

Pingaxh

engineering Pvt. Ltd.

"your profit is our business"



PIPE
MACHINERY

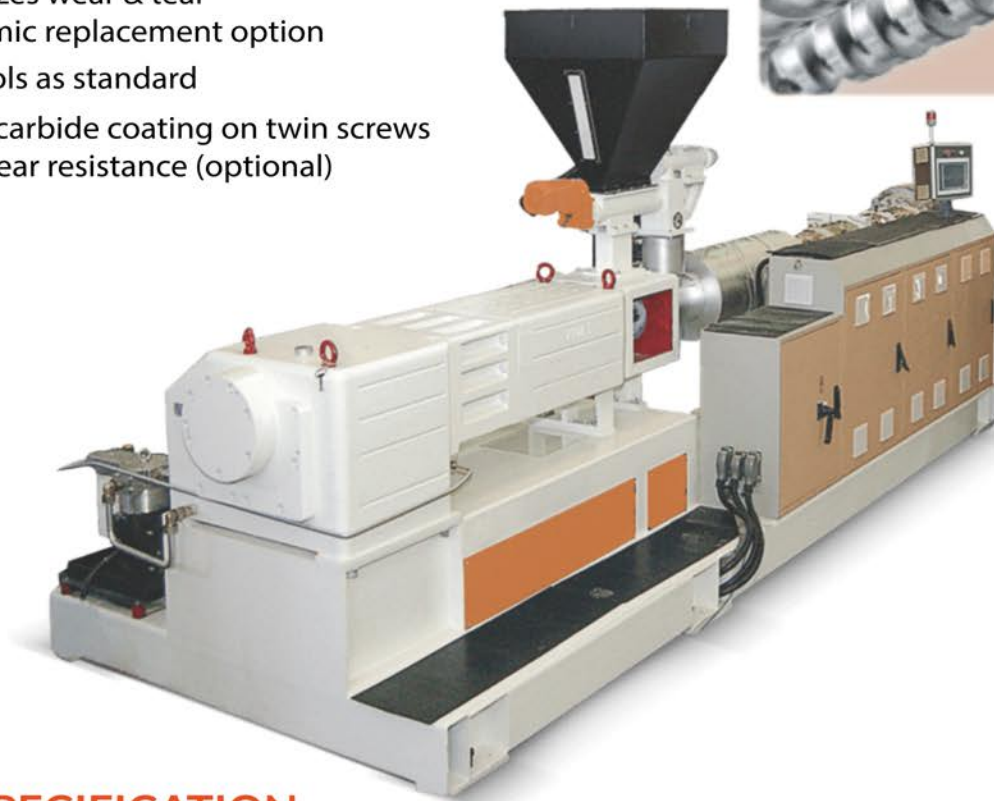
TWIN SCREW PIPE EXTRUSION LINE | UPVC

UPVC being a heat sensitive material necessitates a very controlled temperature during processing. Twin Screw Extruders are known for the power optimisation and are offered in the range from 110 Kg/hr up to 1500 Kg/hr



FEATURES

- Minimizes energy inputs
- Facilitates Uniform pumping
- Two piece barrel construction
 - (a) Front barrel with HSS sleeve offered for selected models, minimizes wear & tear
 - (b) Economic replacement option
- PLC controls as standard
- Tungstun carbide coating on twin screws for high wear resistance (optional)



EXTRUDER SPECIFICATION

Model		PTS 110	PTS170	PTS 200	PTS 250	PTS 350	PTS 450	PTS 550	PTS 700	PTS 900	PTS 1500
Screw Diameter	mm	52	65	65	65	71	91	91	92	110	135
Screw Speed	rpm	5-50	4-45	5-53	5-53	5-53	4-40	4-40	4-40	3-32	3-26
L/D Ratio	-	20:1	18:1	18:1	22:1	28:1	22:1	25:1	28:1	28:1	28:1
Main Motor	kW	11	15	22	22	30	45	65	75	90	160
Max. Output	Kg/hr	100-110	150-170	180-200	230-250	330-350	420-450	520-550	650-700	850-900	1300-1500
Pipe Range (Single Die)	mm	20-110	20-200	20-200	63-250	110-315	110-400	110-400	160-400	160-400	250-630
Pipe Range (Twin Die)	mm	19-50	19-50	19-50	20-110	20-10	20-110	63-200	63-200	90-200	110-250

*PTS 450 & above with European Gear box.

