



# PRITI INTERNATIONAL

*Total Commitment to Quality*

AN ISO 9001:2015 & 14001:2015 CERTIFIED ORGANISATION  
MANUFACTURER & TURNKEY PROJECT CONSULTANT



[www.pritiinternational.in](http://www.pritiinternational.in)





## Company Profile

**PRITI INTERNATIONAL** A Kolkata, India based Company having an internationally quality control certification under **ISO 9001:2015 & 14001:2015** engaged in Turnkey Solution for PVC, RPVC, HDPE, SWR, CONDUIT, GARDEN PIPE & PROFILE Extruder of Single & Double / Twin Screw Plant with latest and improved flexibility accuracy and Operator friendliness compromising the quality and productivity.

**PRITI INTERNATIONAL** always keep their eyes open in quality with advance technology, precise, durable, consistent and energy efficiency high output to get long life of the machine.

## Our Mission

We are driven to find a better way to provide growth opportunities to our company by the prompt after sales and services to our end customers in India and abroad by our efficient technicians to run the plant smoothly. Our success is based on our Customers satisfaction.

We are known for our professionalism, business ethics, superior technology, quality, reliability and commitment to our quality and after sales service.



**Screw Barrel**



## FEATURES

- Latest generation Machine with High Performance.
- Low power consumption and energy saving with Heavy output.
- Achieve uniform pumping.
- Two Piece Barrel Design for Low Maintenance.
- Front Side S.S Sleeve for Easy Screw Barrel Maintenance.
- Tungsten Coating for Wear & Tear.
- Internal Oil Circulation with Cooling System for Gear Box.
- Synchronization of drive of Extruder with Feeder and Traction Unit to reduce wastage and Fast Production.
- S.S -304 Vertical feeder for easy operation of different bulk density of materials.
- Gentle plasticizing, great melt quality with Material Mixing Formulation.
- PID Control type Temperature Controllers Processor friendly.
- Raw-materials & brought out items from the world-class quality makers.



## ADVANTAGES

- Maintenance-free screw cooling system.
- Efficient barrel cooling system.
- AC motors with optimal degree of efficiency.
- Custom-made anti-wear protection made of tungsten carbide and chrome combined with top-quality nitride surfaces.
- Output ranges maximized through optimized screw geometries.
- Special power saving system with details.
- Easy handling through intelligent machine design. Easy and Extra Power Saving Systems.
- PLC controls on request.
- 10% to 15% Heating Power Saving Systems in PLC Base Control.
- Including Thick Thin Device for Casing and Column Pipe.
- High Alert System for Heating Tripping and Motors Tripping. Easy Operating System.

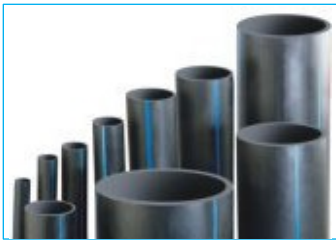
## SAFETY FEATURES

- Cold by pass for screw barrel safety.
- Zero start system.
- Easy plug & play systems.
- All standard controllers.



## PRODUCT RANGE

Model	PI 110	PI 170	PI 200	PI 250	PI 350	PI 450	PI 550	PI 700
Screw Dia (mm)	52	52	65	65	70	90	90	91
Screw Speed	5-50	4-45	5-53	5-53	5-53	4-40	4-40	4-40
L.D. Ratio	18:1	18:1	18:1	22:1	28:1	22:1	25:1	28:1
Main Motor (kW)	15	20	22.5	22	30	45	56	75
Output ( Kg/Hour)	90-100	150-170	180-200	230-250	330-350	420-450	520-550	650-700
Pipe Range (mm)	16-110mm	16-200mm	20-200mm	63-250mm	63-350mm	110-	110-400mm	110-400mm



Priti International Single Screw Extruders/High Speed Series (HDPE/PPR) are offered for extrusion of polyolefin (HDPE, HDPE PLB Ducting, PP, PPR & LDPE, LDPE) Pipes. The extruders with screw diameters 25mm to 120 mm are available for output range 5 Kg./Hour to 1500 Kg/Hour. The Next Generation Extruders with a combination of Barrier Screw and grooved feed bush results into higher output rates, homogeneous plasticizing and less material slippage.

