



Ascending toward success AMAG's aerospace qualifications.

AMAG has successfully combined the expertise of AMAG rolling and AMAG casting in order to qualify for additional aerospace accreditations.

Plates

During the past year, a great deal has happened at AMAG rolling with regard to the important area of aerospace industry plate production. A major milestone has been passed with accreditation for the AA-7050 alloy, which is currently the alloy most frequently used by the major aircraft manufacturers.

Other important accreditations in the plate area relate to the 7475 and 2219 alloys (Table 1). This means that AMAG rolling is now able to produce the entire range of aerospace industry alloys in the standard area in thicknesses of up to a maximum of 90 mm.

Sheets

Over the years, AMAG rolling has also evolved into an important supplier of aerospace sheet. Rolled cladding experience plays a major role in this regard. The cladding process has been further upgraded through synergies with other highly specialized AMAG product groups. As a

consequence, material pairings that are problematic from a production technology perspective, such as that a high-alloyed, high-strength aerospace alloy is clad with an unalloyed, soft bright material, can be offered. This capability led to the future-oriented design of the Leading Edge technology – wing edge and engine intakes, of the French manufacturer, Dassault. In addition, one-side clad AMAG material has also been used successfully in GLARE® outer skin compound material, which is utilized for the Airbus A380.

Another success factor relates to AMAG's use of highly specialized, continuous heat treatment technology. This guarantees the uniform and technologically perfect heat treatment of coils in thicknesses of 0.20 – 6 mm, which is precisely matched to product requirements. Moreover, continuous heat treatment is markedly superior to batch processing from an economic perspective.

In March 2010, AMAG received accreditation for the French ASN-A specification at Eurocopter. Targeted alloying optimization has been employed to provide another decisive improvement in the corrosion-resist-

ance behaviour of the 2024 alloy. In turn, this represents an ideal springboard for a focus on demanding outer skin qualities in a further step forward.

The extensive product palette, as well as the concentration of all production plants at one location, offers room for innovative ideas, which can be realized for special applications together with AMAG customers through the use of existing synergies. In this regard, the diversity of the possibilities available is virtually limitless. ■

Tab. 1: Overview of the most important new accreditations for aerospace plates

Alloy	Customer	Specification
7050	Airbus	AIMS
	Boeing (BCA)	AMS 4050
	Boeing (BCA)	BMS 7-323 Type 1
	Boeing (BDS)	DMS 2233
	Boeing (BDS)	DMS 2459
	Embraer	MEP
	BAE	EN 3982
7475	Embraer	MEP
2219	Boeing (BCA)	AMS 4295