



SPECIAL IN SHAPES AND MATERIALS
SPECIAL BOLTING AND FASTENERS / COLD AND HOT FORGED PARTS

SINCE 1934



SPECIAL IN SHAPES AND MATERIALS



SKILLS

More than 80 years of experience in fasteners manufacturing

- » Strong product-focused approach and know -how
- » Production flexibility
- » Special parts produced in close collaboration with the customer
- » Stock of standard products

- 2006

First automatic 100% inspection machine
- 2004

PED Certification
- 2003

ISO 9001 Certification
- 2000

AD Merkblatt W0 Certification
- 1999

In-house heat treatment department
- 1968

First cold heading machine
- 1965

First hot forging press
- 1934

Establishment of the Company



QUALITY



The Quality Management System has been certified according to the **EN ISO 9001** standard since 2003 by DNV-GL and conforms to the **Directive PED 97/23/EC Annexe I, paragraph 4.3**, following supervision by TÜV. Meccaniche Morandi is a bolt manufacturer certified according to **AD 2000 - Merkblatt W0 TRD 100** by TÜV. Meccaniche Morandi can issue all types of certificates as per EN 10204 standard, collaborating with external certification authorities, when necessary.

MANUFACTURING CAPABILITIES



COLD FORMING

- Diameter: $\varnothing$ 6 mm up to $\varnothing$ 33 mm
 $\varnothing$ 5/16 in. up to $\varnothing$ 1.1/4 in.
- Length: 11 mm up to 250 mm



HOT FORMING

- Large diameter up to 60 mm / 2.1/2 in.
- Long length: up to 3000 mm / 120 in.
- Exotic materials



THREADING AND ROLLING

- ISO Metric threads
- Unified Inch threads
- Special threads, grooves and knurling



HEAT TREATMENTS

The in-house heat treatment department allows to produce parts conforming to the applicable standards or to Customer specifications.

SURFACE COATINGS AND PRE-TREATMENTS

Meccaniche Morandi can supply parts complete with protective surface coating according to international standards and/or customer specifications:

Electrolytic coating	White Zinc plating	EN ISO 4042
	Yellow Zinc plating	ASTM F1941 - ASTM B633
	White Cadmium plating	EN ISO 4042
	Yellow Cadmium plating	ASTM F1941 - ASTM B633
	Copper plating	EN ISO 4042
	Nickel plating	EN ISO 4042
Hot dip galvanizing and hot spun galvanizing	Silver plating	EN ISO 4042
	Zinc-Nickel alloy plating	EN ISO 4042 - ASTM F1941
	Zinc-Iron alloy plating	EN ISO 4042
Phosphate coating	Zinc Phosphating	EN ISO 9717 ASTM F 1137
Non-electrolytically applied Zinc flake coating	GEOMET®, ZINTEK®, DELTATONE® series	EN ISO 10683 ASTM F1136
Autocatalytic (electroless) Nickel-Phosphorus alloy coating	E.N.P. (from 25 up to 75 micron)	EN ISO 4527
Fluorocarbon coating	XILAN® XILAR® series	



BOLTING AND NUT MATERIALS

ASTM / ASME: A193 A194 A320 A182	Carbon and low alloy steel	B5, B7, <u>B7M</u> , B16 L7, <u>L7M</u> 2H, 2HM, 7, 7M, 16, 3		
	Austenitic Stainless steel	B8, <u>B8SH</u> , B8A, 8, 8A B8M, <u>B8MSH</u> , B8MA, 8M, 8MA B8C, <u>B8CSH</u> , B8CA, 8C, 8CA B8R, 8R B8S, 8S B8T, <u>B8TSH</u> , B8TA, 8T, 8TA B8MLCuN, B8MLCuNA, F44 (S31254) 660A, 660B, 660C, 660D		
	Martensitic Stainless Steel	B6, 6, AISI 410 17-4 PH		
	Austeno-ferritic Stainless Steel	F51 F53 F55	S31803 S32750 S32760	1.4462 1.4410 1.4501
	EN ISO 898-1 EN ISO 898-2	Carbon and low alloy steel	5,6, 5,8, 6,8, 8,8, 10,9,12,9 8, 10, 12 All classes on request	
EN ISO 3506	Stainless Steel	A2-50, A2-70, A2-80 A4-50, A4-70, A4-80 ...		
EN 10269 (DIN 17240 & DIN 267)	G	24 CrMo 5	1.7228 +QY	
	KG	25 CrMo 4	1.7218 +QT	
	GA	21 CrMoV 5-7	1.7709 +QT	
	GB	40 CrMoV 4-6	1.7711 +QT	
	GC	42 CrMo 4	1.7725 +QT	
	V	X22CrMoV 12-1	1.4923 +QT1	
	VH	X22CrMoV 12-1	1.4923 +QT2	
	Y	C35E	1.1181 +N	
	YB	C35B	1.5511 + QT	
	YK	C35E	1.1181 +QT	
	SD	X6NiCrTiMoVB 25-15-2	1.4980 +AT +P	
Heat resisting Stainless Steel	X15CrNiSi 20-12	1.4828		
	X15CrNiSi 25-21	1.4841		
Nickel Alloys	Alloy 20	N08020	2.4660	
	Alloy 400	N04400	2.4360	
	Alloy K-500	N05500	2.4375	
	Alloy 600	N06600	2.4816	
	Alloy 625	N06625	2.4856	
	Alloy 718	N07718	2.4668	
	Alloy 800	N08800	1.4876	
	Alloy 800H	N08810	1.4876	
	Alloy 800HT	N08811	1.4876	
	Alloy 825	N08825	2.4858	
	Alloy 904L	N08904	1.4539	
	Alloy 925	N09925		
	Alloy DS		1.4864	
	Alloy A 286	S66286	1.4980	
	Alloy C-276	Ni0276	2.4819	
Alloy 80A	N07080	2.4952		
Titanium alloys	Titanium gr.2	R50400		
	Titanium gr.5	R56401		
Aluminum, Bronze, Brass				



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