PVC PROCESSING | DIE HEAD

Pingaxh Extrusion offers spider dies right up to 630 mm dia with single head, dual head and quadruple head.

ADVANTAGES

- High volume low pressure design ensures wider thickness range
- Uniform melt distribution throughout the entire pipe circumference
- Twin die heads for higher outputs in smaller diameters
- Dual die with dual downstream for pipe sizes 20-110 mm & 63-200 mm
- Extruders utilization from 80-100% even with smaller pipes

Die head with trolley for M-200 and above models for easy movement.

SINGLE HEAD SPECIFICATION

Model		M 63	M 110	M 110HV	M 200LV	M 200	M 250	M 315	M 400	M 630
Pipe Range	mm	20-63	20-110	20-110	32-200	63-200	75-250	90-315	160-400	250-630
Outout Capacity up to**	Kg/hr	100	200	250	250	320	425	550	700	1000

COLUMN PIPE DIE HEAD SPECIFICATION

Model		PCP 110	PCP 200
Pipe Range	Inch	1", 1(1/4)", 1(1/2)"	2", 4"
Outout Capacity up to**	Kg/hr	230	450

MULTIPLE DIE HEAD SPECIFICATION

Model		APP 50	APP 63 (DUAL)	APP 110HV (DUAL)##	APP 200 (DUAL)	AQPP (QUADRUPLE)
Pipe Range	mm	19-50	20-63	20-110	63-200	19-30
Outout Capacity up to**	Kg/hr	200	200	500	850	280

* In common down stream equipment.

** Pipe output depending on pipe size

Optional up to 200 mm

MULTI LAYER PIPE DIE HEAD SPECIFICATION - PVC

Model		SP 250FC
Pipe Range	mm	75-250
Outout Capacity up to	Kg/hr	700
Max Layer Ratio		15:70:15

* 3 Layer Die Head with high filler middle layer

* Foam core pipe die head



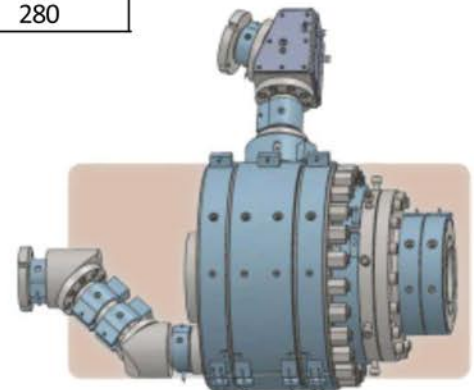
TWIN DIE HEAD



QUADRUPLE DIE HEAD



SINGLE DIE HEAD



* Three Layer RPVC Foam Core / High Filled Die Head

SINGLE SCREW PE/PPR PIPE EXTRUSION LINE | SPEED SERIES



FEATURES & ADVANTAGES

- ◆ 4th generation energy-efficient extruder
- ◆ Proven European technology; ensures excellent linearity of specific output
- ◆ L/D ratio of 37 : 1 for excellent melt homogeneity
- ◆ Grooved feed design extruder
- ◆ Versatile screw designed for PE & PP Random Copolymer
- ◆ Direct coupled design ensures minimum transmission loss
- ◆ Wear-resistant coating guarantees long screw life at high rpm






