

AUTOMATION SOLUTIONS FOR WIRE DRAWING INDUSTRY



HMI



KEB VFD



KEB motion controller



Servo drives



Motors



PM servo motors

Increased Production | Repetitive Accuracy

WIRE DRAWING APPLICATION

In a competitive market, reducing production cost and increasing productivity are essential. The equipment installed should have maximum uptime and should be easy to maintain. In wire drawing plants the raw material is steel wire in coil form, from Wire Rod Mill. The entry block is Overhead Take-Off (OTO) where maximum reduction in size takes place, and OTO acts like an accumulator for continuous process. The number of blocks is determined based on final wire diameter required and input diameter of the wire for gradual reduction in size. While the wire is pulled through die, the wire size reduces, the speed increases in the same ratio and the tension in the wire has to be maintained by the vertical drums. Thus at every block the drum RPM has to increase with square of diameter reduction.



APPLICATIONS IN WIRE DRAWING INDUSTRY

Wire Drawing machines

Super fine Wire Drawing machines

Wire Coating machines

Wire Galvanizing machines

Petanting Take-ups

MACHINE AUTOMATION FEATURES

Beside entry of pass schedule from HMI, the operator needs following facilities for convenient machine operation:



Entry inch



Exit inch



Individual Motor selection



Synchronised run

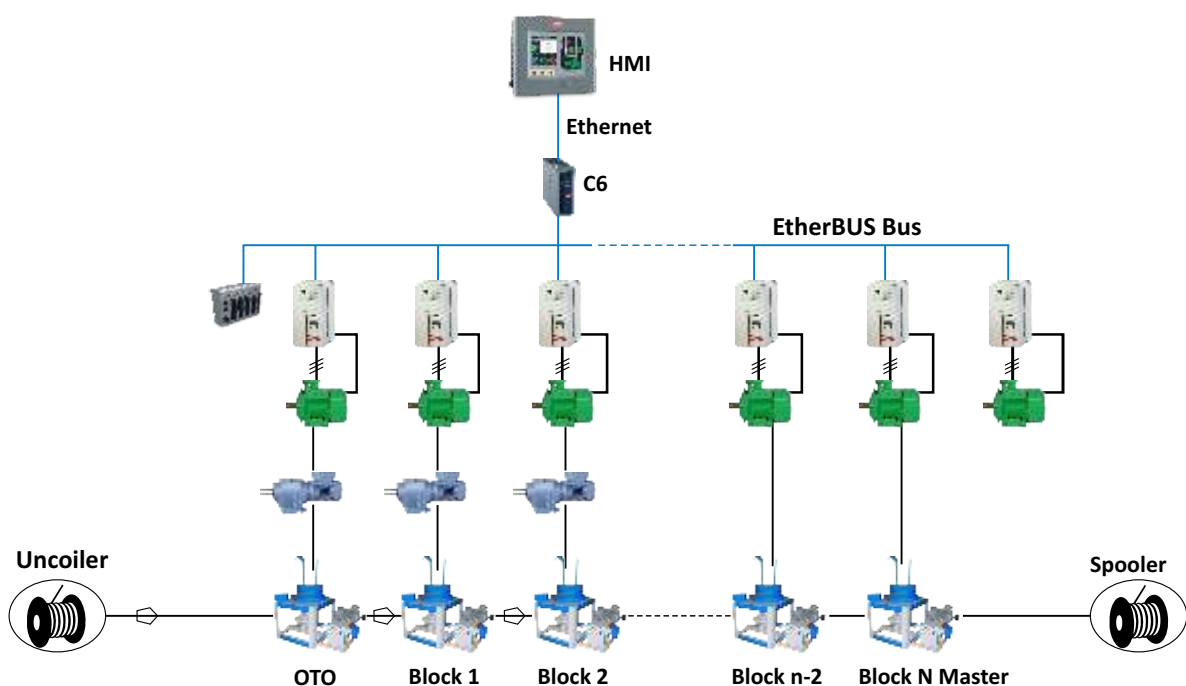


OTO Auto/Manual



Block 1-N bypass selection (N: last Block)

Wire Drawing Machine Automation scheme



WIRE COATING APPLICATION

Tyre bead wire is a high carbon bronze coated steel wire used in tyre industry. The main function of bead wire is to hold the tyre on the rim and to resist the action of the inflated pressure, which constantly tries to force it off. The bead is the crucial link through which the vehicle load is transferred from rim to the tyre. It significantly affects the safety, strength, and the durability of tyres.

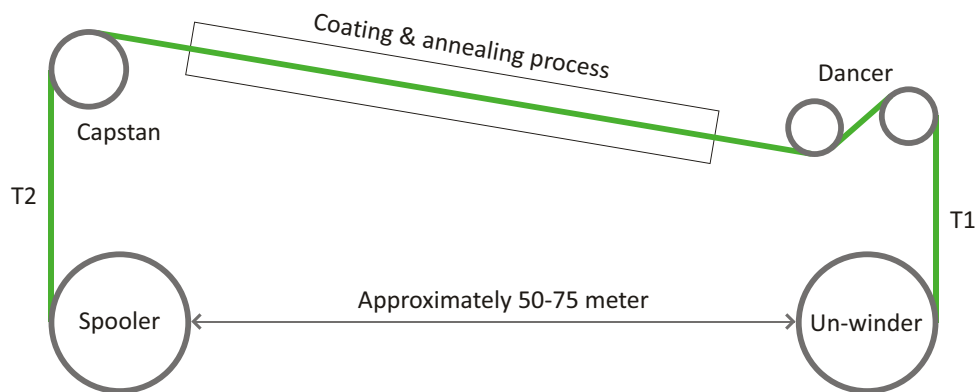
Wire coating machine is used for coating the steel wire with carbon bronze. Steel wire is the output of wire drawing machine.

Basic requirement of coating the steel wire are:

- Uniform and appropriate bronze coating
- Uniform winding and proper coil dimensions



MACHINE DESCRIPTION



PRODUCTS OFFERED BY BHARAT BIJLEE



HMI



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Note: For detailed technical specifications please contact our local sales representative.

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Product improvement is a continuous process and technical information herein is subject to change.