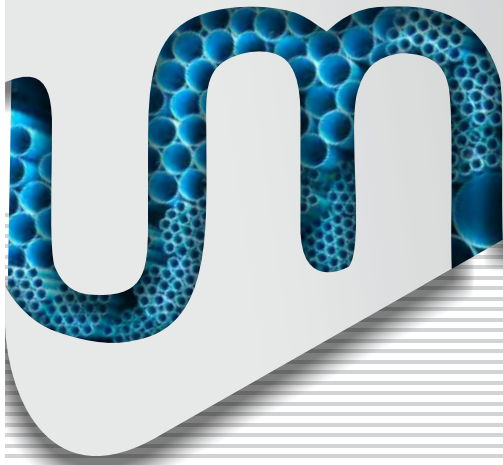


Perfection to Unique Standard



Unique
MACHINARY
Perfection to Unique Standard



Company Profile



Unique Machinery Have Been Manufacturing Extrusion Lines Which are Used For the Production of Plastic Pipes. Unique Machinery has been offering its Productive, High Quality and Secure Turn-Key Project By Using the Latest Technology with Optimum Cost to Its Customers.

Unique Machineries has been Exporting its PP/PE/PVC/ Corrugated and Different Types of Line too Many Countries. The Team Members of Our Company Have Been Continuously Increasing Their Knowledge By Giving Importance to Innovating Technologies.



Our Mission

Based on our missionary values, we are dedicated to provide unsurpassed range of engineering products like PVC, HDPE, Corrugator Pipe, Extrusion Lines. This assists our customers in getting a wide range of sophisticated solutions of varied critical performance regarding their production activities. These products also aide them to integrate the product's functionality in an efficient manner.



Screw Barrel



Inspur, your most reliable partner



PERFORMANCE 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 H.S.S Sleeve for Easy Screw Barrel Maintenance.
- Tungsten Coating for Wear & Tear.
- Internal & External Oil Cooling System for Main 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 aclaption of different bulk density of materials.
- Gentle plasticizing, great melt quality with Material Mixing Formulation.
- Raw-materials & brought out items from the world-class quality makers.



UNIQUE ADVANTAGES

- 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 Bese Controll.
- 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	UTS 110	UTS 170	UTS 200	UTS 250	UTS 350	UTS 450	UTS 550	UTS 700
Screw Dia (mm)	52	65	65	65	70	90	90	91
Screw Speed (RPM)	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)	11	15	22	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 - 400mm	110 - 400mm	110 - 400mm

* Performance varies depending on pipe dimensions and type of material.



UNIQUE Single Screw Extruders /High Speed Series (HDPE/PPR) are offered for extrusion of polyolefin (HDPE, HDPE PLB Ducting, PP, PP-R & LLDPE, 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.

