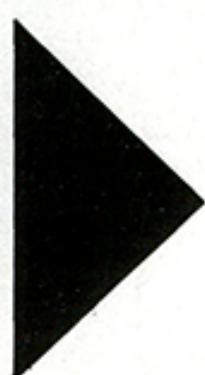




POLISH TECHNICAL REVIEW




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EXPORTER OF POLISH
MACHINE TOOLS, TOOLS
AND ENGINEERING
EQUIPMENT



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CONTENTS

Knee-and-column vertical milling machine	2
Kneelss vertical milling machine	4
Rotary-table surface grinding machine	5
Multi-position steel melting set	8
Continuous casting of copper and copper alloys	10
Ammonia nitriding and sulphurization	12
Welding rectifier	13
Holography in practice	13
New fishing vessels - seiners	14
Ring spinning frames	16
Laboratory apparatus for water quality control	18
Automatic double-sided veneering machine	20
Sanding lines	21
NEW BOOKS	20, 21
ECONOMIC SURVEY	22
IN BRIEF	6, 7

New machine tools

Three articles present the latest productions of the Polish machine-tool industry, i.e. a type FYJ40RN knee-and-column vertical milling machine and a type FYF 50 kneelss vertical milling machine, both of them being numerically controlled, and a type SAB-100 rotary-table surface grinding machine. Furthermore, from the export programme of Metalexport we show the PZC 32 N2 universal semi-automatic chuck-centre lathe numerically controlled, made by PONAR-WROCLAW Automatic Lathe Factory. Turning diameter over the bed 560 mm, over the carriage 320 mm, turning length 1000 mm. Two turrets: upper one of eight positions while the lower of four. Motor 30 kW. Weight 6000 kg.

Multi-position steel-making unit

A new type of a rotary-table unit based on a 6-ton arc furnace fills the gap existing in electrical steelmaking (particularly suitable in small works, foundry melting plants incorporating highly mechanised casting lines) and is suitable for use in conjunction with a continuous steel casting plant. The benefits resulting from the use of the above unit are a shortened melting time, a decreased electric power consumption, a decreased cost of investment, a lower electrode consumption, a service life of the lining increased in comparison with that for conventional electrical steelmaking plants of a comparable output.

Continuous copper and copper alloy casting

The article discusses a number of new Polish designs in the above field, among them being the semi-continuous casting of ingots, and the continuous casting of oxygen-free copper, lead brasses, strip of copper alloys difficult to be processed in the hot condition, and of copper alloy bushes and rolls. The application of the above-mentioned manufacturing processes in the Polish non-ferrous industry involves a number of technical and economic benefits and improves working conditions.

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