FEATURES & ADVANTAGES

Model		PING 45-22	PING 45-45	PING 45-55	PING 45-75	PING 45-90	PING 60-110	PING 60-132	PING 75-200	PING 75-250
Screw Diameter	mm	45	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	37:1
Main Motor	kW	22	45	55	75	90	110	135	200	250
Max. Output	Kg/hr	60-80	140-160	180-190	220-240	300-330	380-400	500-550	650-700	800-850

DIE HEAD | POLYOLEFIN PROCESSING (PE/PPR)

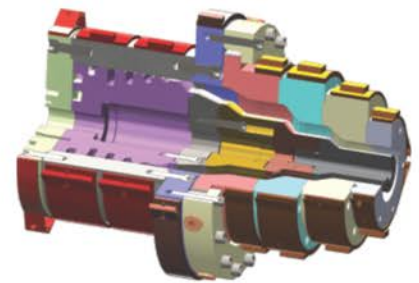
MOST VERSATILE SPIRAL MANDREL DESIGN

• ADVANTAGES

-  Improved inner pipe surfaces
-  Short purging time
-  Optimized back pressure allows a balance of compression & melt temperature control
-  Uniform melt flow can be achieved yielding minimum wall thickness deviation
-  Possibility with high speed design upto 30 mtr/minute line speed for smaller pipe size 20 – 40mm



* SPIRAL MANDREL DIE HEAD



SPIRAL MANDREL DESIGN WITH IPC

SINGLE PIPE DIE HEAD SPECIFICATIONS

Model		RSM 50	RSM 200	RSM 250	RSM 450	SRSM 630	RSM 800
Pipe Range	mm	12-50	20-200	63-250	90-450	225-630	315-800
Output Capacity up to**	Kg/hr	200	500	800	1000	1200	1500
Internal Pipe Cooling		N.A.	N.A.	IPC	IPC	IPC	IPC

DUAL PIPE DIE HEAD SPECIFICATIONS

Model		RTDSM 50	RTDSM 200
Pipe Range	mm	12-50	20-200
No. of Layer		1	1
Output Capacity up to**	Kg/hr	400	1000

CO-EXTRUSION PIPE DIE HEADS SPECIFICATIONS

Model		PGSM 50	PGSM 50/R	PGSM 110	PGSM 110/R	PGSM 110 HV	PTSM 110	PTSM 110 HV	PTSM 250*	PTSM 450*
Pipe Range	mm	12-50	12-50	20-110	20-110	20-110	20-110	20-110	20-110	90-450
Outer Thickness Range up to%		90	10	90	10	85	10:80:10	15:70:15	20:60:20	33:33:33
No. of Layers		2	2	2	2	2	3	3	3	3
Output Capacity up to	Kg/hr	200	200	350	350	450	240	400	550	900

** Pipe output depending on pipe size and material recipe.

* Die head suitable for PPR

SINGLE SCREW EXTRUDERS | LX SERIES

- Understanding extrusion market requirements thoroughly, Pingaxh extruders take lead in technical superiority
- The screw and barrel are designed and developed to match specific raw material and end product requirement by simulation software
- We offer barrier screws yielding improved output rate, low melt temperature and improved melt quality

ONLY BARE EXTRUDERS FOR FOLLOWING APPLICATION

- Soft PVC tubing for medical applications
- Soft PVC garden hose
- Suction hose pipes
- HDPE/PP corrugated pipes
- PP tubes for automobiles
- PU tubes for pneumatic pipes
- Cable coating
- Nylon tubing for medical application



JOCKEY EXTRUDER



* Picture for illustration purpose only

PLAIN BARREL EXTRUDER SPECIFICATIONS

Model		PX 18*	PX 25*	PX 40	PX 50	PX 65	PX 75
Pipe Range	mm	18	25	40	50	65	75
L:D Ratio		20:1	24:1	26:1	26:1	26:1	26:1
Main Motor	kW	0.75	3.75	7.5	15	30	37.5
Max. Throughput(HDPE)	Kg/hr	1.5-2	5-6	18-20	36-40	90-100	120-130

Smooth Bore Extruders for PVC application available.