UNIQUE ADVANTAGES

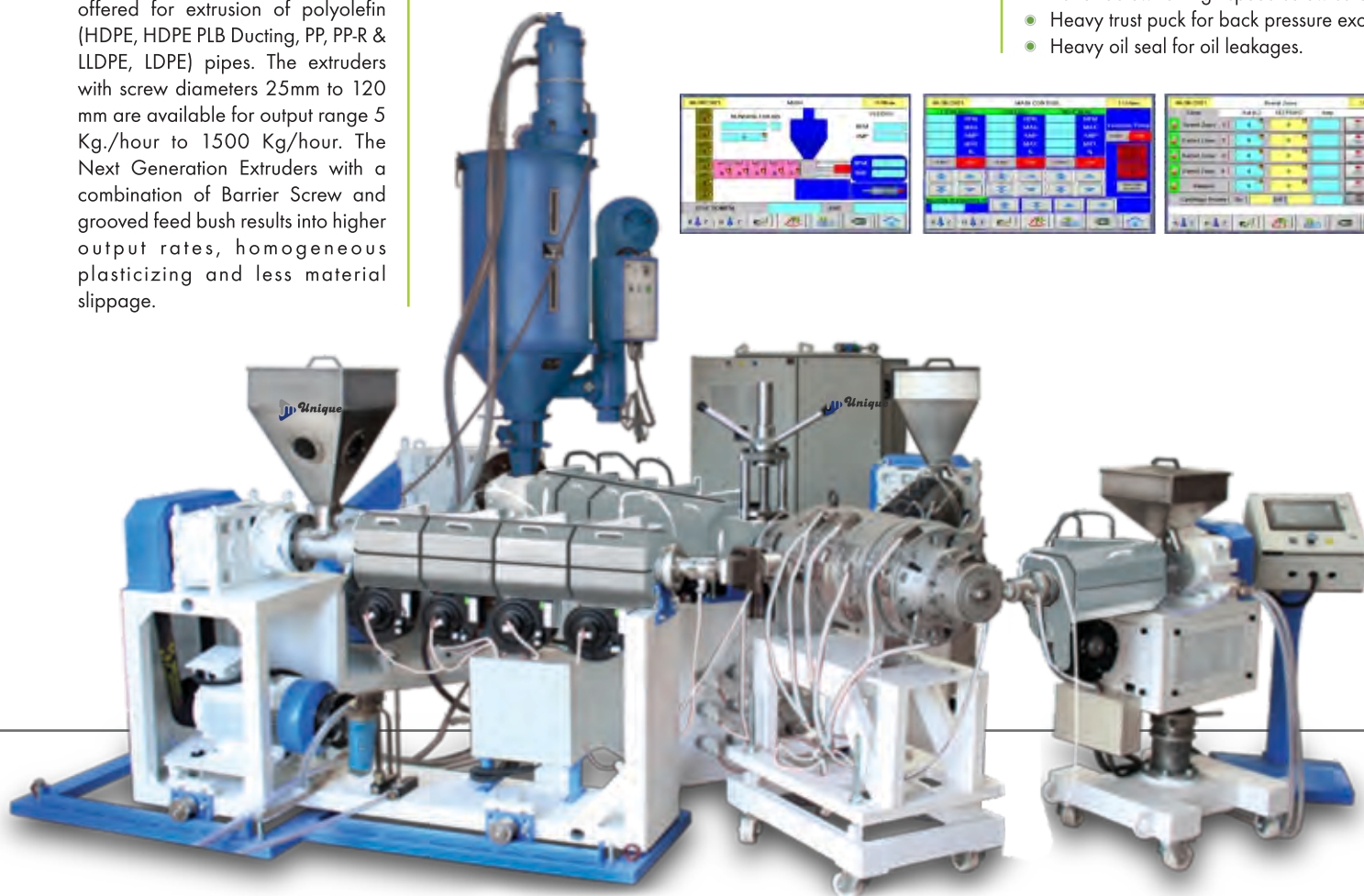
- Higher output rates.
- High Speed Models for Reduced power consumption.
- Wider range of processing applications due to longer LD ratio.
- Superior physical properties of end product.
- High Power Savings Systems with New Generation Machinery.
- PLC controls on request.
- 10% to 15% Heating Power Saving Systems In PLC Base Control.
- 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	US 25*	US 40	US 50	US 65	US 75	US 90	US 120
Extruder Drive (kW)	3.7	7.5	15	30	37.5	60	110
Screw Dia (mm)	25	40	50	65	75	90	120
L.D. Ratio	24:1	26:1	26:1	26:1	26:1	26:1	26:1
Output (Kg/Hour)	45	18-20	36-40	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 60-132	High Speed 75-200	High Speed 75-250
Screw Diameter (mm)	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	132	200	250
Output (Kg/Hour)	140-160	180-190	220-240	300-330	380-400	500-550	650-700	800-850
Pipe Range (mm)	20 - 110mm	20 - 200mm	20 - 200mm	63 - 315mm	63 - 315mm	63 - 400mm	110 - 400mm	110 - 630mm

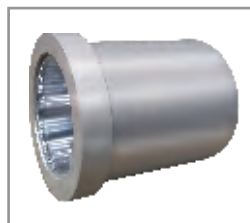


DIE HEADS

- Unique PVC pipe head and HDPE Pipe head, enables flexible and effective production of High-Quality PVC pipes.
- All pipe heads from Unique char excellent advantages such as high and disassembly; they produce pipes of excellent quality in a broad processing.
- Unique provides Spider Dies, right up to 630mm die with Single and Dual.
- High Diamond Chrome Platings.
- Spider and Spiral Make S.S - 420 with Harding. as per apply.