## ADVANTAGES

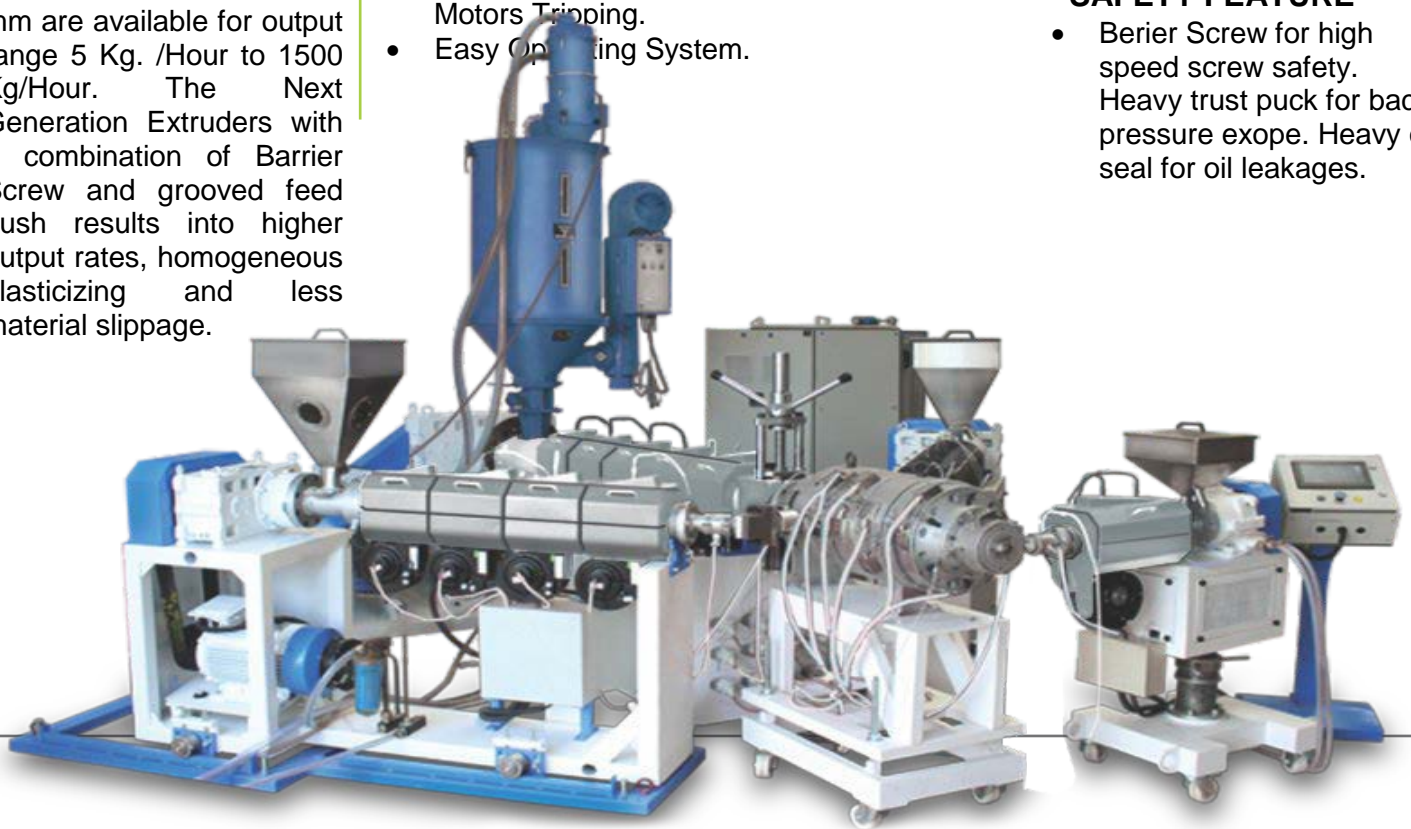
- Higher output rates.
- High Speed Models for Reduced power consumption.
- Wider range of processing applications due to longer LD ratio.
- Superior physical properties of end product.
- High Power Savings Systems with New Generation Machinery.
- PLC controls on request.
- 10% to 15% Heating Power Saving Systems in PLC Base Control Including Thick Thin Device for Casing and Column Pipe.
- High Alert System for Heating Tripping and Motors Tripping.
- Easy Operating System.

