

ECO-FRIENDLY WIRE ROD PREPARATION SYSTEM / INLINE WIRE ROD PREPARATION SYSTEM

Our system enables preparation of wire rod without using acid. This high efficiency system is specially designed to operate in line with the drawing machine and consists of following equipments:

- Mechanical Descaler / Scale Breaker
- Sanding belt Descaler - Single head / Double head
- Wire brushing unit
- Rinsing, pre-coating / borax coating and drying unit
- Electro pickling and Electro phosphating



OTHER PRODUCTS

Pay-offs for wire drawing machine

Spool Tilters

High Speed Rewinding Machines

Braiding machines

Inverted vertical coiler machine

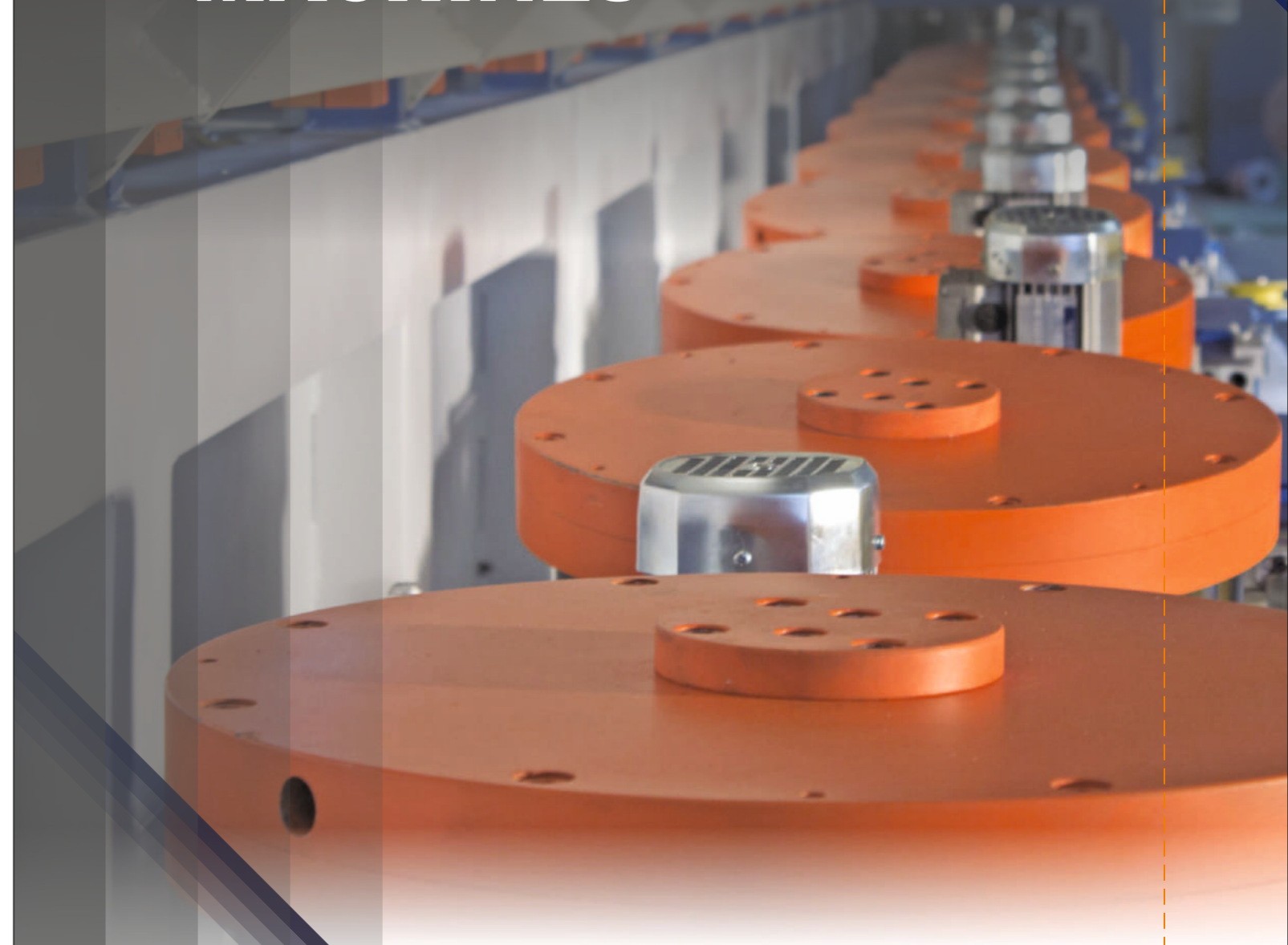


SwarajTM
TECHNOCRAFTS

Swaraj Technocrafts Ltd.

