



IDRO-P - AUTOMATIC INDEXING CHUCK

Chuck for processing parts
on more axis with
one positioning only

- Sizes achievable from \varnothing 350 mm up to \varnothing 2500 mm
- Possibility of indexed machining in axis and out of axis
- Strong clamping for high chips removal



Large sized valves such as fittings, flanges and distributors, require machining processes on various sides with particularly accurate technologies. Due to the special valve configuration, cycle operations on indexed axis and with shifting in relation to the machining center are frequently required. The clamping of these parts also presents relevant difficulties due to the weight and the irregular shape of the castings.

AUTOMATIC CHANGE OF POSITION BY ONLY ONE POSITIONING

by one only clamping step on more machining axis.

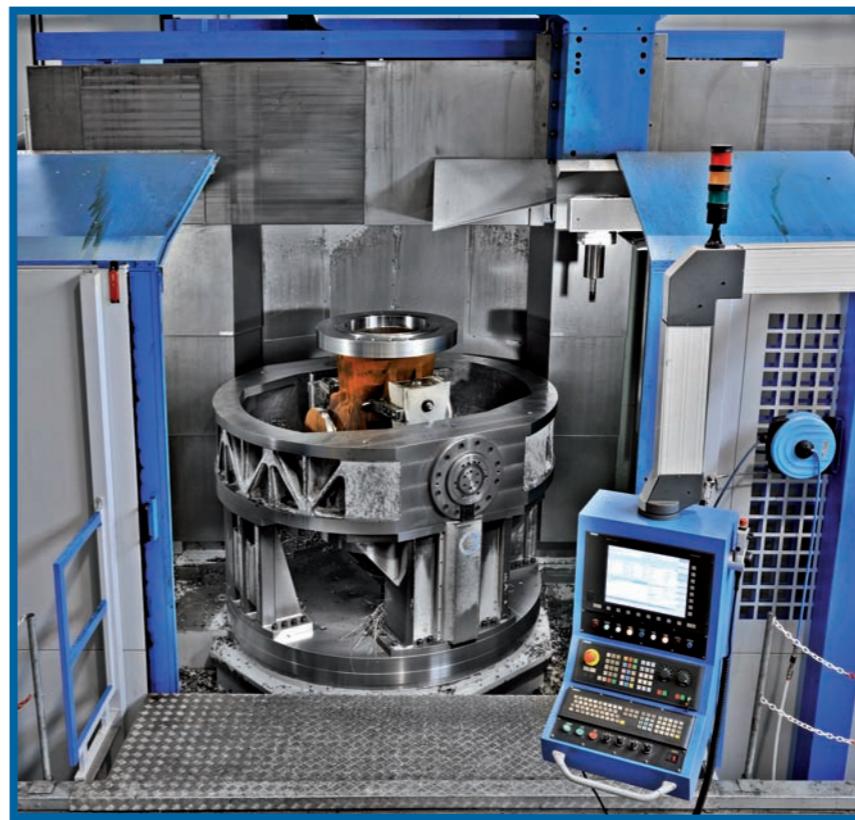
The machining process often involves high chips removal, with consequent need of strong clamping. Many operations shall be performed inside the valve body, with different angles and misaligned centers. The IDRO-P solution allows a quick and automatic change of position of 90° or on different angles, even on indexed and/or traversed axis.



The automatic positioning IDRO-P system allows the machining on all faces (outer and inner) of the valve by only one positioning performed on the central body: so you reach a higher machining accuracy and a relevant reduction of total re-equipment time.

HIGHEST CHIP REMOVAL. ACCURACY AND OPERATING FLEXIBILITY

The configuration of the IDRO-P system also allows a quick equipment change to shift from processing of one range of parts to another. The simple replacement of the inner clamping jaws and the positioning of the required balancing units allows to proceed with the machining of a parts set with even very different features.



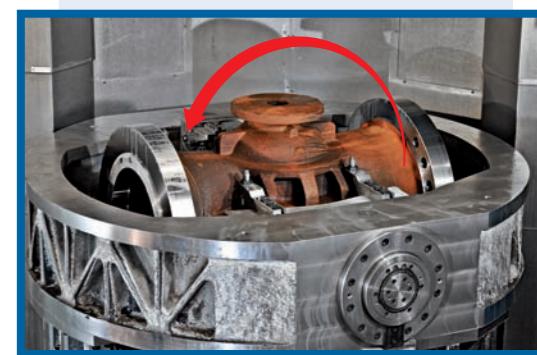
Machining on the first side



90° Rotation + machining on the second side



90° Rotation + machining on the third side



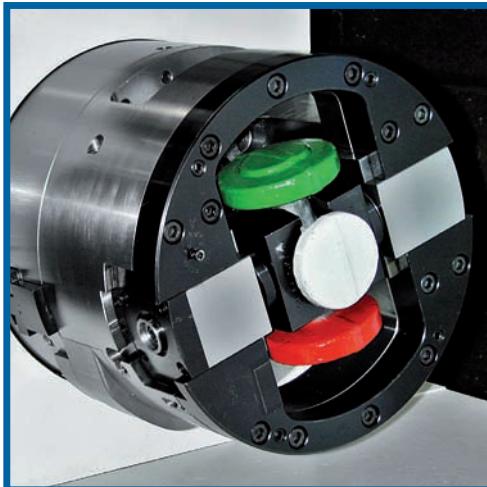
90° Rotation + machining on the fourth side

Applications on demand

IDRO-P-A-R

Automatic indexing chuck with tilting ring
on 2 positions at 180°, with 2+2
self-centering jaws and distributor
with 6 hydraulic ports.

Application: machining of opposed axis
on sleeves from 5" 1/2 up to 16".



MINI IDRO-P

Automatic indexing chuck provided for
4 angular positions at 90°.
Application: clamping of valve bodies,
cross fittings and other small sized
components with 4 machining axis.



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