



Devikrupa group

Help You Invent the Future

Since 2001



MASTER'S IN PVC/HDPE PIPE MAKING MACHINE

24 YEARS OF EXPERTISE

Devikrupa Group is Leading PVC, HDPE Pipe Plant Manufacturer in India. The Company Also Engaged in Manufacturing, Exporting and Supplying the Finest Quality Range of Single Screw Barrel, Twin Screw Barrel, Bimetallic Screw Barrel & Food Processing Screw Barrel.

Since 2001, **Devikrupa Group** Operates from Well-Equipped Machine and Fabrication Shops Facilities Which are Spread Over 10,000 SQM. Our 100+ Expert Engineers and Well Experienced Staff Helps Us to Provide Superior Quality Products to Our Customers. **Devikrupa Group** Offers Top Class Products and Gain a Top Place in the Plastic Machinery Industry.

#1 SUPPLIER IN REGION

Our Group is No. One in Plastic Machinery Manufacturing Because We Never Compromise With Our Products.



1200+
MACHINE

mfrs

World Class

PVC & HDPE PIPE
EXTRUSION MACHINERY



11+
COUNTRY



2100+
CLIENT

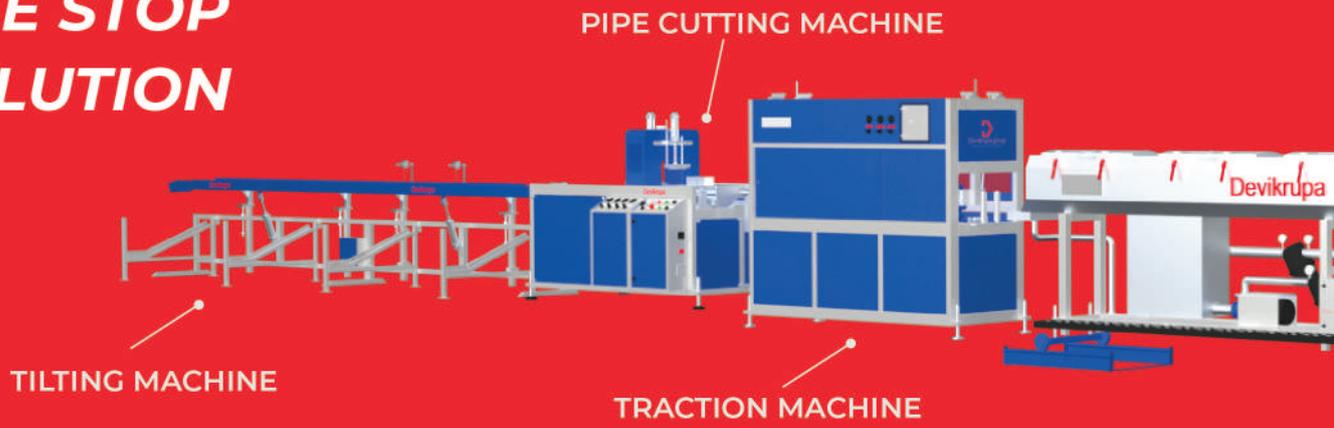


OUR MACHINE BUILD WITH PREMIUM QUALITY PRODUCTS



Why Our Machines?

- » Robust Construction
- » Highly Efficient
- » Lower Maintenance
- » Customizable Design
- » Simple to Operate
- » Error Diagnose System



PVC PIPE PLANT

SPECIFICATION:

- » High Accuracy
- » PID Digital Temperature Controllers
- » AC Vector Drive/Heating/Cooling System
- » Twin Shaft High Torque Gear Box Driven By V Belt
- » Screw & Barrel With Latest Design & Were Protection Technology For Optimum Span
- » Solid & Robust Construction With Tubular Steel Frame



Extruder Models	DG 52/18-110	DG 52/22-140	DG 52/25-170	DG 65/18-200	DG 65/22-250	DG 72/28-350	DG 90/22-450	DG 90/25-550	DG 92/28-700
L/D Ratio	18:1	22:1	25:1	18:1	22:1	28:1	22:1	25:1	28:1
Main Drive KW - AC	11	15	18	22	30:22	37:30	45	55	75
Output In KG/HR	100 to 120	130 to 150	150 to 170	180 to 200	200 to 250	300 to 350	400 to 450	500 to 550	650 to 700

