

# CEP

Capital Equipment Parts

## EURORICAMBI

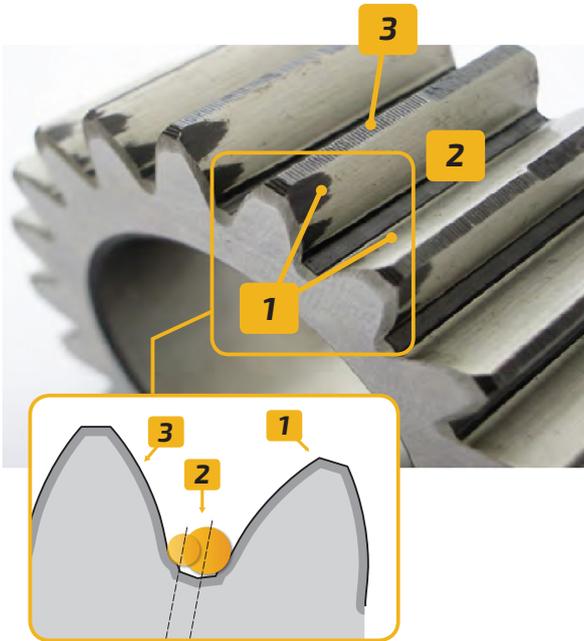
COMPLIANT COMPARISON BROCHURE



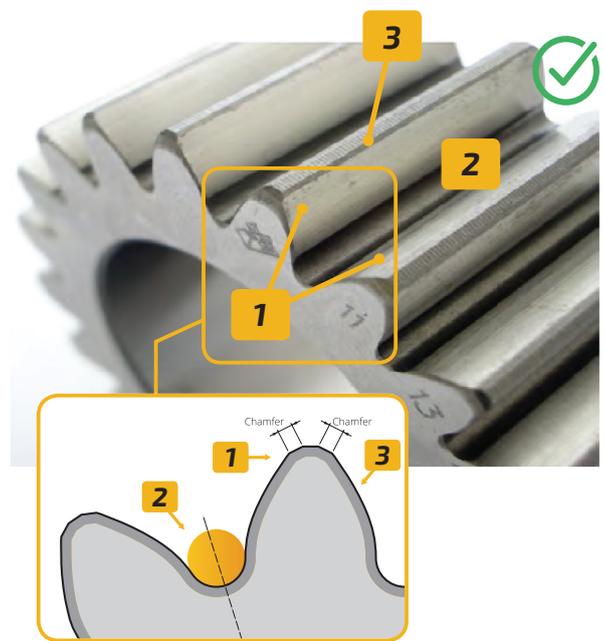
*Your Mining Parts Specialists*



## NON-OEM Product (\*)



## EURORICAMBI



### 1 SEMI-TOPPING:

EURORICAMBI uses toolings generating a chamfer on the tooth tip (semi-topping). This prevents dents to facilitate quieter operation.

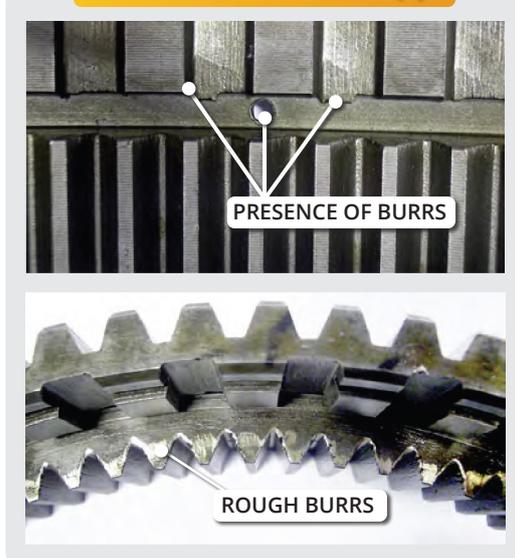
### 2 TOOTH BASE:

EURORICAMBI creates an even and complete radius with an undercut at the base of the tooth. This ensures greater resistance to fatigue failure by preventing breakage when meshing.

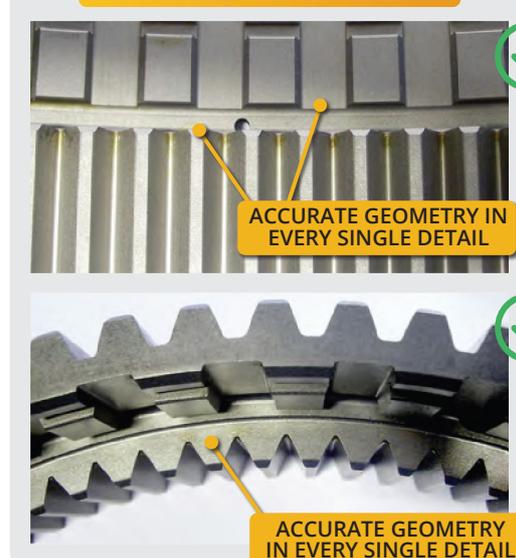
### 3 FLANK GRINDING:

In order to remove heat treatment distortions and to achieve a perfect geometry on tooth profiles and flanks, EURORICAMBI performs tooth grinding in compliance with DIN 7 quality. Highly sophisticated machines automatically detect the tooth slot and remove the grinding stock in equal parts on tooth flanks, ensuring constant case depth and perfect concentricity. In this way quieter operation and longer life are granted to the gear wheel.

