

# THE PROPERZI STAND MODEL 10

: New solution – “ready to be fitted”

## 6 Technology

During the “past” thirty-five years hundreds of Properzi rod lines, equipped with model 7 and model 8 rolling stands, have produced the vast majority of conductors that have shaped our world. After so many years of operations, the model 7 and model 8 stands can be replaced by the model 10 stands.

The new Properzi model 10 rolling stands have been designed “ready to be fitted” into any rolling position currently occupied by a model 8 or model 7 type stand, taking into consideration that the max inlet diameter should be equal to or less than 40 mm.

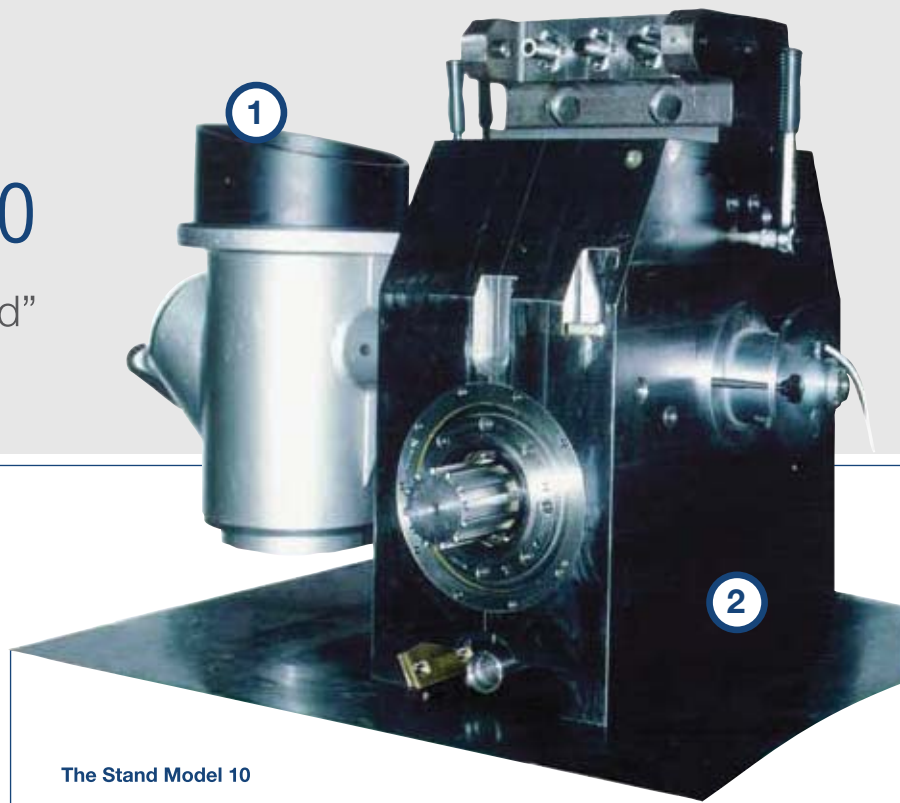
Each model 10 stand is made of two solid steel half-housings incorporating machined clearances to permit placement of work rolls support shafts, work rolls, bearings, oil and emulsion passages and mounting areas for the guides. The two shells are fixed together by robust screws only, therefore the complete disassembling of each stand is very easy and quick, allowing much easier and significative more cost-effective stand maintenance.

The work rolls of the model 10 stands are rings that can be replaced without having to disassemble any roll support shaft bearings, spacers, etcetera.

With the model 10 stand one can make all required work roll adjustments from the outside, simply by operating cams by means of externally mounted screws, without having to disassemble or remove anything other than the entry and exit guides to allow the installation of the special Properzi optical instrument and projecting lamp, supplied together with the stands.



**Optical Projector**  
Detail of the  
graduate scale



**The Stand Model 10**

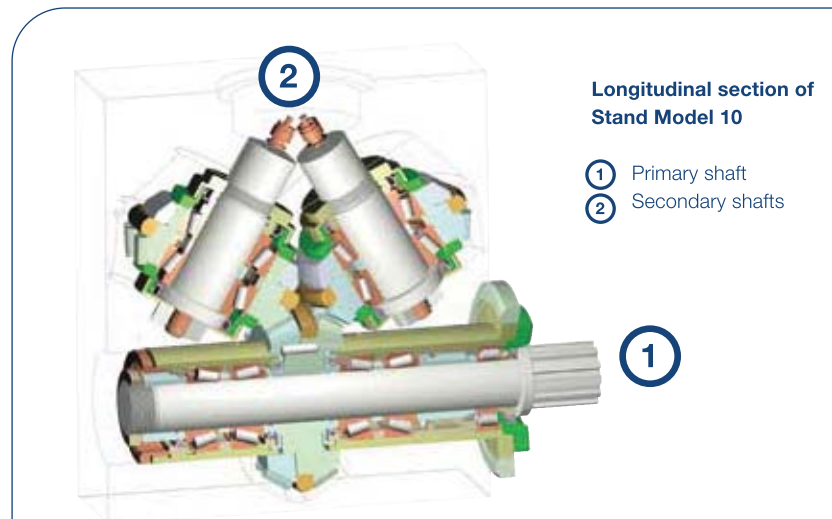
- ① Optical projector    ② Stand body

The optical projector allows operators to obtain exact and repeatable alignment and positioning of the three roll work rolls of each stand, making the method of adjusting work rolls by using plug gauges and individual interpretation obsolete. The shadow of the working rolls, properly magnified, is projected on the graduated scale of the projector screen where the operator can have a feedback of the actual position of the working rolls while operating the calibration screws.

The model 10 stand enjoys all the advantages of the MICROROLLING® design produced in several hundred units and is effective for:

- >> High and repeatable quality of the rod shape
- >> Easy and repeatable calibration
- >> Longer life for rolls and bearings
- >> Short shut down in the unlucky event of cobble formation

Several primary non-ferrous rod producers worldwide, which have been operating for long time mod. 7 or mod. 8 Properzi mills, are already enjoying, with growing success and competitiveness, the advantages offered by the Properzi model 10 rolling stands. *by Carmelo Maria Brocato*



**Longitudinal section of  
Stand Model 10**

- ① Primary shaft  
② Secondary shafts