



INNOVATIONEN

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BRUNNEN





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1. Milling Machines

1. Vertical Milling Machines.
2. Horizontal Milling Machines.
3. Universal Milling Machines.
4. Thread Milling Machines.
5. Others.

2. Cutting off and Sawing Machines

1. Rotary cold sawing machines.
2. Abrasive cutting off machines.
3. Band saw type machines.
4. Power sawing machines, Hack type.
5. Others.

3. Grinding Machines

1. Internal grinding machines.
2. Plain cylindrical grinding machines.
3. Surface grinding machines.
4. Thread grinding machines.
5. Tool and cutter grinding machines all types.
6. Twist drill grinding machines.
7. Centreless grinding machines.
8. Lapping and Honing machines.
9. Others.

4. Drilling Machines

1. Bench type drilling machines.
2. Pillar type drilling machines.
3. Radical drilling machines.
4. Multiple-spindle drilling machines.
5. Others.

5. Lathes

1. Bench Lathes.
2. Engine lathes cone pulley type.
3. Engine lathes all geared head.

4. Capstan lathes.
5. Turret lathes.
6. Automatic lathes.
7. Relieving lathes.
8. Wheel turning lathes.
9. Others.

6. Furnaces

1. Electric Furnaces.
2. Coal and coke fired furnaces.
3. Gas furnaces.
4. Oil fired furnaces.

7. Boring Machines

1. Horizontal boring machines.
2. Vertical Boring machines.
3. Jig Boring machines.

8. Hammers and Presses

1. Drop Hammers.
2. Hydraulic Hammers.
3. Pneumatic Hammers.
4. Power driven Hammers, all types.
5. Steam Hammers.
6. Arbor presses (hand operated).
7. Hydraulic Presses.
8. Moulding Presses.
9. Drawing Presses.
10. Mechanical Power Presses.
11. Press Bending brakes.
12. Punching and shearing presses.
13. Others.

9. Broaching Machines

1. Internal Broaching machines, vertical and horizontal.
2. Surface broaching machines, vertical and horizontal.
3. Others.

10. Gear Cutting and Finishing Machines

1. Gear cutters, Bevel, all types.
2. Gear hobbing machines.
3. Gear planing generators.
4. Gear shapers.
5. Rack cutters.
6. Gear tooth grinding machines.
7. Others.

11. Shaping Machines

1. Crank drive shapers.
2. Gear drive shapers.
3. Hydraulic drive shapers.
4. Others.

12. Planing Machines

1. Double housing type planing machines.
2. Open side type planing machines.
3. Crank Planners.
4. Others.

13. Slotting Machines

1. General purpose slotters.
2. Puncture slotters.
3. Others.

14. Sheet Metal working Machines

1. Circular Shears.
2. Guillotines.
3. Plate bending machines.
4. Slitting and cropping machines.
5. Plate straightening machines.
6. Others.

15. Tapping and Threading Machines

1. Bolt threading machines.
2. Nut tapping machines.
3. Pipe threading machines.
4. Screwing machines.
5. Thread rolling machines.
6. Tapping machines.
7. Others.

16. Welding and Gas Cutting Machines

1. A. C. Transformer welding machines of all types.
2. Automatic arc welding machines.
3. D. C. Generators welding machines of all types.
4. Resistance welding machines including butt, spot and seam welding patterns.
5. Gas cutting and profiling machines.
6. Gas cutting and welding torches.
7. Acetylene generators.
8. Others.

17. Wood Working Machines



1. Circular saw benches.
2. Band sawing machines.
3. Mortising machines.
4. Planing and moulding machines.
5. Sanding machines.
6. Others.

18. Miscellaneous Machines

1. Bolt, nut and rivet making machines.
2. Centring machines.
3. Centrifugal casting machines.
4. Die casting machines.
5. Dividing and graduating machines.
6. Etching machines.
7. Filing and sawing machines.
8. Heading machines.
9. Metal spraying machines.
10. Pipe bending machines.
11. Polishing machines.
12. Sand and shot blast plant.
13. Rolling mills.
14. Reeling machines.
15. Wire drawing machines.
16. Testing machines of all types.
17. Tool tipping machines.
18. Tube making machines for rolling mill plant.
19. Rivetting machines.
20. Magnetic separators.
21. Injection moulding machines (plastic) and moulds therefor.
22. Portable, Pneumatic and electric drilling, polishing and grinding machines.
23. Others.

19. Machine Tool Accessories

1. Lathe chucks.
2. Magnetic chucks.
3. Drill chucks.
4. Dividing heads.
5. Vices, machine.



The text of MACHINES is scanned from *Import Trade Control: Policy for the Licensing Period January-June 1953*, published by Government of India, Ministry of Commerce and Industry.

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