

MACHINES

By Sharda Industries



FULLY AUTOMATIC ONLINE/OFFLINE MEASURING MACHINE

- ▶ In Process Measuring, Post Process Measuring, In-line Measuring Module
- ▶ Automatic Measuring Machine for High-accuracy Production.
- ▶ It can be of online Measuring or offline Measuring Machine.



OPERATION TYPE



- 1) Multi-Dimensional Measuring Unit
- 2) Dimension Checking for.
 - a) OD b) Lug Height Checking
 - b) Bore d) Width/Height
- 3) Post Process gauges
- 4) 100% Dimension checking module in line
- 5) Radial clearance checking module (RC Checking)
- 6) Tilting Unit
- 7) One-side feeding machine
- 8) Dynamic measuring

SPECIFICATIONS



- ▶ Speed : Cycle time according to measuring machine
- ▶ Accuracy : > 0.5 μ as required
- ▶ Machine Grade : Automatic. Auto loading and unloading, In-between machines, and available with Auto feeder.
- ▶ Control System : PLC Control/CNC Control - as per requirements
- ▶ Other : Multi-measuring
- ▶ Dimension(L x W) : According to machine
- ▶ Weight : According to machine

AUTO CNC/PLC-CONTROLLED GRINDING MACHINE

- ▶ Automatic Grinding Machine with Auto Loading/Unloading.



OPERATION TYPE

- 1) Bore Grinding
- 2) OD Grinding
- 3) Shaft Grinding
- 4) Raceway/Track Grinding
- 5) Lip Grinding
- 6) Tip Grinding
- 7) Conjugate Grinding

SUITABLE FOR

- i) Deep Groove Ball bearing (DGBB)
- ii) Taper roller bearing (TRB)
 - ▶ Conjugate Grinding
(Three operations at a time)
- iii) Cylindrical Roller bearing (CRB)
- v) Textile Shaft OD Profile Grinding
- iv) Textile Shaft Tip Grinding

TYPES OF MODELS

- 1) Internal Grinding
 - With Oscillation
 - Plunge cut
- 2) External Grinding – Centerless
 - With Regulating wheel – Plunge cut/Through feed
 - With Magnetic clamping

SPECIFICATIONS

- ▶ Accuracy : > Surface finish -0.15μ Ra, ii) Roundness - less than 1μ , iii) Suitable for P5-P6 Class bearing production.
- ▶ Machine Grade : Automatic, Semi-automatic, With/without IPG.
- ▶ Slides controls : SERVO Controlled.
- ▶ Control System : PLC Control / CNC Control / Motion Control - as per requirements
- ▶ Other : Conjugate Grinding
- ▶ Dimension(L x W) : According to design - In general 8 ft. x 6 ft.
- ▶ Weight : Internal Grinding machine : Up to 2 - 4 tons
External Grinding machine : Up to 3 - 7 tons
- ▶ Auto balancer
- ▶ Profile Diamond dresser
- ▶ NC Dressing
- ▶ Can be comply with CBN Wheel

PARTING MACHINE WITH FEEDER TABLE

- ▶ Mass Production Machine for Parting Operation.
- ▶ All Types of Material Can be Cut with Auto Pipe Feeder Table.
- ▶ Widely used in Auto Component Manufacturing.



OPERATION TYPE

- 1) OD / ID Chamfer and parting
- 2) Facing and Parting
- 3) OD and Parting
- 4) Bore and parting

TYPES OF MODELS

Sr. No.	Particulars	Models			
		PT-40	PT-75	PT-105	Customised
1	ROD/Pipe Dia.	8 mm to 40 mm	30 mm to 74 mm	74 mm to 104 mm	Can be Customised as per Requirements
2	Max. Pipe Length	20 Ft.	20 Ft.	20 Ft.	
3	Max. Rod Length	10 Ft.	-	-	
4	Parting Size	as per Requirement	as per Requirement	as per Requirement	

SPECIFICATIONS

Automatic Bar/pipe Parting Machine with High Accuracy and High Productivity.

- ▶ Material : All types of material (Parting possible of welded pipe also).
- ▶ Capacity : Cycle time - 3.5 seconds, and more with Loading and unloading.
- ▶ Accuracy : 50μ in Parting Width.
- ▶ Machine Grade : Automatic.
- ▶ Control System : PLC Control / CNC Control (As per requirement).
- ▶ Processing Type : CUTTING and TURNING.
- ▶ Dimensions (L x W) : 6 feet x 4 feet (Without stand)
- ▶ Weight : Up to 1 ton with Feeder Table.



FULLY AUTOMATIC TURNING LINE - INTER CONNECTED MACHINES

- ▶ Automatic Turning Machine Line for High-Volume Production.
- ▶ Cnc: Siemens/Fanuc/Mitshubishi and Other
- ▶ PLC: Any
- ▶ Auto Feeder Table
- ▶ Hard Part Turning
- ▶ For High Accuracy, High Production, High Cmk, High Finishing, High Cost Saving with Low Cycle Time, Low Tooling Cost, Low Production Cost, Low Production Loss, Low Raw Material Cost.



OPERATION TYPE

All types of turning operations for Mass Production with Auto Loading.

