



## Machine sample HG-824 Vertical multispindle highspeed tapping machine with „Artis“ In-Process-Measuring-System



### Description of Hagen & Goebel machine design

- Machine body in heavy welding design with chip pan in front area
- Round table, elektromechanic with fixed indexing 4\*90 degrees
- Indexing plate Ø 810 mm for installation of workpiece fixtures
- Workpiece specific fixtures
- Automatic unloading system
- 2 Highspeed tapping machines type HG-22E Servo with max. spindle torque 95 Nm and max. spindle speed 1875 rpm, feed control by leadscrew system
- 2 fixed multispindle heads, each with 4 spindles in hole distance concerning workpiece
- „Drop“ coolant system
- Electronic control on basis Siemens S7 with functionable operation panel
- „Artis“ torque checking system to check the torque directly on every spindle
- Special tapping chuck with torque clutch and torque sensoric
- Machine housing with light beam sensor regarding UVV and CE regulations to protect against chips and dust

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## Machine sample HG-824 4 Station highspeed tapping machine



Loading area protected by light beam sensor.  
Fixture to lay down the workpieces.  
The workpieces will not be clamped or fixed.



Maschine working area shown by opened tool change machine side door  
„Pfeiffer“ drop coolant system to protect against dust.



Control box of „Artis“ torque control system with visualising of every spindle torque and the possibility to see the torque – time diagram of any spindle. Additionally the spindle which made error can easily be seen. In connection with automatic unloading system the not correct machined workpieces can be taken out of machine. Three following wrong parts will stop the machine.



Machine control panel with Siemens touch screen  
Direct maintenance or modification of parameters is by this easy menu in very short time possible.

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