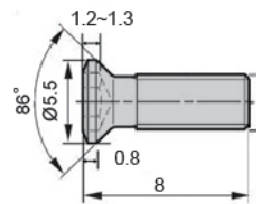
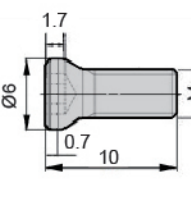
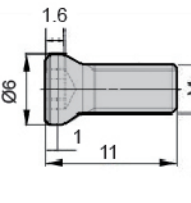
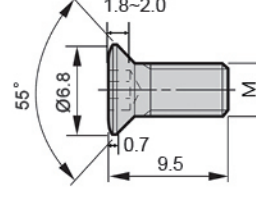
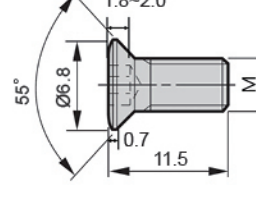
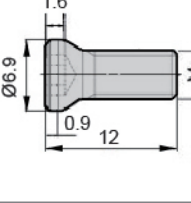
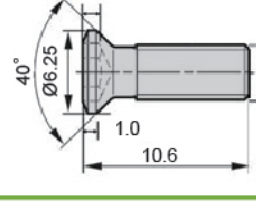
Grade - 14.9				
Shape	Part No.	M	Torque N·m	Wrench
	ST25065-60S-HS	M2.5 × 0.45	1	T8
	ST25065-R1.9-HS	M2.5 × 0.45	1	T8
	ST3062-60-HS	M3.0 × 0.5	2	T9
	ST3072-60H-HS	M3.0 × 0.5	2	T9
	ST3508-60-HS	M3.5 × 0.6	3	T15
	ST35084-60H-HS	M3.5 × 0.6	3	T15
	ST35087-60U-HS	M3.5 × 0.6	3	T10

Shape	Part No.	M	Torque N·m	Wrench
	ST35087-60-HS	M3.5 × 0.6	3	T15
	ST3510-60-HS	M3.5 × 0.6	3	T15
	ST35104-60-HS	M3.5 × 0.6	3	T15
	ST3512-60-HS	M3.5 × 0.6	3	T15
	ST3512-60B-HS	M3.5 × 0.6	3	T15
	ST3508-63-HS	M3.5 × 0.6	3	T15
	ST411-60F-HS	M4 × 0.5	4	T15

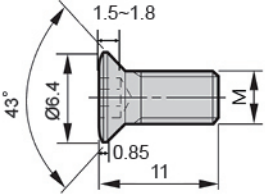
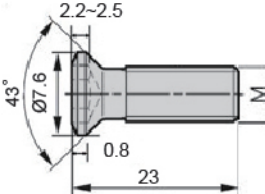
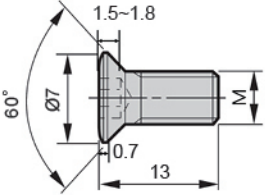
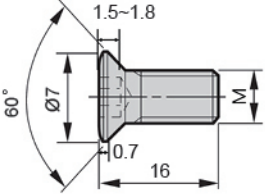
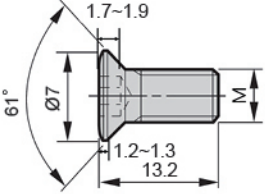
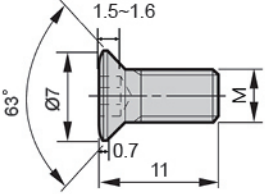
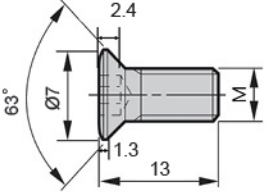
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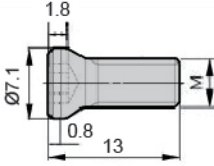
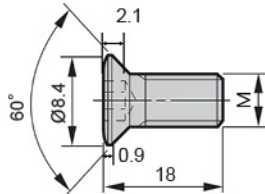
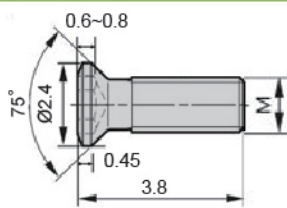
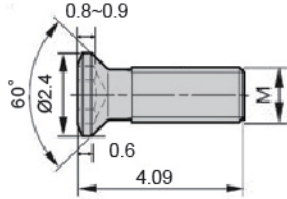
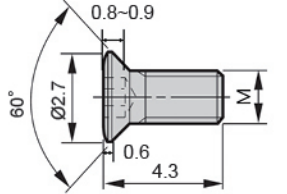
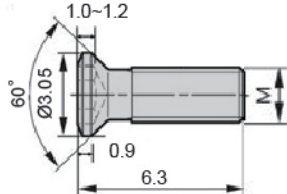
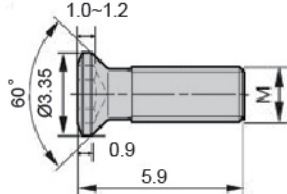
Grade - 14.9

Shape	Part No.	M	Torque N·m	Wrench
	ST4084-60-HS	M4.0 × 0.7	4	T15
	ST4085-60-HS	M4.0 × 0.7	4	T15
	ST410-60H-HS	M4.0 × 0.7	4	T15
	ST411-60-HS	M4.0 × 0.7	4	T15
	ST411-60W-HS	M4.0 × 0.7	4	T15
	ST412-60K-HS	M4x0.7	4	T15
	ST412-60-HS	M4 × 0.7	4	T15

Shape	Part No.	M	Torque N·m	Wrench
	ST408-86-HS	M4x0.7	4	T15
	ST410-R3-HS	M4.0 × 0.7	4	T15
	ST411-R3-HS	M4.0 × 0.7	4	T15
	ST45095-55-HS	M4.5x0.75	5	T20
	ST45115-55-HS	M4.5x0.75	5	T20
	ST4512-R3.5-HS	M4.5 × 0.75	5	T20
	ST5106-40-HS	M5 × 0.8	7	T20

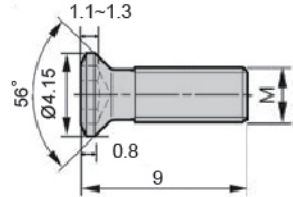
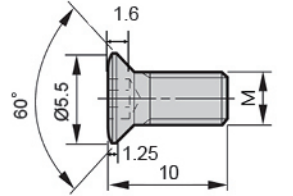
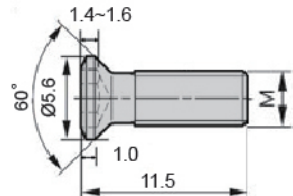
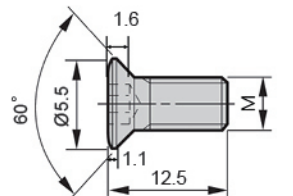
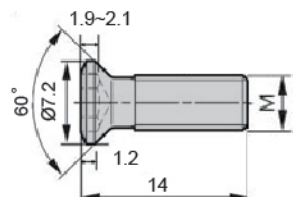
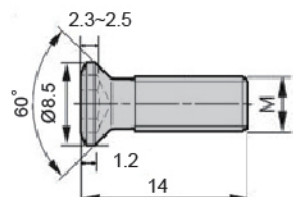
SCREW ON

Grade - 14.9				
Shape	Part No.	M	Torque N·m	Wrench
	ST511-43K-HS	M5x0.8	7	T20
	ST523-43-HS	M5 x 0.8	7	T20
	ST513-60-HS	M5 × 0.8	5	T20
	ST516-60-HS	M5 × 0.8	5	T20
	ST5132-61-HS	M5 × 0.8	7	T20
	ST511-63-HS	M5 × 0.8	5	T20
	ST513-63PH-HS	M5 × 0.8	5	T20

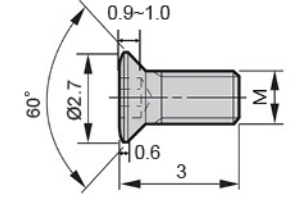
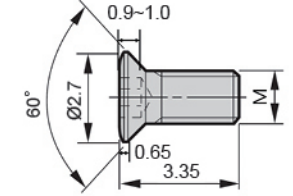
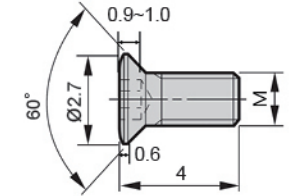
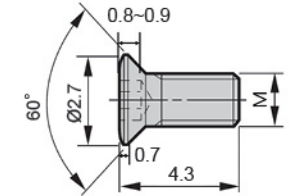
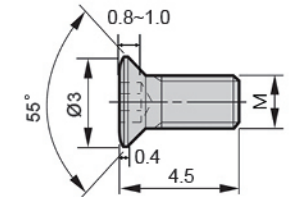
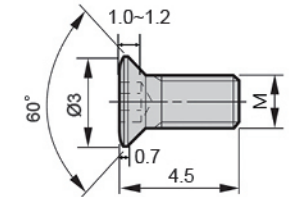
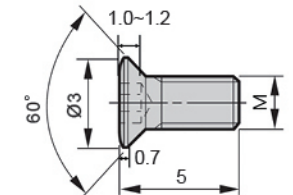
Grade - 14.9				
Shape	Part No.	M	Torque N·m	Wrench
	ST513-R3.5-HS	M5 × 0.8	7	T20
	ST618-60-HS	M6x1.0	7	T25
Grade - 14.9 + TORX PLUS				
	STP18038-75-HS	M1.8 × 0.35	0.3	T5 IP
	STP18041-60-HS	M1.8 × 0.35	0.3	T6 IP
	STP2043-60-HS	M2.0 × 0.4	0.5	T6 IP
	STP22063-60-HS	M2.2 × 0.45	0.6	T7 IP
	STP25059-60-HS	M2.5 × 0.45	1	T8 IP

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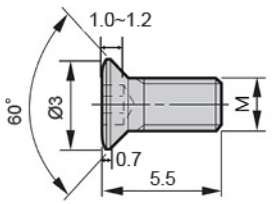
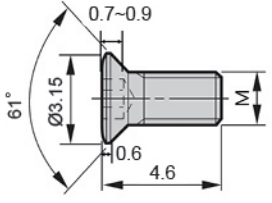
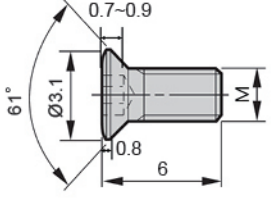
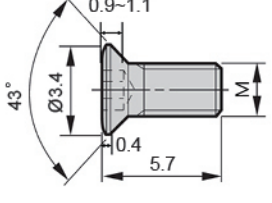
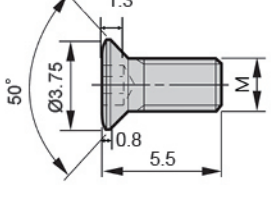
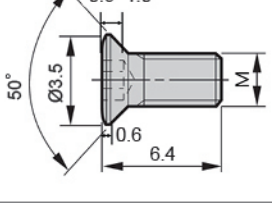
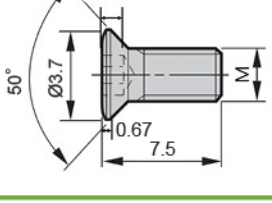
Grade - 14.9 + TORX PLUS

