



Special Procedure UDAK

Process description:

UDAK (negative pressure carburising / low pressure carburising) with subsequent gas quenching is a modern means of case hardening. Compared to the standard gas carburising process combined with oil quenching, the advantages of vacuum technology are manifest.

This is applied in the following sectors:

→ Tool manufacturing, automotive industry, aerospace...

Materials:

→ High-alloyed tool steels, corrosion resistant steels, ...

Main features:

- For heat treatment processes with special requirements
- Case hardening of high-alloyed steels

Plant dimensions:

→ Chamber furnace: Max. 1,200 x 900 x 900mm

Possible surface preparation to achieve optimum surface conditions:

→ Free from grease, oil, cutting fluid or scales after drawing or moulding operations

The process is mostly applied:

- To adjust strength and toughness parameters for components of special geometry with very high requirements
- To increase wear resistance and fatigue strength parameters of high-alloyed steels

Cycle duration:

→ Depends on the component and requirements

Process duration:

→ Depends on the requirements

Necessary information:

- Material
- Surface hardness
- Core strength
- Case hardening depth
- Possible pre-treatments
- Possible coverage areas
- Possible post-treatments

Important:

→ To guarantee smooth execution prior notification is recommended.

Contact:

RÜBIG Sales

+43 (0) 7242 / 660 60

ht.vertrieb@rubig.com