



POLISH TECHNICAL REVIEW



4-5

116-117/1979



POLISH TECHNICAL REVIEW

PUBLISHERS OF TECHNICAL PERIODICALS FOR THE CENTRAL TECHNICAL ORGANIZATION (NOT)
00-950 Warsaw, ul. Czackiego 3/5. P.O.B. 1004. Tel.: 39 11 99. Issued in English, French, German and Russian

CONTENTS

METAL TREATMENT

Heavy-duty table-type boring and milling machine	2
Numerically controlled spinning lathe	3
PAN-160 automatic hydraulic press for accurate punching	4
Automatic tapping machines	5
Automatic press feeder for thin metal strips	6
Screw top holder (patent)	6

SHIPBUILDING

POLFISH	7
Self-supported vertical hoist for floating units (patent)	9

MOTORING

Motor inter-city and tourist coaches	10
Caravans	12
Self-discharging trailer	14
Device for the control of hydraulic tipping mechanisms (patent)	15

BUILDING MACHINERY

Truck cranes of the BUMAR system	16
--	----

MINING MACHINERY

Longwall shearer-loader	19
Personal methane detector	20
Hydraulic tractor of a mining machine (patent)	20
Hydraulic tractor with closed circulation (patent)	21
Hydraulic shifter of scrap conveyors (patent)	21

ELECTRONICS

Production and exports of the tele-electronic industry	22
New techniques of the manufacture of electronic component pottings	23
A ceramic base for thick-layer integrated circuits	24

MEASURING-CONTROL EQUIPMENT

25 years of the Institute of Fundamental Technological Problems	25
---	----

BUILDING INDUSTRY

KOMOBEX builds in the G.D.R.	26
IN BRIEF	18, 21, 28
ECONOMIC SURVEY	28, 29, 30
Index to advertisers	31, 32

In our next issue:

- Polish copper industry
- Shipbuilding
- Continuous desugarization of molasses

Metal treatment

The present issue which appears directly before the opening of the 51 Poznań International Fair deals with an extensive range of subjects including those connected with metal treatment. Noteworthy is an article on a heavy-duty table-type boring and milling machine, a good example of the production and export possibilities of Ponar-Zawiercie, a specialized combine manufacturing heavy-duty machine tools. The section of machines for metalforming includes an article on an automatic hydraulic press for accurate punching and a numerically-controlled spinning lathe. Page 2.

POLFISH

For many years now, the Polish shipbuilding industry has occupied a leading place among fishing vessels manufacturers. The latest offer of this industry has been enlarged to include land-based and floating fishing units (fishing fleet, a port with technical back-up for the servicing of ships, fish storage and processing), a matter of particular interest for the developing countries. Page 7.

Longwall shearer-loader

An interesting achievement among mining machinery presented in the current issue is a new mining combine used for work at caving and stowing longwalls, 1.8 to 3.5 m high, in cooperation with scraper conveyors and various types of mechanized longwall supports. The combine features a number of new design solutions described in more detail in separate articles. The Polish shearer-loaders have contributed to a substantial concentration of mining and labour output growth in Polish collieries which occupy one of the leading places among world coal producers and exporters (200 million t per year).

Programmatic Council: B. Dowejko, L. Drecki, S. Gruzewski (President), Z. Kotarski, Z. Makowski, L. Olejarz, E. Szwarc, K. Warchol, S. Werewka, A. Hanftwurcel

Editorial staff: A. Hanftwurcel (editor-in-chief), J.L. Toeplitz (assistant editor), S. Hilscher (managing editor), I. Chmielewska, J. Wolf, E. Karska, Z. Schellenberg, A. Witkowski

English version: E. Karska

Graphic layout: F. Barącz

Production manager: A. Dzielulska-Kijas

Advertising section: T. Pachnowski

Cover photo: Truck crane of the BUMAR system mounted on a Polish-made STAR truck chassis (Photo B. Steinborn)

Photos in the issue: KAW, M. Bednarek, B. Steinborn

Subscription orders should be addressed to the Ars-Polona-Ruch, 00-950 Warsaw, P.O.B. 1001, Krakowskie Przedmieście 7 or to one of the representatives of this company abroad. The annual subscription rate (12 issues) amounts to US \$ 24.- or the equivalent in other currencies. In the socialist countries catalogue prices of the local distribution centres apply.

Printing office: ŁDA Zakład 2, Typo - zam. 325/79

INDEX No 36915