

STEEL FOR DEFENCE INDUSTRY



Rodacciai[®]

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Rodacciai is a leading supplier of high-performance steel for military and defense applications. In particular, the company developed two branded steels: **Roda.GBQ** (Gun Barrel Quality) and **Roda.AMMO** (Ammunition Quality).

Roda.GBQ serves the firearm manufacturing sector, from small caliber barrel producers to cut rifling, button rifling, hammer forging, and other specific components.

Roda.AMMO serves all the ammunition producers (small, medium, and large caliber) instead.

PRODUCT'S ADVANTAGES

HIGHER
CUTTING SPEEDS
& FEEDS

INCREASED
TOOL
LIFE

BETTER
SURFACE
FINISH

Our high-quality product is guaranteed by:

RAW MATERIAL SELECTION: We select the best suppliers for each specific grade, following our strict internal approval requirements and precise policies to ensure the maintenance of quality consistency over time.

INTERNAL HEAT TREATMENTS: Normalization and quenching and tempering are performed internally, analyzing the final results and setting the furnaces to guarantee the best solution to prepare the material for the cold-finishing operations.

SURFACE AND INTERNAL CONTROLS: These are performed based on military standards and with the latest generation control and crack test lines.



Roda.GBQ

Gun Barrel Quality

Premium steels for gun barrel producers are developed to guarantee the absence of surface and internal defects, porosity, and inclusions. The material is also UT (ultrasonic) tested, with precise straightening assured

by a special production process. Rodacciai produces and sells tons of products specifically dedicated to these military applications, in accordance with customer requirements.

TYPICAL REQUIREMENTS:

Heat-to-heat consistency
Eddy current tested
Precision within 1/2 standard tolerance

Tempered to customer specifications
DFARS compliant
Ultrasonic testing

Stress relieved
Grain size 5 or higher (ASTM E112)
Bar lengths and chamfers to customer specifications

MOST COMMON GRADES

4130	4140 / 42CrMo4	4340
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TYPICAL SIZE TOLERANCES

EN 10277:2018	ASTM A108	ASTM A29
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PRODUCT RANGE

BARS	WIRE
from 5 to 100 (mm)	from 1,2 to 34 (mm)

For further information please see our web site



Roda.AMMO

Ammunition Quality

Special steels for ammunition producers (case, bullets, and firearms components manufacturing) are also available. The material is UT (ultrasonic) tested according to EN10308 with KSR 1mm.

TYPICAL REQUIREMENTS:

Heat-to-heat consistency

Eddy current tested

Precision within 1/2 standard tolerance

Tempered to customer specifications

DFARS compliant

Ultrasonic testing

Bar lengths and chamfers to customer specifications

MOST COMMON GRADES

34CrNiMoS6	4140 / 42CrMo4	12L14 / 11SMnPb30
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TYPICAL SIZE TOLERANCES

10277:2018	ASTM A108	ASTM A29
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PRODUCT RANGE

BARS	WIRE
from 5 to 100 (mm)	from 1,2 to 34 (mm)

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www.rodacciai.com

Rodacciai

Rodacciai S.p.a. - Headquarter
Bosisio Parini (LC) Via Giuseppe Roda 1, 23842
Tel. +39 031878111
sales@rodacciai.com | info@rodacciai.com
www.rodasteel.ch