



STEEL BARS FOR MEDIUM CALIBER GUNS

As a leading supplier of defense high performance steels, Aubert & Duval has over 65 years' experience in providing rolled and forged gun barrels. Aubert & Duval supports worldwide weapon manufacturing sector delivering rolling and forging solutions for medium caliber guns.



Customer benefits

- + Combat proven
- + High endurance
- + Excellent behavior in any environmental conditions
- + Resistance to intensive fire rates
- + Extended munitions range
- + Long cycle life maintaining high accuracy
- + Optimized properties of dedicated alloys grades
- + Dedicated Technical Support and R&D Team

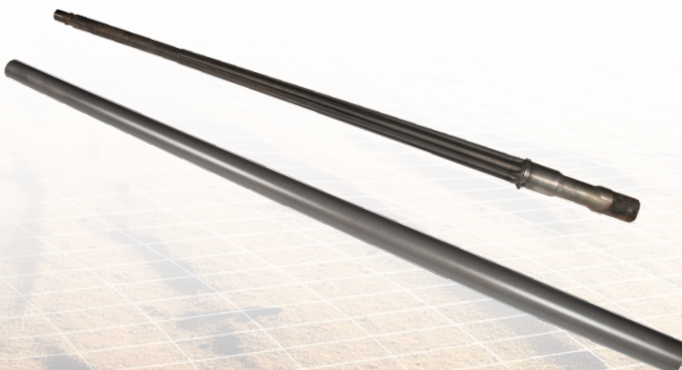
Product range

Forged and rolled bars

20 - 25 - 30 - 35 - 40mm diameters

Provided for guns on:

- + Land armoured vehicles
- + Battleships
- + Aircraft
- + Helicopters



MEDIUM CALIBERS



Choose the best designed grade for you application

Medium caliber guns can fire different type of ammunitions up to 3 km at a high firing rate (from 500 rounds/min up to 2500 rounds/min). Failure mode is usually wear due to high velocity ammunition and thermal fatigue.

The grades used for most of the barrels are chosen from the Cr-Mo-V family (high temperature strength, resistance to thermal fatigue) or the Ni-Cr-Mo-V family (when ductility and toughness at low temperature is required).

Material is mainly supplied in the form of rolled or forged bars manufactured from air melt ingot or VAR remelted ingots for most stringent requirements.

Increasing system life

- + High temperature strength
- + Resistance to thermal fatigue
- + Ductility and toughness at low temperature



Supplied grades

	GKH®	GH4W	NC35M	NC35M1
C	0.28/0.34	0.35/0.42	0.35/0.40	0.37/0.42
Cr	2.8/3.2	3.0/3.5	0.9/1.3	1.2/1.7
Mo	0.8/1.2	0.8/1.2	0.3/0.6	0.7/1.2
Ni	-	-	3.0/3.6	3.3/3.9
V	0.25/0.35	0.15/0.25	0.15/0.25	0.2/0.3