## NON-OEM Product (\*)

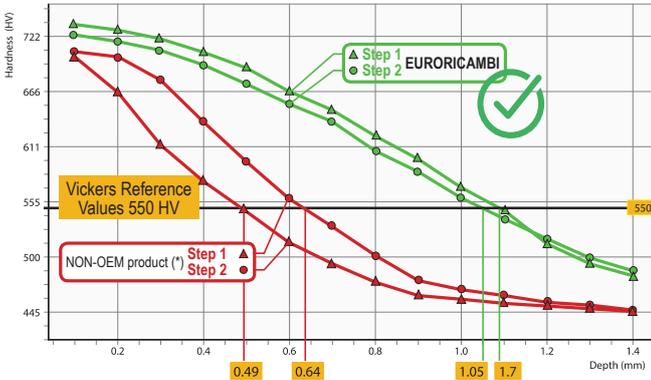


## EURORICAMBI



Range n° 1 = Left flank ground Z 20  
Range n° 2 = Right flank ground Z 20

**OEM'S SPECIFICATIONS**  
(Range1 and Range2: from mm 1.00 to mm 1.10)



**EURORICAMBI** product is distinguished by the following two features:

1. Effective case depth double that of NON-OEM product (\*) to assure a longer life to the planetary gear.
2. Uniform stock removal: the teeth grinding process grants a constant case depth on all teeth.

**NON-OEM product (\*):**

1. Low effective case depth, half of OEM's and EURORICAMBI's ones.
2. Uneven stock removal: excessive heat treatment distortion leads to uneven case after teeth grinding.

### NON-OEM Product (\*)



### EURORICAMBI



**EURORICAMBI** uses case hardening steel in conformity with UNI EN 10084 standard which provides greater mechanical resistance and longer durability. **EURORICAMBI** manufactures bushings in tin bronze conforming to UNI 7013 and not in cast iron or in sintered bronze, like some NON-OEM product (\*)

### EURORICAMBI



**EURORICAMBI** uses a higher performing steel (42CrMo4) having better mechanical strength and better hardenability.

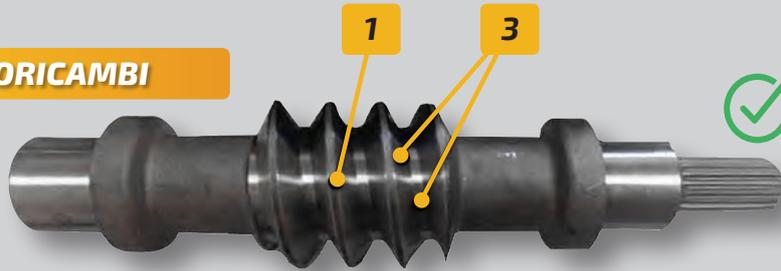
The core hardness depends on the type of material and heat treatment applied. The material used by **EURORICAMBI** (42CrMo4), is much better than C45 of **NON-OEM product (\*)** and grants high strength and fatigue life.

The induction hardening depth is three times more and ensures high resistance to fatigue and wear.

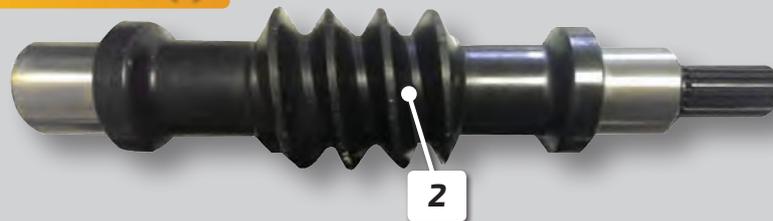
|                     | MATERIAL | SURFACE HARDNESS | CORE HARDNESS (R)          | INDUCTION HARDENING DEPTH ON THE TEETH |
|---------------------|----------|------------------|----------------------------|--|
| EURORICAMBI         | 42CrMo4  | HRC 56 - 58      | 87 - 88 Kg/mm <sup>2</sup> | 9 mm                                   |
| NON-OEM PRODUCT (*) | C45      | HRC 54 - 56      | 73 Kg/mm <sup>2</sup>      | 2,7 mm                                 |



## EURORICAMBI



## NON-OEM Product (\*)



**1**  
EURORICAMBI carries out thread grinding after heat treatment, chamfering the thread tip. This prevents dents and grants quieter running.

**2**  
On **NON-OEM products (\*)** the thread is ground before heat treatment. This does not eliminate heat treatment distortions and causes noise and vibrations during operation.

