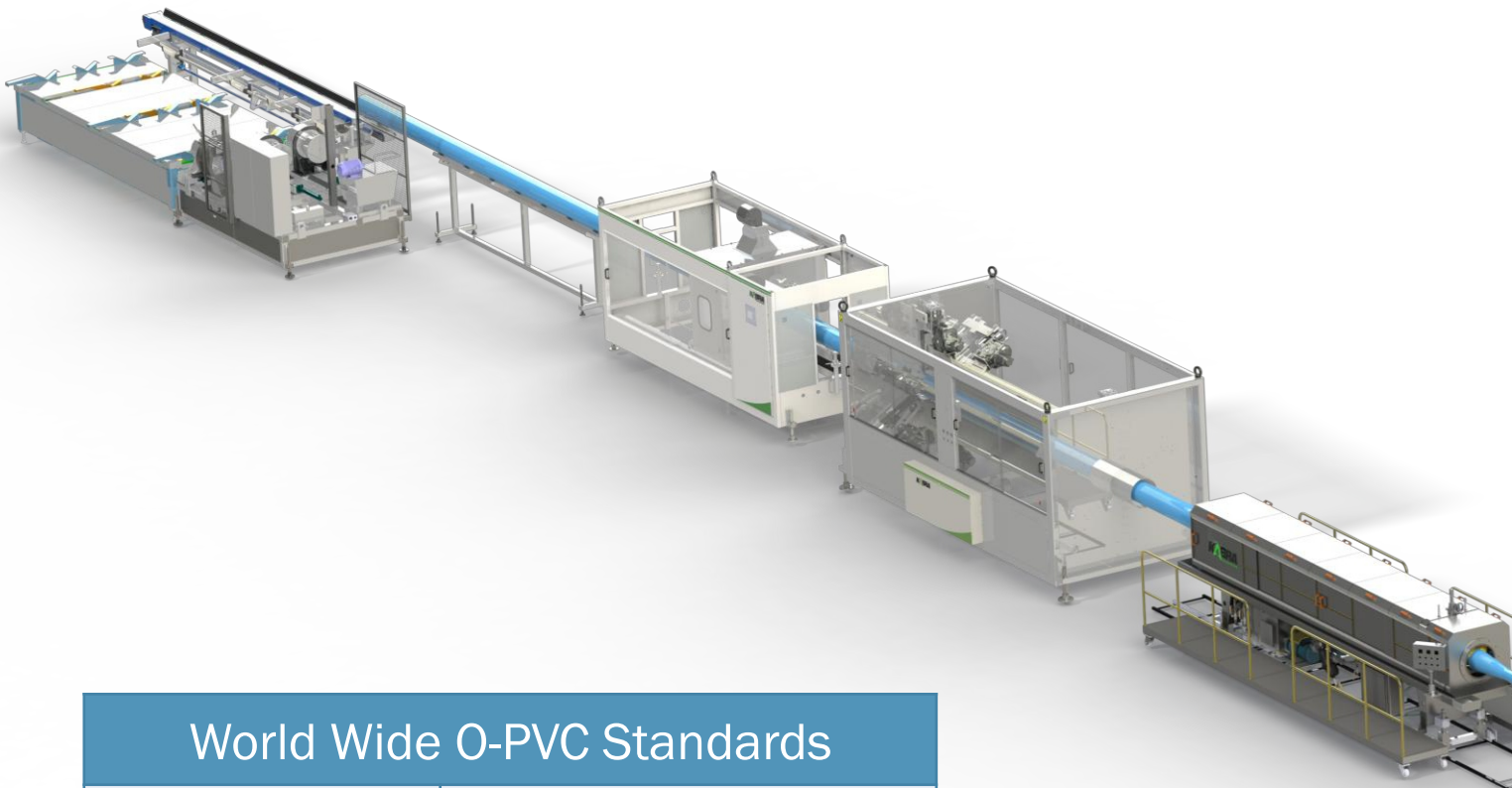




Continuous Innovation

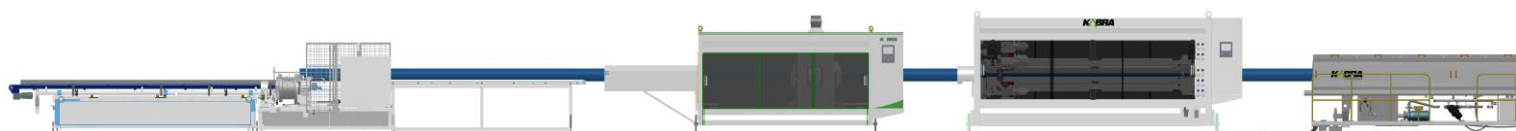
**O-PVC**

ONLINE ORIENTED PVC PIPE  
TECHNOLOGY



## World Wide O-PVC Standards

Country	Standard
International	ISO 16422:2006
United Kingdom	BR-ISO 16422:2006
South Africa	SANS 16422:2007
Saudi Arabia	SASO-ISO 16422:2009
Spain	UNE-ISO 16422:2008
Australia / New Zealand	AS/NZS 4441:2008
USA	ASTM 1483-05
USA	AWWA C909-09
Canada	CSA 137.3.1-09
Brazil	ABNT NBR 15750:2009
France	AFNOR T 54-948:2010
India	BIS IS:16647:2017