CONICAL EXTRUDER

SPECIFICATION:

- » Low Maintenance
- » Uniform Performance
- » PID Temperature Controllers
- » High-grade Screw Barrel Used In Machine
- » It Consumes Low Energy & Saves The Energy



Models	DG51/105	DG55-120	DG65/132	DG80/156	DG92/188
Main Drive(KW-AC)	18.5	22	30	45	75
Output In(KG/HR)	100/140	150/200	250/300	380/450	650/750
Screw Diameter(mm)	51/105	55/120	65/132	80/156	92/188

VACCUM TANK

FULLY AUTOMATIC
PVC | HDPE PLANT



HDPE / PPR PIPE PLANT

SPECIFICATION:

- » High Accuracy
- » Vacuum Tank is made from SS
- » PID Digital Temperature Controllers
- » AC Vector Drive/Heating/Cooling System
- » Heavy Duty Torque Gear Box Driven By V Belt
- » Solid & Robust Construction With Tubular Steel Frame



Models	DG 45/65	DG 45/65	DG 45/65	DG 75	DG 75	DG 60/90	DG 60/120
Extruder Drive(KW)	37	55	67	90	112	134	164
Screw Dia (mm)	45:65	45:65	45:65	75	75	60:90	60:120
L.D. Ratio	37:32	37:32	37:32	32	32	37:32	37:32
Output (KG/Hour)	110-140	200-220	220-250	300-330	430-450	500-550	650-700



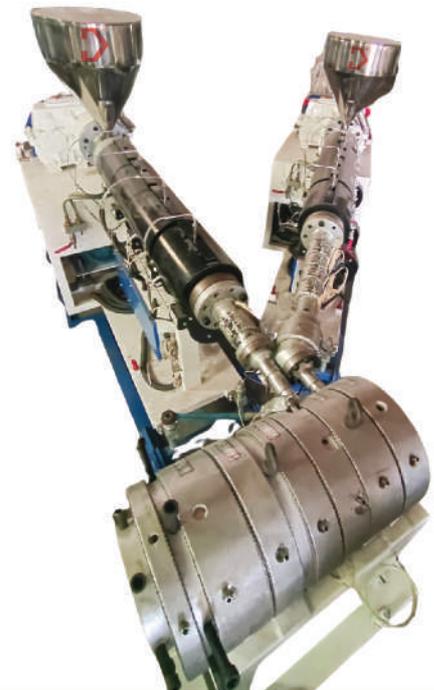
3 LAYER PIPE PLANT

SPECIFICATION:

- » High Accuracy
- » Vacuum Tank is made from SS
- » PID Digital Temperature Controllers



Models	3DG 63	3DG 110	3DG 200	3DG 250	3DG 315	3DG 450
Pipe Dia(mm)	16-63	20-110	20-200	63-250	90-315	110-450
Output (KG/HR)	90-200	120-450	200-450	250-600	350-600	450-1000
Traction Unit	2 Track	2 Track	2 Track	2/4 Track	4 Track	4 Track
Cutter Unit	Blade Type	Blade Type With Dust Collector	Blade Type With Dust Collector	Blade Type With Dust Collector	Pantry Chipless	Pantry Chipless
Material	HDPE/PPR/MDPE	HDPE/PPR/MDPE	HDPE/PPR/MDPE	HDPE/PPR/MDPE	HDPE	HDPE



VACCUM TANK



SPECIFICATION:

- » Water Circulating Pump
- » Power Full Vacuum Pump
- » Self-Cleaning Spray Nozzles
- » Traverse Movement Of The Tank
- » Tank Made From SS 304 M.S. Material
- » Precise Temperature Flow and Level Controls
- » Manually & Motorized Rail Arrangement Axial End

FEATURES:

- » Automatically High & Low Water Level
- » Control Device And Temperature Control System
- » Dual Bypass Filter for Maintenance During Operation
- » Separate Circuits for Vacuum and water spray Aluminum cast
- » The good quality Spray Nozzle provides High Speed and quality Cooling Effect