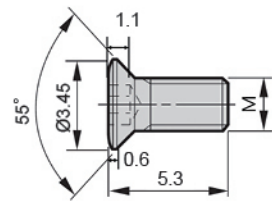
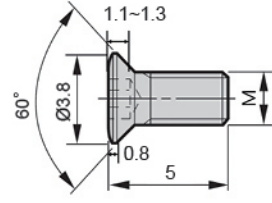
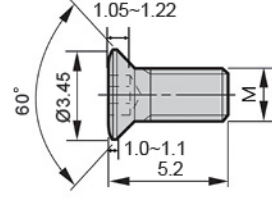
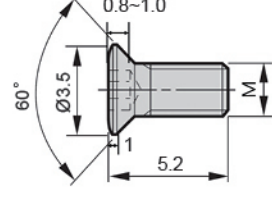
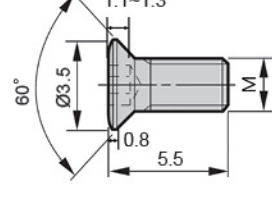
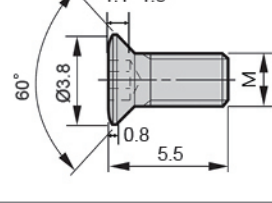
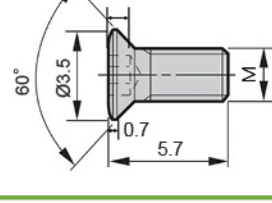
Shape	Part No.	M	Torque N·m	Wrench
	STP309-56-HS	M3.0 × 0.5	2	T9 IP
	STP410-60H-HS	M4.0 × 0.7	4	T15 IP
	STP4115-60-HS	M4.0 × 0.7	4	T15 IP
	STP4125-60B-HS	M4.0 × 0.7	4	T15 IP
	STP514-60-HS	M5.0 × 0.8	7	T20 IP
	STP614-60-HS	M6.0 × 1.0	8	T25 IP

Grade - 12.9

Shape	Part No.	M	Torque N·m	Wrench
	ST203-60	M2 × 0.4	0.5	T6
	ST20335-60	M2 × 0.4	0.5	T6
	ST204-60S	M2 × 0.4	0.5	T6
	ST2043-60	M2 × 0.4	0.5	T6
	ST22045-55	M2.2 × 0.45	0.6	T6
	ST22045-60	M2.2 × 0.45	0.6	T6
	ST2205-60S	M2.2 × 0.45	0.6	T6

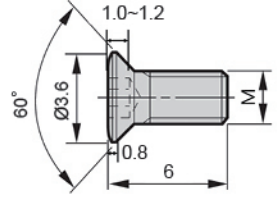
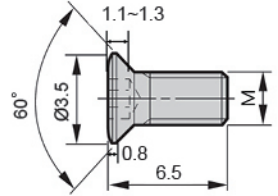
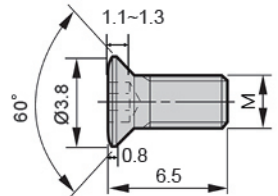
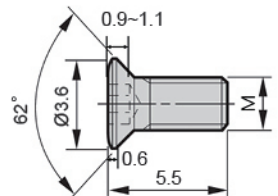
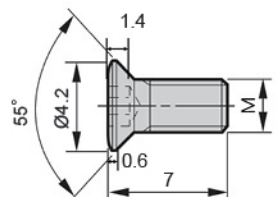
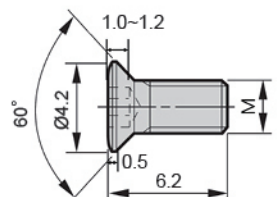
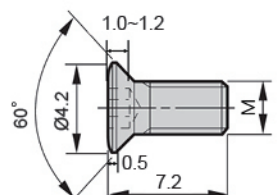
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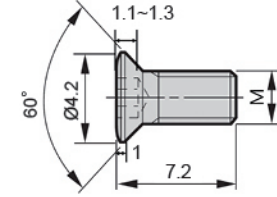
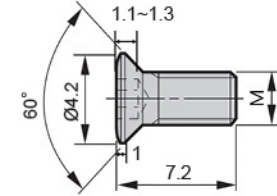
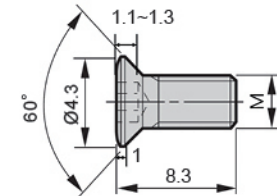
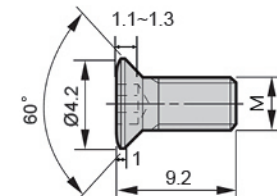
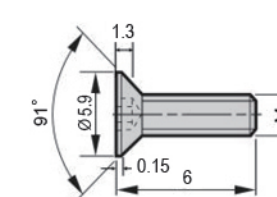
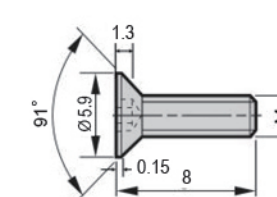
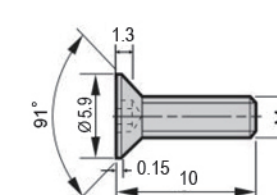
Grade - 12.9				
Shape	Part No.	M	Torque N·m	Wrench
	ST2255-60	M2.2 × 0.45	0.6	T6
	ST22046-61	M2.2 × 0.45	0.6	T7
	ST2206-61	M2.2 × 0.45	0.6	T7
	ST25057-43	M2.5 × 0.45	1	T7
	ST25055-50	M2.5 × 0.45	1	T8
	ST25064-50	M2.5 × 0.45	1	T8
	ST25075-50	M2.5 × 0.45	1	T8

Shape	Part No.	M	Torque N·m	Wrench
	ST2553-55	M2.5 × 0.45	1	T8
	ST2505-60S(T8)	M2.5 × 0.45	1	T8
	ST25052-60(T8)	M2.5 × 0.45	1	T8
	ST25052-60	M2.5 × 0.45	1	T7
	ST25055-60	M2.5 × 0.45	1	T7
	ST25055-60S(T8)	M2.5 × 0.45	1	T8
	ST25057-60	M2.5 × 0.45	1	T8

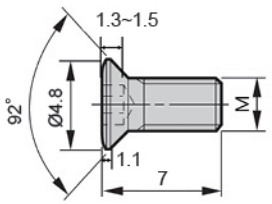
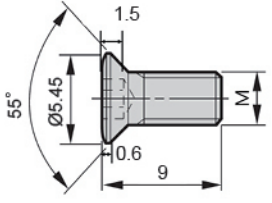
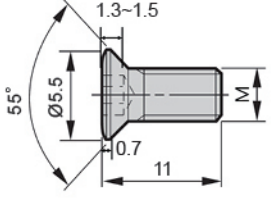
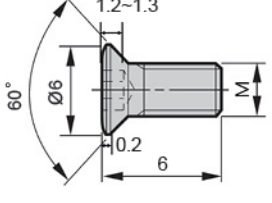
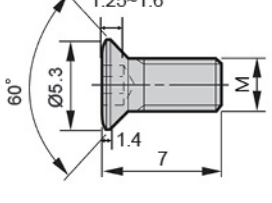
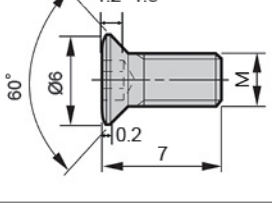
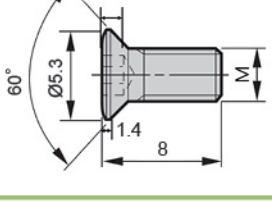
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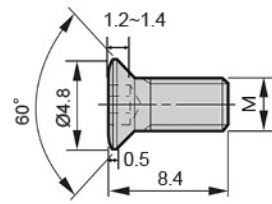
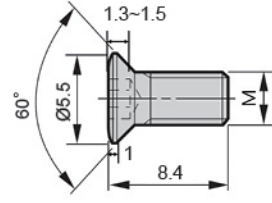
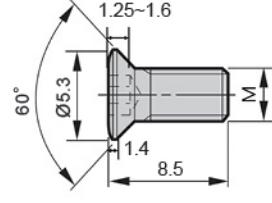
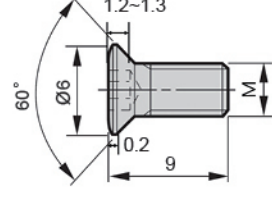
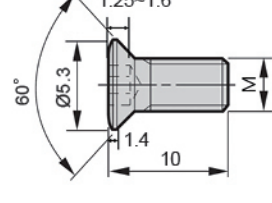
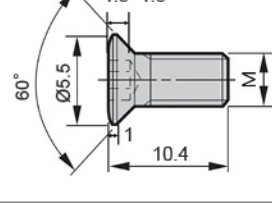
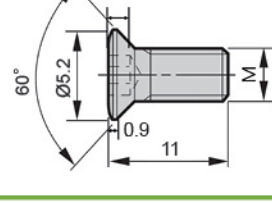
Grade - 12.9

Shape	Part No.	M	Torque N·m	Wrench
	ST25060-60S	M2.5 × 0.45	1	T8
	ST25065-60	M2.5 × 0.45	1	T7
	ST25065-60S(T8)	M2.5 × 0.45	1	T8
	ST25055-62	M2.5 × 0.45	1	T8
	ST307-55	M3 × 0.5	1.8	T8
	ST3062-60	M3 × 0.5	1.8	T9
	ST3072-60	M3 × 0.5	1.8	T9

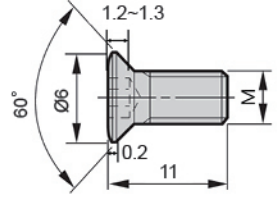
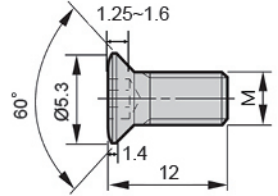
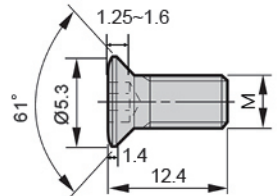
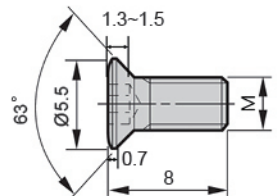
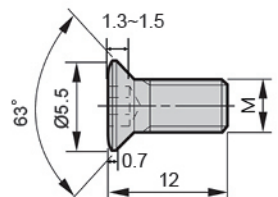
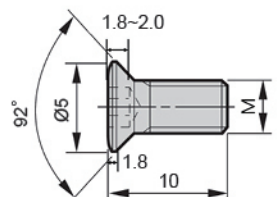
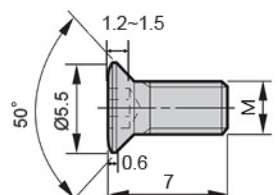
Shape	Part No.	M	Torque N·m	Wrench
	ST3072-60IJ	M3 × 0.5	1.8	T8
	ST3072-60H	M3 × 0.5	1.8	T9
	ST3083-60	M3 × 0.5	1.8	T9
	ST3092-60	M3 × 0.5	1.8	T9
	CH306-91	M3 × 0.5	2.5	H2
	CH308-91	M3 × 0.5	2.5	H2
	SH310-91	M3 × 0.5	2.5	H2