# Technical Specifications of Various O-PVC Models

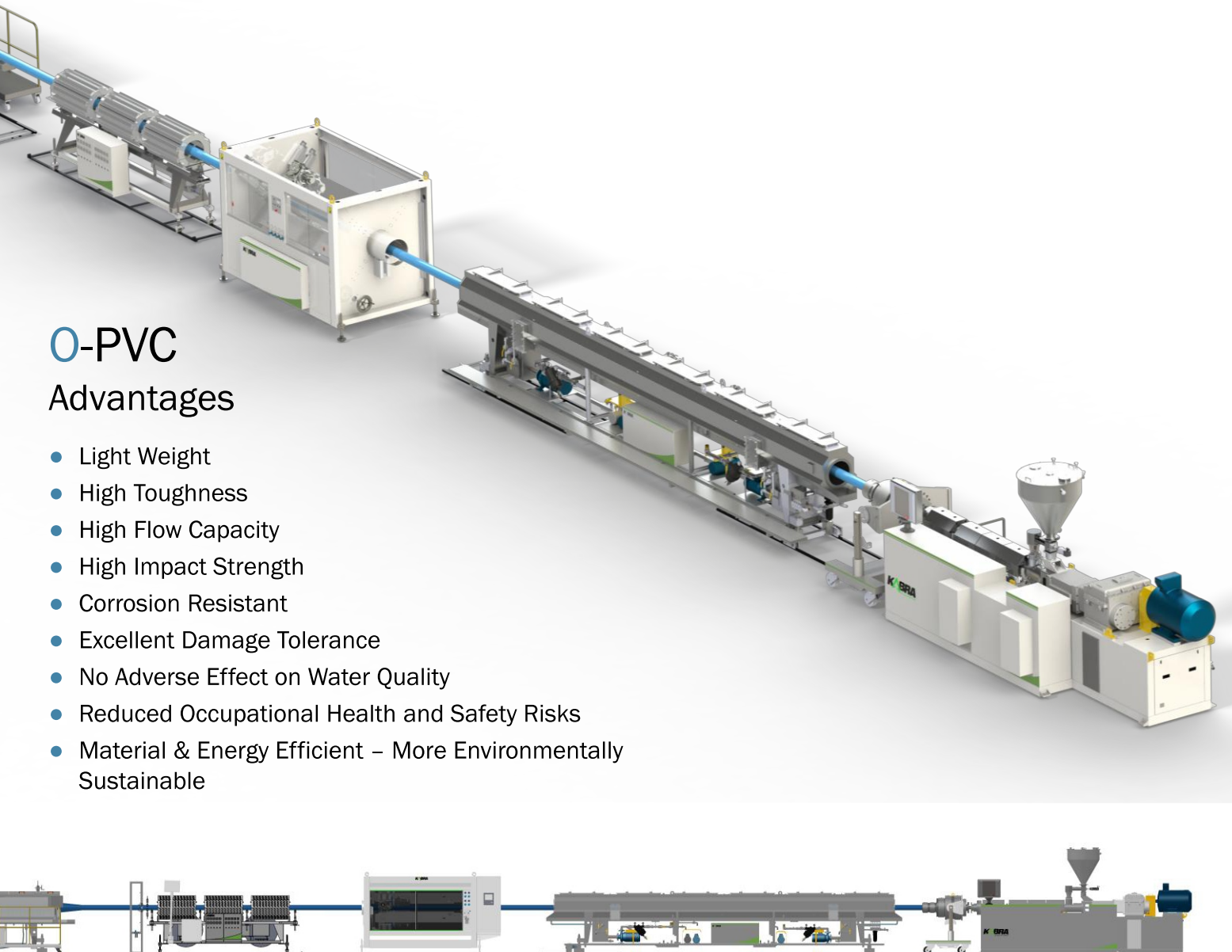
Model	Pipe Range (DN)	Pressure Class (PN)	Throughput Capacity (kg/hr)	Expansion System	Belling
OPEX 350 / 250	110 - 250	12.5 / 16 / 20 / 25	350	OPEX 250 ES	OPBELL - 250
OPEX 550 / 250	110 – 250	12.5 / 16 / 20 / 25	550	OPEX 250 ES	OPBELL - 250
opexSTAR 550 / 400	160 – 400	12.5 / 16 / 20 / 25	550	OPEX 400 ES	OPBELL - 400
opexSTAR 850 / 630	250 – 630	12.5 / 16/ 20 / 25	850	OPEX 630 ES	OPBELL - 630