## BARRIER SCREW

- It allows high homogenous- plasticizing less material- slippage and higher output.
- Grooved Feed System.
- Higher productivity compared to- conventional design.
- Improved material conveying capacity. Uniform throughout and melt temperature. Pressure invariance.

## SAFETY FEATURE

- Berier Screw for high speed screw safety. Heavy trust puck for back pressure exope. Heavy oil seal for oil leakages.



## PRODUCT RANGE

Model	PI 25	PI 40	PI 50	PI 65	PI 75	PI 90	PI 110
Screw Dia (mm)	25	40	50	65	75	90	110
Extruder Drive	3.7	7.5	15	30	37.5	60	110
L.D. Ratio	24:1	24:1	24:1	24:1	24:1	24:1	24:1
Output (Kg/Hour)	10-20	30-35	35-40	90-100	120-130	170-190	300-320

## PRODUCT RANGE

Model	High Speed 45-45	High Speed 45-55	High Speed 45-75	High Speed 45-90	High Speed 60-110	High Speed 60-170	High Speed 75-200	High Speed 75-250
Screw Diameter	45	45	45	45	60	60	75	75
L.D. Ratio	37:1	37:1	37:1	37:1	37:1	37:1	37:1	37:1
Main Motor (kW)	45	55	75	90	110	170	200	250
Output (Kg/Hour)	140-160	180-190	220-240	300-330	380-400	500-550	650-700	800-850

## DIE HEADS

- PVC pipe head and HDPE Pipe head, enables flexible and effective production of High Quality PVC pipes.
- All pipe heads excellent advantages such as high and disassembly;
- Spider Dies, right up to 630mm die with single and dual.
- High Diamond Chrome Platings.
- Spider and Spiral Make S.S with Harding as per apply.

## ADVANTAGES

- High Volume low pressure design.
- Uniform melt distribution throughout the entire pipe circumference.
- Twin die heads for higher outputs in smaller size of pipes.
- Dual die with dual downstream for pipe size 20-110 mm, 63-200 mm.
- Extruder utilization from 30% to 100% in larger dia of pipes.



## PVC PIPE DIE HEAD SPECIFICATIONS

Model	PI-63	PI-110	PI-200	PI-250	PI-350	PI-450
Pipe Range (mm)	20-63	20-110	63-200	90-250	110-350	160-400
Output Capacity up to	100	200	250	350	450	650
Pipe Wall Thickness (mm)	08 - 2.0	1.0 - 5.0	2.5 - 6.0	2.5 - 12.0	2.5 - 12.0	3.0 - 16.0

## HDPE PIPE DIE HEAD SPECIFICATIONS

Model	PI-50	PI-110	PI-170	PI-250	PI-450
Pipe Range (mm)	12-50	20-110	20-160	63-250	90-450
Output Capacity up to	200	300	450	700	800

## VACUUM SIZING TANK

- Material Intensive cooling provided to ensure high production ratio.
- Easy cleaning bayonet type spray nozzle provided.
- Accurate vacuum control, water level control & temperature control provided.
- Additional vacuum chamber and motorized axial movement.
- Provided from PIVST and above for quick start up and less wastage.
- Manual slide rail arrangement for Axial of the tank.
- Dual vacuum spray tanks on common frame for dual pipe extrusion line.
- Imported filters for online cleaning.
- Electrical operated valves optionally.
- Cyclone separator for vacuum pump optionally.