E.g. OD, ID, Chamfer-Radius, Knurling, Threading, Hard part turning, and any other turning operation.

TYPES OF MODELS

- 1) T-62: Component Dia. 8 mm - 62 mm, Width - 10 mm to 60mm
- 2) Fully customized as per customer requirements.

SPECIFICATIONS

Automatic Bar/pipe Parting Machine with High Accuracy and High Productivity.

- ▶ Material : All types of Materials.
- ▶ Speed Cycle time : > 2.5 seconds, and more including loading and unloading.
- ▶ Accuracy : 20 μ
- ▶ Clamping types : Collet/Chuck. Internal or External clamping as per requirement
- ▶ Machine Grade : Automatic. Auto loading and unloading, Interlinking between machines, and Auto feeder.
- ▶ Slides controls : SERVO/HYDRAULIC CONTROLLED.
- ▶ Control System : PLC Control / CNC Control - as per requirements
- ▶ Processing Type : TURNING
- ▶ Other : Multi-operational in one tool post and multi-tool post
- ▶ Dimension(L x W) : 5 feet x 4 feet(Without stand)
- ▶ Weight : Up to 1 Ton per machine



FULLY AUTOMATIC SPM TURNING MACHINE

- ▶ Automatic Turning Machine for High-Volume Production.
- ▶ Automatic Turning Machine with Auto Feeder Table.
- ▶ For High Accuracy, High Production, High Cmk, High Finishing, High Cost Saving with Low Cycle Time, Low Tooling Cost, Low Production Cost, Low Production Loss, Low Raw Material Cost.



OPERATION TYPE

All types of turning operations for Mass Production.

E.g. OD, ID, Chamfer-Radius, Knurling, Threading.

TYPES OF MODELS

- 1) T-62: Component Dia. 8 mm - 62 mm, Width - 10 mm to 60 mm.
- 2) Fully customized as per customer requirements.

SPECIFICATIONS

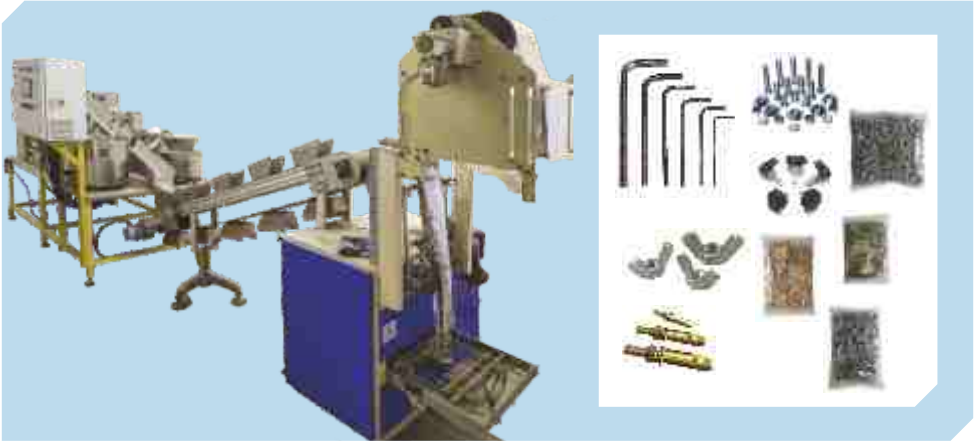
Automatic Bar/pipe Parting Machine with High Accuracy and High Productivity.

- ▶ Material : All types of Materials. (Turning possible of welded pipe also).
- ▶ Speed Cycle time : 2.5 seconds, and more including loadingandunloading.
- ▶ Accuracy : 20μ
- ▶ Clamping types : Collet/Chuck. Internal or External clamping as per requirement
- ▶ Machine Grade : Automatic. Auto loadingandunloading, Interlinking between machines, and Auto feeder.
- ▶ Slides controls : SERVO/HYDRAULIC CONTROLLED.
- ▶ Control System : PLC Control / CNC Control - as per requirements
- ▶ Processing Type : TURNING AND CUTTING
- ▶ Other : Multi-tooling, Multi operational
- ▶ Dimension(L x W) : 5 feet x 4 feet(Without stand)
- ▶ Weight : Up to 1 ton.



MACHINES
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FULLY AUTOMATIC COUNTING AND PACKING MACHINE



Valued Customers

SCHAEFFLER INDIA LIMITED



GALAXY BEARINGS LTD.



FALSAN INDUSTRIAL SOLUTIONS & SERVICES LLP.



NBC FLEXIBLE SOLUTION



MICROTECH SEAMLESS TUBE PVT. LTD.



COLUMBIA MACHINE



ADITYA FORGE



JAYTE INDUSTRIES PVT LTD



SAURER TEXTILE




MULTICUT MACHINE TOOLS




TTK PRESTIGE



 sales@srdmachines.com

 +91 9426317597

 +91 9428691181

 **Sharda Industries**

Survey no. 159, Block No. 190/P1,
POR Raman Gamdi Road, Near Patel Estate,
Raman Gamdi, Vadodara, Gujarat - 391243



Scan QR Code for Details

www.srdmachines.com