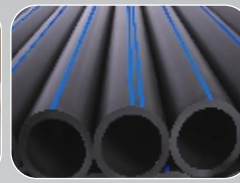
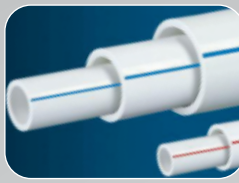




UNIQUE EXTRUSION MACHINERY



Company Profile

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

Unique Extrusion Machineries has been Exporting its PP/PE/PVC/PPR 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.



Integrity, Efficacy, Accountability, Unity and Agility are the defining elements of our group.

These are the values we have derived from our forefathers and we continue to transcend and practise in our present work culture.

Unveil the culture of consistency, growth and Acknowledgement with UNIQUE EXTRUSION MACHINERY Group.

MR. SAGAR KANOJIYA

Managing Director
+91 78744 94840



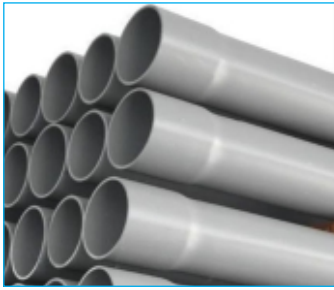
Unique Extrusion Machinery is a group that makes it easier for its customers to reach new heights by continuously introducing new technology to their customers.

Our aim is to keep the customer connected with the new technology and show them a new way for a bright future.

MR. SUMIT KANOJIYA

Managing Director
+91 96876 81992

TWIN SCREW EXTRUDER (PVC / UPVC / RPVC)



SAFETY FEATURES

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



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 EXTRUSION 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.

Product Range

Model	UETS 110	UETS 170	UETS 200	UETS 250	UETS 350	UETS 450	UETS 550	UETS 700
Screw Dia (mm)	52	52	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	25:1	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.

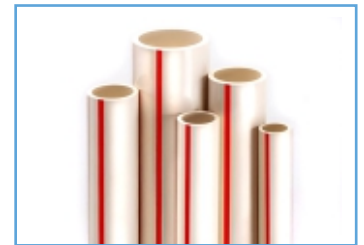
CONICAL TWIN SCREW EXTRUDER (CPVC / UPVC / PVC)

UNIQUE EXTRUSION 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
- Easy handling through intelligent machine design

PERFORMANCE FEATURES

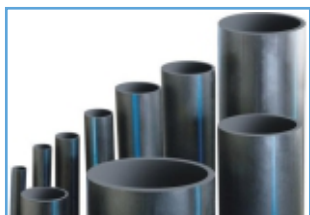
- Next Generation Machine
- Low Power Consumption and Energy Saving
- Achieve uniform pumping
- Minimize wear and tear
- Synchronization of drive of Extruder with Feeder and Traction Unit to reduce wastage
- Vertical feeder for easy acaption of different bulk density of materials.
- Gentle plasticizing, great melt quality
- PI D type Temperature Controllers Processor friendly.
- Low Maintenance
- Front Barrel with HSS sleeve offered
- Row-materials & brought out items from the world-class quality makers.
- PLC controls on request



Product Range

Model	CUETS 51X105	CUETS 55X120	CUETS 65X132	CUETS 80X156	CUETS 92X188
Minimum pipe OD(mm)	16	16	63	110	315
Maximum pipe OD(mm)	110	200	225	315	630
Output (Kg/Hour)	100KG	150KG	250KG	350KG	450KG
Main AC Drive (KW)	11	15	37	55	75

SINGLE SCREW EXTRUDER / HIGH SPEED SERIES (HDPE/PPR)



UNIQUE EXTRUSION 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 EXTRUSION 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	UES 25*	UES 40	UES 50	UES 65	UES 75	UES 90	UES 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