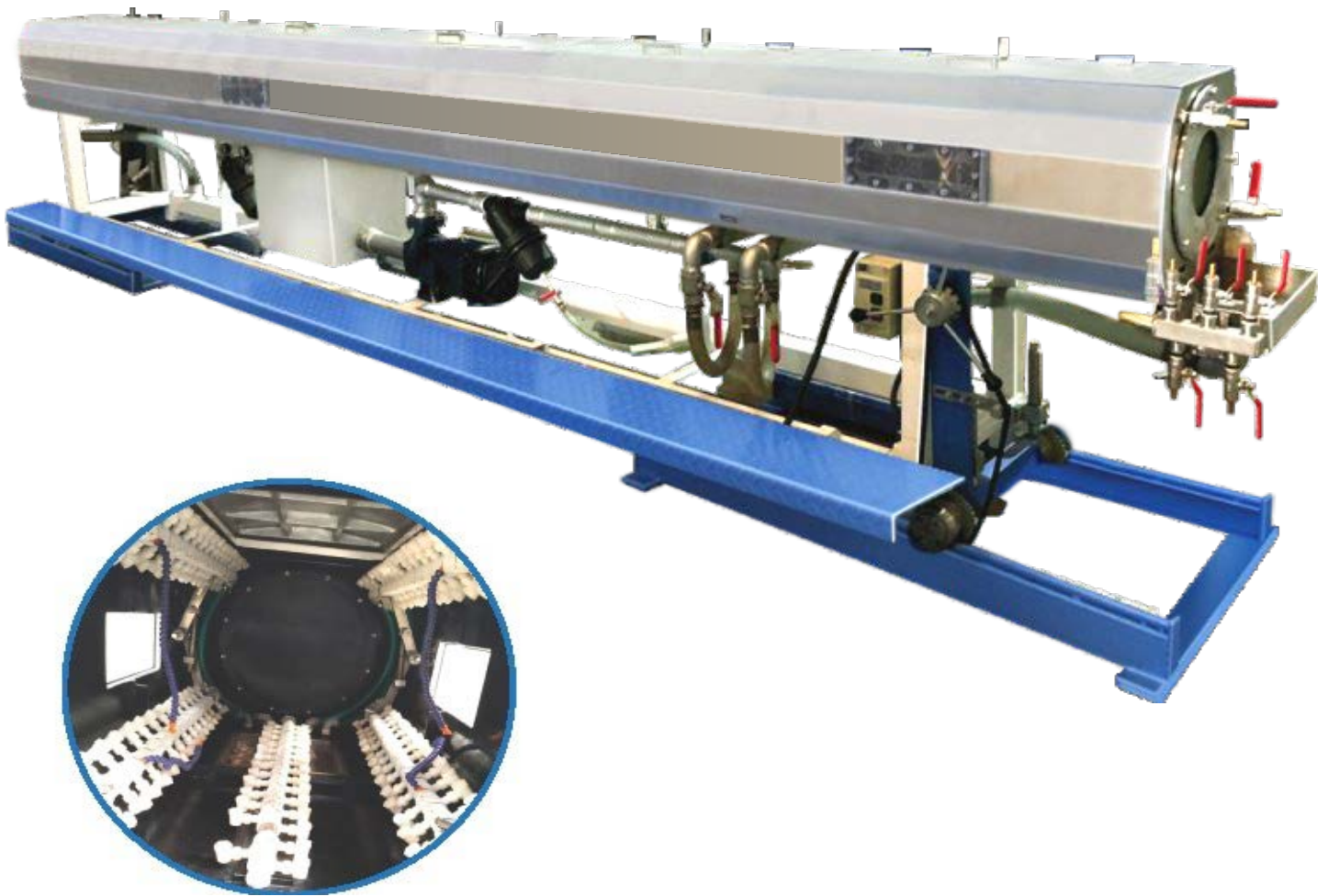


### VACCUM SIZING TANK

Models	PIVST 110	PIVST 200	PIVST 250	PIVST 350	PIVST 450	PIVST 700
Pipe Range (mm)	16-110	20-200	25-250	75-315	75-450	110-630
Length of Tank (mm)	4000/6000	4000/6000	4000/6000	6000/8000	6000/8000	6000/8000
No of Chambers	1	1	2/1	2/1	2/1	2/1

