

Esteemed Customers



# Innovative Industrial Equipment for High Performance



Contact :  
Industrial Equipment Division

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Technical excellence is our motto,  
Converting them into reality is our strength.



# Industrial Equipment Division

Mass production of high precision products at Bosch, is governed by the imperatives of stringent process and Quality systems of Bosch. So much so, the Industrial Equipment (IE) Division of Bosch Limited, has been the nucleus for developing several innovative manufacturing options for Bosch products.

Over the last 37 years, more than 2600 special purpose machines and test equipments built by the Division, are successfully supporting Bosch image as the market leader. We have also exported special purpose machines to several Bosch plants and other companies world wide.

It is not just metal cutting machines, but our capabilities to develop special equipment of varied nature, makes Bosch IE Division, the "One stop technology centre". Our range of machinery and equipment illustrated in this brochure, will testify to this fact.

Strength for innovation stems from our experienced team of designers and machine builders committed to developing customised solutions. Continuous update of know-how, not only from Bosch, but also from World's leading Machine tool manufacturers from Germany have helped to keep us abreast of the latest manufacturing technology.

Our focus is to provide total turnkey solutions and high performance machines and equipment to customers.



Industrial Equipment Division

## SPM Range

- Metal Cutting machines
- Grinding Machines
- Super Finishing Machines
- Electro Chemical machines (ECM)
- Cleaning machines
- Automated assembly lines
- Computerised Testing Equipment
- Tools, Fixtures and Gauging Devices

## Metal Cutting Machines

### Range

- Fixed station way type
- Shuttle indexing type
- Drum indexing type
- Rotary transfer type
- Linear transfer type
- CNC turning centre
- CNC machining centre



Gun Drilling Machine



2-Station Milling Machine



4-Station Rotary Indexing Machine

## Grinding Machines

### Applications:

- Flat grinding
- Slot grinding
- Cam grinding & other special grinding



Special Purpose Grinding Machine

## Cleaning Machines

### Types

- Single stage
- Linear
- Multistage
- Rotary



3-Station Linear Transfer Cleaning Machine

## Deburring Machines



ECM - Electro - Chemical Machine

## Testing & Checking Equipment

### Range

- Clearance checking
- Through-flow checking
- Calibration and setting
- Endurance testing
- Fatigue life testing

### Salient Features:

- Automatic data acquisition system to eliminate manual interference.
- Auto part loading.
- Automatic sorting of parts into pre-fixed groups.



Performance Test Bench



Drive Head Test Rig

## Assembly Lines

### Types

- Single station "Stand alone" system with part storage facilities like bins and assembly devices like fixtures and screwers.
- Multi-station line with manual work stations.
- Semi-automatic palletised line with assembly devices and mid stage checking stations.
- Fully automatic lines with work station for automatic component loading, assembly, checking, sorting and unloading.



Shaft Assembly Line



Pinion Assembly Line



Filter Assembly Line



Assembly Machine for Cylinder Block

## Manufacturing Facilities



ZEISS Co-ordinate Measuring Machine



HAUSER CNC Jig Grinding Machine



SIP Jig Boring Machine