UNIQUE ADVANTAGES

- High Volume low pressure design.
- Uniform melt distribution through out 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 S, 63-200 mm.
- Extruder utilization from 30%to 100% in larger dia of pipes.



PVC PIPE DIE HEAD SPECIFICATIONS

Model	P-63	P-110	P-200/LV	P-200/HV	P-250	P-315	P-400
Pipe Range	16-63mm	20-110mm	63-200mm	63-200mm	90-250mm	110-315mm	110-400mm

HDPE PIPE DIE HEAD SPECIFICATIONS

Model	SM-75	SM-110	SM-160	SM-200	SM-250	SM-450
Pipe Range	16-75mm	20-110mm	20-160mm	125-200mm	63-250mm	90-450mm



VACUUM SIZING TANK

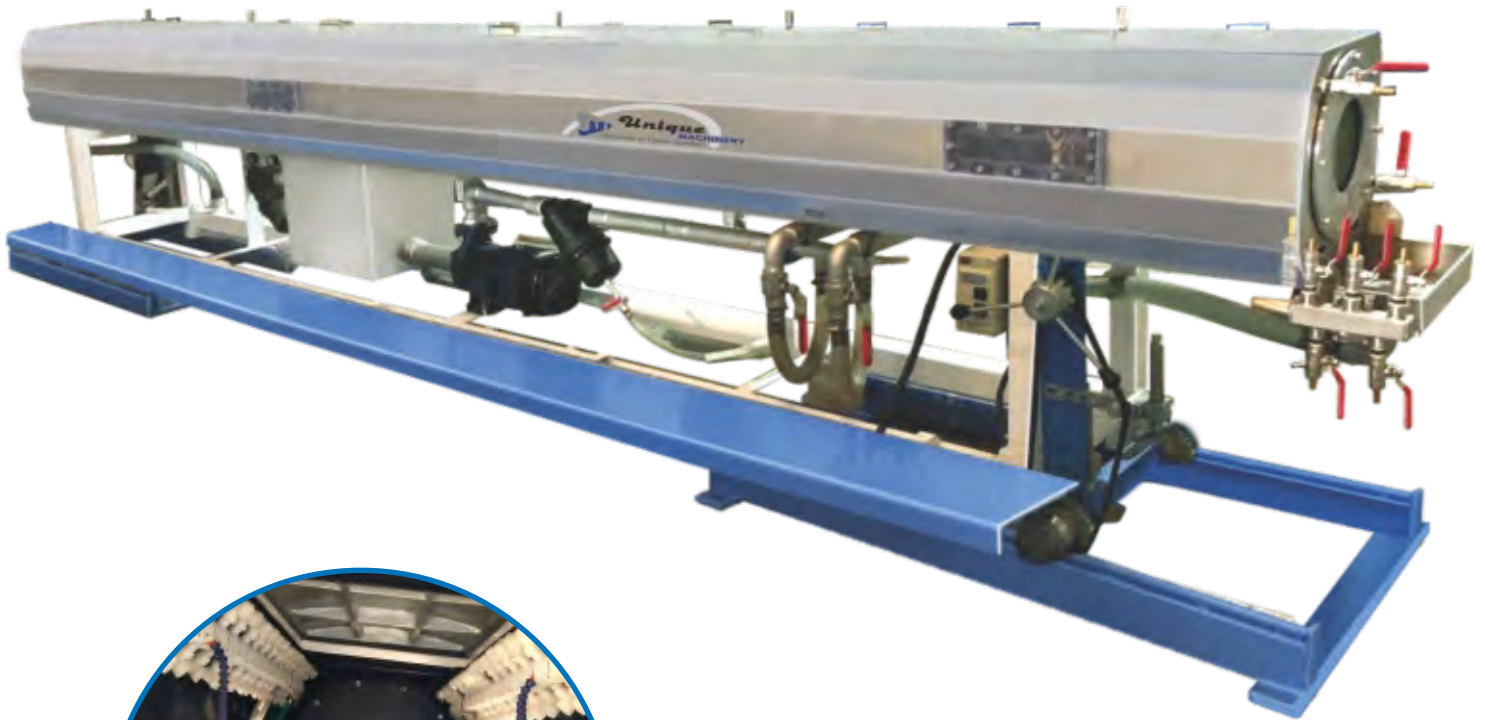
- Material Intensive cooling provided to ensure high production ratio.
- Easy cleaning bayonet type spray nozzle provided.
- Accurate vacuum control, water level control & temperature control provided.
- Additional vacuum chamber and motorized axial movement.
- Provided from UVST and above for quick startup and less wastage.
- Manual slide rail arrangement for Axial and transverse movement 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	Unit	UVST 110	UVST 200	UVST 250	UVST 315	UVST 450	UVST 630
Pipe Range	mm	16-110	20-200	25-250	75-315	75-450	110-630
Length of Tank(mm)	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