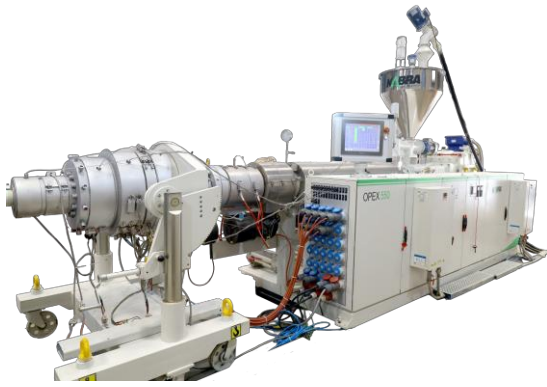
IS Standard :- IS 16647 : 2017, MRS 500/1.4

## O-PVC

### Advantages

- Light Weight
- High Toughness
- High Flow Capacity
- High Impact Strength
- Corrosion Resistant
- Excellent Damage Tolerance
- No Adverse Effect on Water Quality
- Reduced Occupational Health and Safety Risks
- Material & Energy Efficient – More Environmentally Sustainable





## EXTRUDER

### OPEX Technology ULTRA 18

- Best plasticization performance with highest flexibility to process wide variety of formulations
- Best screw wear protection to enhance surface slip characteristics (barrel - screws), reduce wear & increase life
- INTRACOOOL - Internal screw temperature control for energy saving

## DIE HEAD

### OFLEX Technology

- Multi-compression high volume design for high dense micro structure to allow strength during orientation process
- Optimized flow channel for sufficient residence time for better quality end product



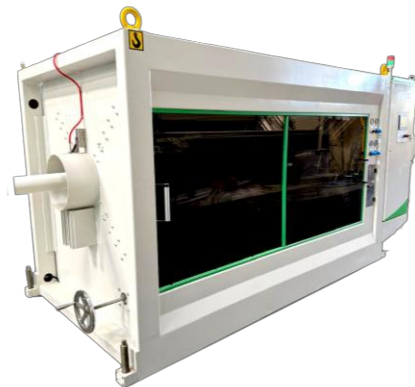
## VACUUM CALIBRATION

- Dual Chamber design with Cold & Hot water spray control for better micro structure & dimensional control of pre-form pipe
- Auto vacuum control system for better sizing of preform pipe



## 1<sup>ST</sup> MULTI-BELT PULLER

- Accurate and constant haul-off speed via servo control for uniform pulling force on each track
- Longer contact length & wider jaw pads to prevent preform pipe deformation
- Synchronous pulling force for pull and push of preform pipe results proper orientation process



## INFRARED HEATING OVEN

- Accurate and constant temperature control of pre-form pipe for better orientation
- Oven designed with energy efficient technology for energy conservation and minimal energy losses
- Provided Multi sensor temperature measuring device for better control of circumferential pipe temperature

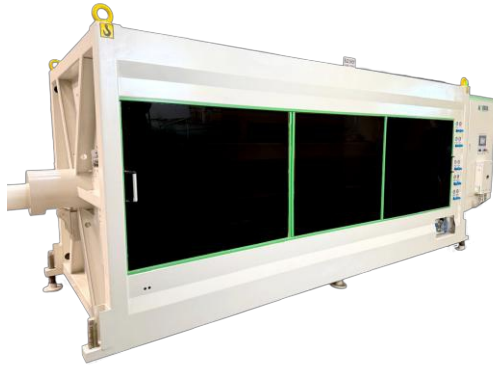
## PIPE COOL TANK WITH STRETCHING MANDREL

- Controlled water flow for uniform cooling of pipe during stretching process
- Multiple flexible nozzles for intensive homogeneous cooling after stretching process
- Temperature measuring sensor device for ease of pipe stretching operation



## 2<sup>ND</sup> MULTI-BELT PULLER

- Accurate and constant haul-off speed via servo control for uniform pulling force on each track
- Longer contact length & wider jaw pads for higher pulling force without pipe slippage
- Synchronal pulling force for pull and push of stretched pipe results in proper orientation process
- Individual control of pneumatic force for tracks to control ovality of stretched pipe



## PIPE CUTTING & CHAMFERING UNIT

- Circumferential saw cutting mechanism for precise cuts at higher line speed
- Swarf removal via effective suction device to facilitate trouble-free pipe for socketing process
- Effective pipe clamping system results in uniform cutting and chamfering



## SOCKETING MACHINE & DEBURRING STATION

- Unique features with an accurate uniform heating system to get better pipe socketing
- Proper facing of socket pipe via deburring station



## CENTRALIZED CONTROL AUTOMATION PANEL

### ULTRA 15

- A central HMI system streamlines operations, enhances productivity and ensures consistent product quality while offering safety and cost-saving benefits
- It simplifies plant management, reduces human error and supports data-driven decision-making, making it an invaluable tool for modern industrial automation via....

- Centralized Control
- Real-Time Monitoring

- Automation & Alarms
- Data Reporting & Logging

- Remote Access
- User Friendly Interface



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