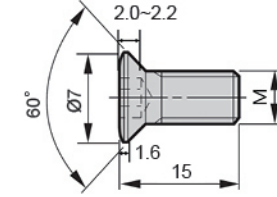
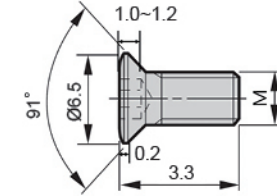
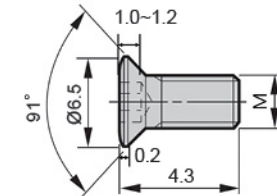
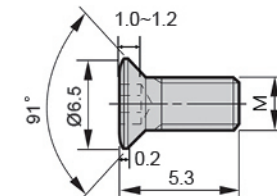
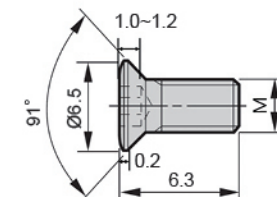
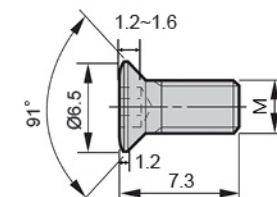
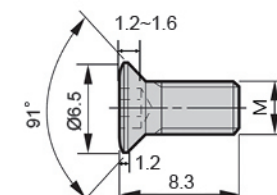
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Grade - 12.9				
Shape	Part No.	M	Torque N·m	Wrench
	ST307-92	M3 × 0.5	1	T8
	ST3509-55	M3.5 × 0.6	3	T15
	ST3511-55	M3.5 × 0.6	3	T15
	ST3506-60	M3.5 × 0.6	3	T15
	ST3507-60H	M3.5 × 0.6	3	T15
	ST3507-60	M3.5 × 0.6	3	T15
	ST3508-60	M3.5 × 0.6	3	T15

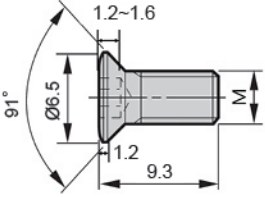
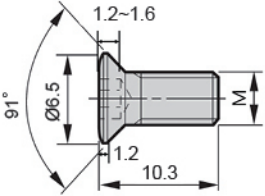
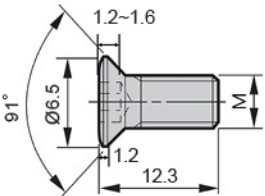
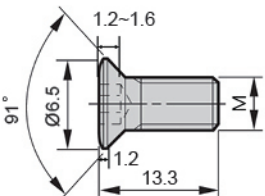
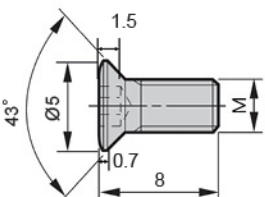
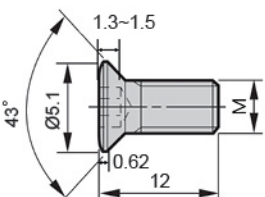
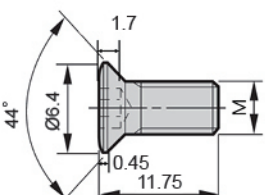
Shape	Part No.	M	Torque N·m	Wrench
	ST35084-60	M3.5 × 0.6	3	T10
	ST35084-60H	M3.5 × 0.6	3	T15
	ST35085-60	M3.5 × 0.6	3	T15
	ST3509-60	M3.5 × 0.6	3	T15
	ST3510-60	M3.5 × 0.6	3	T15
	ST35104-60	M3.5 × 0.6	3	T15
	ST3511-60A	M3.5 × 0.6	3	T15

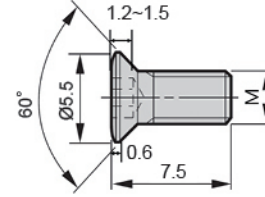
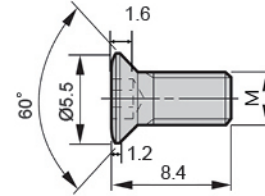
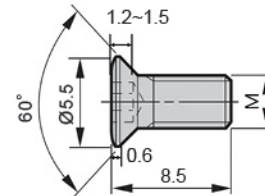
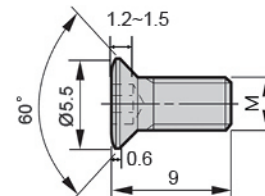
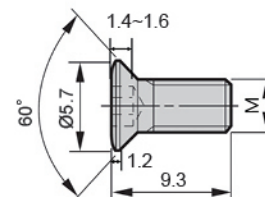
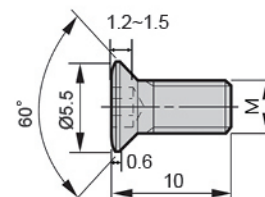
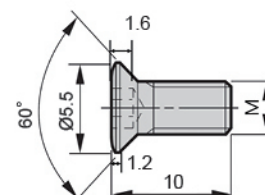
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Grade - 12.9				
Shape	Part No.	M	Torque N·m	Wrench
	ST3511-60	M3.5 × 0.6	3	T15
	ST3512-60	M3.5 × 0.6	3	T15
	ST35124-60	M3.5 × 0.6	3	T15
	ST3508-63	M3.5 × 0.6	3	T15
	ST3512-63	M3.5 × 0.6	3	T15
	ST3510-92	M3.5 × 0.6	3	T15
	ST407-50F	M4 × 0.5	4	T15

Shape	Part No.	M	Torque N·m	Wrench
	ST415-60F	M4 × 0.5	4	T15
	ST4033-91F	M4 × 0.5	4	T15
	ST4043-91F	M4 × 0.5	4	T15
	ST4053-91F	M4 × 0.5	4	T15
	ST4063-91F	M4 × 0.5	4	T15
	ST4073-91FH	M4 × 0.5	4	T15
	ST4083-91F	M4 × 0.5	4	T15

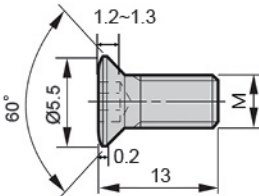
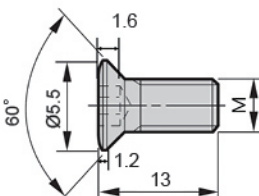
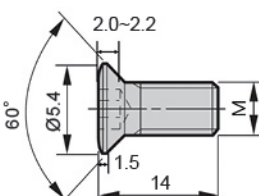
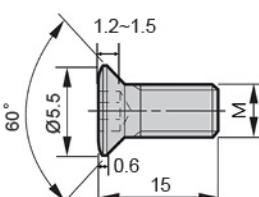
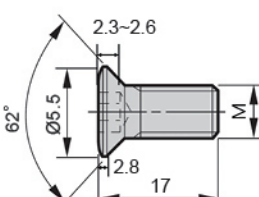
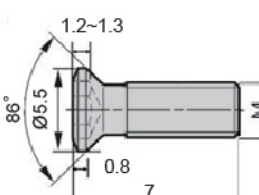
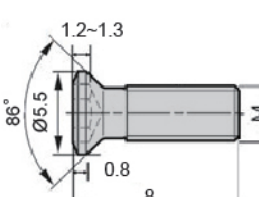
SCREW ON

Grade - 12.9				
Shape	Part No.	M	Torque N·m	Wrench
	ST4093-91F	M4 × 0.5	4	T15
	ST4103-91F	M4 × 0.5	4	T15
	ST4123-91F	M4 × 0.5	4	T15
	ST4133-91F	M4 × 0.5	4	T15
	ST408-43	M4 × 0.7	4	T15
	ST412-43	M4 × 0.7	4	T15
	ST41175-44	M4 × 0.7	4	T20

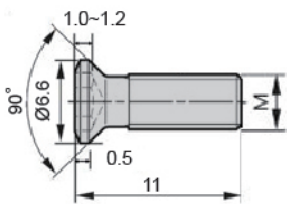
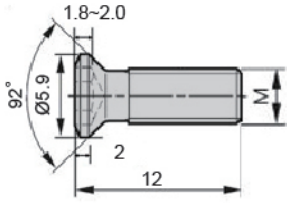
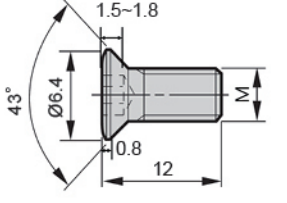
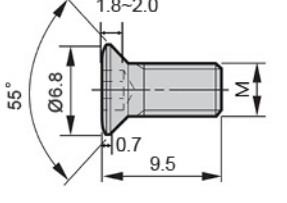
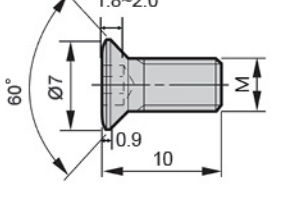
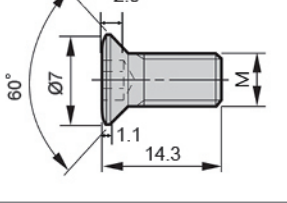
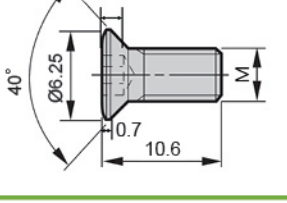
Shape	Part No.	M	Torque N·m	Wrench
	ST4075-60	M4 × 0.7	3.5	T15
	ST4084-60	M4 × 0.7	3.5	T15
	ST4085-60	M4x0.7	4	T15
	ST409-60	M4 × 0.7	4	T15
	ST4093-60	M4 × 0.7	3.5	T15
	ST410-60	M4 × 0.7	3.5	T15
	ST410-60H	M4 × 0.7	3.5	T15

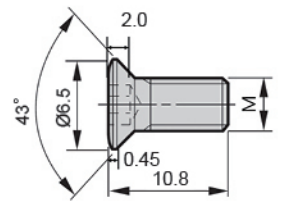
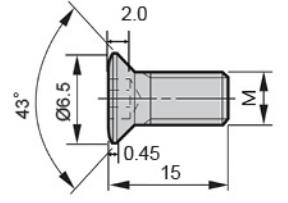
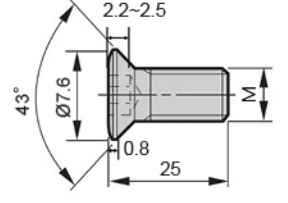
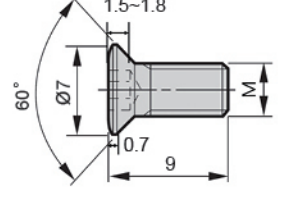
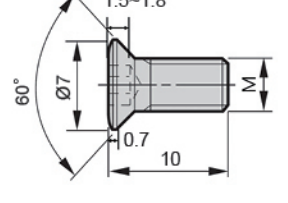
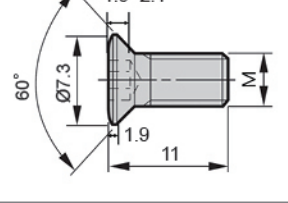
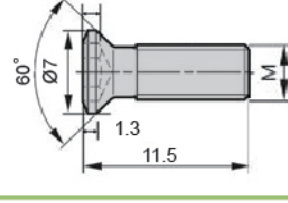
SCREW ON

Grade - 12.9				
Shape	Part No.	M	Torque N·m	Wrench
	ST4101-60W	M4 × 0.7	3.5	T15
	ST4108-60K	M4 × 0.7	3.5	T15
	ST411-60	M4 × 0.7	3.5	T15
	ST411-60W	M4 × 0.7	3.5	T15
	ST4112-60	M4 × 0.7	3.5	T15
	ST412-60	M4 × 0.7	3.5	T15
	ST4125-60B	M4 × 0.7	3.5	T15

