

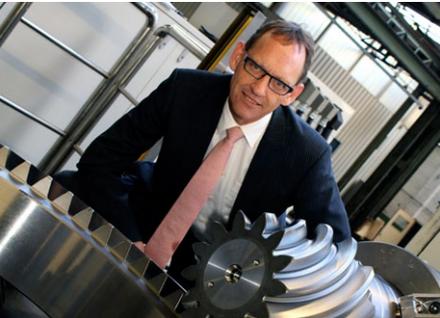
# Bierens maritime gears

## Bierens produces, overhauls and reconstructs

Within the 130 years of company history Verenigde Bierens Bedrijven B.V. has become a real gear specialist during the second half of our history. Over the decades, many changes have taken place at Bierens, but what has always remained is Bierens' constant care and passion for the



profession. The foundation of our history, the basis for our future! Bierens has become the market leader in gears, gearboxes, mechanical drives, special machines and overhaul work. Bierens is certified for NEN-EN-ISO 14001 and 9001 and manufactures single prototypes up to larger series.



## "Space for new strategy"

The need to optimize the production in the industrial sector is more required than ever. This also applies to Bierens, the world's specialist in gearboxes and gears. Since April 2012, Henk Meijer (56) is the new CEO of Bierens Machinefabrieken.

Henk Meijer: "Over 130 years of technological excellence, worldwide recognized clients and a team of passionate professionals working on innovative solutions. I feel honored and it is my great pleasure to make the further professionalization of this unique company meaningful."



At Bierens we build on our lifetime experience combined with the technological innovations of today.

## The golden solution!

**Is a gear simply part of a larger entity? Yes it is, but it is an extremely important part. Gears make the difference between smooth operation or unplanned breakdown. Bierens gears keep on going where others give up.**

If you are exploring alternative design options with lighter and smaller constructions, you will need smaller gears with the same specifications on power transfer. This is now possible because Bierens is offering you the "Golden Solution", the Bierens "S" gear. Further good news is that the Bierens "S" gears are manufactured with the highest DIN quality without grinding. The smaller gears are also less noisy and produce less heat.

**This unique Bierens S-gear is worth its weight in gold. The benefits are:**

- The power transfer of this new gearshape can be increased up to 30-35%.
- There is no need for axial fixation of the pinion which avoids large bearings.
- The Bierens S-gears produce less heat and less noise. The efficiency is better and alternative material solutions become possible.

The Bierens S-gear is made possible thanks to a new production method with a five-axis freeform milling technology. Instead of using time consuming CAD/CAM software the five axis stations are filled directly with calculated numeric codes (NC). This reduces the work preparation time with 75%. The direct NC-input is the key to the Bierens manufacturing technology.



**Bierens companies in NL and BE worldwide successful through:**

- Product leadership: highest precision in gears
- Operational excellence: direct data input to gear manufacturing machines
- Customer intimacy: transparency and partnering
- ... And our passion for gears



## CONTINUOUS FOCUS ON PRECISION

### Bierens moves up a gear

Our high-tech production method, based on our own software and decades of experience, is unique in the world and allows us to produce efficiently – quickly and for a reasonable price – and extremely accurately in accordance with the customer's wishes. In short, it's the best solution for you!

With the production process that we developed ourselves, at Bierens we also guarantee that we keep our promises. On a day-by-day basis Bierens engineers work on developing new or improved gears. You can therefore count on even more precise worm wheels in the near future. If you would like to know more, just call dr. ir. Noud van Roosmalen on +31 13 5360025

## CONTINUOUS FOCUS ON INNOVATION



Bierens was the first who used 5 axis milling machines for the production of gears, in particular required for spiral bevel gears. Dr. ir. Noud van Roosmalen (Head Technical Department): "The software was developed in house and successfully applied. The development and expansion of this software is the core task of the Bierens' department of Technology & Development."

Interested? Visit our website:

[www.bierens.com](http://www.bierens.com)



Bierens Machinefabrieken B.V.  
P.O. Box 4028, 5004 JA TILBURG (NL)  
Ringbaan Noord 189, 5046 AB TILBURG (NL)  
T +31 13 5360025 | F +31 13 5435550  
E [info@bierens.com](mailto:info@bierens.com) | I [www.bierens.com](http://www.bierens.com)

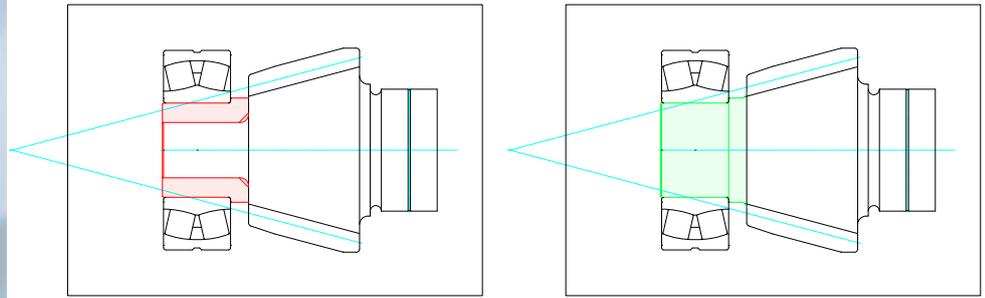


BY APPOINTMENT  
TO THE COURT OF  
THE NETHERLANDS

ISO 9001  
ISO 14001

BUREAU VERITAS  
CERTIFICATION  
ISO 9001 & ISO 14001

## No more loose bearing bushings



Loose bearing bushings (red) on the pinions definitely can be eliminated. Thanks to the special production technology, Bierens is the only gear manufacturer to make single piece pinions (green). This is an example where Bierens shows its added value to guarantee you the greatest operational availability. For the latest developments on our technology, just check the Bierens website or get in touch with us.

Bierens is specialized in (highly loaded) gears and gearboxes for the maritime sector. For over 100 years Bierens supplies large and small series and is equipped for making prototypes. Replacing defective gears is another field in which Bierens is the right partner for you.



## Large, larger, largest...

In Tilburg we organized our technology and development center for both the production locations Tilburg and Ghent (Belgium). The highest quality gears can be manufactured in Tilburg up to a diameter of 1600 millimeters. "In Ghent we make them even larger - up to a diameter of 2600 millimeters", says our enthusiastic Sales Manager - Adri van der Wielen.

The self developed mathematical calculated numeric codes for the five-axis milling centers is also the basic for the optimized contact pattern. The running tests for the contact pattern is a standard quality check to prove that customer specifications are met.

[www.bierens.com](http://www.bierens.com) | Bierens on LinkedIn: <http://bit.ly/bierenslinkedin>  Follow