



OFFICINE MONTORFANO
SIMPLY PRECISE

ROLLS & SHAFTS SINCE 1933



OFFICINE MONTORFANO

*SIMPLY PRECISE FOR STEEL, ALUMINUM
INDUSTRY AND SERVICE CENTERS*



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COMPANY INFORMATION

- Founded in 1933, have over eighty years of experience in the steel working industry and in the machining of mechanical parts.
- Located in Milan close to Rho Exhibition area.
- Main supplier and product developer for OEM.



Company
Information

Merchandizing
Sectors

Products for
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Products
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Metallurgy:
main steel
grade used

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MERCHANDISING SECTORS



SHEET-METAL WORKING MACHINES:

- > Hot Levellers
- > Cold Levellers
- > Tension Levellers
- > UHTS levellers
- > Flatteners

SHEET FORMING MACHINES (PRESSES) AND PUMPS

PAPER TISSUE AND CONVERTING INDUSTRY

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PRODUCTS FOR STEEL AND ALUMINUM INDUSTRY

- Rolls for hot and cold plate levelling machines
- Work rolls and intermediate rolls for tension leveler and scale breaker
- Slitter shafts for slitting lines
- Eccentric shafts and crankshafts
- Hardened rolls
- Different kind of Steel rolls
- Transport Rolls



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MONTORFANO 2025 SCORECARD

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ROLLERS

12.000

ROLLS MANUFACTURED



SHAFTS

250

SHAFTS DELIVERED



SERVICE

3.000

ROLLS RECONDITIONED

150

SHAFTS REFURBISHED



CUSTOMER SUPPORT

600

CUSTOMERS

SUPPORTED IN PARTS

SUPPLY AND

TECHNICAL ADVISE



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Work Rolls for hot and cold plate levelling machines

- Forgings are supplied from first quality EU Companies, with UT and all necessary certification.
- Rolls manufacturing process is completely performed in OM workshop, from the machining activities up to the dynamic induction hardening.
- OM suggest the most appropriate material and surface hardness value in order to have an appropriate operational use.
- OM rolls are capable of processing large sheets up to 5.5 meter width and special applications such as processing **high tensile strength materials**.

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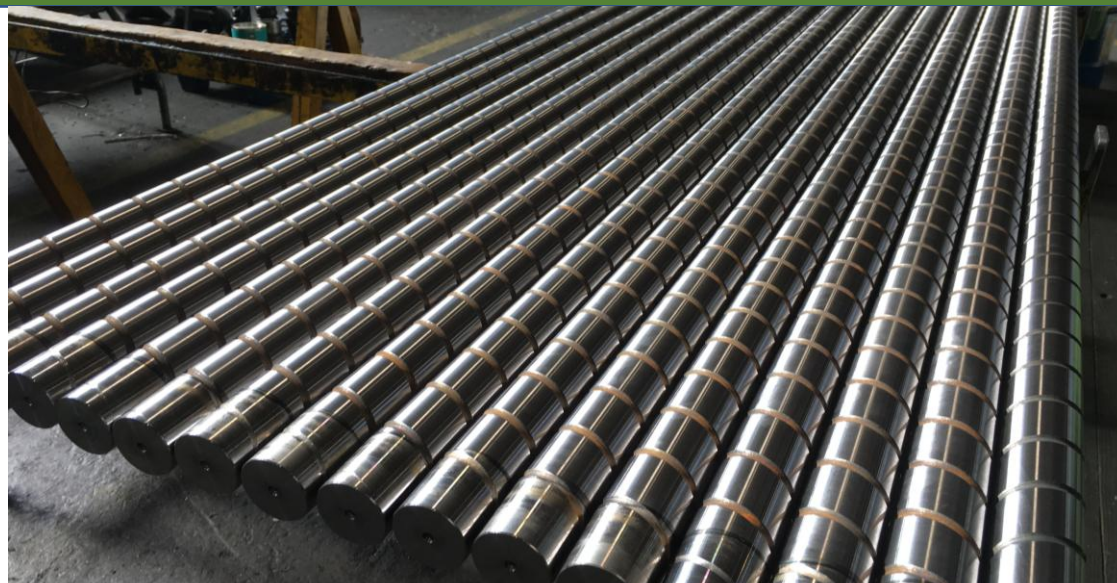
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Work and intermediate rolls for tension leveler and scale breaker

