

Certificate of Approval

We herewith certify that

Forgiatura MORANDINI s.r.l

Via dell'industria,5
25040 Civate Camuno (Bs)
ITALY

Supplier Reg. ID: 4368

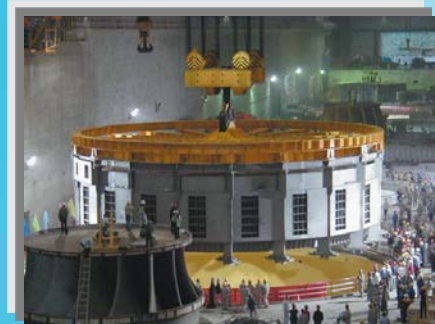
is registered as an approved supplier
to Alstom Power Hydro for Forgings.

This certificate is awarded in recognition of successful
compliance with Alstom requirements and suppliers
commitment to consistently maintain these high standards.

Issued in March 2015, Grenoble, France
Expires in December 2016, conditional to no changes to the
organisation, design, production and sourcing & logistic
processes of the supplier

Stephane LOUPIAS

HEU Supplier Quality
Power Hydro



Products List

Forgings

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Product	Commodity	Detailed Commodity Description	Criticality Level	ALSTOM HACC * code	Approval Status	Restriction
Rings	Forging	Steel rolled ring forgings < 3 m diameter rough machined	B2	31131951	Qualified	
Rings	Forging	Steel rolled ring forgings >= 3 m diameter rough machined	B2	31131952	Qualified	
Shaft	Forging	Steel open die forgings => 500kg and < 5 T	A2-B2	31131551	Qualified	
Shaft	Forging	Steel open die forgings =< 5 T and < 10 T	A2-B2	31131553	Qualified	
Shaft	Forging	Steel open die forgings >= 10 T and < 30 T rough machined	A2-B2	31131554	Qualified	
Shaft	Forging	Steel open die forgings >= 30 T and < 60 T rough machined	A1	31131555	Qualified	
Membrane	Forging	Open Die Forging	B2	31131500	Qualified	
Pelton disk (donut)	Forging	Rolled ring forgings	B2	31131900	Qualified under condition	
Trunion	Forging	Steel open die forgings =< 500kg and < 5 T	A2-B2	31131551	Qualified under condition	

* HACC = Harmonized ALSTOM Commodities Code