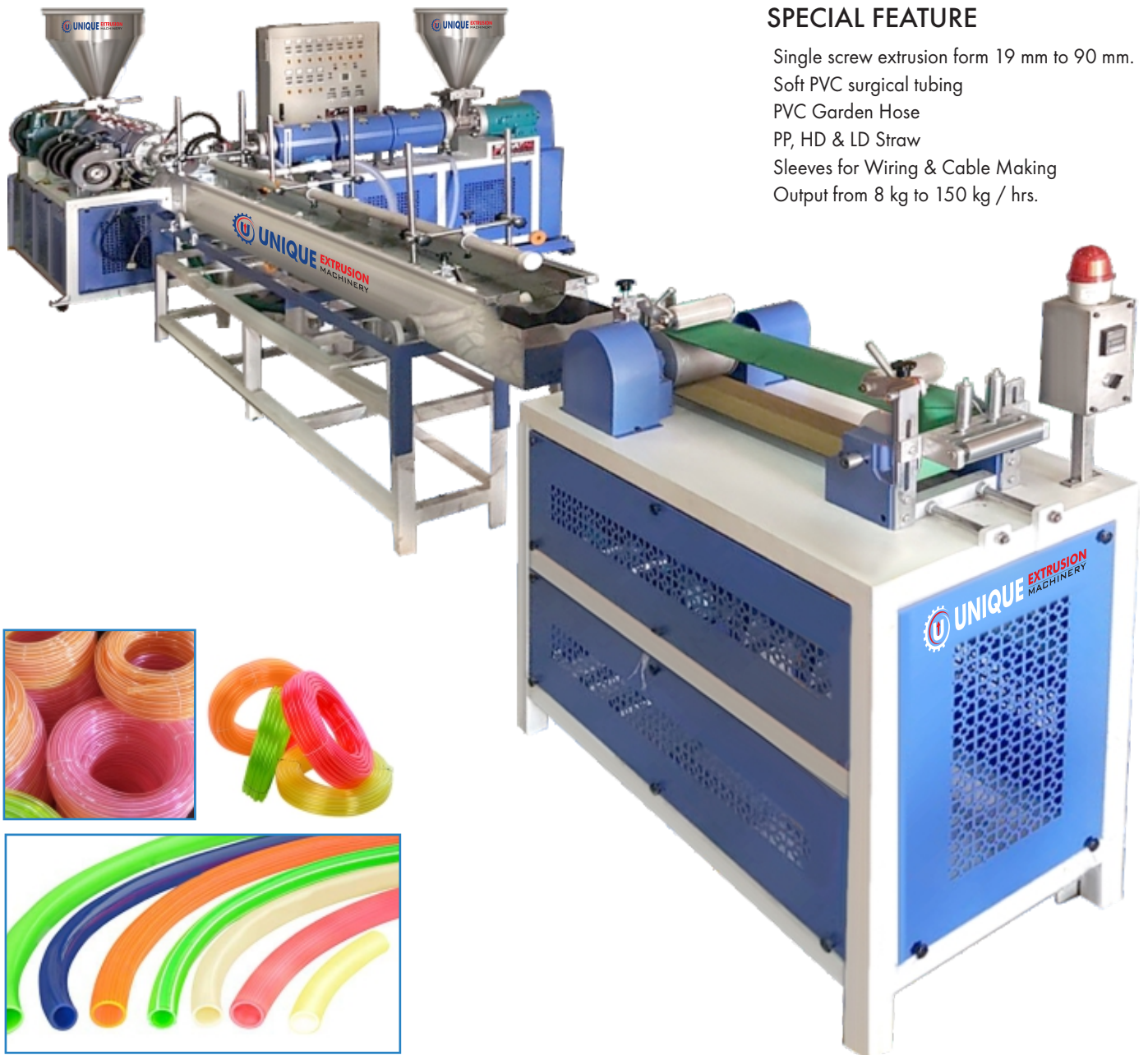
Model	High Speed 45-45	High Speed 45-55	High Speed 45-75	High Speed 45-90	High Speed 60-110	High Speed 60-132	High Speed 75-200	High Speed 75-250
Screw Diameter (mm)	45	45	45	45	60	60	75	75
L.D. Ratio	37:1	37:1	37:1	37:1	37:1	37:1	37:1	37:1
Main Motor (kW)	45	55	75	90	110	132	200	250
Output (Kg/Hour)	140-160	180-190	220-240	300-330	380-400	500-550	650-700	800-850
Pipe Range (mm)	20 - 110mm	20 - 110mm	20 - 200mm	63 - 315mm	63 - 315mm	63 - 400mm	110 - 400mm	110 - 630mm



SOFT PVC GARDEN PIPE EXTRUSION MACHINE

SPECIAL FEATURE

Single screw extrusion form 19 mm to 90 mm.
Soft PVC surgical tubing
PVC Garden Hose
PP, HD & LD Straw
Sleeves for Wiring & Cable Making
Output from 8 kg to 150 kg / hrs.