- OM have more than fifty years of experience in manufacturing of work and intermediate rolls for straightener and levelers in processing line.
- OM specialize in supplying rollers for processing special steels, **Stainless Steel and Aluminum**.
- The machine tools used are all numerically controlled and capable of producing rolls with diameters between 16 and 1600 millimeters.
- Roll Surface finishing can range from standard grinding to polished superfinishing, from sandblasting to special shapes, as well as chromium.





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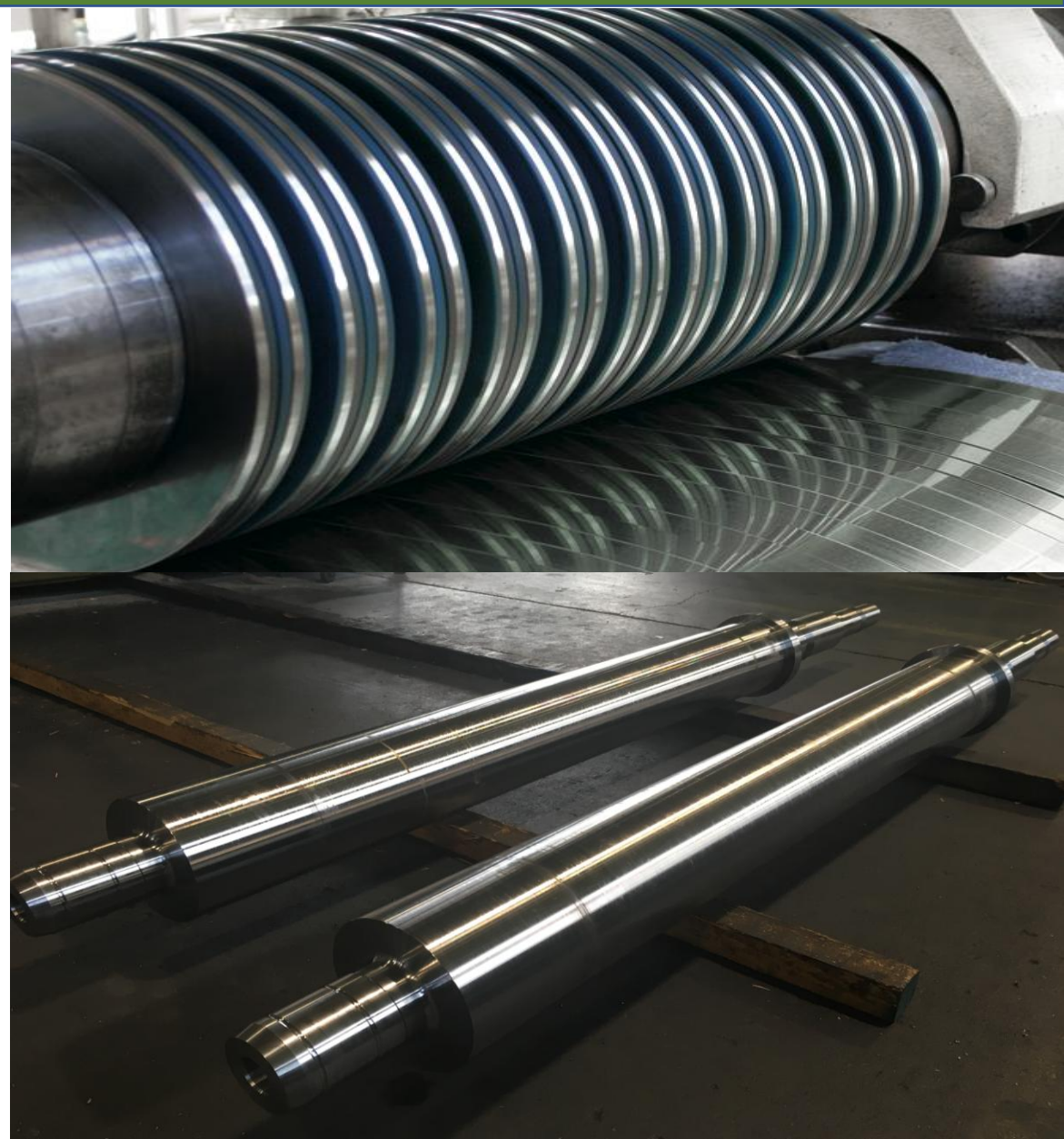
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Slitter shafts for slitting lines

