

TURNING

In Gestión de Compras we are able to produce a wide range of products from a huge variety of materials manufacturing by turning machining.

PROCESS:

Turning is a machining process. Turning, like other machining processes, is a material removal process. During turning, part of the initial material is removed. The machinery that carry out this process is called turning machine or lathe.

Process steps:

- **Load/unload time:** Fix the workpiece into the turning machine. This step depend on size, weight, and other characteristics of the workpiece.
- **Cut time:** Cutting tool makes all the necessary cuts to get desired piece.
- **Idle time:** Remove material. Change tools and adjusting machine.
- **Tool replacement time:** The time required to replace a tool that has exceeded its lifetime

After the process isn't necessary to apply treatment to improve properties, because it usually has a good surface finish and very narrow tolerances.

During the process operations are carried out inside and outside. These **operations** are:

- Turning
- Facing
- Grooving
- Cut-off
- Parting
- Threading
- Drilling
- Boring
- Reaming
- Tapping

Turning machine can also be computer controlled. In this case, turning machine is CNC (Computer Numerical Control). The movements of workpiece and cutting tool are preprogramed. It's a very high precision turning machine.

Advantages of turning are:

- Good surface finish.
- It requires less energy and strength than other processes.
- Collecting chips is easier.

Turning also has **disadvantages**.

- Most defects are inaccuracies in a feature`s dimensions or surface roughness.
- Limited to rotational parts.
- Significant tool wear.

PRODUCTION:

In Gestión de Compras we are able to produce a wide range of products from a huge variety of materials manufacturing by turning machining.

We are provided by factories that can produce items completely by turning machining from roughing operation to the auxiliary operations necessary to finish the product with costumer's requirements.



MATERIALS AND PRODUCTS:

The material worked on turning and other machining processes are:

- Carbon steel
- Copper
- Stainless steel
- Aluminium
- Zinc
- Magnesium
- Other feasible materials are lead, nickel, tin, ceramics, titanium, thermoplastics and thermosets.

The parts made with this process are important in industrial, automotive, machinery, telecommunications, and other electrical and electronic components. As for example: threaded rods, dumbbells, bushings, shafts, screws, pins, etc.



TOLERANCES:

By Turning is possible gets tolerances about grades IT4 for finish turning operations, such as lapping and honing, according to standard ISO 286-2. While a rough turning have IT11 grade. We do turning operations between these two grades according to costumer requirements.

STANDARD AND CERTIFICATES:

We have the means to ensure our products comply the general regulation and the specific certificated regulations in manufacturing products that requires them.

- ISO 9001 and ISO 14001
- TS 16949
- ISO 8062, ISO 286-2, DIN 2768, DIN 1697, etc.
- OHSAS 18001
- ISO 5609



CONTACT:

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