TECHNICAL SPECIFICATION

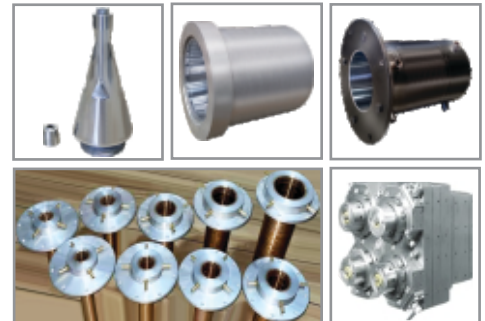
DESCRIPTION MODEL	UEP 45	UEP 50	UEP 55	UEP 65	UEP 75
SCREW DIAMETER	45 mm	50 mm	55 mm	65 mm	75 mm
L / D RATIO	24:1	24:1	26:1	28"1	26:1
TUBE SIZE	1 mm - 6 mm	2 mm - 10 mm	3 mm - 25 mm	6 mm - 50 mm	12 mm - 50 mm
HEATING LOAD ON BERRAL	6 HP	8 HP	10 HP	12 HP	15 HP
HEATING LOAD ON DIA	2 HP	2 HP	3 HP	3 HP	4 HP
COOLING BLOWER	0.5 X 2	0.5 X 2	0.5 X 3	0.5 X 3	0.5 X 3
TUBE PULLAR	1 HP	1 HP	2 HP	2 HP	2 HP
MAIN MOTOR	7.5 HP	10 HP	15 HP	20 HP	20 HP
TOTAL ELECTRIC SUPPLY	15 HP	20 HP	25 HP	40 HP	45 HP
SPACE REQUIREDLXWXH IN MTRS	12 X 3 X 3	14 X 3 X 3	15 X 3 X 3	15 X 3 X 3	17 X 3 X 3
CAPACITY	25 KG / HR	30 KG / HR	50 KG / HR	70 KG / HR	80 KG / HR

DIE HEADS

- Unique Extrusion PVC pipe head and HDPE Pipe head, enables flexible and effective production of High-Quality PVC pipes.
- All pipe heads from Unique Extrusion char excellent advantages such as high and disassembly; they produce pipes of excellent quality in a broad processing.
- Unique Extrusion 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 EXTRUSION 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.



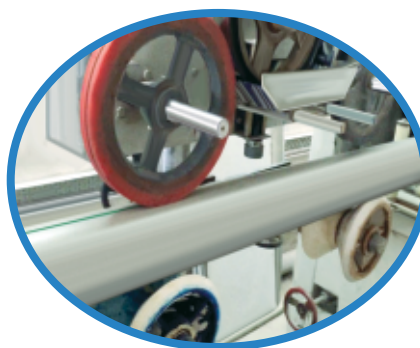
PVC PIPE DIE HEAD SPECIFICATIONS

Model	P-63	P-110	P-200/LV	P-200/HV	P-250	P-315	P-400
Pipe Range	16-50mm	20-110mm	110-200mm	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

PVC WHEEL PRINTER / HDPE HOT EMBOSSEING PRINTER



VACUUM CALIBRATION TANK & TUBE COOLING TANK



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.

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.



VACUUM SIZING TANK

Models	Unit	UEVST 110	UEVST 200	UEVST 250	UEVST 315	UEVST 450	UEVST 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.

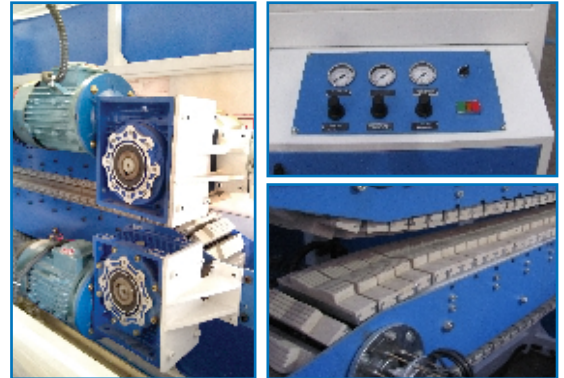
TUBE COOLING TANK

Models	UECT 110	UECT 200	UECT 250	UECT 315	UECT 450	UECT 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 Extrusion Offers Tube Traction Unit With Following Features :

- Up to 8 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 / PIPE - CUTTING UNIT / PLANETARY CUTTER

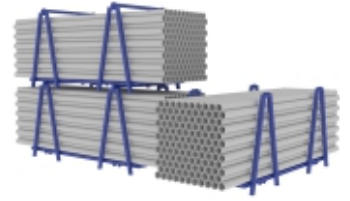
TUBE CUTTING UNITS (TCU)