## TUBE COOLING TANK

- Tank MOC Mild steel or SS 304 As per requirement.
- Easy cleanable bayonet type spray nozzles.
- Manual /motorized longitudinal adjustment on rail.
- Special type of filter for cleaning during operation.
- Height adjustable manually.
- Fixed structure provided in Extra Cooling Tank.
- Special design in ACRYLIC door for easy pipe operating as per application.



## TUBE COOLING TANK

Models	PITCT 110	PITCT 200	PITCT 250	PITCT 350	PITCT 450	PITCT 700
Pipe Range(mm)	20-110	20-200	20-250	75-315	100-450	110-630
Length of Tank(mm)	4000/6000	4000/6000	4000-6000	4000/6000	4000/6000	4000/6000
No of Chambers	1	1	1	1	1	1

## FEATURES

- Up to 6 belt tracking device to suit pipe diameters.
- Different line speeds can be changed through.
- Individual Gear Box System with Servo Drive and Motor.
- Track adjustment by pneumatic control and Manual Control.
- Self-adjustment track suspension provided with Pneumatic System.
- Counter balance pressure to balance.
- Track weight for thin pipes offered.
- Encoder for length measurement & feedback arrangement offered optionally.
- Easy accessibility for maintenance of all components.
- Dual twin-track traction units for dual pipe extrusion line.
- Easily removable rubber pads / Molded Rubber Chain.





**TUBE CUTTING UNITS (TCU)**

- Carbide tipped rotating circular saw for longer life
- Pneumatically operated carriage movement
- Clamping force adjustable depending upon the wall-thickness of the pipe
- Swarf removal system optionally offered



**PLANETARY CUTTING UNIT (PCU)**

Model	PIPCU 250	PIPCU 450
Pipe Range (mm)	50-250	75-400
Cutting Speed (Max.)	10	7
Jaw For Clamping	4	6
Clamping From	-	Universal

**TUBE CUTTING UNIT (TCU)**

Model	PITCU 110	PITCU 200	PITCU 250	PITCU 350
Pipe Range (mm)	20-110	20-200	63-250	90-315
Cutting Speed (Max.)	15	10	10	6
Clamping From	Top	Top	Side	Side

### PIPE TILTING UNIT

- Pneumatically operated Unit.
- Structure MOC Square hollow section.
- Two limit switch actuation - One for pipe cutter-feedback and other for tilting the pipe.
- Pipe resting platform provided for above 250mm Dia Pipe.



## PVC / HDPE ROLLER PRINTER

### FEATURES

- These machines are extensively used for printing purposes while extrusion.
- The product has been designed to deliver high performance and has also been tested to provide a better service
- Accurate printing Colour
- Long lasting printing
- Easy to handle machine



## SPIRAL SPRING CONVEYOR

- The hopper loader are used for conveying powder to main hopper of Extruder with length of 6 to 12 meter.
- Machine of clear construction with easy access for operation and maintenance.
- Material Flow through Flexible HDPE Pipe and spring made from Special Spring Steel Material.
- Our All Spring Hopper Loader is equipped with Vibrating Fork in place of Rubber Diaphragm /Proximity.
- This Vibrating for maintenance free and proven the best as level switch for all Material application.
- Vibrating Screen with Vibrator Motor is on the top of Main Inlet Hopper.
- Starter is provided for Vibratory Motor.
- All Electrical parts are standard make like BCH, L&T, Schneider electric.
- Timer to adjust delay time for material flow.
- Manual or automatic operation option.
- Various sizes like 12/10 /8/6 meter are available as per customer requirement.
- All the paint is Powder coated for better life of Unit.
- Operating Manual for Hopper Loader, Electrical Circuit Diagram, and Operating Manual for Vibrating Fork is standard supply with Hopper Loader