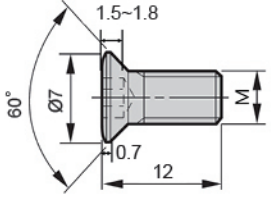
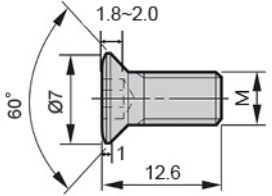
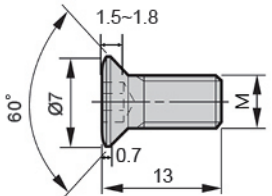
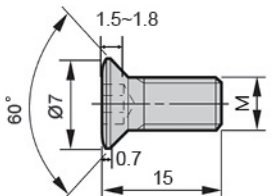
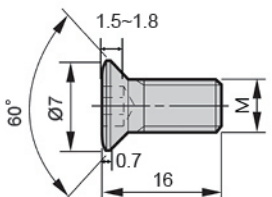
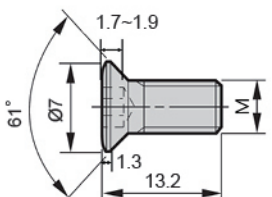
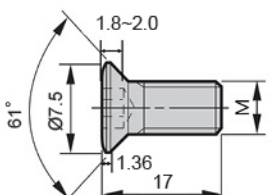
Shape	Part No.	M	Torque N·m	Wrench
	ST413-60	M4 × 0.7	3.5	T15
	ST413-60H	M4 × 0.7	3.5	T15
	ST414-60	M4 × 0.7	3.5	T15
	ST415-60	M4 × 0.7	3.5	T15
	ST417-62CBM	M4 × 0.7	3.5	T15
	ST407-86	M4 × 0.7	3.5	T15
	ST408-86	M4 × 0.7	3.5	T15

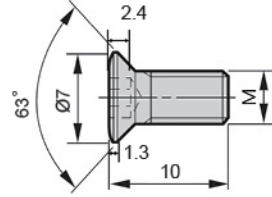
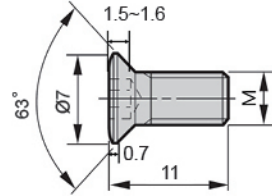
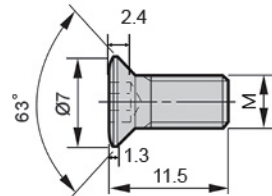
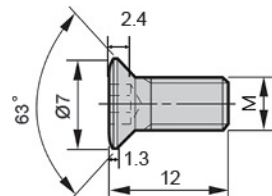
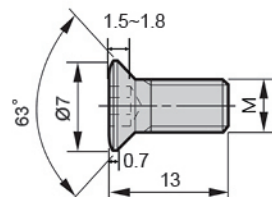
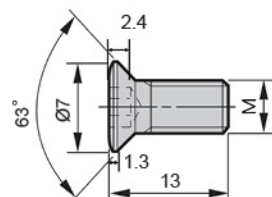
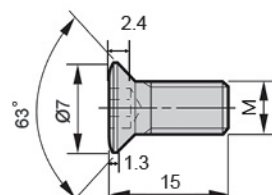
SCREW ON

Grade - 12.9				
Shape	Part No.	M	Torque N·m	Wrench
	ST411-90	M4 × 0.7	4	T15
	ST412-92	M4 × 0.7	3.5	T15
	ST4512-43	M4.5 × 0.75	5	T20
	ST45095-55	M4.5 × 0.75	5	T20
	ST4510-60	M4.5 × 0.75	5	T20
	ST45143-60	M4.5 × 0.75	5	T20
	ST5106-40	M5 × 0.8	5	T20

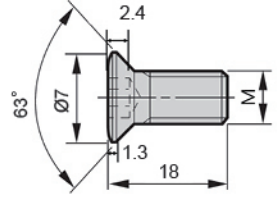
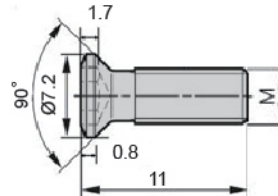
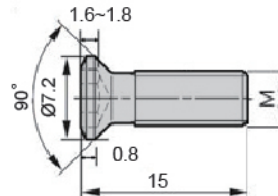
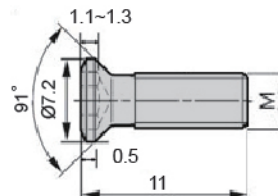
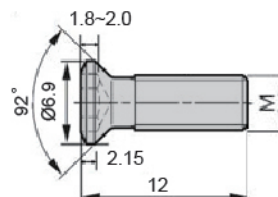
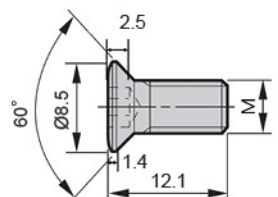
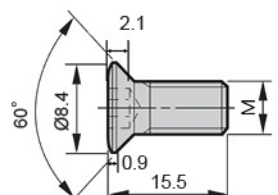
Shape	Part No.	M	Torque N·m	Wrench
	ST511-43	M5 × 0.8	5	T20
	ST515-43	M5 × 0.8	5	T20
	ST525-43	M5 × 0.8	6	T20
	ST509-60	M5 × 0.8	5	T20
	ST510-60	M5 × 0.8	5	T20
	ST511-60HM	M5 × 0.8	5	T20
	ST5115-60	M5 × 0.8	5	T20

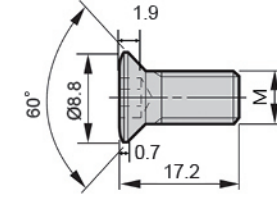
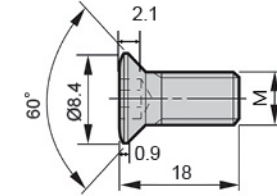
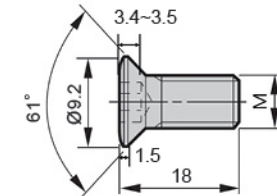
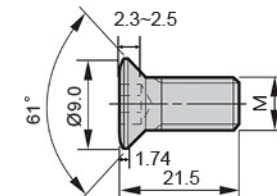
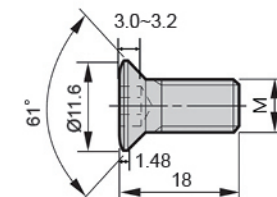
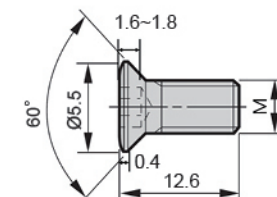
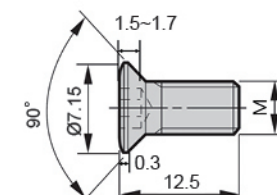
SCREW ON

Grade - 12.9				
Shape	Part No.	M	Torque N·m	Wrench
	ST512-60	M5 × 0.8	5	T20
	ST5126-60	M5 × 0.8	5	T20
	ST513-60	M5 × 0.8	5	T20
	ST515-60	M5 × 0.8	5	T20
	ST516-60	M5 × 0.8	5	T20
	ST5132-61	M5 × 0.8	5	T20
	ST517-61	M5 × 0.8	5	T20

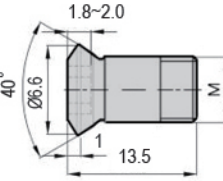
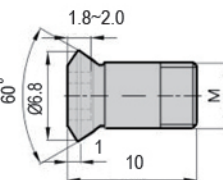
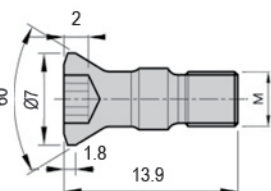
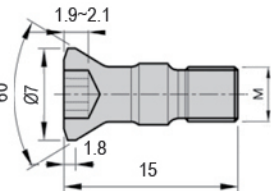
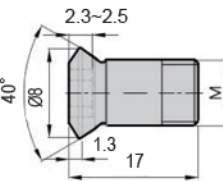
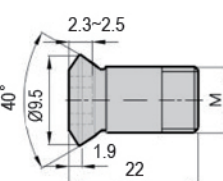
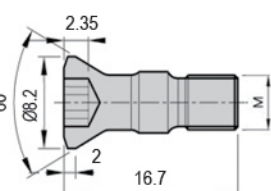
Shape	Part No.	M	Torque N·m	Wrench
	ST510-63P	M5 × 0.8	5	T20
	ST511-63	M5 × 0.8	5	T20
	ST5115-63P	M5 × 0.8	5	T20
	ST512-63P	M5 × 0.8	5	T20
	ST513-63P	M5 × 0.8	5	T20
	ST513-63PH	M5 × 0.8	5	T20
	ST515-63P	M5 × 0.8	5	T20

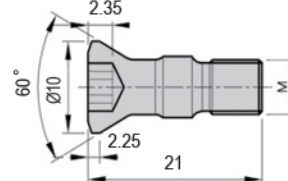
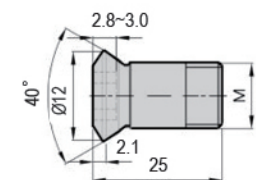
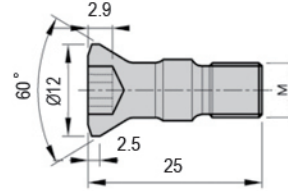
SCREW ON

Grade - 12.9				
Shape	Part No.	M	Torque N·m	Wrench
	ST518-63	M5 × 0.8	5	T20
	ST511-90	M5 × 0.8	5	T20
	ST515-90	M5 × 0.8	5	T20
	ST511-91A	M5 × 0.8	5	T15
	ST512-92	M5 × 0.8	5	T20
	ST6121-60	M6 × 1.0	7	T25
	ST6155-60	M6 × 1.0	7	T25

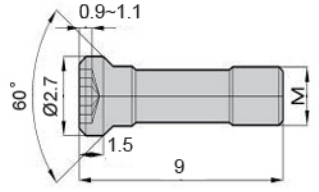
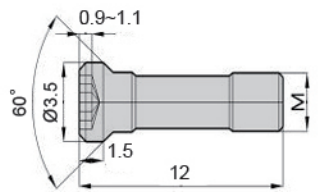
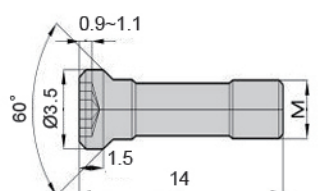
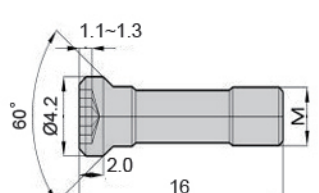
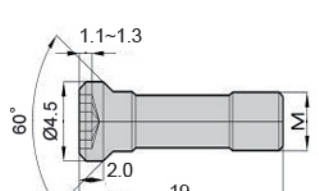
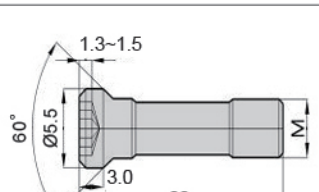
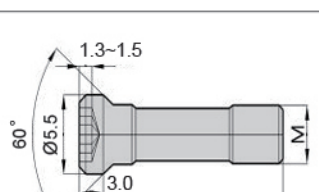
Shape	Part No.	M	Torque N·m	Wrench
	ST6172-60	M6 × 1.0	7	T20
	ST618-60	M6 × 1.0	7	T25
	SH618-61	M6 × 1.0	7	H4
	ST6215-61	M6 × 1.0	7	T20
	ST818-61	M8 × 1.25	12	T25
	ST6-32UNC-60	6-32UNC	4	T15
	ST10-32UNF-90	10-32UNF	4	T15

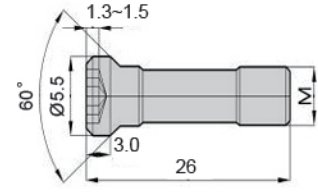
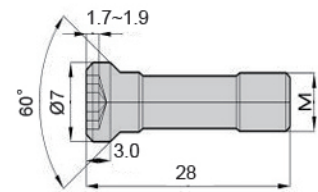
BALL CUTTER SCREW

Grade - 14.9				
Shape	Part No.	M	Torque N·m	Wrench
	STB5135-40-HS	M5 × 0.5	5	T20
	STB510-60-HS	M5 × 0.5	5	T20
	STB5139-60M-HS	M5 × 0.5	5	T20
	STB515-60M-HS	M5 × 0.5	5	T20
	STB617-40-HS	M6 × 0.75	7	T25
	STB622-40-HS	M6 × 0.75	7	T30
	STB6167-60M-HS	M6 × 0.75	7	T25