Plot - 40 & 26 A - C, Sector-II, Pithampur, District - Dhar, (M.P.), India - 454775
Tel. : (+91) 7292 - 407213, 407304 | E-mail : info@swarajtechnocrafts.com
Website : www.swarajtechnocrafts.com

LEADING MANUFACTURER OF WIRE PROCESSING MACHINES



SwarajTM
TECHNOCRAFTS

“Built like a tank...
...runs like a Race Car”



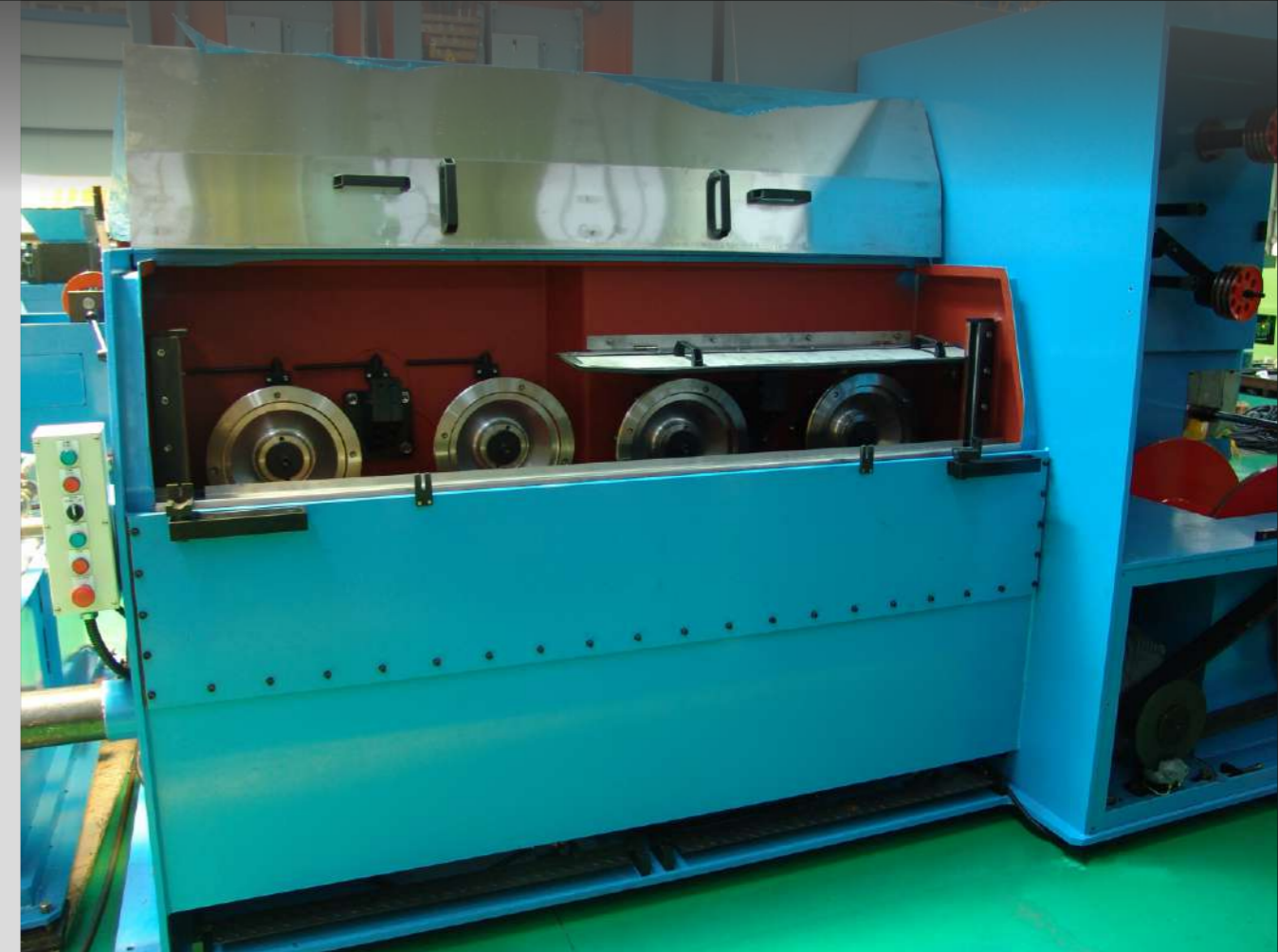
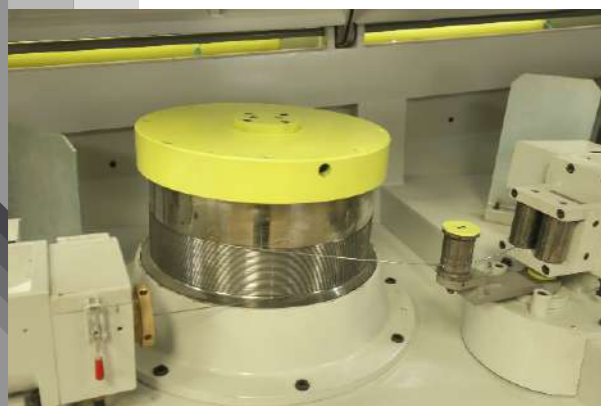
DRY WIRE DRAWING MACHINES