### HOPPER LOADER

Model	Conveying tube in mm	Minimum radius in mm	Motor	Maximum output (dependent on material and bulk density)
PIHL30	40	1500	0.37-1.1	0.3m <sup>3</sup> /h
PIHL40	50	1500	1.1-1.5	0.6m <sup>3</sup> /h
PIHL50	63	1800	1.5-2.2	2.5m <sup>3</sup> /h
PIHL70	75	2300	2.2-3.7	5.0m <sup>3</sup> /h
PIHL80	90	2500	3.7-5.5	8.0m <sup>3</sup> /h
PIHL100	110	3500	5.5-7.5 KW	15m <sup>3</sup> /h

## MATERIAL DETAILS FOR RPVC/UPVC/AGRICULTURE PIPE

- Poly vinayle Chloride Powder - PVC
- Calcium Carbonate Powder – CACO3
- One Pack – Anti Burning
- Steric Acid – Hardening
- PE Wax – Flowing
- Titanium - Shining
- Impact Modify - Whiteness
- CPE Material - Melting
- Caron for Grey Pipe



## HIGH SPEED HEATER COOLER MIXER

Sr. No.	Model	Batch Capacity (In Kgs.)	Main Drive
01	PI 90	40	15
02	PI 110	45	22.5
03	PI 200	45	22.5
04	PI 350	65	37
05	PI 450	90	45
06	PI 700	120	75

