

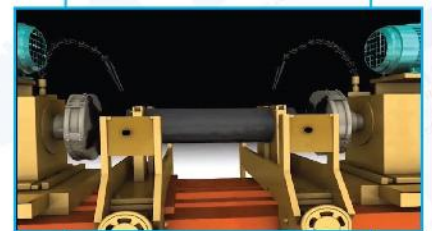
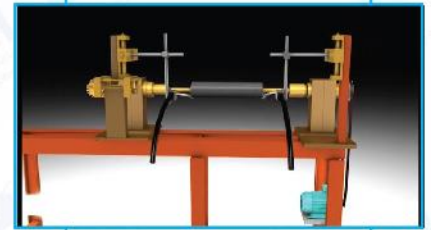
COMPLETE RANGE FOR IDLER MANUFACTURING MACHINES



**IDLER WELDING MACHINE
TWIN HEAD AUTOMATIC PENUMATICALLY OPERATED**



**TWIN HEAD BORING MACHINE
AUTOMATIC HYDRAULICALLY OPERATED**



Idler Assembly



**BEARING/DUST CAP FITTING MACHINE
TWIN HEAD HYDRAULICALLY OPERATED**

* Options for LOADING & UNLOADING - MANUAL OR AUTOMATIC



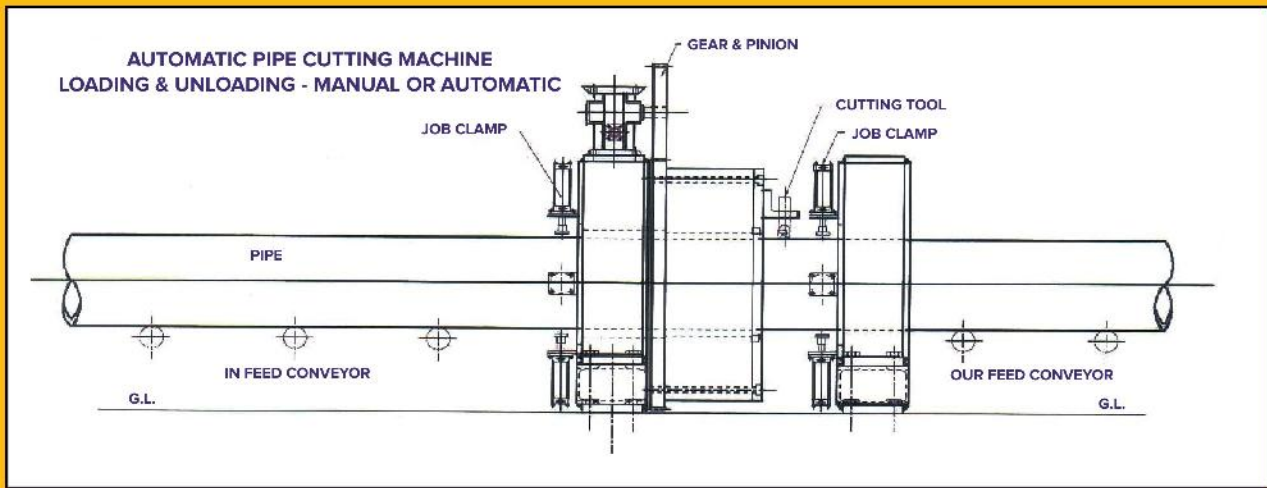
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COMPLETE SET OF TESTING EQUIPMENT FOR TESTING THE IDLER FOR :

- 1 - DUST PROOFNESS 3 - RADIAL RUNOUT
- 2 - WATER PROOFNESS 4 - FRICTION FACTOR WITH DIGITAL INDICATION FOR ROTATION & TIME

TL Pathak Group have manufactured & supplied large number of machines & equipment for manufacturing of Idler, both in private & Govt. sector.

TWIN HEAD IDLER WELDING MACHINES are manufactured in different version. The simplest machine being the one where the loading/unloading is done manually and the job is also clamped manually with the help of hand wheel. Advance version is being the one where the total operation is automatic including loading/unloading & clamping/declamping. In all versions, once the Start push button is pressed, the welding is completed in automatic fashion and the machine stops after predetermined overlap.

TWIN HEAD IDLER BORING MACHINE is a hydraulically operated machine where boring of both the ends of idler pipe is done in automatic fashion with two heads, each having multiple tools. The two heads and tools are adjusted initially depending on the diameter and the length of idler. After which, the job is required to be placed on to the machine and Start Push Button is pressed for automatic clamping, boring of the job to the required dimensions and the job is declamped. The machine is supplied with a Hydraulic Power Pack, without first fill of oil.

AUTOMATIC PIPE CUTTING MACHINE is available in two versions. In the simpler version, the pipe is placed on to the roller of infeed conveyor and is pushed manually till it touches the stopper. The Start Button is pressed which clamps the idler pipe and a cutting tool moves round the pipe to complete the parting operation and the pipe is unloaded manually.

In the advanced version, the pipes are placed on the rack from where it is loaded one by one to the infeed conveyor, which conveys the pipes to the cutting station for parting the pipes to the predetermined length and is unloaded from the outfeed conveyor.

HYDRAULIC PRESS FOR BEARING & DUST CAP FITTING is a hydraulically operated twin head press with the arrangement of adjusting the pressure of the two heads independently so that either both the heads can be used for bearing fitting or one can be used for bearing fitting and another can be used for fitting dust cap or anything else. Depending on the length of the idler, the distance between the piston of the hydraulic cylinder and steady rest can be adjusted.

IDLER TESTING EQUIPMENT is supplied for testing of the idler after assembly. Dust Proof Testing is done in a chamber where the idler is rotated by a motor and in an artificially created dirty atmosphere for predetermined time after which it is taken out for inspection. In case of Water Proof Testing, the idler is rotated in a closed chamber and water is poured with the help of two showers and afterward taken out for inspection. For Radial Run out Test, a stand with steady rest is supplied for mounting of the idler and rotation by hand and a dial gauge indicates the run out. For measuring the Friction Factor, the idler is rotated at predetermined speed by pressure of a rubberized roller which is taken away and the idler under testing is allowed to rotate of its own & digital meters indicate the RPM & time it takes to come to the rest. The data is used to determine Friction Factor

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