



Extrusion Technology

The Ultimate Extrusion Machine

PLASTIC PIPE EXTRUSION MACHINERY (PE, PPR, PEX, Corrugated, PVC)

SINGLE SCREW EXTRUDERS

- *European technology. extrusion screws* of latest design to achieve high output & good homogeneity PE, with special lining *Bimetallic barrel* for high wear resistance Forced direct water cooling ring on barrel's feed zone.
- Material Hopper.
- Reduction Gear box (*AGMA standards*) with internal cooling coil & High load *Spherical Roller Thrust Bearing*. Lubrication by oil splash method.



- Heavy-duty ventilated motor drive conforming to *IEC STANDARDS*.
- multiple heating zones with blower ventilation under digital *PID Temperature regulators*.
- Screw speed controlled by super *Electronic Motor Speed Controllers*



EXTRUSION DIE HEADS



- Taylor designed for each specific pipe application.
- Optimized melt distribution for homogeneous thickness and fine surface finish.





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VACUUM CALIBRATION Units

- For calibration and cooling of pipe to required dimensions.
- Special dual circuit with *precision liquid ring vacuum pump*, water circulation pump, Vacuum calibration valve, and quick-drain valves.



- Automatic control of water level inside vacuum chamber.
- Motorized vacuum chamber motion
- Water collection/resrvior tank.



COOLING Units

- Bath or Spray Cooling systems.
- Water feed pump.



ADJUSTABLE CALIBRATION SLEEVES

- Precise control of pipe outer diameter.
- Inlet design facilitates extrusion process.



- Online sleeve diameter adjustment
- Overcome downtime and helps control pipe excess weight.
- Reduces need of precise die dimensioning.



HAUL-OFF Units

- Multi-Caterpillar units
- Motors driven & synchronized by Programmable *Electronic speed controller* .



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- Take-off variable speed control
- Powered open/close



PIPE WINDERS

- Welded structures with *adjustable diameter*.
- *Powered coil collapse* mechanism.



- *Electronic torque control*.
- Measured and adjustable coil length.



CONTROL AND OPERATION SYSTEMS

- Centralized Programmable Control System
- Touch Screen HMI with user friendly multi-lingual operator interface.
- Programmed with dedicated FIDAPLAST PIPE EXTRUSION software.



- Ventilated Control Cabinet integrated in the machine
- All components applied in control units of each part of the extrusion line are of FIRST QUALITY ELECTRIC/ELECTRONIC CONTROLS



- Built in data logging and recording for quality systems.
- VARIOUS CONTROL UNITS OF THE PRODUCTION LINE SYNCHRONIZED for optimum performance and control as ONE-SYSTEM.