Models	VST - 75	VST - 110	VST - 200	VST - 250	VST - 315	VST - 450
Pipe Range(mm)	16 - 75	16 - 110	16 - 200	63 - 250	63 - 315	110 - 450
Cooling Length(mm)	4000	4000/6000	6000/9000	6000/9000	6000/8000	6000/8000
No. of Chamber(mm)	1	1	1	1/2	1/2	1/2

TRACTION MACHINE

SPECIFICATION:

- » Ease Of Maintenance
- » Pneumatic Clamping
- » Ease In Set Up & Efficient Traction
- » Servo Drive For Maintain Line Speed
- » Mechanical Power Distribution Eliminated
- » Multi-Belt – 2 Belts - Ovality Free Pipes
- » Independent AC Geared Motor For Each Caterpillar



Models	H 75	H 110	H 200	H 250
Pipe Diameter Range (mm)	20 - 75	20 - 110	20 - 200	40 - 250
No. of Caterpillars	2	2	2	2



TRACTION MACHINE FOR HIGH-END PIPE

SPECIFICATION:

- » Ease Of Maintenance
- » Pneumatic Clamping
- » Ease In Set Up & Efficient Traction
- » Servo Drive For Maintain Line Speed
- » Mechanical Power Distribution Eliminated
- » Multi-Belt – 4/6/8 Belts - Ovality Free Pipes
- » Independent AC Geared Motor/Servo Motors For Each Caterpillar



Models	H 250/4	H 315/4	H 450/4
Pipe Diameter Range (mm)	50 - 250	63 - 315	90 - 450
No. of Caterpillars	4	4	4



PIPE CUTTING MACHINE

SPECIFICATION:

- » Senser Base Operating
- » Maintenance Free Side Clamping
- » Pneumatically Operated Carriage Movement
- » Carbide Tipped Circulating Saw For Longer Life, Suitable For Smaller Pipe
- » Clamping Force Adjustable Depending Upon The Wall Thickness Of The Pipe



UPSTROKE CUTTER SAW

Models	C-75	C-110	C-200	C-250	C-315
Pipe Dia Min	16	16	16	16	63
Pipe Dia Max	63	110	200	250	315



PLANETARY PIPE CUTTING UNIT

SPECIFICATION:

- » PLC Operated
- » Chamfer Arrangement
- » Inbuilt Pipe Cuffing Counter
- » Smooth & Clean Surface Cutting
- » Carbide-Tipped Cutter For Longer Life
- » Movement Through Pneumatics Cylinder For Smooth Operation



PLANETARY CHIPLESS CUTTER SAW

Models	DGP-250	DGP-315	DGP-450
Pipe Dia Min	63	90	110
Pipe Dia Max	250	315	450



TILTING MACHINE



SPECIFICATION:

- » Nominal Length, 6 meters
- » Heavy Duty MS & SS Structure
- » Models Also Available For Twin Pipe Extrusion
- » 3 Meters Length Available In TU 110 & TIJ 200 Models
- » Rollers For Scratch Less Pipe Movement, Available In Most Model



Models	TU - 75	TU - 110	TU - 200	TU - 250	TU - 315	TU - 400	TU - 630
Pipe Size	20 - 63	20 - 110	20 - 200	20 - 250	63 - 315	90 - 400	200 - 630
Bed Type	Roller	Roller	Roller	Roller	Roller	Roller	Roller

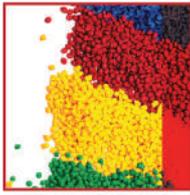
AUTO COILER DOUBLE STATION

SPECIFICATION:

- » Coiler Size: 16mm To 110mm
- » Coiler For HDPE / MDPE Pipe
- » Servo Base For Line Speed & Torque
- » Servo Motor For Coiling With Torque



HIGH SPEED HEATER-COOLER MIXER



SPECIFICATION:

- » High-Capacity Cooling Jacket Ensuring Rapid Material Cooling
- » Advanced AC Motor With VFD Control For Variable Speed Operation
- » High-Speed Precision-Balanced Mixing Blades For Uniform Blending
- » User-Friendly Control Panel With PID Digital Temperature Controllers
- » Efficient Heating And Cooling System For Optimized Material Conditioning
- » Heavy-Duty Stainless Steel Mixing Chamber For Durability And Corrosion Resistance

FEATURES:

