

Impellers - compressor wheels and blades for steam and gas turbines

RMT Motors business activity in the market segment of spare parts for turbomachinery and centrifugal devices has been increased to small-lot manufacturing of impellers - compressors wheels and turbine blades for steam and gas turbines .

We offer individual and serial :

- **turbocharger impellers**
- **gas process compressor wheels**
- **compressor wheels for natural gas pipeline stations**

Impellers and compressors wheels are made of the following materials:

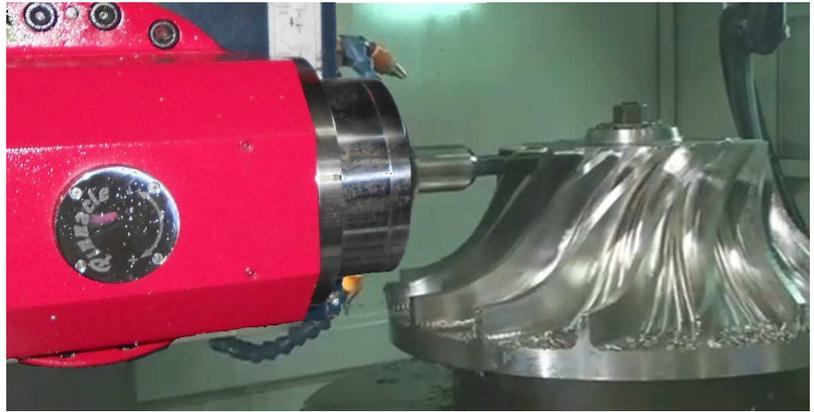
- Aluminum made
 - rolled aluminum alloys plates and shafts
 - aluminum alloy forgings freely forged (for large forgings series matrix)
- steel made
 - martensitic , austenitic steel

We offer individual and serial :

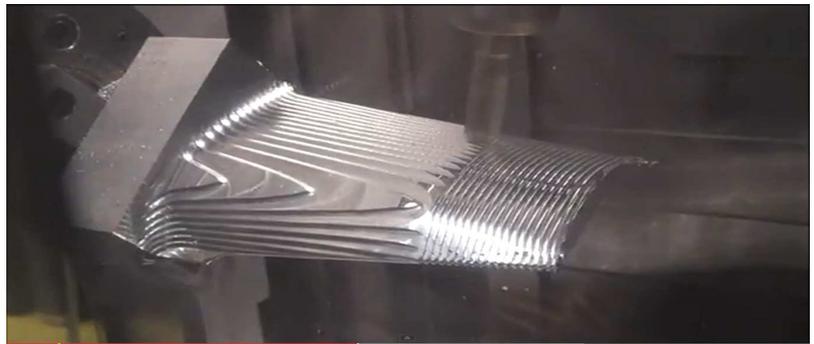
- **steam turbines blades**
- **gas turbines blades**

Turbine blades are made from the highest quality turbine materials :

- martensitic steels
- austenitic steels
- nickel alloys



The impeller diam 520 mm finishing milling



The roughing milling turbine blade . Length 203mm



Finishing milling blades L 203 mm



The turbine blade after finishing milling

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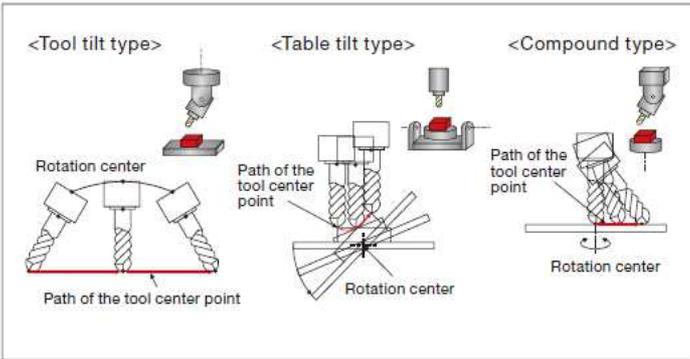
The dimensional accuracy and quality of milled turbine blades and impellers is achieved by the use of modern machines including 5-axis machining center company Pinnacle BX 300A equipped with nano control Mitsubishi M700 series.

The SSS function and nano control Mitsubishi M700 series in combination with optical gauges HEIDENHAIN in axes XYZ and super-precision encoders in axis B and C (or axis A after the retooling the machine for milling turbine blades) makes BX 300 an extremely rigid structure, precise, efficient and versatile tool to impellers, turbine blades and other precise parts demanding 5-axis machining.

Tool Center Point Control (Machining Center System) 5 Axis Machining Control

*M750VS, M750VW only

High-accuracy machining is realized by controlling each axis so that the tool center point moves linearly at a commanded feed rate even if the rotary axis moves in linear interpolation.

