

PRO Series

The PRO 300 CNC series rolling machine for gear teeth is one of the most advanced machines of its kind currently on the market. It is a completely new CNC machine, designed for high-precision rolling of gear teeth and knurls.

The advantages of this new technology are clear if compared to conventional rolling machines and to their relating purchase cost. The PRO 300 CNC machine, which occupies very limited ground space, offers complete use functions, a fast and friendly startup, a simplified and low cost maintenance.

Margins achieved with PRO 300 CNC are without comparisons compared to those of a traditional CNC rolling machine. In certain conditions, the machine manages to assure a repeatability in the pad process "pass/no pass" and to assure a margin on the profile of 0.002/0.003 mm

La macchina rullatrice per dentature Serie PRO 300

Technical features

Min diameter knurling tool (mm)	10
Max diameter knurling tool (mm)	50
Max length knurling tool (mm)	80
Minimum diameter incremental rollers (mm)	275
Maximum diameter incremental rollers (mm)	300
Max width incremental rollers (mm)	80
Maximum module (mm)	2
Maximum pressure	2x(400-3600)
Minimum centre distance roller holding mandrels (mm)	225
Maximum centre distance roller holding mandrels (mm)	350
Diameter mandrels (mm)	120
Sizes (mm)	1800x2300x1800
Weight (kg)	5000

Options

1. Each of the drives directly controls a spindle without passing through the constant speed joints. The electronic system auto-detects every placement error of the spindles. The angular positioning precision, an important element for the phasing of the rollers, is considerably higher than the traditional CNC rolling machines.
2. The latest generation CNC equipment can detect the position of the spindles and clear compensation by means of the two servomotors.
3. Comparing the rack rolling method of splines to the PRO 300 CNC, the latter really gets close to the production method of cutting machines.
4. Owing to its innovative design, the service life of the performance offered by PRO 300 CNC is considerably higher than conventional CNC rolling machines.
5. The fact of using rotating tools doubles the yield of PRO 300 CNC compared to a conventional CNC rolling machines.



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