



Approved Manufacturer of Steel Forgings

Manufacturer	Schmiedewerke Groeditz GmbH
Address	Riesaer Strasse 1, 01609 Groeditz, Germany
Type	Steel Forgings
Scope of Approval	Steel Forgings Carbon, Carbon-Manganese and Alloy Steel Maximum weight, 45.00 tonnes. Austenitic Stainless Steel Maximum weight, 45.00 tonnes.

This approval is subject to compliance with the Rules for the Manufacture, Testing and Certification of Materials. The full details of the processes and grades to which this approval applies are given on subsequent pages of this certificate.

This certificate is issued to the named manufacturer, and is valid until the expiry date specified. Lloyd's Register is to be notified of any change that may affect the validity of this certificate, and reserves the right to cancel or withdraw this certificate.



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Clive Arnold

Metallurgy Team to Lloyd's Register EMEA
A member of the Lloyd's Register group

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Steel Forgings	Forgings	Grades	Maximum Weight	Units
-	-	Carbon	45.00	Tonnes
-	-	Carbon-manganese	45.00	Tonnes
-	-	Alloy	45.00	Tonnes
-	-	austenitic stainless	45.00	Tonnes

Additional Remarks

The scope of approval includes crankshafts produced by conventional forging in the material grades and to the maximum weight detailed above, and also for crankshafts produced by the TR Process in alloy steel grades only to a maximum weight of 42 tonnes.



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