* Jockey extruder for stripping

PE PIPE EXTRUSION LINE



CUTTING UNIT

• PINGAXH TUBE CUTTING UNIT (PTCU)

- ◆ Carbide tipped circular saw for longer life
- ◆ Pneumatically operated carriage movement
- ◆ Clamping force adjustable depending upon the wall-thickness of the pipe
- ◆ Maintenance free Top clamping
- ◆ Swarf removal system (optional)
- ◆ Trolley movement on linear motion bearings
- ◆ Special guillotine designed cutter for PPR pipes
- ◆ Dual cutter for dual pipe extrusion line
- ◆ Digital counter to measure length
- ◆ PLC based controls available (optional)



PINGAXH TUBE CUTTING UNIT MODEL SPECIFICATIONS

Model		PHC 110	PHC 200	PTCU 250	PTCU 315	PHC 110/2	PHC 200/2
Pipe Range	mm	20-110	20-200	50-250	90-315	20-110	20-200
Cutting Speed (Max.)	Mtrs/Min.	20	12	10	6	20	12
Clamping Form	-	Top	Top	Top	Side/Top	Top	Top

PLANETARY CUTTING UNIT (PCU)

- ◆ Online chamfering preferred for pipe diameter range 110-800 mm
- ◆ Suction blower for swarf removal
- ◆ Universal Clamping system
- ◆ Self centering design
- ◆ With inbuilt battery backup

PLANETARY CUTTING UNIT SPECIFICATION

Model		HRS 25 XZ	HRS 40 XZ	HRS 80 XZ
Pipe Range	mm	50-250	75-400	110-800
Cutting Speed (Max.)	Mtrs/Min.	10	7	4
Clamping System	-	Universal	Universal	Universal

* For PVC pipes with RR joint

COILING UNIT

- ◆ Two station coiler with pneumatic collapsing arms
- ◆ Suitable for pipe size up to 125 mm
- ◆ Online tension adjustment achieved through tension control
- ◆ Pneumatic pipe end retaining device provided to prevent loosening of the coil
- ◆ Auto traversing with servo and non servo drive available
- ◆ A. C. Drive
- ◆ Single station coiler available on request



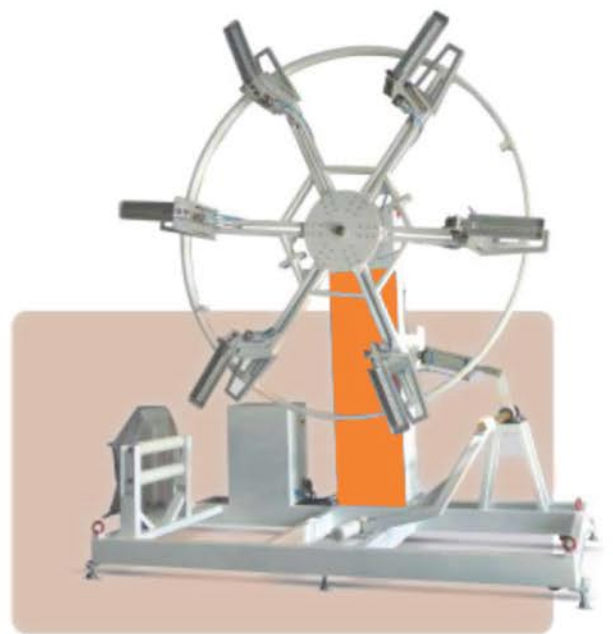
COLIERS SPECIFICATIONS

Model		PPC 32/2	PPC 63/2 E	PPC 63/2 HD	PPC 125/1
No. of Wind Up Stations		2	2	2	1
Pipe Diameter Range	mm	12-32	16-63	16-63	63-125
Line Speed Max.	Mtrs/Min.	80-120	15/30	15/30	10