- The shafts are manufactured from forged steel in order to guarantee optimal quality and perfect dimensional stability.
- High technology slitter shafts are manufactured using state-of-the-art numerical control machine tools, which make it possible to obtain geometrical tolerances between 0,002 and 0,004 millimeters.
- Thanks to Know how and experience, OM is able to recommend the most appropriate types of steel, the optimal heat treatments and finishes, as a function of the characteristics of the sheet metal to be cut or formed, the required cutting precision, the use of automatic blade changes.





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Eccentric shafts and pistons

- Officine Montorfano is equipped with a highly specialized department for the construction of eccentric shafts and hydraulic pistons.
- The eccentric shafts for presses, shearing machines and pumps are manufactured using forged steel, and all the mechanical operations up until the final grinding are performed internally.
- Officine Montorfano manufactures hydraulic pistons with diameters up to 1600 millimeters and weights up to 15 tons. Depending on application, the pistons are subjected to final surface treatments such as induction hardening, chromium surfacing, polishing and super finishing.

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Different kind of Steel Rolls

Thanks to equipment and heat treatment facilities, Officine Montorfano is able to provide different other type of steel rolls such as:

- Rolls for Slab evacuation in caster area.
- Transport in Aluminum Host Strip Mill.
- Hardened Rolls.
- Rolls in according to Customer needs and design.





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OFFICINE MONTORFANO ROLLS

Advantages and Characteristics

- Elevated roll stiffness.
- Very high structural homogeneity.
- Adequately high mechanical characteristics.
- High wear-resistance.
- Great surface hardness.
- Scale anti-sticking properties.
- Possibility of multiple reconditioning without performance loss.



MAIN USED STEEL GRADES

UNI MATERIAL	W. NR MATERIAL	TENSILE STRENGTH N/mm ²	SURFACE HARDNESS HRC	ADVISE USE
C45	1.1191	750 ÷ 890	60 ÷ 62	Eccentric shafts - Hydraulic pistons - Press columns - Control rolls - Baffle rolls - Tension rolls - Towing rolls
42CrMo4	1.7225	860 ÷ 1000	59 ÷ 61	Intermediate rolls – Slitter shafts – Eccentric shafts - - Anticoilbreak shafts – Rein shafts
50CrMo4 51CrMoV4 58CrMoV4	1.7228 1.7701 1.7792	900 ÷ 1050	62 ÷ 65	Intermediate rolls - Pinch rolls - Slitter shafts with automatic blades changer - Levelling rolls for sheet working up to 800/900 N/mm ² - Control rolls - Rectified rolls - Advancer towing rolls
100CrMo7 100Cr6	1.3537	900 ÷ 1050	63 ÷ 65	Rolls for cold rolling mills
86CrMoV7	1.2327	1000 ÷ 1200	63 ÷ 65	Levelling rolls for high-resistance sheet 900/1500 N/mm ² - Rolls for cold rolling mills - Work rolls and back up rolls for cold plate mill- Scale breaker
X40CrMoV51 X63CrMoV5-1	1.2344 1.2362	860 ÷ 1000	52 ÷ 58	Work rolls for hot plate mill
41CrAlMo7	1.8509	850 ÷ 950	63 ÷ 65	Nitrogen-hardened slitter shafts
30NiCrMo8	1.6580	850 ÷ 950	54 ÷ 56	Eccentric shafts - Profile supporting rolls' spindle - Rib shafts
39NiCrMo3	1.6511	850 ÷ 950	58 ÷ 60	Slitter shafts – Rib shafts – Pinch rolls
56NiCrMoV7	1.2714	800 ÷ 900	52 ÷ 60	Back up rolls for hot plate mills

