



THINK PARTS THINK TORNOS



## MULTI CHUCKER

Robotic or powered loading.

# ROBOTIC LOADING

The requirements in terms of chucks are continuously evolving. Both profiles and dimensions are changing. To be able to offer the maximum amount of flexibility, a robot fitted in place of the slide in position 1 now offers easier loading for different types of parts. This also allows angular positioning of the parts.

One of the other advantages when using a robot is that there is the option to unload parts in a controlled way, as far as the machining time will allow. The "robotic loading" chucker concept can be adapted for use with the entire MultiSigma and MultiAlpha range.

## Example of a solution :

A vibrating bowl, which guarantees a predefined autonomy, offers up the parts to the robot placed in position 1, which is within the machining zone. The robot grips the part and loads it inside the spindle.



## Technical information :

- Minimum loading cycle time : 4.5 seconds.
- Clamping diameter, minimum : 4 mm to maximum : 55 mm
- Hydraulic or mechanical clamping with gripper or chuck.
- Angular orientation of the parts possible.
- Several options available : tracing, palletization, ejection of checked parts.
- Adaptable to Dm1, Dm2, 2x4 machines.



# POWERED LOADING

This chucker is an economic solution for large volumes of parts. So as to obtain maximum performance, a motorized system, which allows rapid loading of a specifically defined part, has been fitted in place of the slide in position 1. This system is designed for parts requiring cylindrical revolution, which do not need any angular orientation. The "powered loading" chucker concept can be adapted for use with the entire MultiSigma and MultiAlpha range, and the MultiDECO 32/6 i.

## Technical information :

- Minimum loading cycle time : 4 seconds.
- Clamping diameter, minimum : 4 mm to maximum : 55 mm
- Hydraulic or mechanical clamping with gripper or chuck.
- Several options available: tracing, palletization, ejection of checked parts.
- Adaptable to Dm1, Dm2, 2x4 machines.
- This concept is applied for parts where the blanks are parts which require cylindrical revolution, and do not need any angular orientation.

## Clamping by chuck :

The use of a chuck is less demanding in terms of the quality of the billets, thanks to its 2 mm stroke. The hydraulic control allows linear adjustment of the clamping force.



|                          | Powered loading - concept 1 |        | Robotic loading - concept 2 |        |
|--------------------------|-----------------------------|--------|-----------------------------|--------|
|                          | Grippers                    | Chucks | Grippers                    | Chucks |
| MultiSigma Chucker       | ✓                           | ✓      | ✓                           | ✓      |
| MultiAlpha Chucker       | ✓                           | *      | ✓                           | *      |
| MultiDECO 32/6i          | *                           | ×      | ×                           | ×      |
| Minimum cycle time       | 4 secs                      |        | 4.5 secs                    |        |
| Modularity / flexibility | +                           |        | ++                          |        |
| Changing the start-up    | +                           |        | ++                          |        |

✓ standard \* on request × not available

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