TOTAL SOLUTION | PINGAXH PACKAGE DEAL

• PINGAXH CAN OFFER COMPLETE PROJECT SOLUTION

- ◆ UPVC / CPVC / HDPE / PPR Pipe Plants
- ◆ High Speed mixer with cooler
- ◆ Grinder / Pulveriser
- ◆ Cooling Tower
- ◆ Water Chillers
- ◆ Air Compressor
- ◆ Pipe Testing Equipments
- ◆ Printing Equipments
- ◆ Semi Auto / In Line Pipe Socketing Machine.
- ◆ Gravimetric Dozing System for HDPE Pipes
- ◆ Ultrasonic Sensors for measurement and display for Pipe wall thickness



VACUUM SIZING TANK SPECIFICATIONS

Model		PVT 110*	PVT 110 HS	PVT 200*	PVT 250	PVT 315	PVT 450	PVT 630
Pipe Range	mm	16-110	16-110	20-200	50-250	50-315	75-450	220-630
Cooling Length	mm	4/6/8	9	6/8	6/8	6/8	6/8	8
No. of Chambers	Mtrs/Min.	1	2	1	2	2	2	2

*Dual models are also available

Optional : Stainless steel tanks / 8 mtrs. length / dual models available.

Pressure sizing tanks and extension cooling tanks for above sizes available



CALIBRATING SYSTEM | VACUUM & PRESSURE

• VACUUM SIZING TANKS

- ◆ Intensive cooling provided to ensure high production rate
- ◆ Self cleaning spray nozzle
- ◆ Accurate vacuum control, water level control & temperature control
- ◆ Two vacuum chambers and motorized axial movement provided from VST-250 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
- ◆ Air operated solenoid valves optionally
- ◆ Cyclone separator for vacuum optionally
- ◆ Aluminium cast lids

EXTRA COOLING TANKS

- ◆ Adjustable Spray nozzle
- ◆ Self cleaning filters
- ◆ Pipe Guides support from UMWHDPE
- ◆ Automatic water level control

EXTRA COOLING TANKS SPECIFICATIONS

Model		ECT 110*	ECT 200*	ECT 250	ECT 315	ECT 450	ECT 630
Pipe Range	mm	16-110	20-200	50-250	50-315	75-450	110-630
Cooling Length	mm	4/6/8	6/8	6/8	6/8	6/8	8
No. of Chambers	Mtrs/Min.	1	1	1	1	1	1

TRACTION UNIT

- ◆ Up to 8 track to suit pipe diameters
- ◆ Different line speeds can be changed through change of sprockets (on request)
- ◆ Track adjustment by pneumatic control
- ◆ Direct drive offered for selected models
- ◆ Counter balance pressure to balance track weight for thin pipes
- ◆ 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
- ◆ Servo design (Optional)
- ◆ Thick Thin provision (Optional)



Model		PTU 322	PTU 110	PTU 200	PTU 250	PTU 250/4	PTU 315/4	PTU 450/4	RA 630/6T	RA 630/8T	RA 800/8T
Pipe Range	mm	up to 32	16-110	20-200	50-250	63-250	63-315	75-450	110-630	250-630	160*-800
No. of Chambers	Nos.	2	2	2	2	4	4	4	6	8	8
Max. Line Speed	Mtrs/Min.	120	15	15	15	7	10	7	6	4.5	4.5
Contact Length	mm	700	800	1200	1600	1200	1200	1600	1450	1450	1800
Drive Option		Servo Elec.	Servo Elec. / Std	Servo Elec. / Std	Servo Elec. / Std	Servo Elec. / Std	Servo Elec. / Std	Servo Elec.	Servo Elec.	Servo Elec.	Servo Elec.

Models with higher line speeds & wider speed range available on request.

Minimum Line speed upto 1% of maximum speed (optional features).

Higher sizes available on request.

* Pipe range of 160 with four tracks only.

** Servo and non servo drive and motor from preferably Lenze-Germany available as option

**Thick & Thin device available as option

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