FOR CARBON STEEL AND STAINLESS STEEL WIRES

- Maximum speed: up to 35m/sec
- Block size: as small as 150mm to as big as 1200mm.
- Customized machine design, depending of wire material to be drawn.
- Drawing blocks are made up of special alloy steel, induction hardened and tungsten carbide coated.
- Special rust preventive coating on internal surface of the block.
- Excellent block cooling with self-cleaning technique provide consistent cooling, even at high speeds.
- Specialized die box with optimum die cooling. Easy and quick change over of dies.
- Adjustable for fine setting of cast & helix.
- Soap box with motorized stirrers for periodic mixing of soap to avoid lump formation in dry lubricant
- Use of latest technology, electric motors and automation products such as variable frequency drives, PLC & HMI.
- Use of high efficiency helical gearboxes.
- Lower power consumption due to customized machine kinematics and use of modern drive technology.
- Pneumatic, efficient braking at high speeds.
- Easy & Operator friendly interface for all machine operation.
- Low and easy maintenance. Easy troubleshooting. Low noise level.

Optional Features: -

- Automatic die schedule calculation.
- Eco-logical guards. Provision for connecting vacuum suction system.
- Interface for data acquisition.
- Remote connection through modem for online trouble shooting.
- IOT Solutions.



WET DRAWING MACHINES

Our wet wire drawing machines are designed to meet the stringent demands of modern wire manufacturers, delivering consistent surface finish, accurate wire dimensions, and superior mechanical performance. These machines are ideal for processing high carbon steel, stainless steel, galvanized wire etc.

Key Features: -

- Machines up to 25 drawing dies.
- High-pressure die lubrication for enhanced cooling and extended die life.
- Water-cooled haul-off capstan and final die to ensure temperature stability and consistent wire quality.
- TC-coated alloy steel cones, for longer cone life.
- Integrated electrical cabinet with optional PLC-based supervision system.
- Lube level sensors and temperature controls to maintain optimal working conditions.
- Adjustable die holder arms for easy setup and alignment.
- Low-noise operation for a comfortable working environment.
- Easy maintenance with quick-change cone assemblies and centralized grease lubrication.





INVERTED VERTICAL DRAWING MACHINE (IVD) FOR CARBON STEEL WIRES



Our Inverted Drawing Machines are built to handle heavy and large-diameter wire coils. They are especially effective in high-carbon, alloy steel, or stainless-steel wire processing where high pulling force and vertical coiling are needed.

Key Features: -

- Suitable for wire from 6 mm to 40 mm inlet diameter.
- Capstan diameter 600mm to 1200mm.
- Capable of drawing ribbed or plain wire.
- Motorized pattern laying system for heavy laid coils.
- Option of using double pattern laying trolley.
- Option for motorized trolley shifting for easy and quick changeover.
- Easy die changing.
- Continuous operation with floor-level loading.



