

## ROUNDO QUICK ROLLING MACHINES TYPE PM

For high production of cyl nders and tubes, the For high production of cyl nders and tubes, the
best solutions very often the ROUNDO Quick Rolling Machine. The features of this macline are:

- Very short rolling times
- Very good roundness tolerances and short straight ends
- Lessdependence on plate qually than other machinetypes
- Nodemand for skilled bending operatorstorunthemachine
- ligh machine performance and bw maintenance costs

The PM-machine is designed to prebend and roll the The PM-machines designed to prebend and roll the very short cycle time.
The two bwer rolls are fixed-positioned, journalled in ball or roller bearings, and driven by a geared motor equipped with a brake.
On most sizes, the lower rolls are equipped with support rolls under their mid-point to reduce the dor
The top roll units are easy to change andt takes a very short time.
The interchangeable top roll unit conssts of an inne non-rotating shaft with joumalled rolls for each different rolling diameter.

Because of this design there is less load on the inner haft and the interchangeable top roll than there would e on a conventionalsold roll, making it possible to roll to smaller dameters.
One end of the inner shaft is ftxed in the machine rame.

The other end is supported from the frame by the yoke of a drop end, which is pneumatically operated to allow the finished cy inder to be manually removed r automatically ejected.
The upper part of the machine frame moves up and down during rolling ands powered by hydraulic
cylinder or cylinders, depending on machine size

Thieterchangeable top rolls are quick and easy to change.

Lifting bar to prevent "double-plate•

SO-tapered O-tapered
inner shaft


## WORKING PRINCIPLE

| CD |
| :--- | :--- | :--- | :--- | :--- |
| The plate is placed |
| on the two lower |
| rolls with the leading Insertplate |
| edge against the aligning |
| stop bar behind the rolls. |

## STANDARD EQU PMENTI IOPTIONAL EQU PMENTI TECHNICAL DATA

Two bwer rolls driven via geared motor with brake geared motor with brake.
Hydrauc adjustment of the top roll.
Quick changeable top roll system including inner shaft and lifting bar/roll.
Ball and roller bearings in all main journals.
Pneumatic operation of the
end yoke.
Pressure ref valve and gauge for adjustment of the working
pressure of the top roll. pressure of the top roll. Portable push button contro for remote control. ncluding emergency stop.

Automatic working cyde
including pneumatic ejection dev ice.
Control panel,including Control panel, including
didal limit swich for digal limit swich for upper
top roll position, timer settings for auto cycle and pressure setting.
hfeeding tabe, motorized or non-motozed. Automatic infeeding system.


Rem: 1) Otherengths on request 2 ) Mild steel whield point $270 \mathrm{Nmm}^{2}$ 3) Depending on 皿te thickness and material quality

## Also from ROUNDO other high speed production rolling machines

Two-roll horizontal urethane machine Type TH


Two-roll vertical urethane machine Type TV


Three-roll vertical short quick rolling machine Type PM-S


Four-roll double-pinch CNC rolls with lifting- and ejection device Type PASS


## ROUNDO

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