Vacuum Sizing Tank - Unique Machinery ,manufacturers, exporters & suppliers of Vacuum Tank, Twin Vacuum Sizing Tank, Plastic Vacuum Sizing Tank in India.



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.

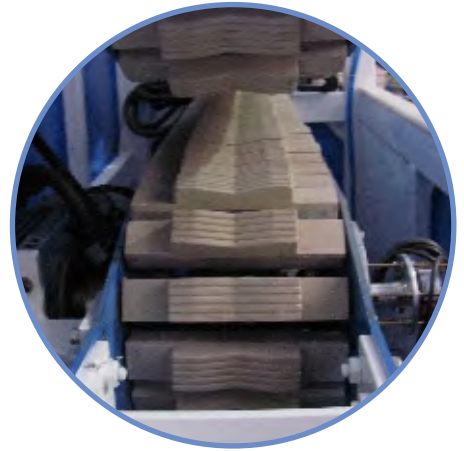
TUBE COOLING TANK

Models	UCT 110	UCT 200	UCT 250	UCT 315	UCT 450	UCT 630
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



Unique Offers Tube Traction Unit With Following Features :

- Up to 6 belt tracting 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 & feed back 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 and diamond blade 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.
- Nylon Wheel for Trolley Revers and Forward and Low Wear and Tear.
- High Alert in Air Low.



TUBE / PIPE TILTING UNITS



TUBE TILTING UNITS

- 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.



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.





Material details for RPVC/UPVC/Agriculture Pipe.

- Poly Vinayle Chloride Powder - PVC.
- Calcium Carbonate Powder - CaCO₃.
- One Pack - Anti Burning
- Starik Acid - Hardening
- PE Wax - Flowing
- Titanium - Shining
- Impact Modify - Whiteness
- CPE material - Melting
- Carbon for Gray Pipe

High Speed Heater Cooler Mixer

Sr. No.	Model	Batch Capacity (In Kgs.)	Main Drive SSHM (kW)	Main Drive in SSCM (kW)
1	SSHSM 50 - SSCM 150	15	7.5	1.5
2	SSHSM 130 - SSCM 400	40	15	3.7
3	SSHSM 130 - SSCM 400	40	18.5	3.7
4	SSHSM 200 - SSCM 400	65	30	3.7
5	SSHSM 200 - SSCM 400	65	37	3.7
6	SSHSM 250 - SSCM 600	90	37	5
7	SSHSM 250 - SSCM 600	90	45	5
8	SSHSM 350 - SSCM 1000	120	55	7.5
9	SSHSM 350 - SSCM 1000	120	75	7.5

TUBE / PIPE PLAIN SHOKETING MACHINE



- Machine are mild steel.
- Gular pin materials Aluminum/MS with hardchrom platinum/Hard CI casting with hardchrom platinum.
- Auto pipe cooling system with water Pump.
- All pneumatic system are make Janatics and Space.
- Manual controlling panel.
- Auto with control system.
- Manual pipe Injects systems with cylinder.
- Infrared heater for heating systems.
- Pipe guide Stand with roller.