Shape	Part No.	M	Torque N·m	Wrench
	STB721-60M-HS	M7 × 0.75	7	T25
	STB825-40-HS	M8 × 0.75	12	T30
	STB825-60M-HS	M8 × 1.0	12	T30

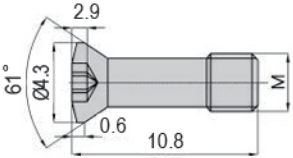
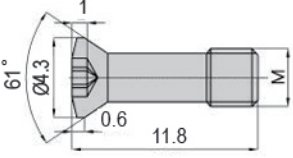
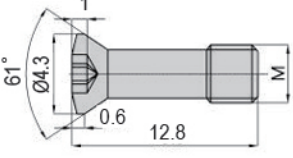
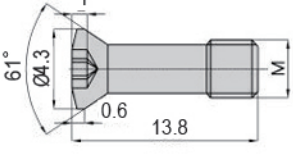
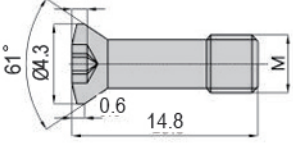
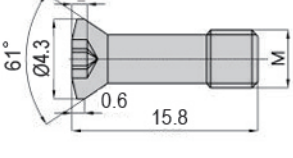
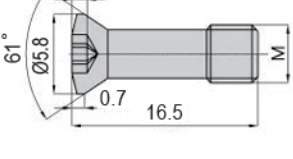
DRILL FIXING SCREW

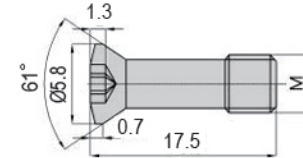
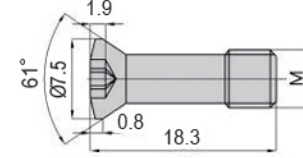
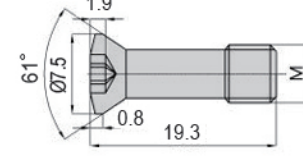
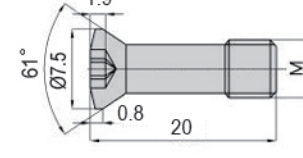
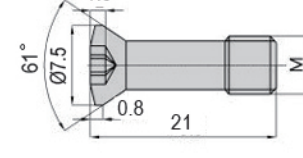
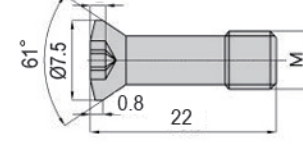
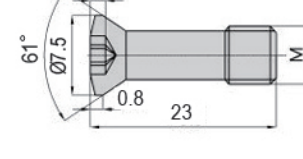
Grade - 14.9				
Shape	Part No.	M	Torque N·m	Wrench
	STB209-60M-HS	M2 × 0.4	0.8	T6
	STB2512-60M-HS	M2.5 × 0.45	1.2	T7
	STB2514-60M-HS	M2.5 × 0.45	1.2	T7
	STB316-60M-HS	M3 × 0.5	2	T9
	STB319-60M-HS	M3 × 0.5	2	T9
	STB3522-60M-HS	M3.5 × 0.6	3.5	T15
	STB3524-60M-HS	M3.5 × 0.6	3.5	T15

Shape	Part No.	M	Torque N·m	Wrench
	STB426-60M-HS	M4 × 0.7	3.5	T15
	STB528-60M-HS	M5 × 0.8	5	T20

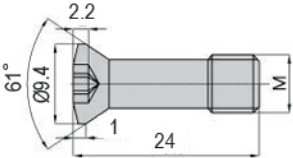
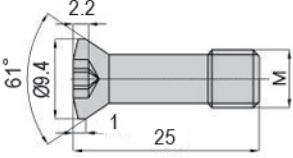
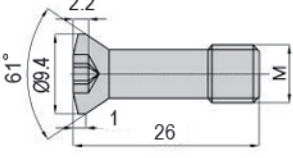
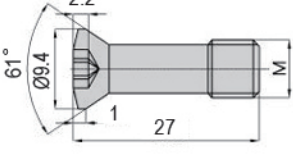
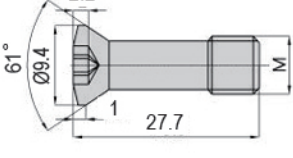
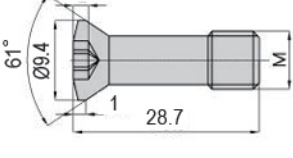
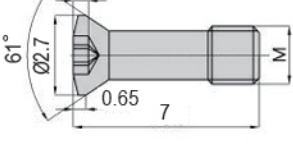
DRILL FIXING SCREW

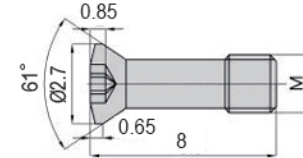
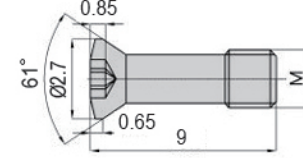
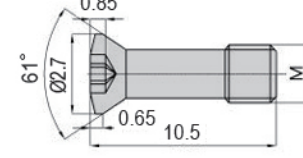
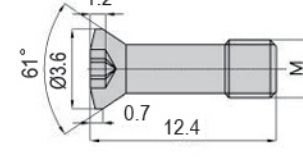
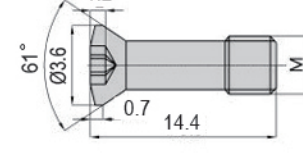
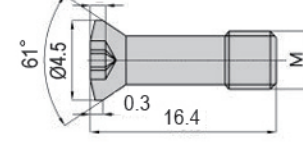
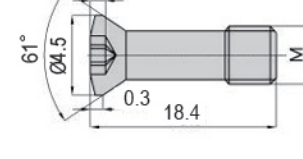
Grade - 12.9

Shape	Part No.	M	Torque N·m	Wrench
	STE3108-61	M3 × 0.5	1.8	T8
	STE3118-61	M3 × 0.5	1.8	T8
	STE3128-61	M3 × 0.5	1.8	T8
	STE3138-61	M3 × 0.5	1.8	T8
	STE3148-61	M3 × 0.5	1.8	T8
	STE3158-61	M3 × 0.5	1.8	T8
	STE4165-61	M4 × 0.7	4	T15

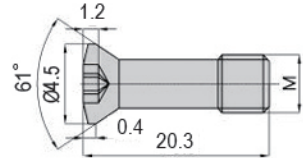
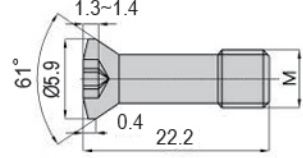
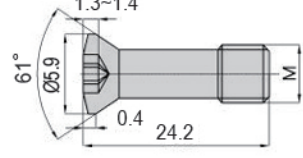
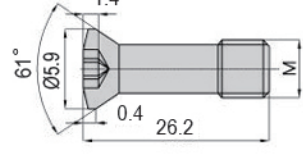
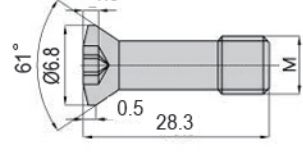
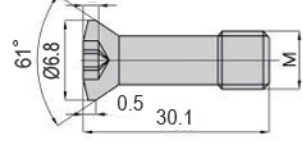
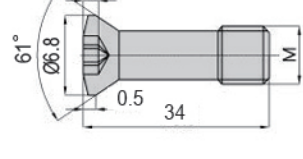
Shape	Part No.	M	Torque N·m	Wrench
	STE4175-61	M4 × 0.7	4	T15
	STE5183-61	M5 × 0.8	5	T20
	STE5193-61	M5 × 0.8	5	T20
	STE520-61	M5 × 0.8	5	T20
	STE5210-61	M5 × 0.8	5	T20
	STE522-61	M5 × 0.8	5	T20
	STE5230-61	M5 × 0.8	5	T20

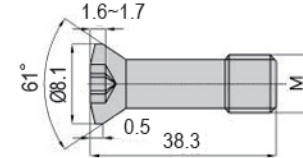
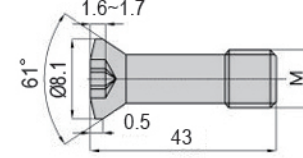
DRILL FIXING SCREW

Grade - 12.9				
Shape	Part No.	M	Torque N·m	Wrench
	STE624-61	M6 × 1.0	7	T25
	STE6250-61	M6 × 1.0	7	T25
	STE626-61	M6 × 1.0	7	T25
	STE6270-61	M6 × 1.0	7	T25
	STE6277-61	M6 × 1.0	7	T25
	STE6287-61	M6 × 1.0	7	T25
	STY207-61	M2 × 0.4	0.8	T6

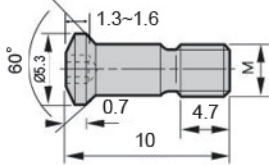
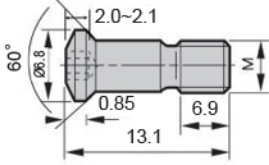
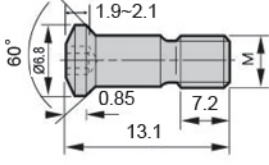
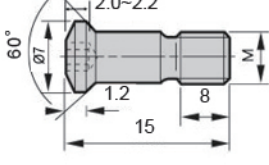
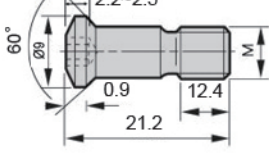
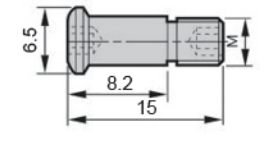
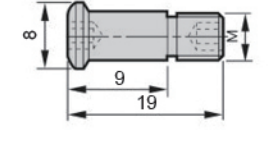
Shape	Part No.	M	Torque N·m	Wrench
	STY208-61	M2 × 0.4	0.8	T6
	STY209-61	M2 × 0.4	0.8	T6
	STY2105-61	M2 × 0.4	0.8	T6
	STY25124-61	M2.5 × 0.45	1.2	T7
	STY25144-61	M2.5 × 0.45	1.2	T7
	STY3164-61	M3 × 0.5	2	T8
	STY3184-61	M3 × 0.5	2	T8

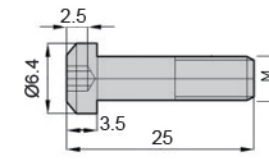
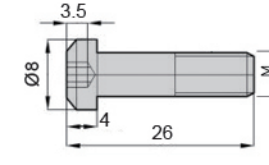
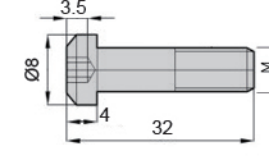
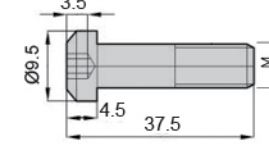
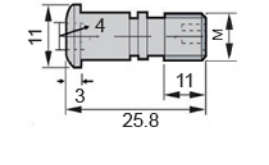
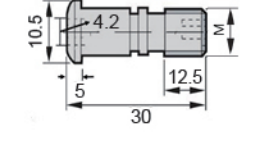
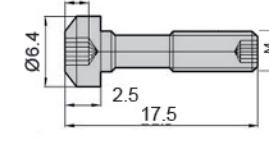
DRILL FIXING SCREW