**3**  
EURORICAMBI grinds the thread to DIN 7 quality. This type of machining operation eliminates distortion due to heat treatment and achieves excellent eccentricity, resulting in quieter and more regular operation (no vibrations). In addition, a smooth motion transmission ensures longer life to the mating crown wheel.

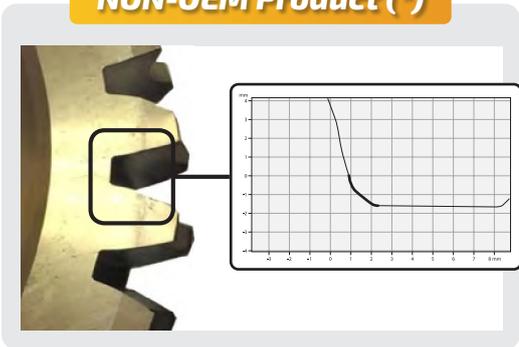


EURORICAMBI production uses a SAE bronze alloy and it is based on forging technology, while **NON-OEM product (\*)** is carried out from extruded bar or casting. Forged material is always stronger than the casted or bar-cut version.

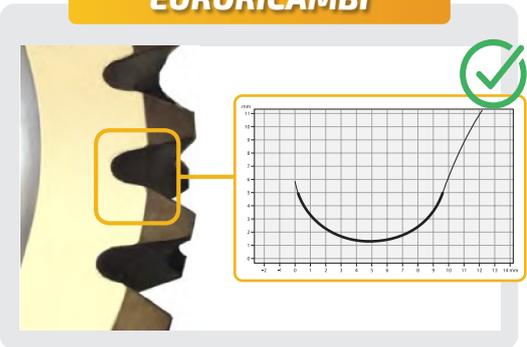
### HARDNESS BRINNER HB 10/3000

|                     |           |
|---------------------|-----------|
| EURORICAMBI         | 236 ÷ 240 |
| NON-OEM PRODUCT (*) | 116       |

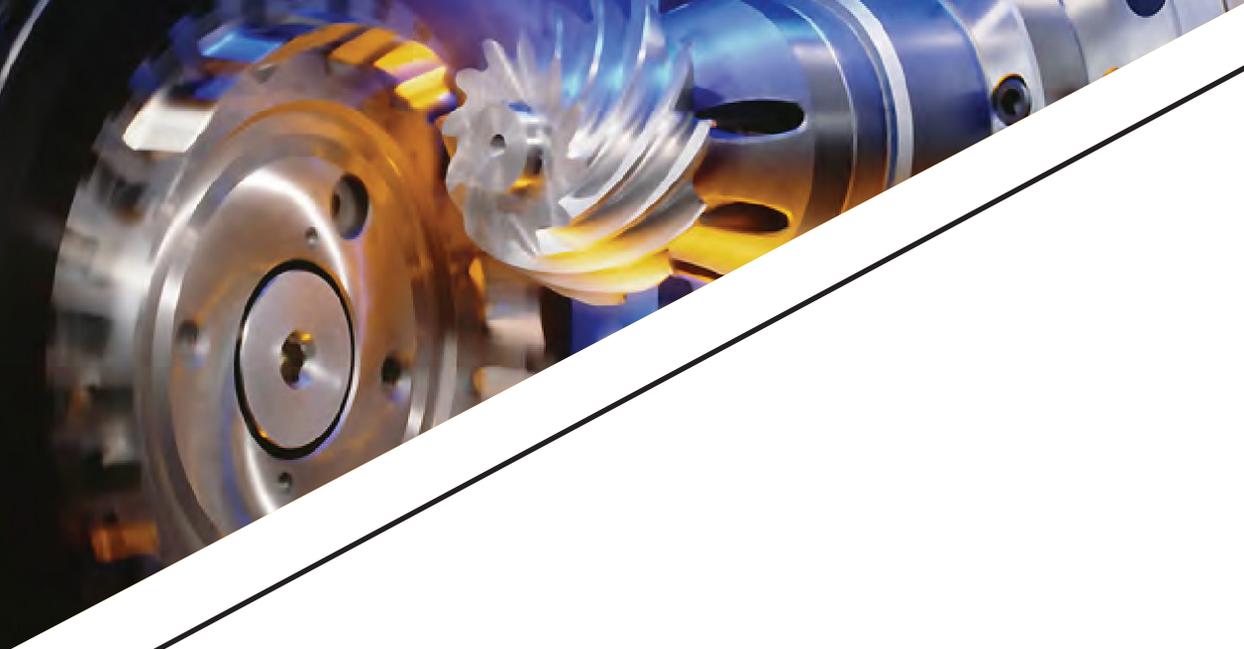
## NON-OEM Product (\*)



## EURORICAMBI



EURORICAMBI cuts the worm wheel creating a complete radius at the base of the tooth to improve fatigue resistance and to ensure smooth and regular operation, resulting in longer durability.



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