

## FULL SERVICE INSTALLATION ALIGNMENT CALIBRATION

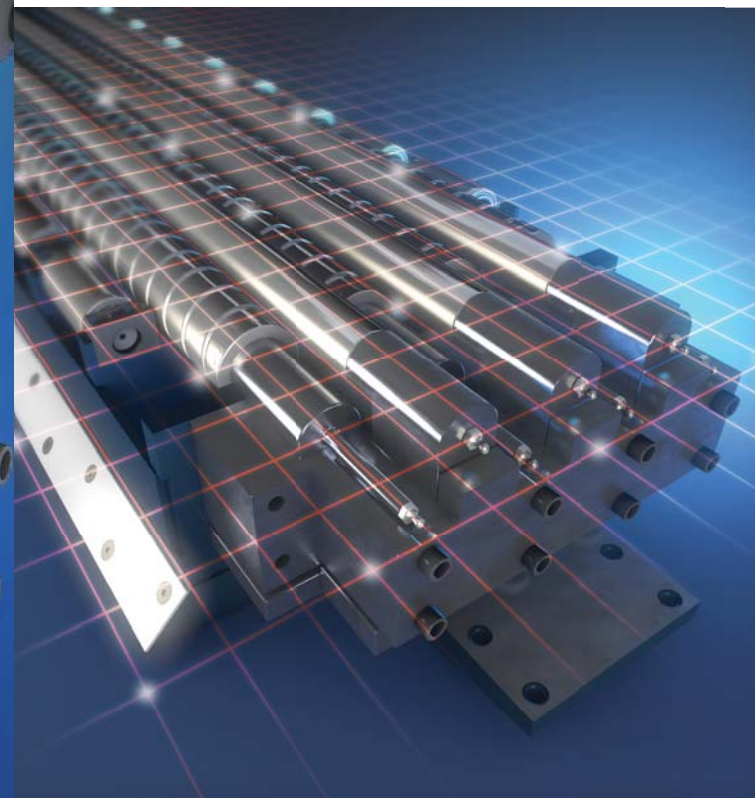
The completely refurbished levelling cassette is ready for a new production campaign.

### DEEP EXPERIENCE AND HIGH PRECISION INSTRUMENTS FOR CALIBRATION AND ALIGNMENT

are essential for a correct installation and a proper operation of the entire machine.

Upon customer request, Comesa can provide an ON SITE service of installation of the refurbished cassette:

- Work and Back-up rolls alignment
- Upper and lower cassette calibration
- Cassette installation
- Machine start up



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GIVE YOUR LEVELLING  
CASSETTE  
A REAL SECOND LIFE



# MAINTENANCE AND REVAMPING OF LEVELLING CASSETTES

The levelling and backup roll cassette is the real heart of the leveller: units complete and proper functioning affects the final product quality in terms of flatness, surface finishing, etc.

## WORK, INTERMEDIATE AND BACK-UP ROLLS

must be constantly kept at the highest quality and efficiency level.

Severe workloads and dusty environments are the main reasons for sever wear. Comesa performs complete maintenance and refurbishment, to have work and back-up rolls back to proper working performance:

## AS CLOSE TO BRAND NEW AS POSSIBLE

in all mechanical-physical and geometrical-dimensional properties.

For more than 50 years, Comesa has been an official supplier of the biggest OEM's and end users of levellers not only in Italy, but in Europe and worldwide.

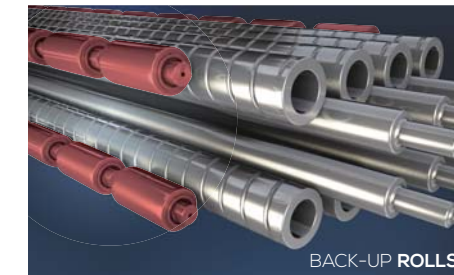
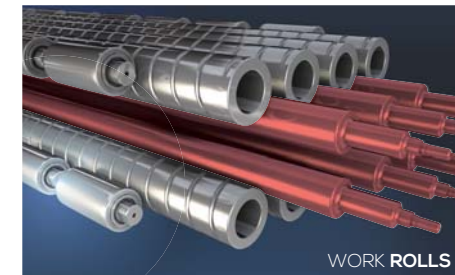


**COMESA WARRANTIES ALL OWN PRODUCTS AND REBUILDS TO A LEVEL ONLY A MANUFACTURER CAN SUSTAIN.**

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## WE MANUFACTURE THE NEW PIECE AND GIVE A SECOND LIFE TO WORN PARTS

All processes are strictly controlled at every stage of the revamping process, thanks to ceaseless and systematic inspections performed using the most modern production equipments and testing techniques.



### A COMPLETE CHECK-UP ABOUT ROLLS

Comesa performs a deep analysis to exactly understand all the necessary steps and items needing to be addressed for refurbishing the cassette.

- DIMENSIONAL AND GEOMETRICAL ANALYSIS
- ROUGHNESS
- T.I.R.
- BARREL AND JOURNAL HARDNESS
- CHROME THICKNESS

### TO KNOW THE CONDITIONS ABOUT BACK-UP ROLLS

Advanced and specific controls have to be done to check all the single parts of the back-up roll assembly.

- DIMENSIONAL AND GEOMETRICAL ANALYSIS
- CHECK DEFORMATIONS (ROUNDNESS, TAPERING, SQUARING, RADIAL CLEARANCE, ETC.)



### ROLL SURFACE CONDITION DEEPLY AFFECTS THE QUALITY OF THE FINISHED PRODUCT.

Straightening, grinding and polishing are performed on each single component, to place rolls and accessories back in the optimum working condition.

If roll or component issues are found, Comesa can evaluate and suggest the best solution based on customer needs.

Back-up rolls are always exposed to severe workloads. It is critical these rolls sustain a constant and uniform pressure on the levelling rolls.

### THE BACK-UP ROLLS, BOTH NEW AND REFURBISHED, MUST BE OF THE HIGHEST QUALITY TO ASSURE TOP PERFORMANCES TO THE LEVELLER.

Cages, rolls, balls and seals must always be changed; the other parts are accurately refurbished to assure back-up roll assemblies are back to the proper, brand new, mechanical working condition.