Grade - 12.9				
Shape	Part No.	M	Torque N·m	Wrench
	STY3203-61	M3 × 0.5	2	T8
	STY4222-61	M4 × 0.7	4	T15
	STY4242-61	M4 × 0.7	4	T15
	STY4262-61	M4 × 0.7	4	T15
	STY5283-61	M5 × 0.8	5	T20
	STY5301-61	M5 × 0.8	5	T20
	STY534-61	M5 × 0.8	5	T20

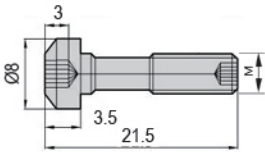
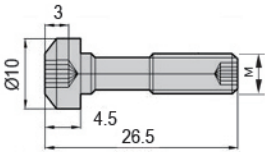
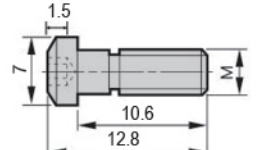
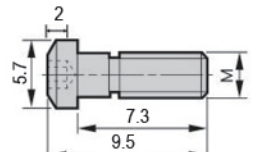
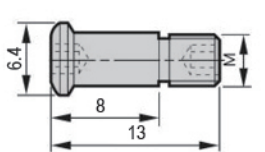
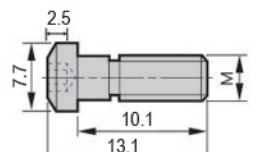
Shape	Part No.	M	Torque N·m	Wrench
	STY6383-61	M6 × 1.0	7	T20
	STY643-61	M6 × 1.0	7	T20

CLAMP SCREW

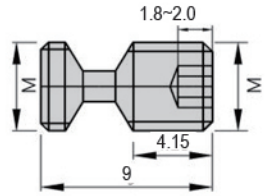
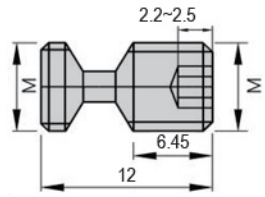
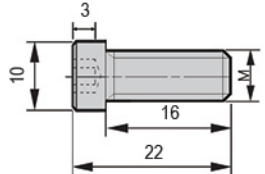
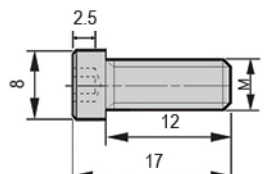
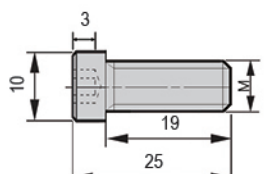
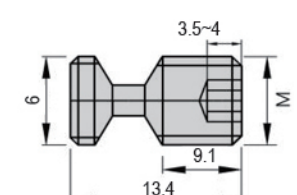
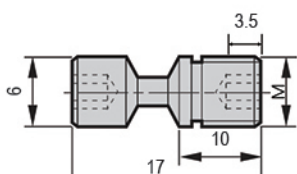
Grade - 12.9				
Shape	Part No.	M	Torque N·m	Wrench
	CT3510-60	M3.5 × 0.6	3	T15
	CT45131-60	M4.5 × 0.75	5	T20
	CT45131-60H	M4.5 × 0.75	5	T20
	CT515-60	M5 × 0.8	5	T20
	CT6212-60	M6 × 1.0	7	T25
	CH515-120	M5 × 0.8	3.5	H2.5
	CH619-120	M6 × 1.0	4.5	H3

Shape	Part No.	M	Torque N·m	Wrench
	LHK425	M4 × 0.7	3.3	H2.5
	LHK526	M5 × 0.8	5	H3
	LHK532	M5 × 0.8	5	H3
	LHK6375	M6 × 1.0	7	H4
	MH6258M	M6 × 1.0	7	H3
	MH630M	M6 × 1.0	7	H4
	CH4175	M4 × 0.7	3.3	H2.5

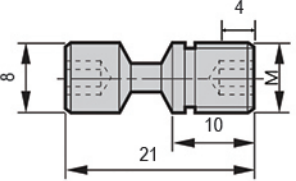
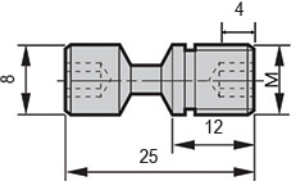
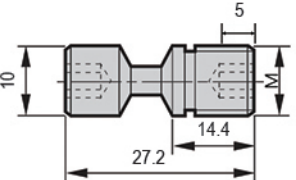
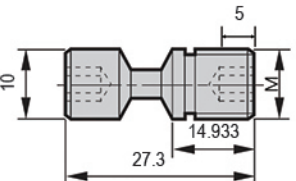
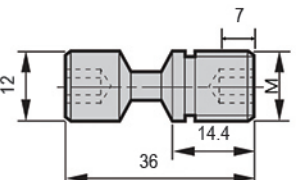
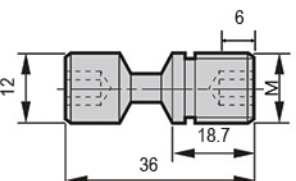
CLAMP SCREW

Grade - 12.9				
Shape	Part No.	M	Torque N·m	Wrench
	CH5215M	M5 × 0.8	5	H3
	CH6265M	M6 × 1.0	7	H4
	CT4128	M4 × 0.7	3.5	T15
	CH4095	M4 × 0.7	5.7	H2.5
	CH513	M5 × 0.8	6.4	H2.5
	CH5131	M5 × 0.8	7.7	H3

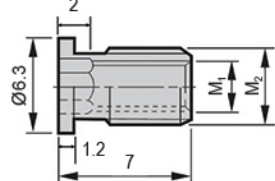
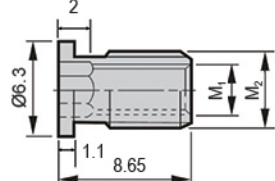
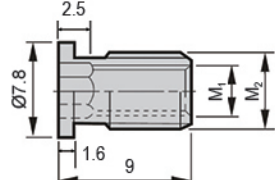
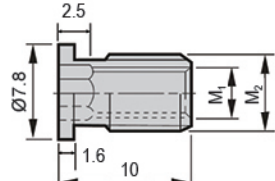
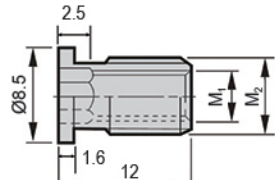
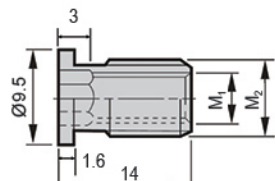
MULTI SCREW

Grade - 14.9				
Shape	Part No.	M	Torque N·m	Wrench
	LH509BM-HS	M5 × 0.8	-	H2
	LH512BM-HS	M5 × 0.8	-	H2
	MH622-HS	M6x1.0	8	H5
Grade - 12.9				
	MH517	M5 × 0.8	7	H4
	MH625M-NYLOK	M6 × 1.0	7.5	H5
	LH6134A	M6 × 1.0	3.3	H2.5
	LH617	M6 × 1.0	3.3	H2.5

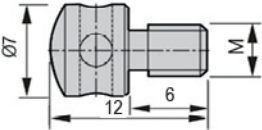
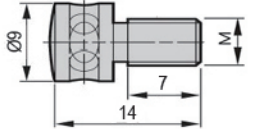
MULTI SCREW

Grade - 12.9				
Shape	Part No.	M	Torque N·m	Wrench
	LH821	M8 × 1.0	5	H3
	LH825	M8 × 1.0	5	H3
	LH10272	M10 × 1.0	7	H4
	LH10273N	M10 × 1.0	7	H4
	LH1236	M12 × 1.0	8	H5
	LH1236N	M12 × 1.0	8	H2.H55

SHIM SCREW

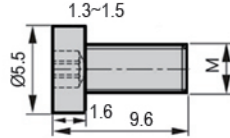
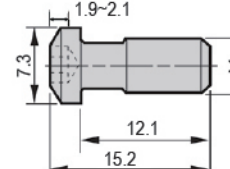
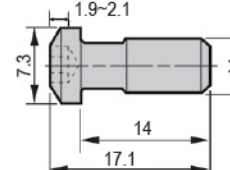
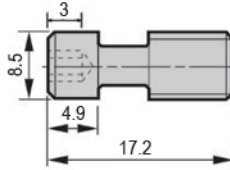
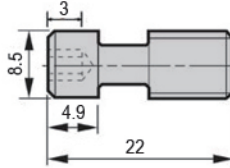
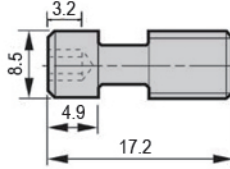
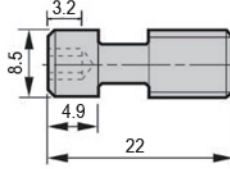
Grade - 12.9				
Shape	Part No.	M	Torque N·m	Wrench
	SHS507F	M ₁ 3.5 × 0.6 M ₂ 5 × 0.5	6	H3.5
	SHS50865F	M ₁ 3.5 × 0.6 M ₂ 5 × 0.5	6	H3.5
	SHS609F	M ₁ 4 × 0.5 M ₂ 6 × 0.75	7	H4
	SHS610F	M ₁ 4 × 0.5 M ₂ 6 × 0.75	7	H4
	SHS712FM	M ₁ 5 × 0.8 M ₂ 7 × 0.75	8	H5
	SHS814FGM	M ₁ 6 × 1.0 M ₂ 8 × 0.75	9	H6

ADJUST SCREW

Grade - 12.9				
Shape	Part No.	M	Torque N·m	Wrench
	ADS412M	M4 × 0.7	-	-
	ADS514M	M5 × 0.8	-	-

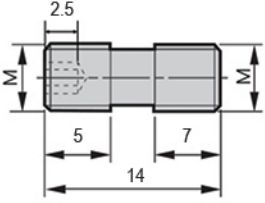
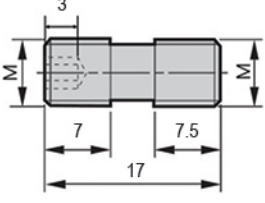
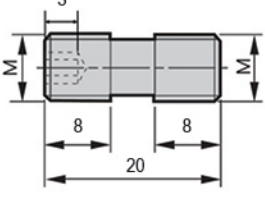
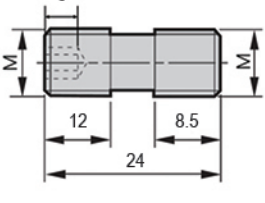
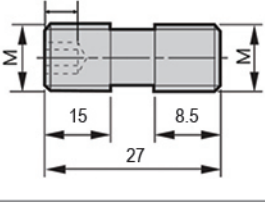
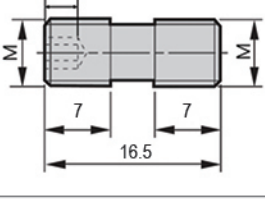
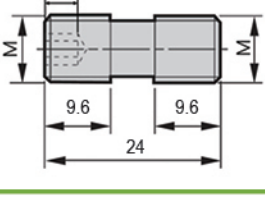
LOCATOR SCREW

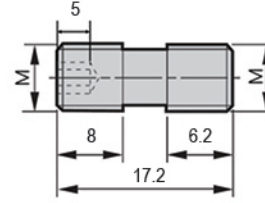
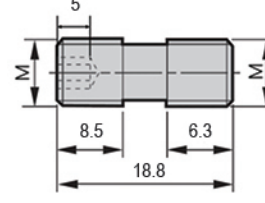
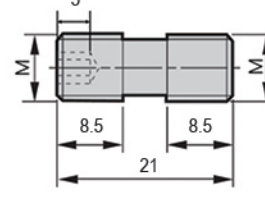
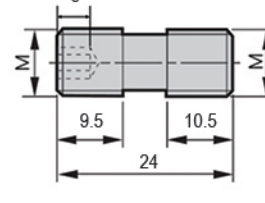
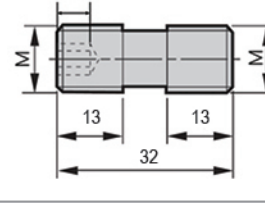
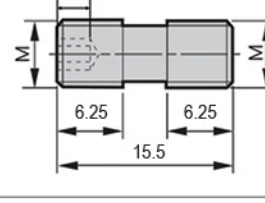
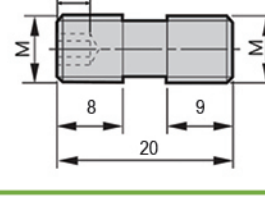


