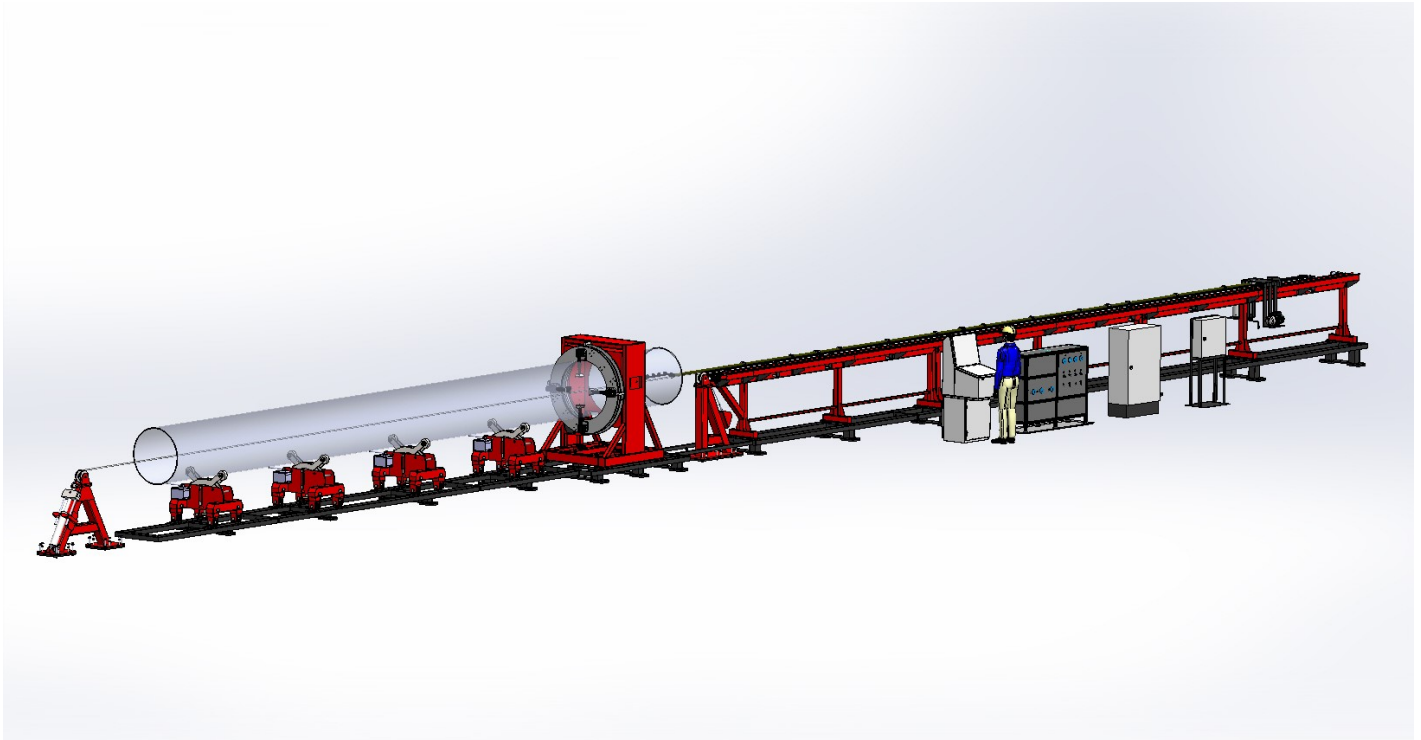


## AUTOMATED DYE PENETRANT TESTING MACHINE



Automated Dye Penetration test machine is PLC based automated system which designed to ensure high quality & reliability in weld overlay products. It used to detect welding surface defects such as hairline cracks, surface porosity, leaks and fatigue cracks in service component.

There will be various spraying Jets for Air, Water, Dye & Developer mounted on torch moving in sync with rotation linearly.

The parameters like Rotational speed, Step over etc will be programmable and controllable via PLC and will have overrides through a hand held Wireless Remote Pendant .

## Machine Specifications

Machine	Auto Dye Penetrant Testing Machine
Method	Water Washable
Pipe range	8" ~ 36"
Pipe length	1.5 ~ 12 m
Rotator Capacity	10 Ton
Rotator Height	150 mm maximum Adjustable
Carriage Travel System	Wire rope
Nozzle type	Full cone , Flat jet & Air Atomizing type
Motion Control	Servo Motors
Spraying Systems	High performance Pump system
Spraying Control	Pressure Input adjustable
Dwell Time	Adjustable through program
Camera	High resolution & High Sensibility
Camera View Angle	90 Deg
Defects Position Locating	Distance & Angle output through Encoders
Defect Size Measurement	Manual ( Through X-Y scales in monitor)
Monitor Size	15" Standard
Imaging	Defects can be snapped & stored manually
Light	Cool white ( 1514 lumens)
Control	Computerized with PLC based HMI
Report Generation	Semiautomatic



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