WIRE ROPE MACHINERY

STRANDING MACHINES
CLOSING MACHINES
BUNCHING MACHINES



Our comprehensive line of Wire Rope Machinery includes Planetary and Tubular Stranding and Closing Machines, ideal for producing high-performance ropes with tight strand formation, strength, and flexibility.

- Planetary / Tubular machines
- Modular cage construction for production flexibility.
- Precision back-twist and tension control.
- Precision lay control.
- Use of heavy duty and precision bearings.
- Machine available with encircled and under roller options.
- Sound proof protection guards.



WIRE SURFACE TREATMENT LINES

FOR CARBON STEEL WIRES

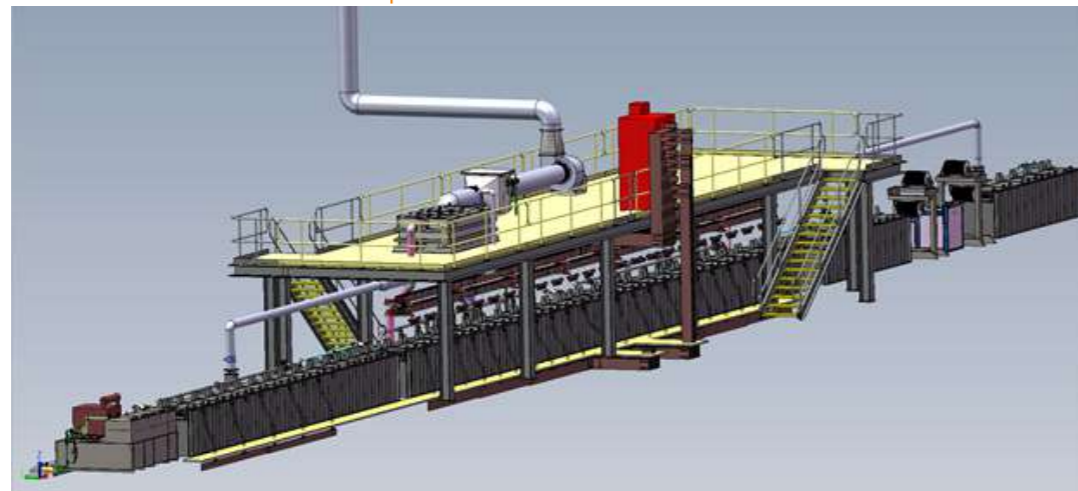
GALVANIZING, ANNEALING & PATENTING LINE

Electro Galvanizing
Green Galvanizing
Annealing & Patenting

Single and multi-strand high speed automated system for heat treating, cleaning, pickling, plating and coating of non-ferrous rod and wire, using industry-leading technologies.

Key features: -

- Advance process design for flexibility in product speeds, diameter ranges, and coating weights.
- Electrolytic chemical, and hot-dip coating systems.
- Integrated systems in conjunction with heat treatment and mechanical equipment suppliers.
- Environment friendly processes.
- Waste treatment and regeneration systems.



COILING & SPOOLING

FOR WIRE DRAWING MACHINES



Spooler (Horizontal/Vertical)

- Option for using multiple spool sizes.
- Hydraulic or pneumatically operated spool lifting / lowering and spool locking system.
- Use of pneumatic disc brakes.
- Efficient braking at high speeds.



Dead Block Coiler (Drawing / Non-drawing)

- Well-designed coiling nose for easy slippage of wire at higher speeds.
- Specialized straightener roller sets for better setting of cast and helix.
- Accurate weight measurement system.
- Option for using pattern laying arrangement / rosette type wire laying.
- Option for block and die cooling.
- Coil Elevator for speciality wire.

FOR PROCESS LINE



- Horizontal or vertical axis pay-off for smooth feeding of wire to galvanizing line.
- Take-up: Vertical drop coilers – Stationary and Rotating capstan .
- Horizontal spool take-ups.
- Motorized pattern laying/rosette type coil collecting arrangement on vertical take-ups.
- Accumulator system on pay-offs and take-ups for non-stop operation.