- » Fast And Uniform Mixing For High-Quality Output
- » Energy-Efficient Operation With Minimal Power Consumption
- » Durable And Robust Construction Ensuring Long Service Life
- » Low Maintenance Design With Easy-To-Clean Components
- » Optimized For PVC, And Polymer Processing Applications
- » Heavy-Duty Stainless Steel Mixing Chamber For Durability And Corrosion Resistance

Models

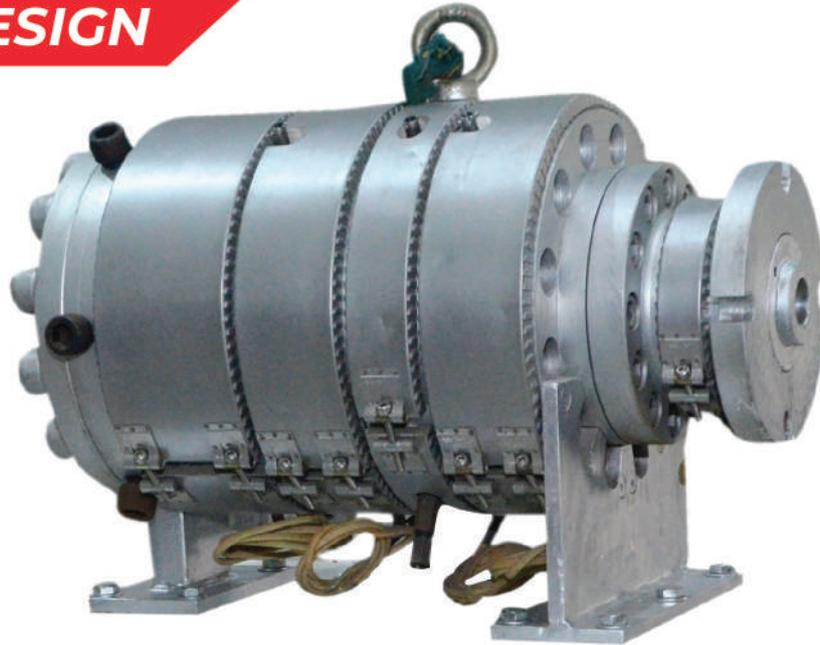
1	2	3	4	5	6
40 Kg	65 Kg	90 Kg	120 Kg	150 Kg	200 Kg

PVC PIPE

EXTRUSION PLANT DIE

DIE HEAD

SPIDER DESIGN



SPECIFICATION:

- » Twin Die Heads For Higher Outputs In Smaller Diameters
- » Extruders Utilization From 80-100% Even With Smaller Pipes
- » High-Volume Low-Pressure Design Ensures Vast Thickness Range
- » Uniform Melt Distribution Throughout The Entire Pipe Circumference
- » Ideal Residence Time Profile With Selective Temperature Control On The Sensitive Material.
- » Elimination Of Continuous Spider Marks (ID to OD) Allowing Better Mechanical Properties Of The Pipe.



Series	Unit	DD 63	DD 110	DD 200	DD 250	DD 315	DD 400	DD 630
Pipe Range	mm	16-63	20-110	63-200	110-250	110-315	200-400	300-630
Output Capacity Up To**	Kg/hr	100-170	250	450	550	700	900	1200

HDPE PIPE

EXTRUSION PLANT DIE

DIE HEAD

SPIRAL DESIGN



SPECIFICATION:

- » Consistent Product Quality For All Pipe Sizes
- » Improved Inner Pipe Surface And Short Purging Time
- » Enables PE, PPR, ABS Process Ability Only By Changing The Tooling
- » Constant Processing Characteristics Over the Full Range of Material
- » Low Pressure Build-Up & Low Melt Temperature Even With High Throughput
- » Uniform Melt Flow Can Be Achieved Yielding Minimum Wall Thickness Deviation
- » Optimized Back Pressure Allows A Balance Of Compression & Melt Temperature Control



HDPE Twin die



HDPE Three layer die



HDPE DD200



HDPE DD110

Series	Unit	DD - 50	DD - 110	DD - 200	DD - 250	Three Layer Small	Three Layer Big
Pipe Range	mm	12-50	20-110	20-200	63-250	16-125	63-315
Output Capacity Up To**	Kg/hr	150	250	500	650	500	900

SINGLE SCREW BARREL



- » **Diameter Range:** 20mm to 200mm.
- » **Length:** Upto 6000mm.
- » **Material:** Certified EN41B MUSCO Procured From an Authorized Dealer.

