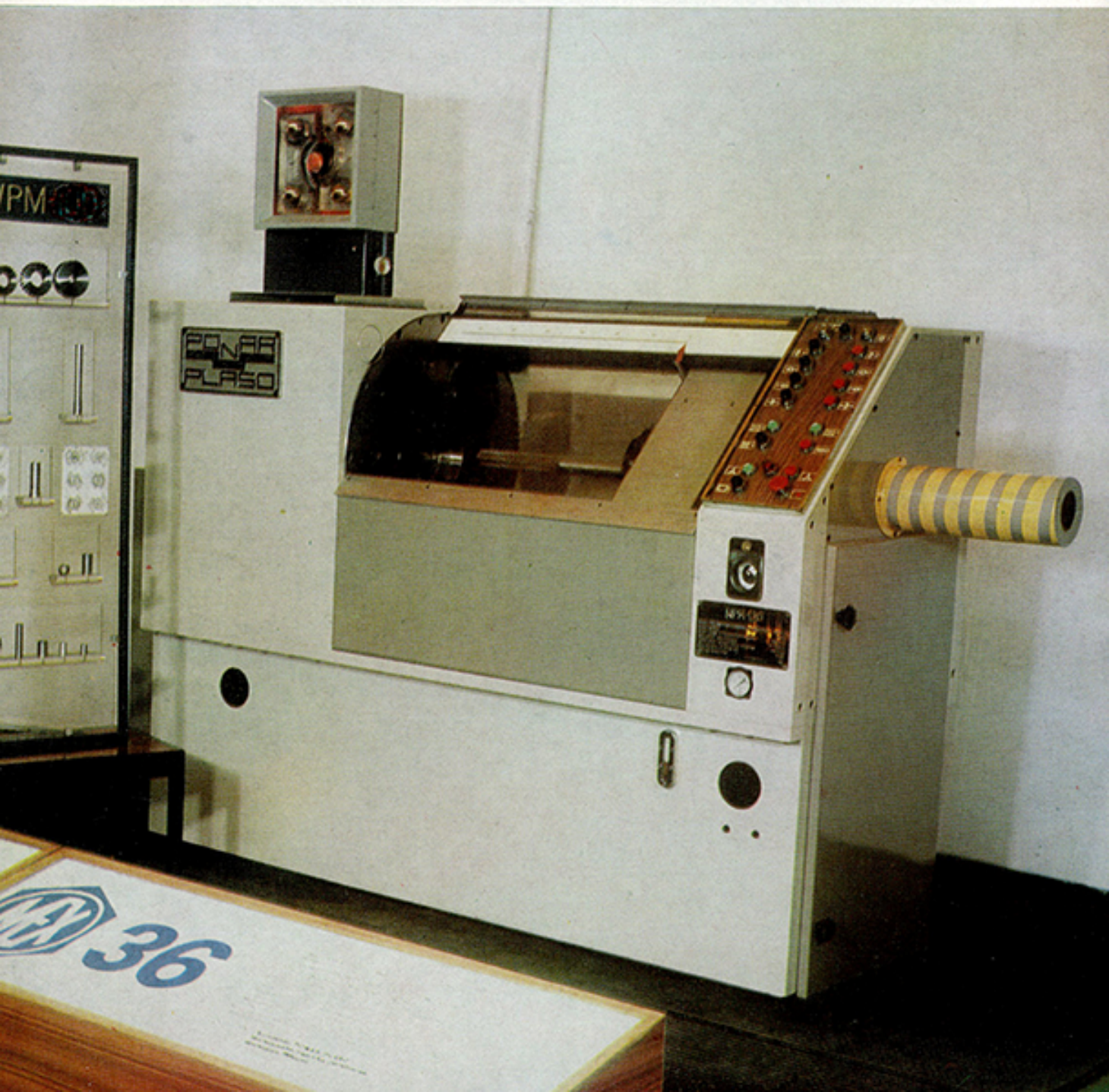




# POLISH TECHNICAL REVIEW



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96/1977



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### Protection of the environment of the KATOWICE Steelworks

The designers and builders of the KATOWICE Steelworks (target production output in 1981 approx. 9 million tons of steel) have made considerable efforts to reduce as far as possible the adverse effect of the various departments of the plant on the environment. Excellent indices, seldom achieved in other steelworks in the world, have been achieved: the emission of dust does not exceed 5 kg/t of raw steel, the consumption of additional water from the river amounts to a mere 1.3 cu.m/s at a total water consumption of 4.8 cu.m/t of raw steel. Treated waste is recirculated to the industrial water, system. Page 16.

### Cold mill

Professor Zdzisław Marciniak and Zenon Kopacz, M.Sc. (Eng.) have developed a new cold rolling method allowing for an accurate rolling of splines. For the development of the new rolling method the authors were awarded the title of Master of Technology. The WPM-120 rolling mill operating by this method was awarded a gold medal during the Leipzig Spring Fair, 1977. Both the method and the rolling mill have been patented in all highly-industrialised countries.

### Camless automatic lathe

The new camless automatic lathe ATD 45 (maximum turning diameter 45 mm) manufactured at the H. Cegielski Mechanical Works in Poznań gives very economic effects for production lots from 100 pieces upwards. It is therefore, for many operations, more appropriate than the automatic lathes with cams. The ATD-45 operates as an automatic lathe when machining bars; it is equipped with a horizontal 8-hole turret head, two side slides and two upper slides. The article on page 4 describes the working cycles and specifications of the lathe.

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