TUBE / PIPE SWR SHOKETING MACHINE

- Machine are mild steel.
- Gular pin materials Aluminum/MS with hardchrom platinum/Hard CI casting with hardchrom platinum.
- Air cool system for pipe cooling.
- Manual pipe locking systems.
- All pneumatic system are make Janatics and Space.
- Manual controlling panel.
- Auto with control system.
- Manual pipe Injects systems with cylinder.
- Infrared heater for heating systems.
- Pipe guide Stand with roller.



SALIENT FEATURES

- Manual pipe Injects systems with cylinder.
- Heavy duty sturdier design.
- High output with low power consumption.
- Microprocessor based control system.
- Grinding disc of special materials for longer life.
- Easy to operate.
- Less manpower requirements.
- Better fine materials according to application of plasticizing.
- Easy to change vibro screen for various powder quality.
- Compact design and minimum space utilization.



APPLICATION

Unique Machine make pulverizer is designed for pulverizing of semi rigid, brittle and impact resistance materials where a powdered product is required. Granulated plastic materials are fed via vibratory feeder into the mill. High speed mill grinds the materials and suction system draw the materials from mill. With the help of proper metering and various screening system desired powder quality to be achieved. Coarse materials from the screen are re-entering into the mill via closed-loop system. Typical applications are the pulverizing of LDPE, LLDPE, RPVC, HDPE, UPVC, PC and various other plastics.



SALIENT FEATURES

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BETTER IN PULVERIZING TECHNOLOGY

Model	UM 60	UM 80	UM 100	UM 120	UM 150	UM 200	UM 300
Disc Diameter	300	300	300	400	400	600	600
Drive kW	11.5	15	22.5	30	37.5	56	75
Throughput in kg/hr.	60	80-90	100-120	140-160	170-200	250-300	350-450

Vacuum Sizing Tank - Unique Machinery ,manufacturers, exporters & suppliers of Vacuum Tank, Twin Vacuum Sizing Tank, Plastic Vacuum Sizing Tank in India.

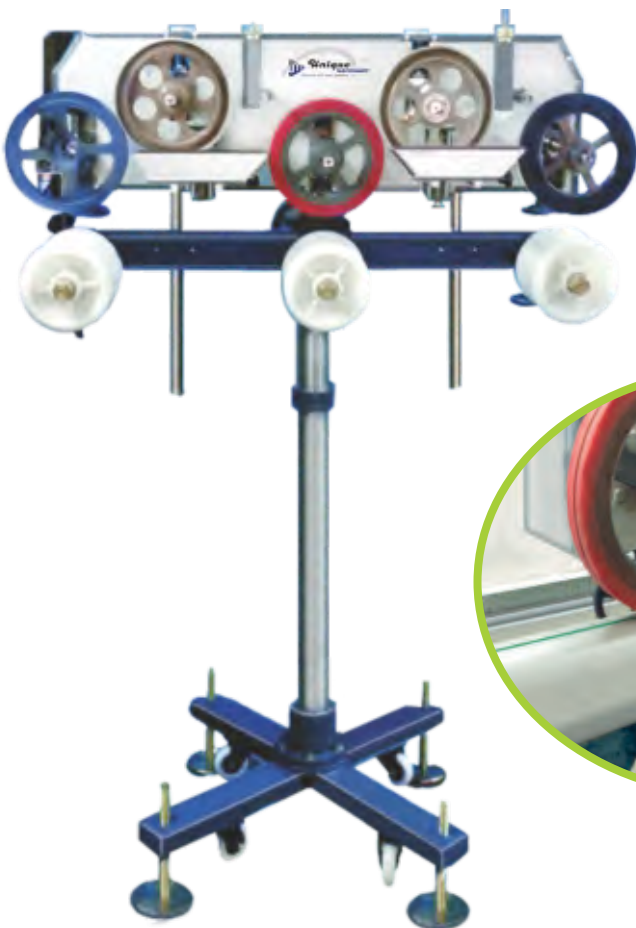


GRAINDER

- Body frame material mild steel with 4 mm to 6 mm thickness.
- Motor system with starter operating.
- Blade material EN9 or EN 41 with hardening and hard chrome plating.
- Grinder design with 9 blade system
- Storage box for material storage.



