



# Your Retrofit Specialist



Cost savings of up to 50%



**OLD, NEW, RETROFIT?**  
We give you expert advice and help you to make the best choice

**GST - GRINDING MADE FOR YOU**

*Certified according to*

**ISO 9001**

## Your advantages and disadvantages at a glance

### ▪ Old and outdated grinding machines

#### ADVANTAGES:

- ✘ **available tools may continue to be used \***
- ✘ low machine costs
- 👤 **high knowledge of the machine's functionality \***
- 👤 **knowledge of technologies \***
- 👤 skills in handling malfunctions and problems
- 👤 no training requirements

#### DISADVANTAGES:

- ✘ increased susceptibility to trouble
- ✘ high energy consumption
- ✘ difficulties in procuring spare parts for control, drive and measuring systems
- ✘ low level of automation
- 👤 higher staffing requirements
- 👤 dependency on the staff (only few staff with know-how)

### ▪ New grinding machines

#### ADVANTAGES:

- ✘ **greater availability \***
- ✘ **high level of automation \***
- ✘ **standardised operation \***
- ✘ **lower energy requirements \***
- ✘ **high productivity \***

#### DISADVANTAGES:

- ✘ high acquisition costs
- ✘ great tooling requirements
- 👤 increased training requirements



Legend:

✘ = machine // 👤 = man // \* **highlighted in bold** = advantages for Retrofit resulting from OLD and NEW

## Your advantages and disadvantages at a glance

### ▪ Retrofit

#### ADVANTAGES:

- ✂ approx. 20 to 50% lower cost compared with the purchase of a new machine
- ✂ **available tools may continue to be used \***
- ✂ **lower energy requirements \***
- ✂ **higher productivity \***
- ✂ **high level of automation \***
- ✂ **standardised operation \***
- ✂ **high availability \***
  
- 👤 few training requirements
- 👤 **high knowledge of the machine's functionality \***
- 👤 **advanced technological knowledge \***



Conclusion:

**TOP QUALITY,  
DURABLE,  
SUSTAINABLE!**



The upgrading of your machine can be carried out at the **GST** plant or directly at your site!



Legend:

✂ = machine // 👤 = man // \* **highlighted in bold** = advantages for Retrofit resulting from OLD and NEW



## There are many good reasons for Retrofitting

### ▪ **Mechanic and fluid power systems**

- **Geometric overhaul of the axes -**  
to enhance the machining quality and reduce malfunctions.
- **Overhaul or replacement of grinding spindles -**  
to enhance the machining quality and to adjust to the current grinding materials.
- **Modification of hydraulic axes to NC axes -**  
to enhance the machining quality and reduce energy consumption.
- **Replacement of old, no longer available machine components with new parts -**  
to improve the availability of spare parts.
- **Modification or new construction of machine enclosures -**  
to improve the safety and the ambient air quality in the workshop.
- **Installation of exhaust systems -**  
to improve the ambient air quality in the workshop.
- **Replacement of hydraulic, pneumatic and coolant supply systems -**  
to reduce energy consumption, facilitate the procurement of spare parts and reduce malfunctions.
- **Installation of new coolant nozzles -**  
to reduce coolant consumption and improve the machining quality and tool life.

### ▪ **Control unit and electric installation**

- **Replacement of CNC and drive systems -**  
to facilitate the procurement of spare parts, reduce energy consumption and reduce machining times (cycle times).
- **Replacement of the machine wiring -**  
to reduce malfunctions.
- **Installation of absolute position transducers -**  
to reduce the machining times.
- **Installation of new in-process measuring systems -** to improve the measurement results and facilitate the prompt procurement of spare parts.
- **Installation of new balancing and sensor systems -** to enhance the machining quality and to optimise the cycle time.
- **Replacement of hydraulic or pneumatic drives by electric drives -**  
to reduce energy consumption.
- **Installation of motor drives for pump units -**  
to reduce energy consumption.



## There are many good reasons for Retrofitting

### ▪ Software and safety equipment

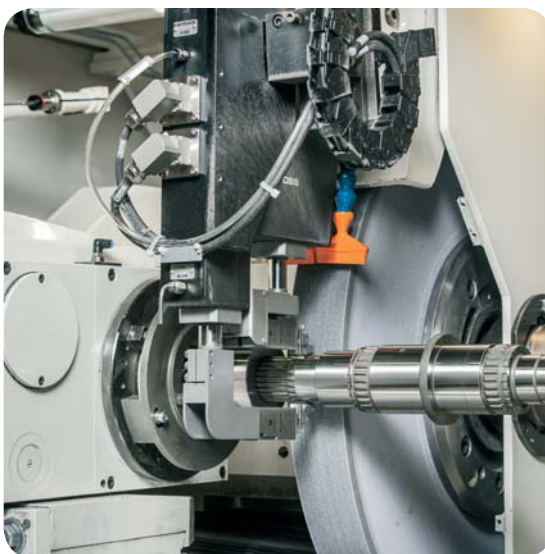
- **Replacement of the software -**  
to facilitate machine operation, reduce the cycle time and enhance the machining quality.
- **Extensions and/or implementation of interfaces -**  
for the collection of operational data and for remote maintenance.
- **Implementation of a new software -**  
for the selective use of auxiliary units and the reduction of energy consumption.
- **Installation of up-to-date safety equipment -**  
for strict compliance with safety standards.



**GST**  
Everything from  
a single source!

### ▪ Automation and peripherals

- **Installation of automatic loading and unloading systems (robots, gantry loaders), incl. software -**  
to reduce manpower requirements, for faster machining and the integration of the machine into existing production lines.
- **Installation of new cooling systems for switch cabinets, hydraulic systems etc. -**  
to improve energy consumption and the workshop environment.
- **Installation of new coolant supply systems, including pump units -**  
to enhance the machining quality, reduce energy consumption and optimise machining time.
- **Installation of post-process measuring systems -** for quality improvement.
- **Installation of systems -** to clean workpieces from coolant.





## GST – GRINDING MADE FOR YOU



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