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What is the Pipe Belling Process?

Plastic pipe belling is the process of enlarging the end of a plastic pipe to create a socket. This is done to allow two pipes to be joined together using a solvent cement or rubber gasket. Belling is typically used on PVC pipe, but it can also be used on other types of plastic pipe, such as HDPE and CPVC.

To bell a plastic pipe, the end of the pipe is first heated to soften the plastic. Once the plastic is softened, the pipe is placed in the belling machine and a bell is formed by expanding the end of the pipe.

The size of the bell will depend on the type and size of the pipe being belled. Naturally, a bell for a 2-inch PVC pipe will be larger than a bell for a 1-inch PVC pipe.

Once the bell has been formed, the pipe is cooled and removed from the belling machine. The pipe is now ready to be joined to another pipe using a solvent cement or rubber gasket.

Plastic pipe belling is a common process used in various industries, including plumbing, construction, and manufacturing. It is a relatively simple process, but it is important to use the correct equipment and techniques to ensure a good quality bell.

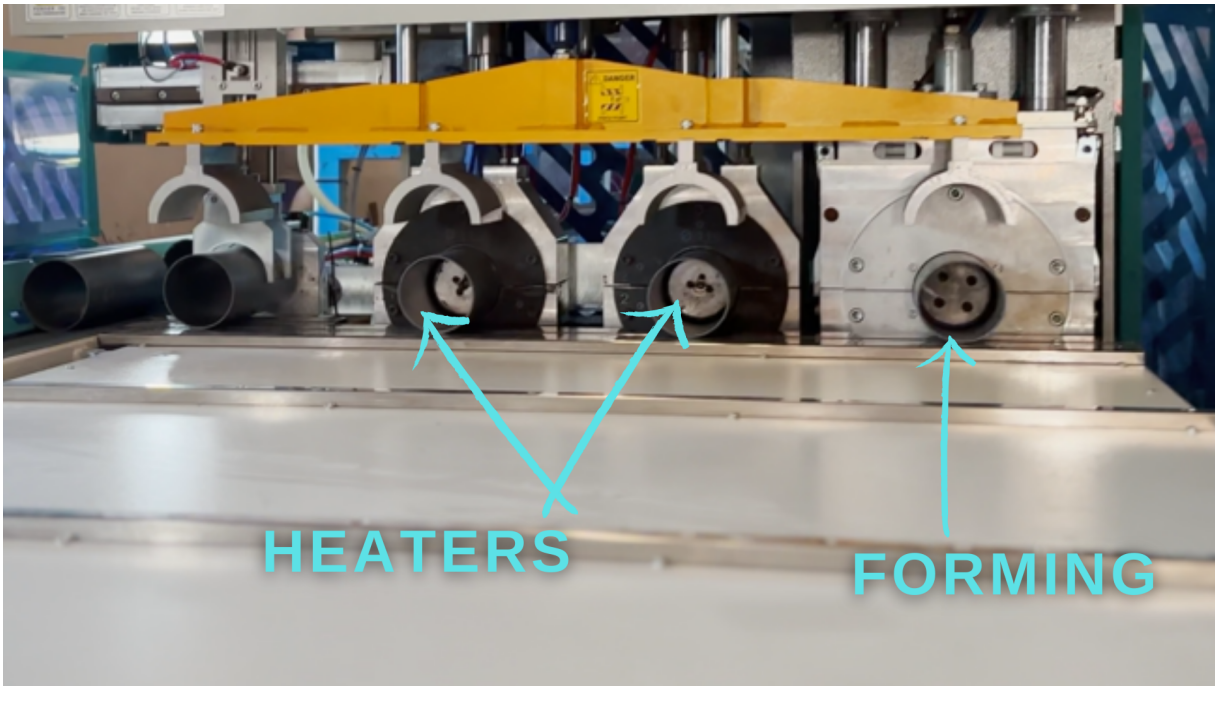
Nowadays new belling machines are fully automated. From the feeding to transfering the heating zones and forming then inserting a seal and packaging is made by automatic belling machines.

FEEDING

The feeding conveyor is able to feed the machine from both sides and able to work online and offline principle.

PIPE STACKER UNIT

HEATING & FORMING SECTION



What Are the Important points of choosing Belling Machines?

Many variants of belling machines basically work with the same principle but the belling process requires certain experiences and simple rules.

Some of the important points of the belling machines are heating and forming systems.

Heating System

Mostly PVC and PP pipes require a Belling form. The heating system is directly related to working materials.

The heating methods are Conductive, Convective, ve, and Radioactive. But this could differ depending on many factors, which the producer should be aware of.

The Outer shell heaters use Conductive heating methods but internal heater probes sometimes choose infrared. Those infrared heaters are on a rotary platform and do not continuously heat the surroundings at all times. This makes thermal waves on a pipe wall. For PVC material it may not make a problem but on PP pipes the heating is not spreading to the pipe wall accurately If the pipe wall is not heated and reaches the molten point. even if there is no problem of shaping at that moment the belling part may become fragile. Sometimes the heat doesn't spread a pipe wall correctly and the pipe is resistant to get back to the old form and the bells shrunk with PP material memory making the shrinking problem bigger.

The same fragile problem might happen in long-term heating or high-temperature heating. the heating method is one of the important cases of belling machines.

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