Grade - 12.9				
Shape	Part No.	M	Torque N·m	Wrench
	LCT3096M	M3 × 0.5	2	T8
	LCT5152	M5 × 0.8	5	T20
	LCT5171	M5 × 0.8	5	T20
	LT8172	M8 × 1.25	7	T25
	LT822	M8 × 1.25	7	T25
	LH8172	M8 × 1.25	5	H3
	LH822	M8 × 1.25	5	H3

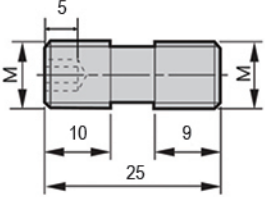
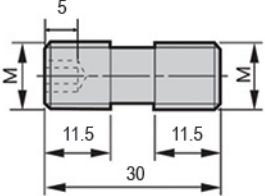
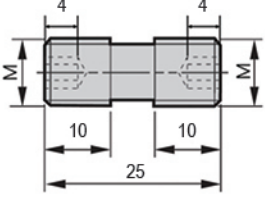
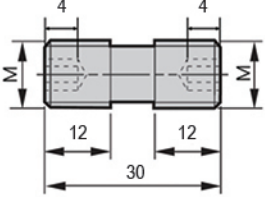
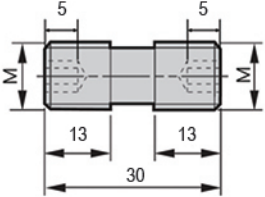
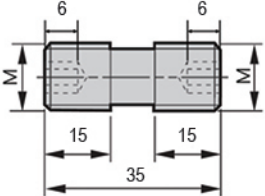
WEDGE DOUBLE SCREW

Grade - 12.9

Shape	Part No.	M	Torque N·m	Wrench
	WCH514	M5 × 0.8	3.3	H2.5
	WCH617	M6 × 1.0	5	H3
	WCH620K	M6 × 1.0	5	H3
	WCH624	M6 × 1.0	5	H3
	WCH627	M6 × 1.0	5	H3
	WCH7165F	M7 × 0.75	7	H4
	WCH724F	M7 × 0.75	7	H4

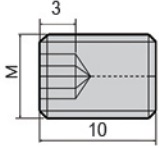
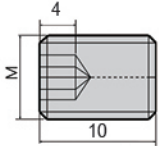
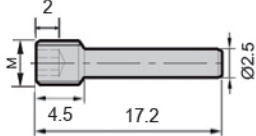
Shape	Part No.	M	Torque N·m	Wrench
	WCH8172F	M8 × 1.0	7	H4
	WCH8188F	M8 × 1.0	7	H4
	WCH821F	M8 × 1.0	7	H4
	WCH824F	M8 × 1.0	7	H4
	WCH832F	M8 × 1.0	7	H4
	WCH8155	M8 × 1.25	7	H4
	WCH820	M8 × 1.25	7	H4

WEDGE DOUBLE SCREW

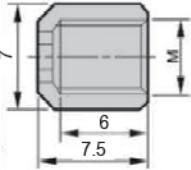
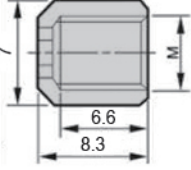
Grade - 12.9				
Shape	Part No.	M	Torque N·m	Wrench
	WCH825	M8 × 1.25	7	H4
	WCH830	M8 × 1.25	7	H4
	WCH625	M6 × 1.0	5	H3
	WCH630	M6 × 1.0	5	H3
	WCH830F	M8 × 1.0	7	H4
	WCH1035F	M10 × 1.25	8	H5

SPECIAL SCREW

Cuttingtool / Parts
CMT Co., Ltd.

Grade - 12.9				
Shape	Part No.	M	Torque N·m	Wrench
	NHD610	M6 × 1.0	-	H3
	NHD810	M8 × 1.25	-	H4
	KH4172	M4 × 0.7	-	H2

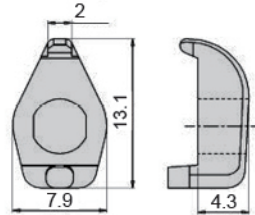
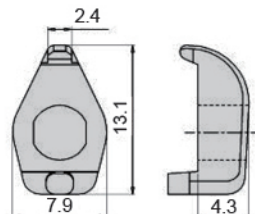
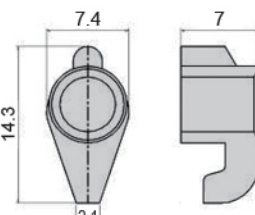
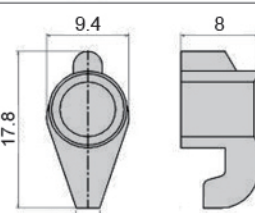
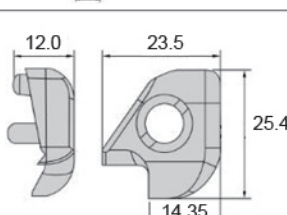
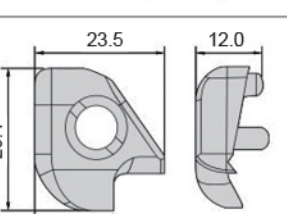
NUT

Grade - 12.9				
Shape	Part No.	M	Torque N·m	Wrench
	N4075	M4 × 0.7		
	N5083	M5 × 0.8		

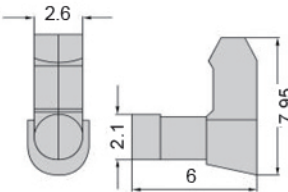
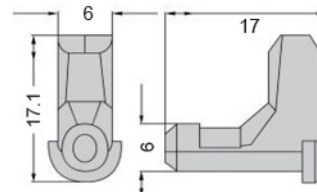
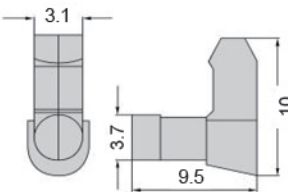
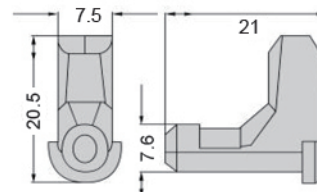
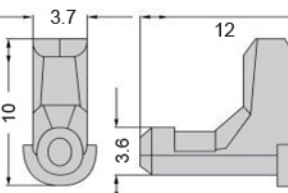
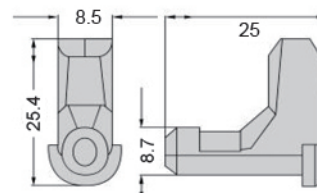
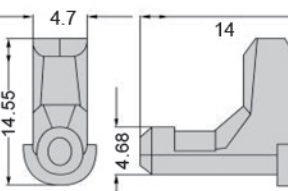
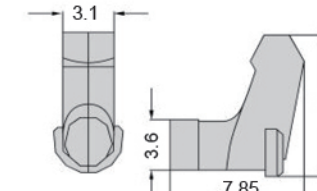
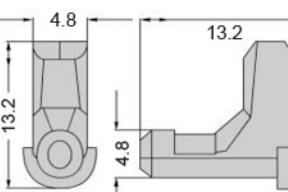
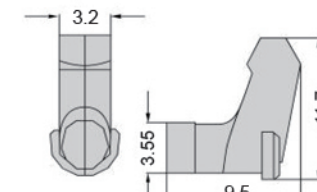
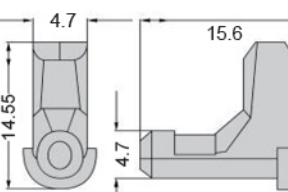
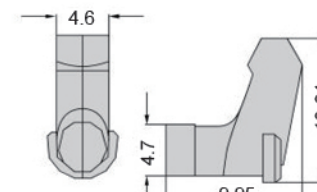
CLAMP & LEVER



CLAMP

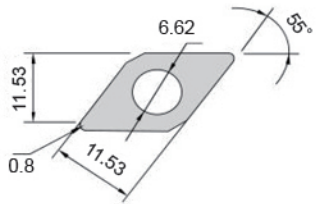
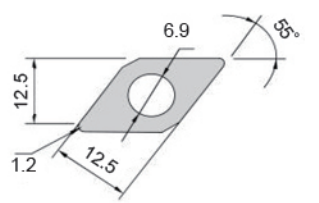
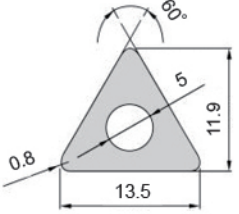
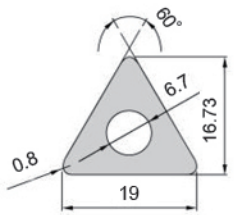
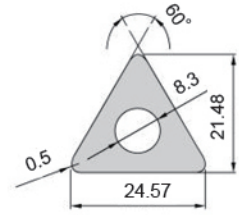
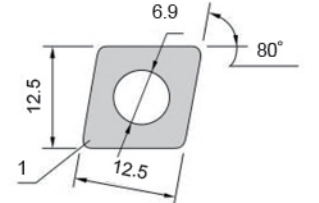
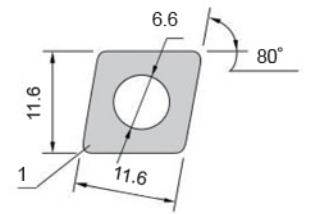
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	2CLCN
	2CL
	3CL
	CTH6R1
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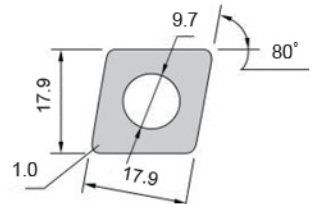
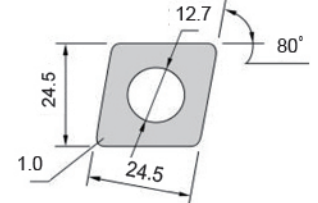
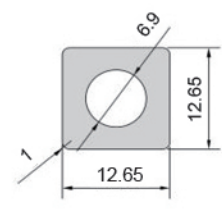
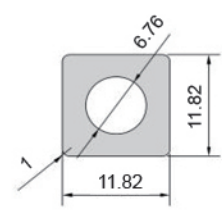
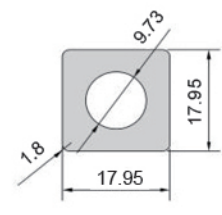
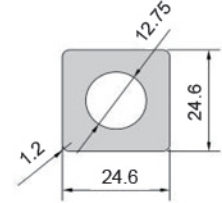
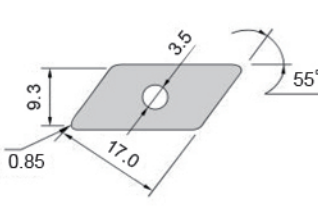
LEVER

Shape	Part No.	Shape	Part No.
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	LL3B		LL6
	LL3		LL8
	LL4		LL3C
	LL4TT		LL3D
	LL4B		LL4A

