

## **CONTRIBUTIONS REGARDING THE REALIZATION OF A DEVICE FOR ROTOROLLING LONG EXTERNAL CYLINDRICAL**

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**Abstract:** The paper presents some authors contributions regarding the cold superficial plastic deformation process characteristics, using rotorolling as a finishing or hardening technology for long, cylindrical, external metallic surfaces, without sills. It is proposed an original kinematic scheme of a new device, with a rigid contact, unbalanced, with mechanical or hydraulic drive, that can be used in the hardening by rotorolling process. The equipment subsequent execution and experimentation will be able to dignified the advantigies of the process aplication regarding to other technologies used in present, as well as, possible limits admitted by the constructive solution that was adopted.

**Key words:** superficial cold plastic deformation, device, rotorolling, hardning