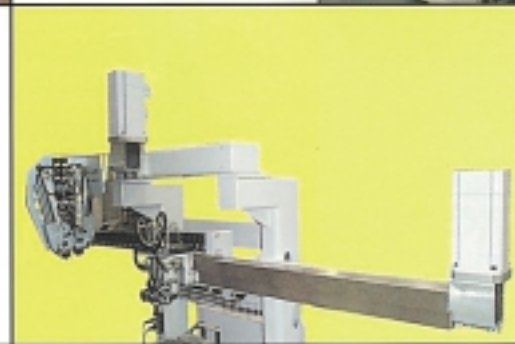
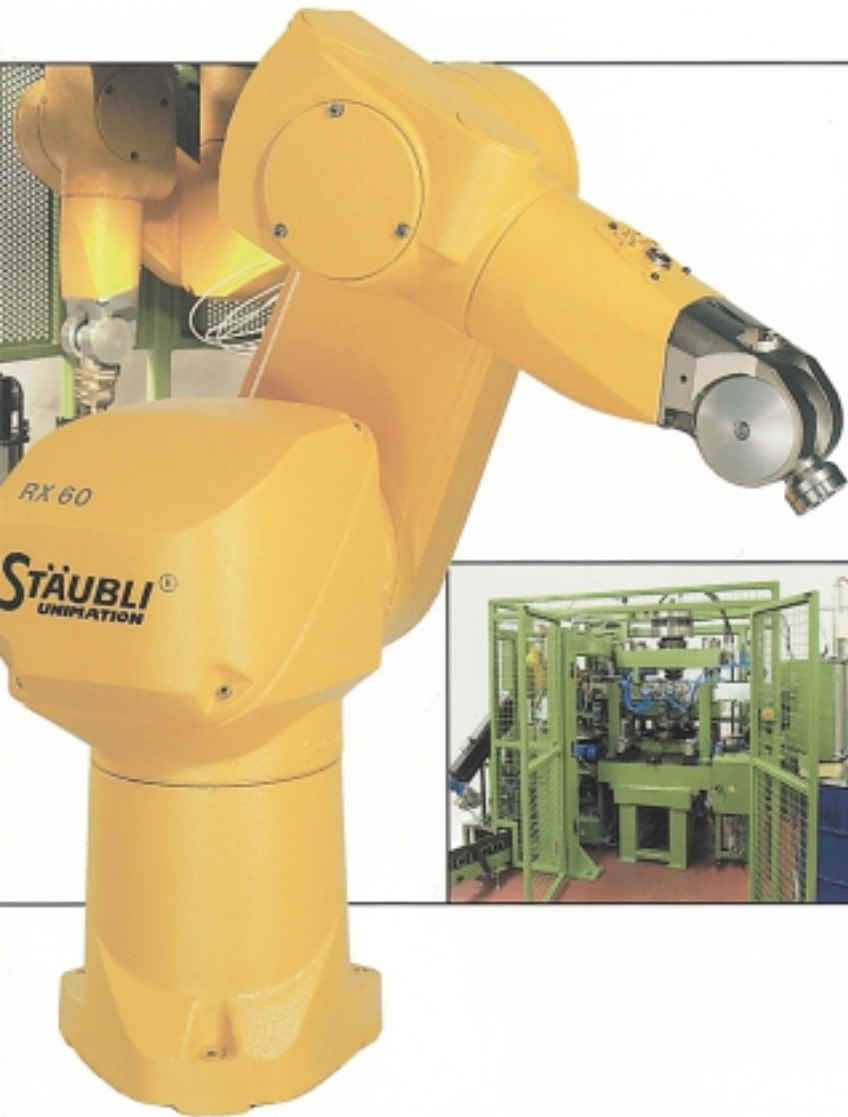