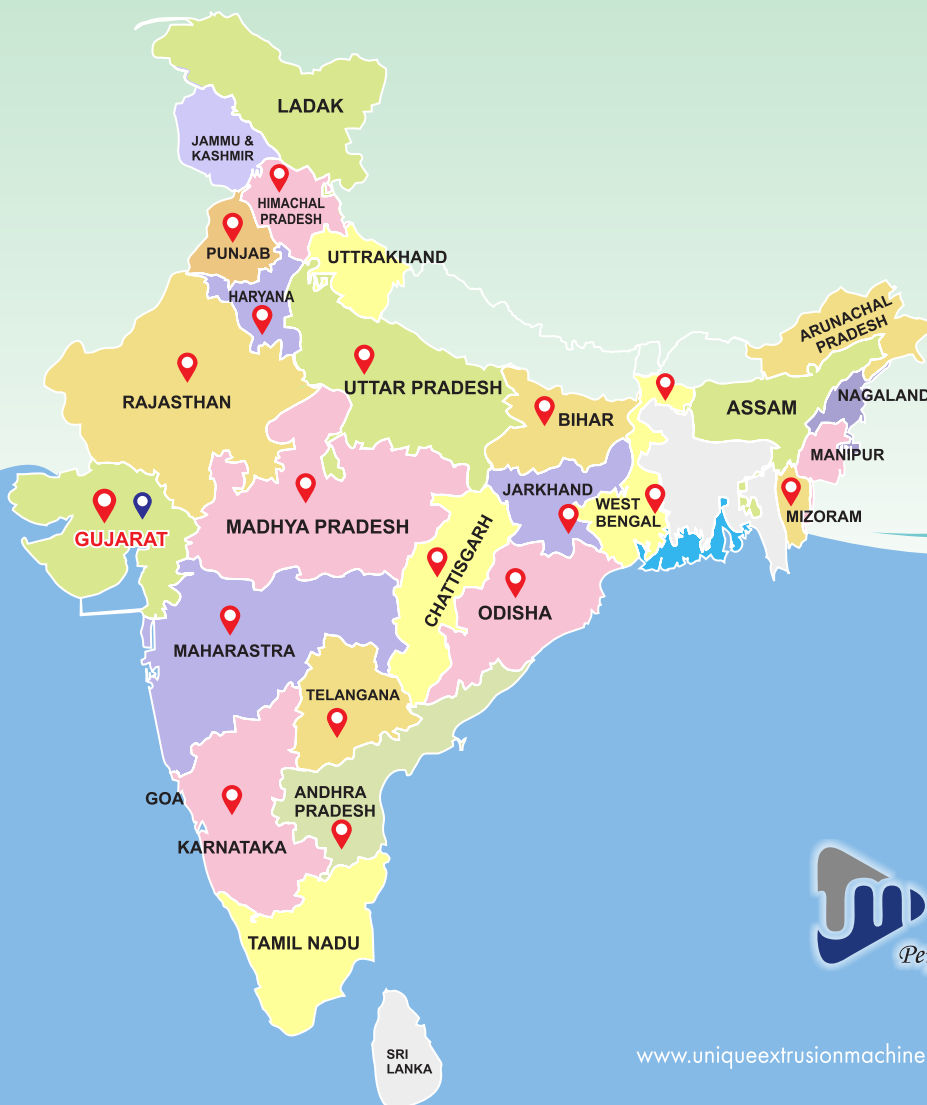
PVC / HDPE PRINTER



OUR EXPORTS CLIENTS



OUR DOMESTIC CLIENTS





Harsiddhi: 9825778785



**Mfg. All type of Pipe Profile &
Corrugated Extrusion Machinery & Parts**

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