



POLISH TECHNICAL REVIEW



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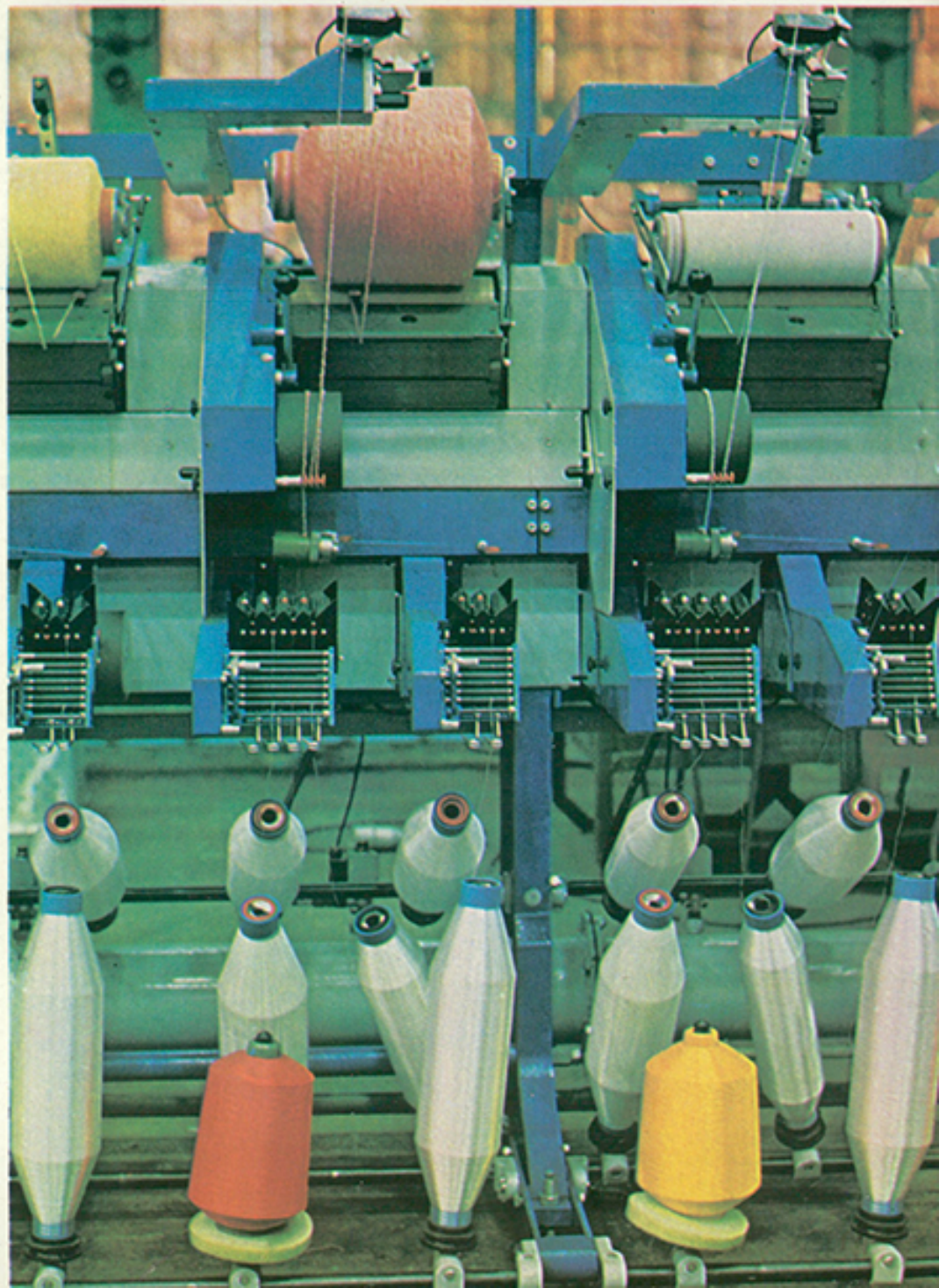
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Technologies, chemicals, textile industry products and machinery

On p. 2 the reader will find a review of the new achievements of the textile industry. The author discusses the method of modifying textiles by means of low-temperature plasma, production of anti-static fibres and flax fancy yarn, the dyeing of jute, manufacture of artificial blood vessels. The review of machinery comprizes a pneumatic texturing machine, two types of spindleless spinning frames, an automatic line for the manufacture of non-wovens (made in cooperation with Malimo, G.D.R.). Noteworthy is the use of computers in the textile industry together with a software system called "kwiatki 77".

Boilers with fluidized bed furnaces

The advantages derived from the fluidized combustion technology in boiler systems have induced the Polish boiler industry to design and manufacture two new types of boilers: the WF-40 water boiler and the OF-80 steam boiler. The boilers can operate on poor coal grades (humidity up to 25%) with a high thermal efficiency. See article by Mr. F. Bachonko cooperating with the Research-Development Centre for Boilers and Power Equipment at Tarnowskie Góry, on p. 16.

New process of catalytic purification of industrial outlet gases

The original Polish method of purifying industrial gases named "Swingtherm" consumes 5 to 20 times less energy than the conventional methods which has found its confirmation in the equipment installed at the Plastic Works in Gliwice where it purifies outlet gases leaving the impregnation furnaces. For details see p. 28

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Cover photo: PY 11 pneumatic texturing machine made by the POLMATEX-MAJED Silk-making Machinery Factory, Łódź

A section of a FNY 40 N N.C milling machine manufactured by the Factory of High-precision Machine Tools in Warsaw (detailed article in no 5/81)

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