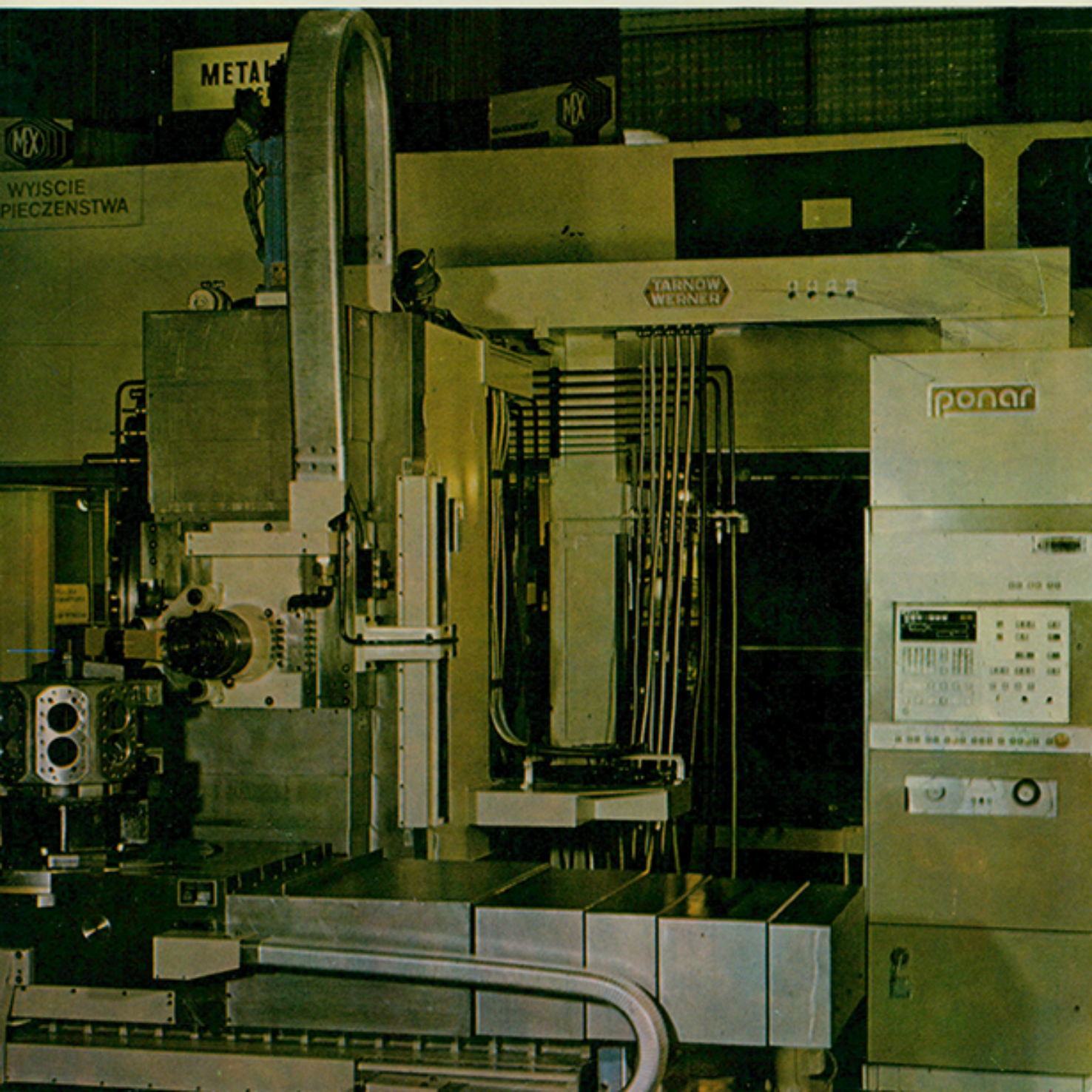




POLISH TECHNICAL REVIEW





POLISH TECHNICAL REVIEW

SIGMA

SIGMA PUBLISHERS OF TECHNICAL PERIODICALS AND BOOKS FOR THE CENTRAL TECHNICAL ORGANIZATION (NOT)
00-950 Warsaw, ul. Czackiego 3/5, P.O.B. 1004, Tel: 39-11-34. Issued in English, French, German and Russian

CONTENTS

MACHINE TOOLS

Machining centre	2
Precision boring machine	2
Universal milling machine	4
A new design of friction plate clutch	5

RAILWAYS

Transport equipment for wheel sets	6
--	---

FOUNDING

SOCOR - a new system of manufacturing castings from aluminium alloys	8
--	---

METALLURGY

Multi-functional drawbench lubrication system	10
---	----

MEDICAL EQUIPMENT

Rapid intermittent peritoneal dialysis	11
Manipulating device for the disabled	12
Encephalovolumeter	12
Telethermometer	13

AVIATION

A new Polish helicopter PZL-Sokół	15
---	----

ELECTRONICS

Software for a data teleprocessing processor	18
A programmable assembly station for making electric connections	20
An automatic soldering unit	21
Generator of strong acoustic fields (patent)	22

ELECTRICAL ENGINEERING

Insulators from a cast epoxide resin	23
--	----

CHEMISTRY

New method of cleaning metal objects	26
Removing nitrogen oxides from exhaust gases (patent)	27
Agent for diffusive protection of wood against insects and fungi (patent)	27

MOTORING

A car fuel gauge	28
A torque meter (patent)	28
Motor-car engine testers	29

BUILDING MATERIALS

Building ceramics drier	30
Building structure to transmit high dynamic loads (patent)	31
Rotary sizer (patent)	31

STATE PRIZES

IN BRIEF	5, 22
----------------	-------

ECONOMIC SURVEY	17, 32
-----------------------	--------

The editors of POLISH TECHNICAL REVIEW, which has been published for 18 years now, wish to inform their readers with great regret that for reasons independent from them our REVIEW has been transformed into a bi-monthly edition (actually, it was started as a bi-monthly and published in this form until 1974). Nevertheless we may assure our readers that we shall do our best not to reduce the total number of articles and news, and we hope that our issues will be more complete and that it will be easier to find in them the material interesting for our readers. As usual, we shall be very grateful for any comments concerning the contents.

Programmatic Council: K. Badźmirowski, S. Gruzewski (President), J. Gwiaździński, B. Łaniewska, Z. Makomski, L. Olejarski, J. Rudnik, T. Wąsac
Editorial staff: J. L. Toeplitz (assistant editor), I. Chmielewska (assistant editor), S. Hilscher (managing editor), E. Karska, Z. Schellenberg, A. Witkowski, J. Wolf
English version: E. Karska
Graphic layout: F. Barącz
Production manager: A. Dziewulska-Kijas
Advertising section: T. Cupryś

Cover photo: TCI-1250 horizontal machining centre produced at the PONAR-TARNÓW Special-duty Machine Tool Factory (see article on p 2)

Photos in the issue: KAW

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 amounts to US \$ 25.20 (£ 14.40) or the equivalent in other currencies. In the socialist countries, catalogue prices of the local distribution centres apply. Photocomposition - Wydawnictwo NOT - SIGMA, Warszawa

Printing office: ŁDA - Zakład 1 - offset, zam. 2325/80 INDEX No. 36915

1982 63/2



P.34.338 II egz.