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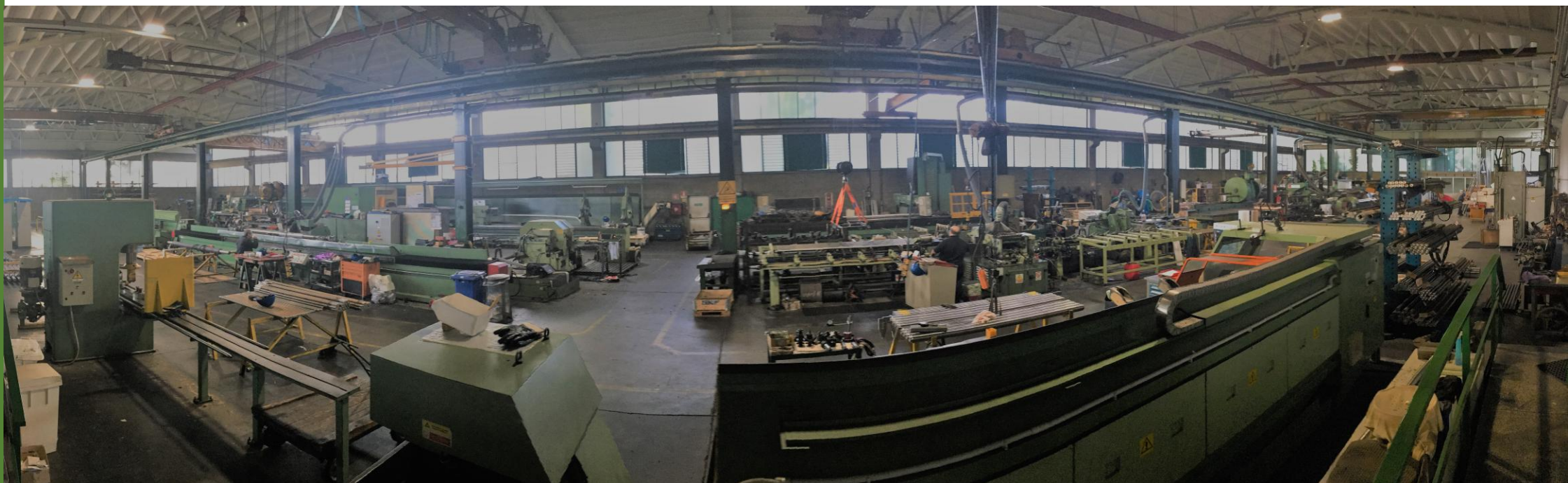


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WORKSHOP

- Numerical control lathe machines for pieces with dia. up to 1.600 mm and lenght up to 10.000 mm
- Numerical control milling and boring machines max. 10.000 x 1.200 x 1.800 with CNC
- Numerical control cylindrical grinding machines for pieces with dia. up to 1.600 mm and lenght up to 10.500 mm
- Numerical control grinding machines for eccentric shafts with dia. up to 1600 mm lenghts 10.500 mm.
- Straightening machines for pieces with max. length 8.000 mm
- Balancing machine 1.000 x 6.000 with CNC



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HEAT TREATMENT

- Medium, low and high frequency system for induction hardening
- Drawing and stress relief annealing furnaces
- Hydraulic presses for straightening of hardened pieces

[video](#)