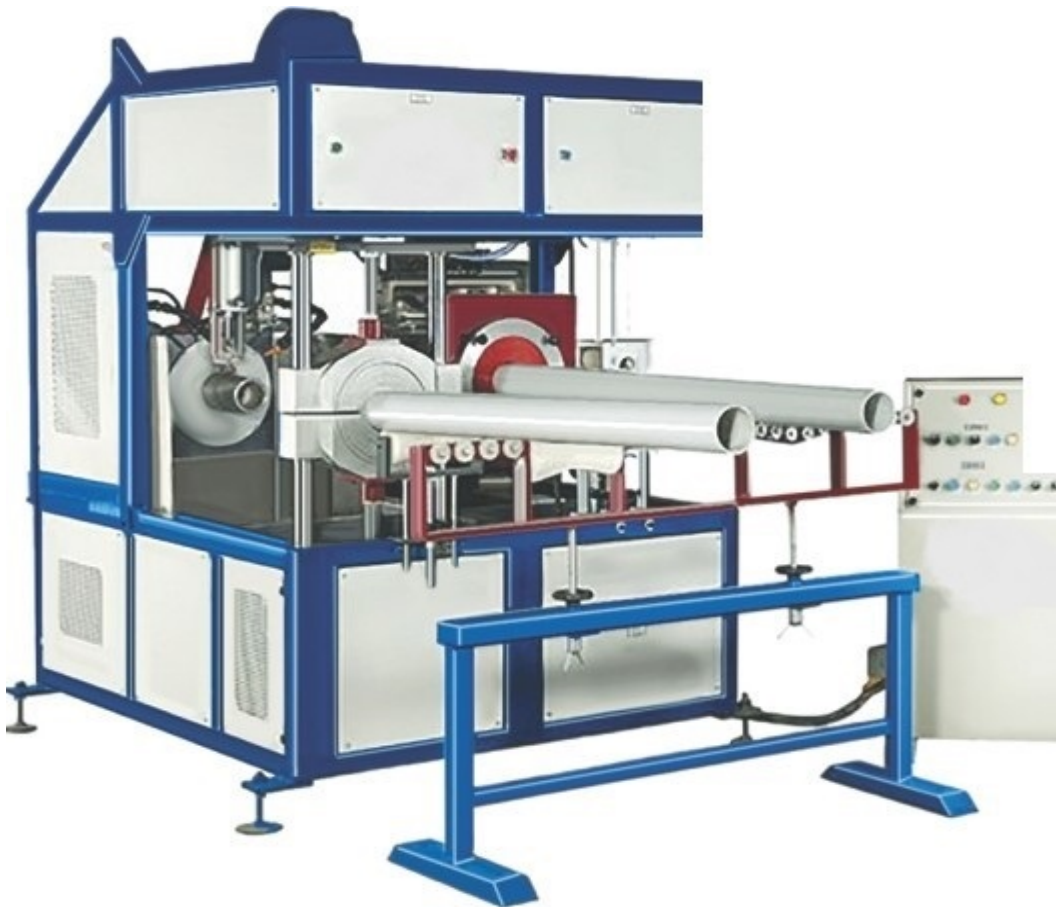
## TUBE / PIPE SOCKETING MACHINE

### PLAIN SOCKETING MACHINE

- Machine are mild steel.
- Gular pain material Aluminium/MS with hardchrom platinum/Hard CI casting with hardchrom platinum.
- Auto pipe cooling system are make Janatics and Space.
- Manual controlling panel.
- Auto with control system.
- Manual pipe injects system with cylinder.
- Infrared heater for heating system.
- Pipe guide stand with roller.



## TUBE / PIPE (SWR) SOCKETING MACHINE



### FEATURES

- Manual pipe injects system with cylinder.
- Heavy output with low power consumption.
- Microprocessor based control system.
- Easy to operate.
- Less manpower requirements.
- Grinding disc of special materials for longer life.
- Better fine materials according to application of plasticizing.
- Compact design and minimum space utilization.

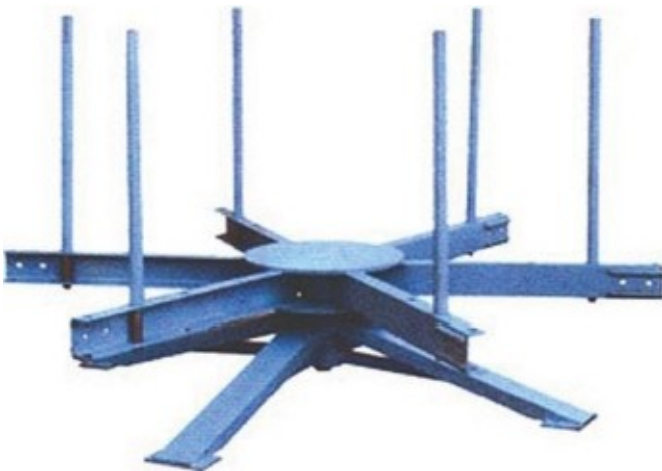
## PVC / HDPE GRINDER

### GRINDER

- Body farms material mild steel with 4 mm to 6 mm thickness.
- Motor system with starter operating.
- Blade material EN9 or EN41 with hardening and hard chrome plating.
- Grinder design with 9 blade system storage box for material storage.



## TUBE / PIPE COILER



### COILER

- Body material Mild Steel.
- In auto coiler motor system with AC drive for auto coil.
- Pipe size support 20mm to 110mm.
- Manual packing systems.

## Manufacturer and Turnkey Project Consultant of

- RPVC / PVC Pipe Plant
- HDPE & GARDEN Pipe Plant
- LLDPE Water storage tank project
- Packaged Drinking Water Plant
- Mineral Water Plant
- R.O., ETP, STP & DM Plant
- Cold Storage Project
- Fruit Juice Plant/ RTS Beverage /Synthetic Juice Plant
- PET BOTTLE Blowing Machine
- JAR Blowing Machine
- PET Bottle Rinsing, Filling & Capping Machine
- BOPP Labelling Machine
- PET Preform & Cap manufacturing Project
- PET & Plastic Recycling Plant
- Injection Moulding Machine
- Soda Water/Carbonated Drinks Plant
- Corrugated Carton Manufacturing Plant
- Biscuit & Bakery Plant
- Poultry & Cattle feed mill Project
- Shrink Wrapping Machine
- Spices Project
- Snacks Project

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