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# POLISH TECHNICAL REVIEW



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### Rocking shears

There are various methods and various machines used to divide bar into suitable lengths. The selection of the method depends both on technological factor (ensuring that the sections obtained have the required length tolerance, constant volume and roughness of the surface sheared square to the bar axis without deforming the shearing zone) and economic ones (the available machine stock, production volume, etc). The article on p. 4 presents a new method of shearing bars in type OW rocking shears. The method has been developed by the Institute of Plastic Working in Poznań and is protected by patents. The method and the corresponding equipment ensure high economic effectiveness and excellent technical parameters.

### Shaping coated sheets

Bent sections, due to their lightness, strength and the fact that they are easy to assemble are ever more commonly used in the metal industry and building. Plastic forming of thin sheets with an anticorrosive and decorative coating requires the use of special processes. The method and the automatic shaping lines developed by the Institute of Plastic Working in Poznań have already application in Poland and in other countries. For construction and technological details see p. 6.

### Waste-heat boilers

The need of rational use of energy has resulted in an increased use of highly efficient waste-heat boilers. Such boilers have been designed in the factory in Tarnowskie Góry belonging to the MEGAT Union. In the metallurgical industry, waste-heat boilers are adapted for operation with open-hearth furnaces, heating ones and steel converters. In the chemical industry they work in sulphuric acid factories, installations for the recovery of sulphur from hydrogen sulphide, installations for methanol, a methane decomposition plant and a nitrogen acid factory, in sulphur mining (hot water boilers for the underground melting of sulphur), in the glass-making industry, etc. The article on p. 8 deals with Polish-made waste-heat boilers.

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