- 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 TILTING UNITS

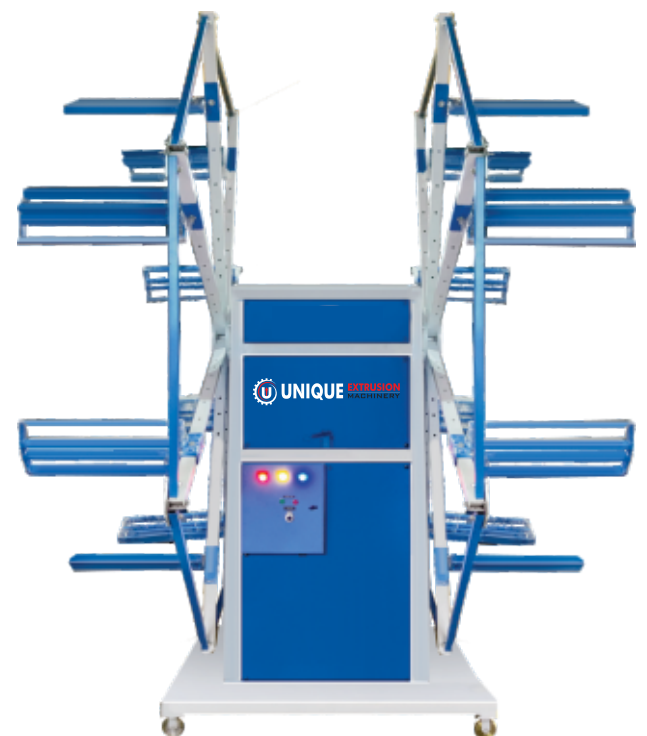
- Pneumatically operated Unit.
- Structure MOC Square hollow section.
- Two limit switch actuation - One for pipe cutter-feedback and other for tilting the pipe.
- Pipe resting platform provided for above 250mm Dia Pipe.



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.



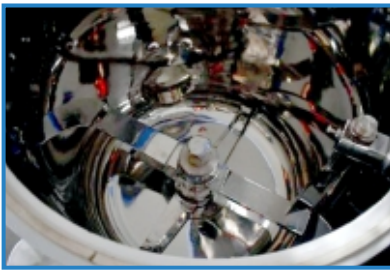
HIGH SPEED HEATER - COOLER MIXER

High Speed Heater Cooler Mixer

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

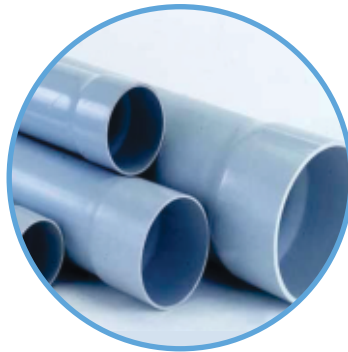
Material details for RPVC/UPVC/Agriculture Pipe.

- 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



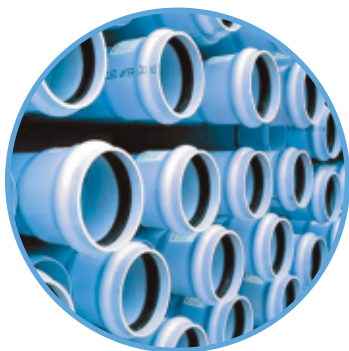
TUBE / PIPE PLAIN SHOKETING MACHINE

- Machine are mild steel.
- Gular pin materials Aluminum/MS with hardchrom platinum/Hard CI casting with hardchrom platinun.
- 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 platinun.
- 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.

PVC PULVERIZER UNIT (HAMMER DESIGN / DISK DESIGN)

APPLICATION

Unique Extrusion 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

- 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.



BETTER IN PULVERIZING TECHNOLOGY

Model	UEP 150	UEP 200	UEP 300	UEP 400	UEP 500
Disc Diameter	400 mm	400 mm	515 mm	620 mm	620 mm
Main Motor HP	20 HP	30 HP	40 HP	50 HP	60 HP
Second Mill Motor HP	12.5 HP	15 HP	20 HP	25 HP	30 HP
Throughput in kg/hr.	150-200 KG	200-250 KG	300-350 KG	400-450 KG	500-600 KG

PVC / HDPE GRAINDER UNIT



GRAINDER

- Body farms 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.

