

Here are a few figures to highlight the gear solutions:

 **22**
numerically controlled machines

 **60,000**
parts produced each year from unit to large batches

 **8**
robots for 3X8 production

 Completed parts up to **250 kg** in weight

 Parts with a maximum diameter of **50 to 600 mm**

 **4,200 m²** workshop

MANOIR INDUSTRIES

Future is our raw material.

Over the last 100 years, Manoir Industries has specialised in metal processing, has developed alloys and has operated processes to manufacture high-performance metal components. Its gear expertise has been known and recognised for several decades, and is complemented by forging, boiler-making, welding and assembly, in addition to an ability to deliver finished machined components. Manoir Industries aims to remain in close proximity to its customers to act seamlessly as true partners all over the world. It supports Manoir Industries in reaching innovative solutions, and Manoir Industries is always aware of its game-changing sector.

Credits: Manoir Industries, July 2018, wellcom

GEAR SOLUTIONS

Much more than a subcontractor: a partner.



MORI SEIKI
NT4300 DCG

FOR THE WORKINGS OF LARGE INDUSTRIES

OUR OFFER

- Rough turning
- Finish turning
- Hard turning
- Cylindrical grinding
- Computer numerical control (CNC) machining
- Gear-cutting module, from 1 to 16mm
- Gear grinding
- 3D-testing equipment

Well-known in reference to machining and cutting, Manoir Gears® provides its customers with over **50 years' expertise and know-how.** This experience **covers high-demand sectors**, such as those for aerospace, defence, construction and mining equipment, heavy trucks or agriculture transmission.



HIGHLY TECHNICAL LEVEL REQUIRED

Created in 1962, the **Chaumontel plant meets the criteria for high levels of safety and quality excellence**, particularly for the aerospace industry, attesting to its ability to ensure a high level of performance. Recent investments in **state-of-the-art CNC equipment** – a Liebherr gear cutting machine and a Studer cylindrical grinding machine – contribute to ever **more complete and efficient solutions.**

A GLOBAL PROVIDER OF FULL AND EFFECTIVE CUSTOMER SATISFACTION

For design, Manoir Gears® provides **technical support** to its customers' design offices, from a simple machining operation to the supply of a complete solution. Complex ranges can exceed dozens of operations. Parts of various geometries are **manufactured by prototyping, offloading or in batches.** Companies such as Caterpillar, Poclain Hydraulics and Airbus Helicopters have trusted Manoir Gears® for several years.

Its certifications are as follows: ISO9001/EN9100

CONTROL ROOM

- 3D control machine equipped with gear-control software
- Teeth-testing equipment
- Surface-condition control (Ra, Rt and Rz)
- Hardness control (HB, Hrc and HR)

INGENIOUS MEN, QUALITY PRODUCTS

Several generations are present at Manoir Gears®. **This experience transfer contributes to the sustainability of the know-how.** All its operators are versatile and are continuously trained on CNC machines. Manoir Gears® workshops have several robotic manufacturing islands. They are equipped with the following:

- Turning and milling machine, 2 spindles, 5 axis;
- Vertical and horizontal lathe machines;
- Machining centres;
- CNC gear hobbing machines;
- CNC gear shaping machines;
- CNC cylindrical grinding machine;
- CNC Gear grinding machine.

EVIDENCE OF CONFIDENCE

To meet the demands for high precision of its customers, **Manoir Gears® is equipped with testing equipment** for the following:

- Surface roughness;
- Surface hardness;
- Control gear teeth;
- 3D controls.

These highly efficient pieces of equipment guarantee the parts' compliance with the customers' requirements. The associated control reports ensure **accordance with the specifications** at the various production stages.

