



## Approved Manufacturer of Steel Forgings

**Manufacturer**      **SeAH Changwon Integrated Special Steel Corporation**

**Address**              147, Jeokhyeon-ro, Seongsan-gu, Changwon-si, Gyeongnam, 51708, South Korea

**Type**                  Steel Forgings

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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Steel Forgings	Forgings	Grades	Maximum Weight	Units
Annealed	-	Carbon	90.00	Tonnes
Normalized	-	Carbon	90.00	Tonnes
Normalized and Tempered	-	Carbon	90.00	Tonnes
Quenched and Tempered	-	Carbon	90.00	Tonnes
Annealed	-	Carbon-manganese	90.00	Tonnes
Normalized	-	Carbon-manganese	90.00	Tonnes
Normalized and Tempered	-	Carbon-manganese	90.00	Tonnes
Quenched and Tempered	-	Carbon-manganese	90.00	Tonnes
Normalized	-	Alloy	30.00	Tonnes
Normalized and Tempered	-	Alloy	30.00	Tonnes
Quenched and Tempered	-	Alloy	30.00	Tonnes
Solution Treated	-	austenitic stainless	8.00	Tonnes

### Additional Remarks

Scope of approval including steelmaking and semi-built crankshafts (maximum throw weight 56 Tonnes)



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