BETTER IN PULVERIZING TECHNOLOGY

Model	UEM 60	UEM 80	UEM 100	UEM 120
Disc Diameter	300	300	300	400
Drive kW	11.5	15	22.5	30
Throughput in kg/hr.	60	80-90	100-120	140-160



EXTRUDER HEATERS



BLOWER



LEVEL SENSOR



WATER LEVEL SENSOR



SSR



VIBRO MOTOR



AIR ACTUATOR VALVE



AIR SOLENOID VALVE



BLACK FILTER



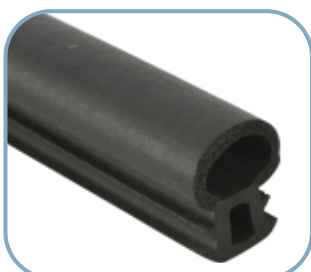
TRANSPARENT FILTER



VACUUM FILTER



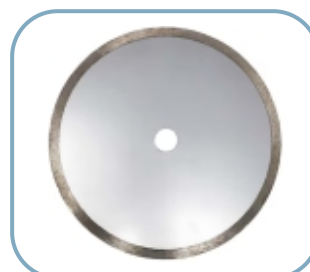
SPRAY NOZZLE



RUBBER GASKET



TRACTION RUBBER PAD



DIAMOND CUTTER BLADE



CARBIDE CUTTER BLADE



TRACTION ENCODER METER



LENGTH COUNTER METER



CONVEYOR SPRING



THERMO COUPLE

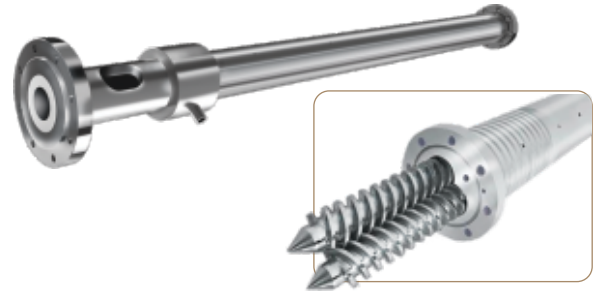
Single Screw Features:

- Dimensional accuracy in tolerance of ± 0.02 .
- Higher Output capacity and longer life span.
- Extraordinary surface hardness with TC coating. (Depth 1.5 to 2 mm)
- Accurate linearity of screw. ($<0.02\text{mm/m}$)



Single Barrel Features:

- Precise positioning of barrel bore and smooth finishing.
- Accurate compatibility with Die and Gear Box.
- Bore inspection with precision gauging machine.
- Extraordinary wear-resistant by Nitriding.
- Higher Output.



TWIN SCREW BARREL

Twin Screw Features:

- Dimensional accuracy in tolerance of ± 0.02 .
- Accurate gap checking with pin gauge.
- Effortless to fit in barrel and higher Output capacity.
- Longer life with Gas Nitriding.
- Extraordinary surface hardness with TC coating. (Depth: 1.5 to 2 mm)
- Accurate linearity of screw. ($<0.02\text{mm/m}$)
- Best melt quality.



Twin Barrel Features:

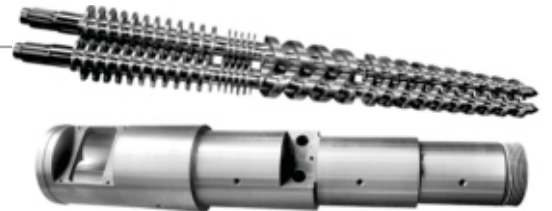
- Precise positioning of twin barrel bores and centre distance.
- Extraordinary surface quality through honing.
- No trace of any irregularities in assembled barrel's ID bores.
- No burning and lining problem in production.
- Extraordinary wear resistant by Nitriding.
- High Plasticizing performance.



CONICAL TWIN SCREW BARREL

We are considered as one the prominent manufacturer & supplier of Conical Screw Barrel. These conical screw barrel are used in PVC Pipe making machinery (conical twin screw extruder)

- Features**
- Long Durability
 - Competitive Price
 - Corrosion Residency
 - Material grade Bio metallic



Mfg. PVC / HDPE / PPR Pipe Extrusion Pipe Machinery & Parts (Conical Twin Screw & Parallel Twin Screw)

Plot - 5301, Vatva GIDC Estate, Phase - 4, Nr. Ramol Cross Road, Vatva, Ahmedabad - 382449 (Gujarat) INDIA.

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E-mail : sales@uniqueextrusion.com