

2

- WHO WE ARE
- TECHNOLOGY TO COMPETE
- QUALITY ASSURANCE
- THE NEW FACILITY

# WHO WE ARE

3

Wuxi Gear Tech is a brand new production reality focused in broaching technology. It represents the result of collaboration between the Europe's leader in broaching technology CapiGroup, and the Wuxi Weifu Precision Machinery Manufacture Co., with a long tradition in gear components supplying.



# WHO WE ARE

4



Wuxi Gear Tech found its core business in the manufacturing of components for axles, drive shafts, gear boxes and power reducers, ensuring high quality, service and cost competitiveness. But the use of ring gears is still growing in every sector, such as renewable power (wind), thanks to the performance guaranteed.

# TECHNOLOGY TO COMPETE

5

Wuxi Gear Tech can follow the product throughout his birth, from the raw material, according to the client specifications, to the finished part, already heat-treated. It is specialized in

- ❑ **broaching machining**
- ❑ **nitriding heat treatment**

but it can provide its clients a complete product solution with the support of

- ❑ turning machines
- ❑ drilling machines
- ❑ gear shaping machines
- ❑ carburizing plant

Wuxi Gear Tech is able to manage both steel and casting.





## Broaching machining

Broaching is a technology similar to gear shaping but as innovative as it can produce all the teeth in one step using a special tool designed according to the piece. Thanks to the process development of the last years and the long experience of its founders, Wuxi Gear Tech can machine pieces

**from 150mm up to 450mm** of internal diameter with **quality DIN7/8**

using broaching machines of 160ton.

# TECHNOLOGY TO COMPETE

7

## Nitriding & carburizing heat treatment

Working at **lower temperatures** ( $500^{\circ}$ - $550^{\circ}$ C), nitriding heat treatment cause less deformations on the ring gear, while ensuring the **same characteristics in term of resistance to fatigue and hardness**.

Wuxi Gear Tech plant can nitride components **from 0,5kg to 200kg**.

To cover the needs of its customers, Wuxi Gear Tech invested also in a carburizing plant.

In this way Wuxi Gear Tech can complete the production process of ring gears to provide customers the finished piece.

Wuxi Gear Tech is also **available as supplier of heat treatment for all the components its customers need**.



# QUALITY ASSURANCE

8



Wuxi Gear Tech can ensure the high quality standards needed by an in-line Total Quality Management System and a well developed quality department:

- ❑ 3D dimensional control
- ❑ special teeth profile control
- ❑ metallurgic and microstructure control (spectrometer)
- ❑ hardness control

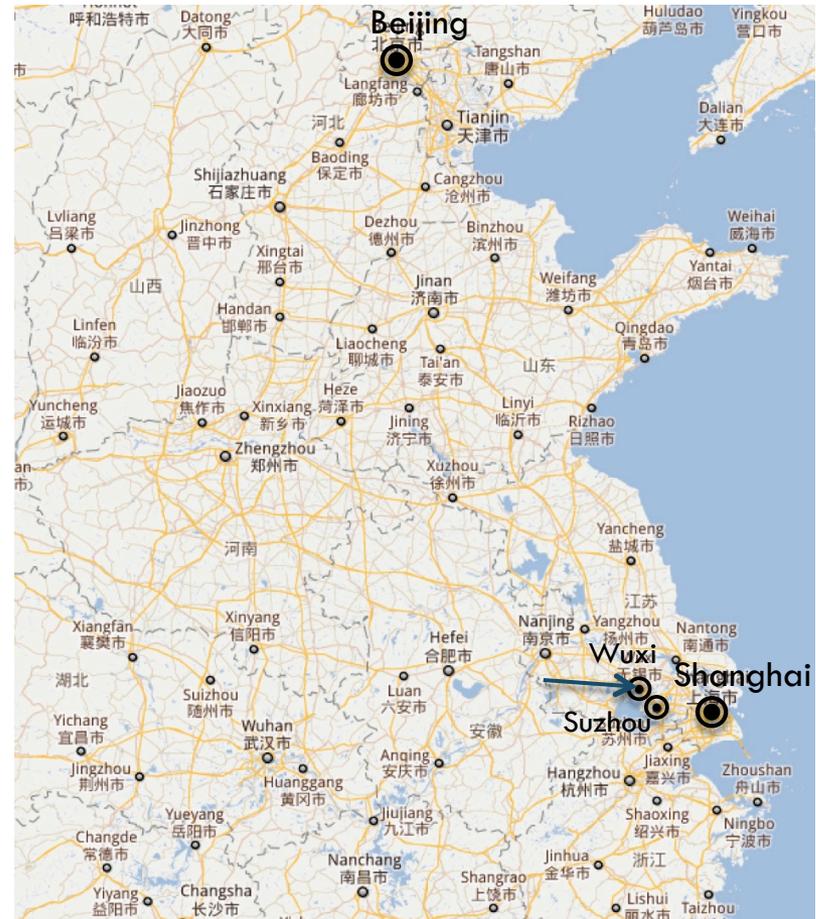
# THE NEW FACILITY

Wuxi Gear Tech is placed in Wuxi:

*202 Chengnan Rd., 2nd Period Suit Park,  
Wangzhuang Industry Zone, New District,  
Wuxi 214028, P.R.CHINA*

and it is composed by two different plants:

- machining area
- heat treatment area



10

THANKS

