MRC Global

officine ambrogio melesi

Qualification Test Record
NORSOK M-650 Edition 4

QTR. No.: 1

Rev. No. 12

Manufacturer name/address/ Web page:	*Officine Ambrogio Melesi* *Largo de Vecchi 11 – 23813 - Cortenova (Lecco) Italy* *www.melesi.it*
Reference standard	Norsok M-650 Edition 4; Norsok M-630 Edition 7, ISO 17781:2017, IOGP-S-563 v.2021
Material designation and MDS No.:	ASTM A 182 F51/F60 S31803/S32205; MDS D44 Rev.6; MDS DH44 Rev.1; MDS ID144/ID144S Rev.1
Manufacturing summary doc. No.:	MS 01 - MS 02 – MS 03 – MS 04 – MS 05 *Last Revision*
Products and manufacturing process(es):	• CLOSE DIE FORGED FLANGES ALL TYPES, HUBS, SPECTACLE BLIND, RING SPACERS AND BLINDS, SPECIAL PIECES, PRODUCTION ROUTE BY SCREW PRESSE AND MAXI PRESSE (MS 01) • CLOSE DIE FORGED FLANGES ALL TYPES, HUBS, SPECTACLE BLIND, RING SPACERS AND BLINDS, SPECIAL PIECES, PRODUCTION ROUTE BY CLOSE DIE HAMMER FORGING (MS 02) • OPEN DIE FORGED FLANGES ALL TYPES, HUBS, SPECTACLE BLIND, RING SPACERS AND BLINDS, SPECIAL PIECES, PRODUCTION ROUTE BY OPEN DIE HYDRAULIC PRESSE (MS 03) • OPEN DIE FORGED FLANGES ALL TYPES, HUBS, SPECTACLE BLIND, RING SPACERS AND BLINDS, SPECIAL PIECES, PRODUCTION ROUTE BY OPEN DIE HAMMER FORGING (MS 04) • RING ROLLED WN FLANGES, HUBS, SPECTACLE BLIND, RING SPACERS, SPECIAL PIECES, PRODUCTION ROUTE BY FORGING PRESSE AND RING ROLLING (MS 05)
Mandatory conditions and sub-contractors:	• Heat treatment loading shall be according to methods in sketches of Melesi heat treatment procedure TT04 L.R. • NDE Ultrasonic test for compliance to MDS DH44 shall be performed by sub-supplier's ISO 9712 qualified operators.
Other information:	• Heat treatment verifications according to M-650 Para.9.3 performed under witness by MRC – latest tests performed January 2024. • Melesi laboratory is accredited to ISO17025.
Qualification Expires:	March 2027 with MRC annual verification & renewal as per point 4 below

Tested and Qualified Thickness and Weight

Products and manufacturing process(es):	*Test record No.*	*Tested thickness (mm)*	*Qualified thickness (mm)*	*Test piece weight (kg)*	*Qualified weight (kg)*
SCREW AND MAXI PRESS (MS 01)	13795-34103-34104-34105-34106-75224-81248-143619	82.6	90.9	95	190
CLOSE DIE HAMMER (MS 02)	13792-34228-38160-127263-143800	185	185	950	N/A
OPEN DIE HYDRAULIC PRESS (MS 03)	70980-72877	124	124	303	N/A
OPEN DIE HAMMER FORGING (MS 04)	34403-72878	54	59.4	60	120
FORGING AND RING (MS 05)	34404-143802-143803	203.2	203.2	205	410

Qualification/acceptance signatures

Manufacturer:	*Prepared by/Date:* *Andrea Montanelli* *30.10.2026*	*Checked by/Date:* *Pietro Nava* *30.10.2026*

Remarks/Special remarks:

1. The manufacturer and this QTR are evaluated and found to be in compliance with the requirements of NORSOK M-650 for supply of the above listed products and materials.
2. This acceptance does not exempt any purchaser from his responsibility to ensure that this qualification is valid for his products within the essential variables of NORSOK M-650.
3. This qualification is executed and accepted by MRC Global as "Qualifying Company" solely for the supply of the above listed products to MRC Global as "Purchaser", and MRC Global assumes no liability for the use of or reliance on this qualification/ acceptance by other purchasers.
4. In accordance with MRC Global internal routines and procedures, the validity of the qualification/acceptance is 1 year from the initial signing of the QTR front sheet, after which the qualification/acceptance is subject to annual verification and renewal.

Qualified/Accepted by *(company name/address):*

MRC Global Norway AS
Gamle Forusveien 53
4033 STAVANGER

Initial approval date: ***06.12.2021***
Expiry date *(annual renewal):* ***31.03.2027***
Signature:

Note: QTR is updated to Rev.4 as part of 5 years renewal to M-650 Ed.4.