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. «

BARRIER MEDOX SCREW



- » The Advantages of Darrier Screws are Proper Mixing & Higher Productivity.
- » Barrier Screws Exclude Undesired Degradation of the Products Too

GROOVED FEED BUSH



- We Manufacture Grooved Feed Bush From 30mm to 180mm Dia. or as Per Client's Specifications Drawing. «

APPLICATION OF SINGLE SCREW BARREL

Pipe Plant

- » PVC Conduit Pipe
- » PVC Profile
- » PVC Soft Tubing
- » PVC Suction
- » SPVC Braided Hose
- » HDPE Pipe
- » PVC Cable Coating

Orientation Extrusion Machinery

- » Extrusion Coating Machine (LD/HD/PP)
- » Sheet Extrusion Machine (PP/LD/HD/ABS/PC/HIPS)
- » Tape Plant
- » Rubber Industries
- » Food Industries

Blown Film Plant

- » Mono Layer Extrusion Plant (LDPE/LLDPE/HM/HDPE/PVC/PP)
- » Multi-Layer Film Plant (LDPE/LLDPE/Nylon/HDPE/PP)

Blow Moulding Plant

Injection Moulding Plant

TWIN SCREW BARREL



- » **Diameter Range:** 52mm to 110mm.
- » **Length:** 110 Kg/hr to 900 Kg/hr.
- » **Material:** Certified EN41B MUSCO Procured From an Authorized Dealer.

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.



Screw Barrel Models

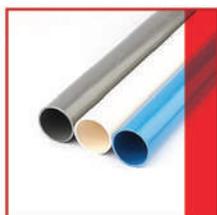
DTS - 90/110	DET - 52x16
DTS - 140E	DET - 52x18
DTS - 170	DET - 52x22
DTS - 200	DET - 52x25
DTS - 250	DET - 65x16
DTS - 300	DET - 65x18
DTS - 350	DET - 65x22
DTS - 450	DET - 68x28
DTS - 550	DET - 72x28
DTS - 700	DET - 90x22
DTS - 900	DET - 90x25
-	DET - 92x28
-	DET - 110x28

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.



APPLICATION OF TWIN SCREW BARREL



PVC Pipe & UPVC Pipe



CPVC Pipe



RPVC Pipe



RPVC Pipe



Casing Pipe

CONICAL SCREW BARREL

CONICAL SCREW FEATURES

- » The conical shape of the screws promotes smooth and consistent material flow throughout the barrel, ensuring uniform mixing and plasticization.
- » The tapered design creates a larger surface area in the plasticizing zone, facilitating efficient heat transfer and controlled melting.
- » Conical screws can reduce shear stress on the material, which is particularly important for heat-sensitive materials like PVC.
- » The intermeshing action of the twin conical screws provides excellent mixing and compounding capabilities.



CONICAL BARREL FEATURES

- » The barrel is with a temperature control system to maintain the desired temperature profile for optimal plasticization and prevent material degradation.
- » The barrel design facilitates efficient heat transfer from heating elements to the material, ensuring uniform melting.
- » The barrel's streamlined design contributes to energy efficiency and lower amperage requirements.
- » High-quality alloy steel and wear-resistant materials are used in the construction of the barrel to ensure long service life and reduce maintenance.



Models	DG 51/105	DG 55/120	DG 65/132	DG 80/156	DG 92/188
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EXTRUSION SPARES FOR CUSTOMER SUPPORTS



Spray Nozzel



Rubber Pad



Aluminium Section



Vacuum Gauge / Pressure Gauge



Cutter Blade



Oil Filter



Vacuum Filter



Water Filter



Water Filter



Pressure Switch



Vacuum Filter Body



Vent Housing



Cooling Cell



Traction Track Assembly

SHAPE YOUR DREAM WITH **DEVIKRUPA GROUP** PVC & HDPE PIPE MACHINES



**EXPORTED TO
11+ COUNTRIES**



SCAN TO WATCH
MACHINE VIDEO



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VISIT WEBSITE

24/7 Quick Contact



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