# Parts Handling & Loading Systems

FOR MACHINE TOOLS AND  
MANUFACTURING PROCESSES

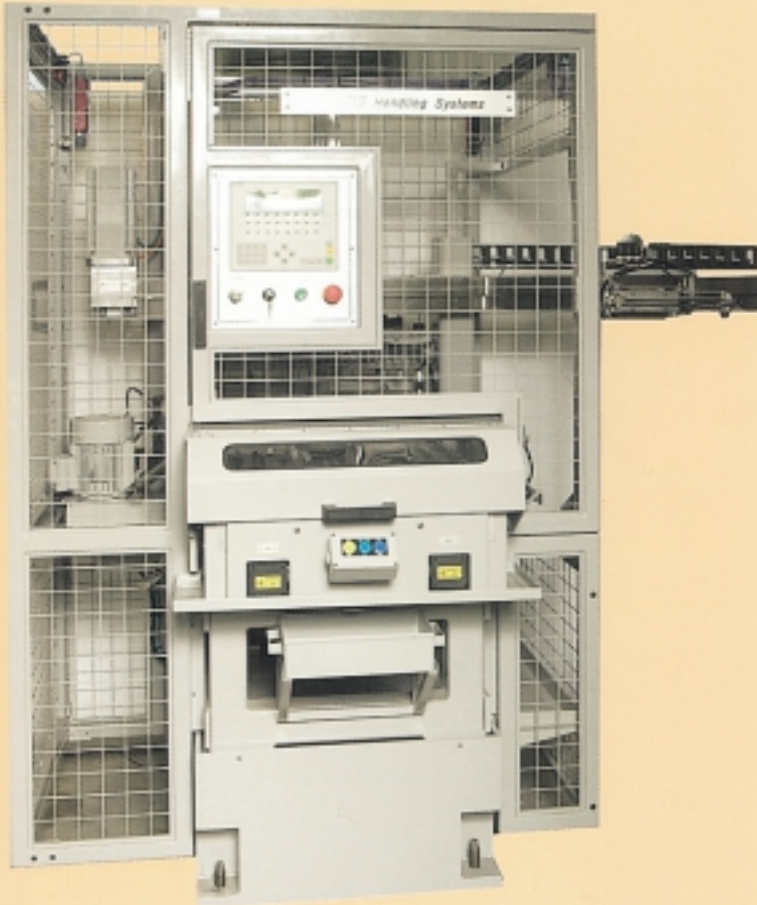


Curtis Machine Tools Ltd

# Parts Handling & Loading Systems

FOR MACHINE TOOLS AND MANUFACTURING PROCESSES

## SINGLE AXIS MULTI FUNCTION LOADER



Loading system for an internal grinding machine, includes pre and post process gauging and post process deburring

Curtis loading and handling systems are designed around standard modules that are either of our own design or sourced through our supplier partnerships.

Systems are produced to meet specific production requirements within an agreed budget. Frequently our handling systems are designed to enhance product quality or reduce capital costs by incorporating ancillary processes such as gauging, washing or assembly.

We are pleased to work in partnership with OEMs, where the supply of our handling and loading systems can enhance the saleability of their products. We are also pleased to work with end users where there is a requirement for process automation or machine loading.

### STANDARD CURTIS PARTS HANDLING MODULES

- High speed single axis servo driven, pick and place gantry
- Heavy duty 2-axis servo driven, pick and place gantry
- Conveyor based pallet transport systems
- Stacking palletisers
- Walking-beam transfer systems

### AVAILABLE THROUGH SUPPLIER PARTNERSHIPS

- 6 - Axis robots
- SCARA robots
- Vision systems
- Pneumatic robot elements
- Vibratory feeders (bowl, linear track, etc.)
- Conveyors

## SINGLE AXIS MULTI FUNCTION LOADER

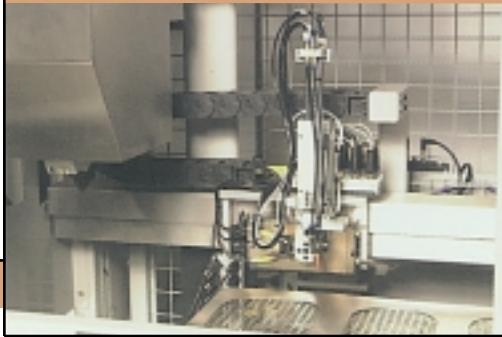


Close up showing the U shape conveyor path



## TWO AXIS LOADER

Close up showing the two pneumatic arms for component orientation and loading



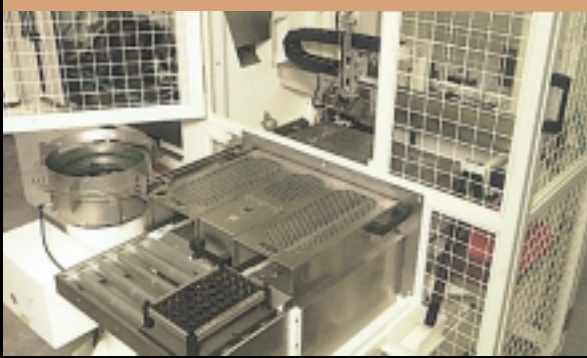
Standard module for retrofit to machine tools. Used for machine tool loading, parts handling, pick and place, and workpiece positioning

## TWO AXIS LOADER



Typical loading system for a machine tool or machining centre

## TWO AXIS LOADER



Close up showing bowl feeder and pallet for machined components

### ANCILLARY PROCESSES

- Dimensional measuring (contact and non-contact)
- Single part washing systems
- Parts assembly and disassembly
- Performance testing
- Deburring
- Demagnetising

### APPLICATIONS

- Machine tool loaders
- Stand-alone single part wash systems
- Automated assembly
- Automated visual inspection and data logging
- Specialist product testing

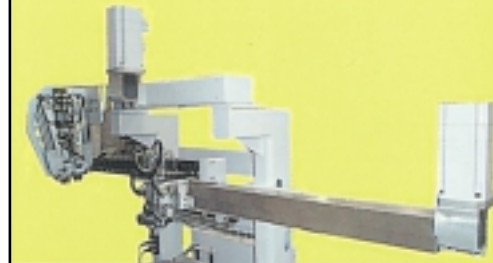
### SERVICES

- Design and build to meet agreed performance criteria
- Full documentation and maintenance recommendations
- Installation and commissioning
- After sales support for the lifetime of the machine

SCARA robot. Bosch approved system integrator.



## COMPACT ROBOT LINEAR TRANSFER SYSTEM



## ROBOT SYSTEMS



6-axis robot used for assembly and press tool loading. Stäubli approved integrator



## TWO AXIS MULTI-FUNCTIONAL HANDLING SYSTEM



System incorporates machine loading,  
component measurement, deburring,  
washing, assembly, functional testing,  
disassembly and return to pallet

## THROUGH FEED CONVEYOR SYSTEM



### THROUGH FEED CONVEYOR SYSTEM



Close up showing pick and  
place gripper

## PALLETISING SYSTEMS



## PALLETISING SYSTEMS



Half-euro pallet system