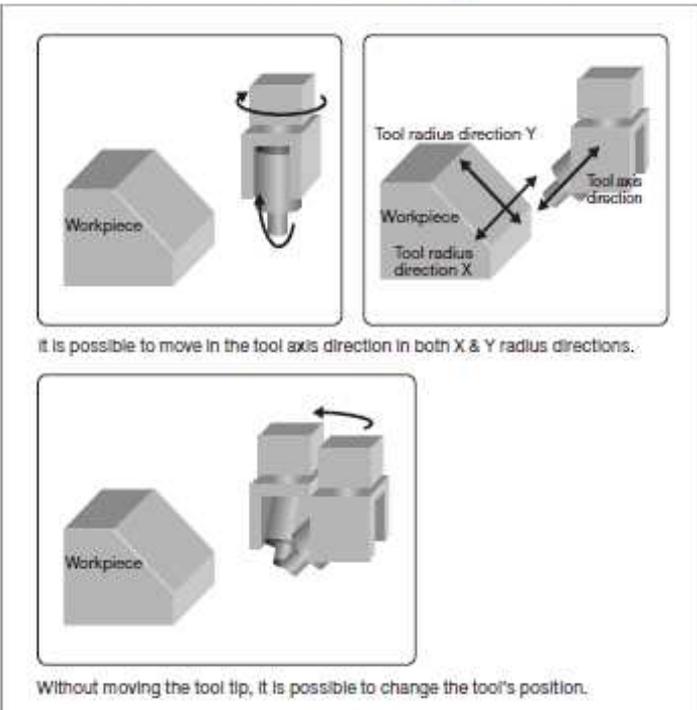


Source: Mitsubishi Electric CNC M700 series

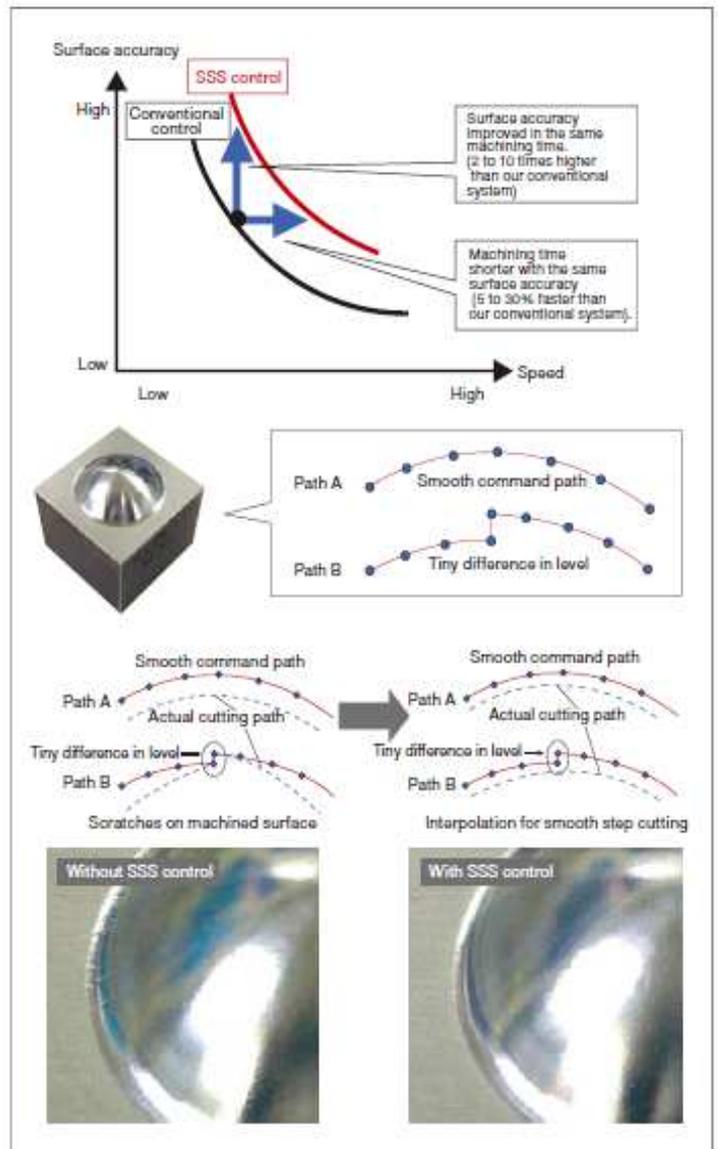
Tool Handle Feed & Interruption (Machining Center System) 5 Axis Machining Control

*M730VS, M730VW, M750VS, M750VW only

The Tool Handle Feed & Interruption function enables you to perform handle feed by making the tool diameter direction as an X or Y axis of complicated workpiece under five-axis machining. The tool position can be changed without moving the tool tip.



Source: Mitsubishi Electric CNC M700 series



Source: Mitsubishi Electric CNC M700 series