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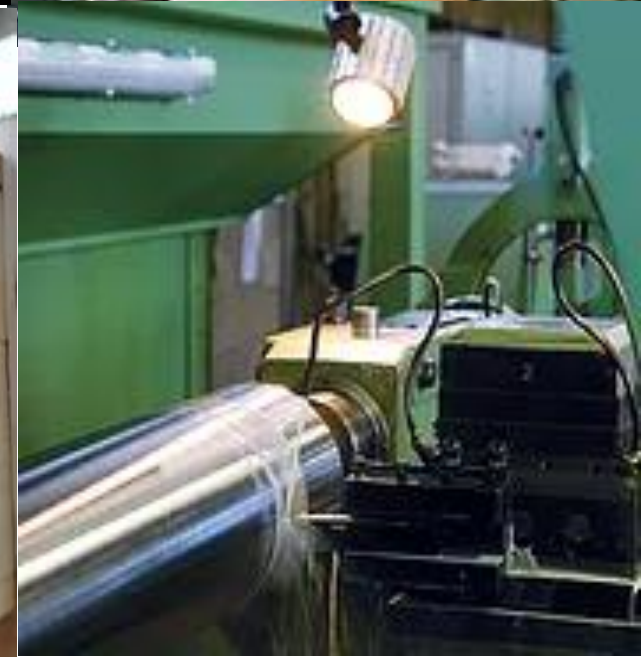
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ROLL REPAIRS & REFURBISHMENTS

- Receive rollers/shafts at OM workshop
- Visual and geometrical checks, hardness controls (where necessary non-destructive checks)
- Roller straightening (where necessary)
- Part machining at the final diameter agreed with customer
- Integration in the set of new pieces in case some item are not in good condition
- Chromium plating and/or polishing (according to customer engineering)
- Final quality controls, packaging and shipping





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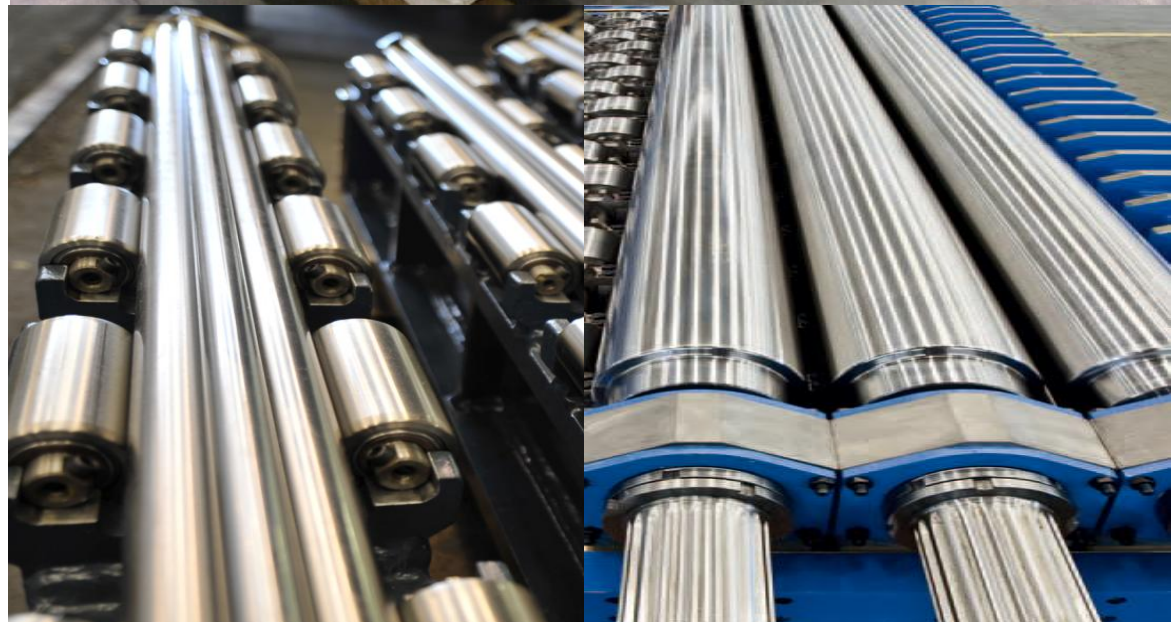
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SPARE LEVELER CASSETTE AND REFURBISHMENT

- OM has dedicated a department specialized in the construction and overhaul of entire leveling and straightening cassettes.
- Spare cassettes are manufactured in according to the customer's engineering.
- Worn cassettes are inspected by experienced personnel and the replacement of the worn materials and/or the repair of the recoverable ones is performed before final assembly.

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