

Capability List of Aoyama Automotive Fasteners Czech, s. r. o.

Products Overview

Bolts and screws made from carbon or alloy steel with or without assembled washers. On top of our locally produced parts, we offer a full range of automotive fasteners (nuts, plastic parts, tapping screws, etc.) we purchase from our mother or sister plants.

Sizes and Lengths (shank length; may differ for various head shapes)

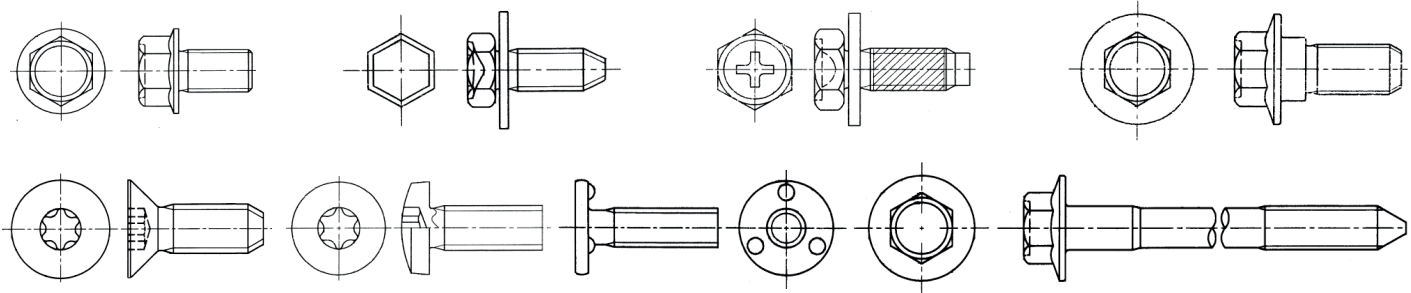
Size	M5	M6	M8	M10	M12	M14	M16	UNF7/16
Length (mm)	10–40	10–110	10–110	10–95	10–130	20–110	32–180	10–130

Property Classes

4.8; 6.8; 8.8; 10.9; 11.9 (according to ISO 898-1)

Head Shape Examples

Hexagon bolts with flange, standard external hexagon bolts with countersunk or pan / binding head, projection weld bolts, shouldered bolts, and other special shapes manufactured by using 4 dies & 4 blows cold-forging machines.



Surface Treatments

Process	Surface Treatment	Color	Note
In-house	Zinc plating + chromate passivation (Cr6 free)	Silver	Thickness 5 μm and 8 μm (acc. To ISO 4042)
		Black	
	GEOMET® 720	Silver	—
	Friction coefficient stabilizer	Red	Target friction coefficient 0.09 ± 30 %
		Green	Target friction coefficient 0.17 ± 30 %
Friction coefficient stabilizer with increased corrosion resistance	Blue	Target friction coefficient 0.20 ± 30 %	
	Purple	Target friction coefficient 0.09 ± 30 %	
External	Base coats + top coats	Various	VW, BMW, Daimler, Ford, Volvo, Renault, Nissan, DIN, ISO and others
	Adhesive thread coatings	Various	Toyota, VW, BMW, Daimler, Ford, Volvo, Renault, Nissan, DIN, ISO and others

Heat Treatments

- Quenching & tempering, including dephosphating process
- Stress-relief annealing

Licensed Technologies

TORX®	TAPTITE® PRO™	Semi R NAVITITE®	SHORT NAVITITE®	μ-con™ L
TORX PLUS®	TAPTITE® PRO™ SP™	Semi R NAVITITE® SP	SHORT NAVITITE® SP	μ-con™
TAPTITE 2000®	GEOMET® 720	NAVITITE®	GS TITE®	DEEP RECESS™
TAPTITE 2000® SP™	R NAVITITE®	Fluted NAVITITE®	PROTRUST™ A20	FULL THREAD™
TAPTITE 2000® CA™	Fluted R NAVITITE®	S NAVITITE	PROTRUST™ A09	