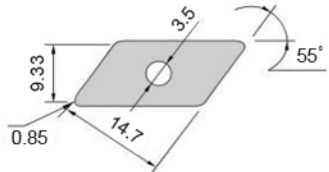
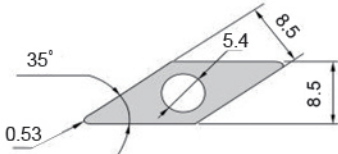
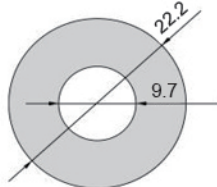
SHIM & SHIMPIN



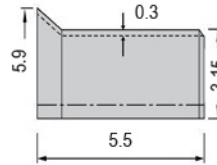
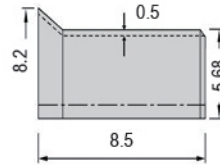
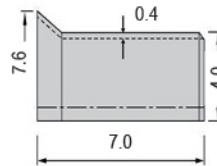
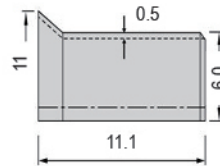
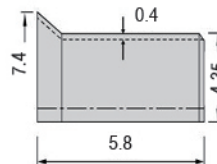
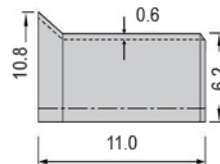
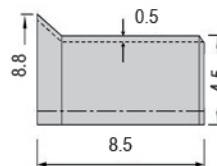
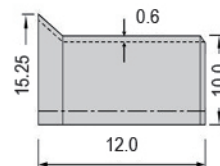
Shape	Part No.	Thickness
	CM-LSD42	3.17
	CM-SD42	3.17
	CM-LST31.8	2.7
	CM-LST42	3.17
	CM-LST53	4.76
	CM-SC42	3.17
	CM-LSC42	3.17

Shape	Part No.	Thickness
	CM-LSC63	4.75
	CM-LSC83	4.75
	CM-SS42	3.17
	CM-LSS42	3.17
	CM-LSS63	4.75
	CM-LSS84	6.35
	CM-CSK1604L/R	4.8

SHIM

Shape	Part No.	Thickness
	CM-SK33C	4.8
	CM-SSV32	3.2
	CM-LSR2506	6.34

SHIMPIN

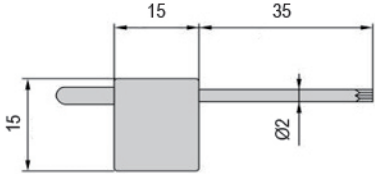
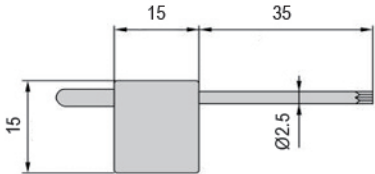
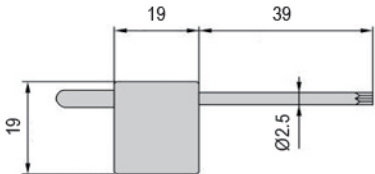
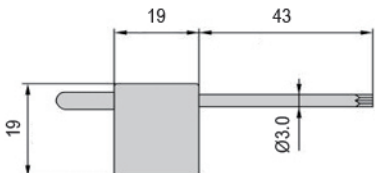
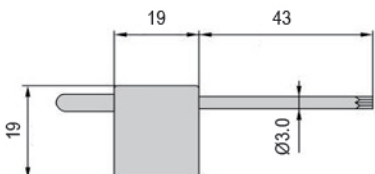
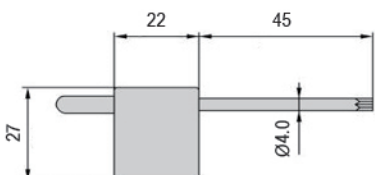
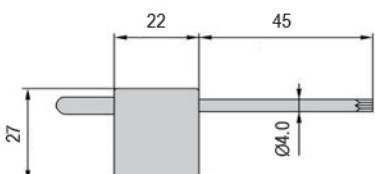
Shape	Part No.	Shape	Part No.
	LS3		LS5TT
	LS4		LS6
	LS4TT		LS6TT
	LS5		LS8TT



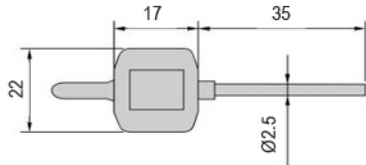
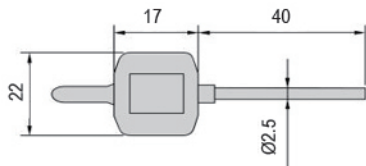
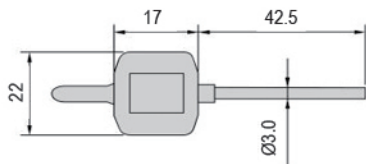
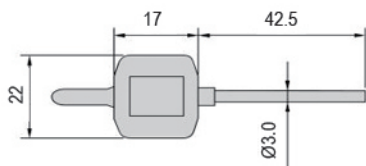
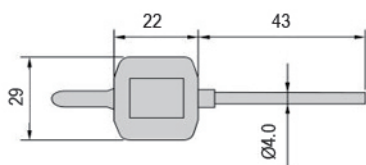
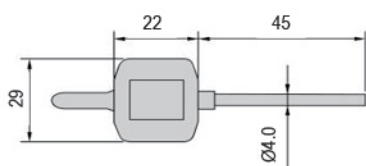
WRENCH

FLAG-TYPE WRENCH T-TYPE WRENCH
WING-TYPE WRENCH L-TYPE WRENCH
DRIVER-TYPE WRENCH EXCHANGEABLE WRENCH

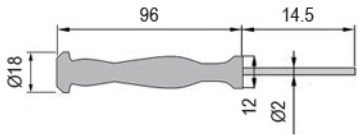
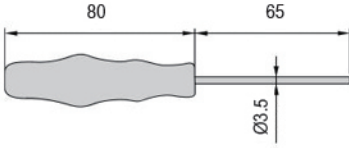
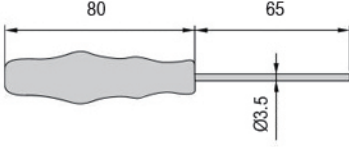
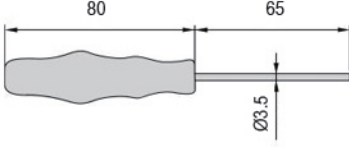
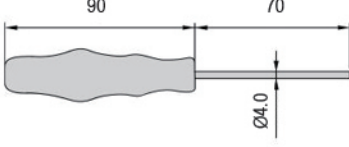
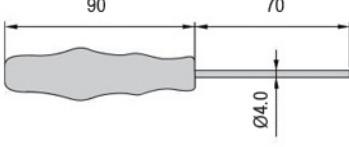
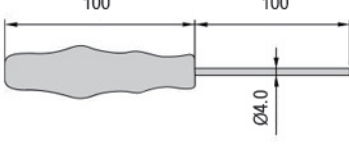
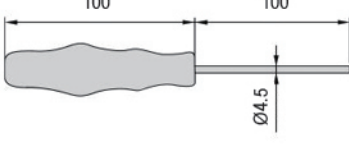
FLAG-TYPE WRENCH

Shape	Part No.	Torx size
	FT-T06	T6
	FT-T07	T7
	FT-T08	T8
	FT-T09	T9
	FT-T10	T10
	FT-T15	T15
	FT-T20	T20

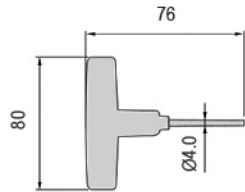
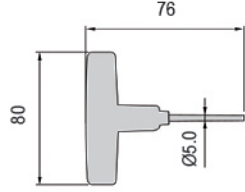
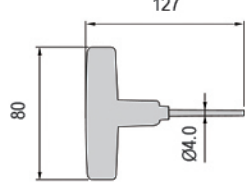
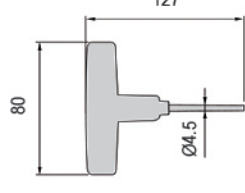
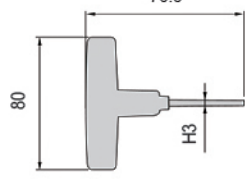
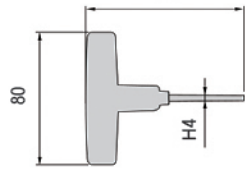
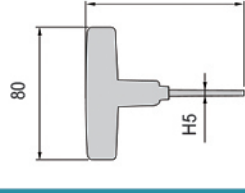
WING-TYPE WRENCH

Shape	Part No.	Torx size
	WT-T07	T7
	WT-T08	T8
	WT-T09	T9
	WT-T10	T10
	WT-T15	T15
	WT-T20	T20

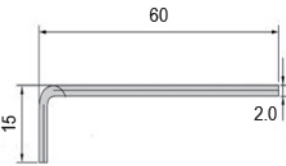
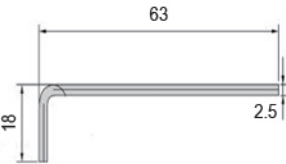
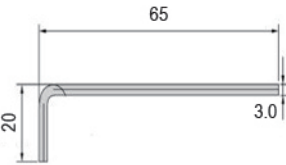
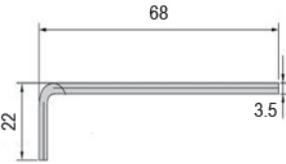
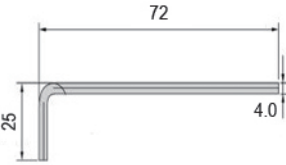
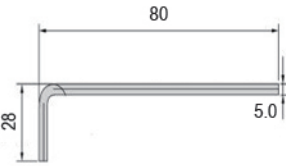
DRIVER-TYPE WRENCH

Shape	Part No.	Torx size
	Micro 6	T6
	DT-T06N	T6
	DT-T07N	T7
	DT-T08N	T8
	DT-T09N	T9
	DT-T10N	T10
	DT-T15N	T15
	DT-T20N	T20

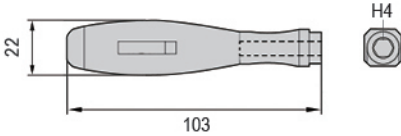
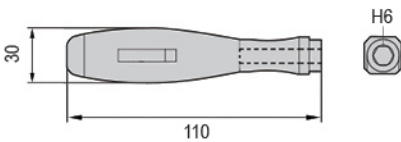
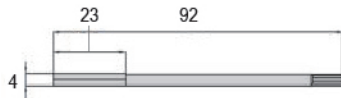
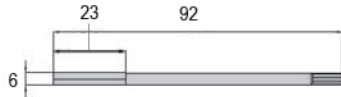
T-TYPE WRENCH

Shape	Part No.	Torx size
	TTS-T20	T20
	TTS-T25	T25
	TTL-T15	T15
	TTL-T20	T20
	TTS-H3.0	H3
	TTS-H4.0	H4
	TTS-H5.0	H5

L-TYPE WRENCH

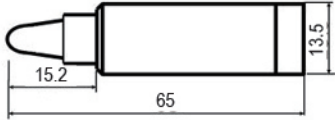
Shape	Part No.	Torx size
	WH2.0L	H2
	WH2.5L	H2.5
	WH3.0L	H3
	WH3.5L	H3.5
	WH4.0L	H4
	WH5.0L	H5

EXCHANGEABLE WRENCH

Shape	Part No.	Torx size
	DT-G4 (handle)	BIT- T6, T7, T8 T9, T10 Applicable
	DT-G6 (handle)	BIT- T10, T15, T20, T25 Applicable
	BIT-T□ BIT-TP□	T6, T7, T8 T9, T10
	BIT-T□ BIT-TP□	T10, T15, T20, T25



GREASE

Shape	Part No.
	P-1000



MEMO