

May 1948

TECHNOLOGY REVIEW

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ELIMINATE ASSEMBLIES
and
RESULTANT MACHINING COSTS

USE NON-FERROUS
FORGINGS

by

THE **HARVEY**

METAL CORPORATION

HAROLD B. HARVEY '05 • *Engineers & Manufacturers* • SHERRY O'BRIEN '17

74th STREET and ASHLAND AVENUE • CHICAGO 36, ILLINOIS

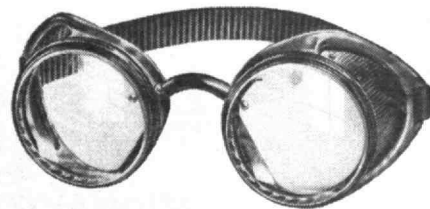
FORGINGS IN ALUMINUM • BRASS • BRONZE • COPPER • MAGNESIUM • MONEL • ALLOYS



HERE'S A BIG EXPENSE YOU CAN CONTROL

**Industrial Eye Accident Costs UP $78\frac{1}{2}\%$
OVER 1939 COSTS**

In these days of rising costs when you put a "tracer of lost profits" on your books, you may see that it isn't only the rising costs of raw materials and labor that eat into your net! Eye accidents throughout industry average more than \$5 *per employed shop worker* per year. You can avoid the unnecessary costs of eye accidents (sometimes represented by 4-figure claims) by installing an adequate eye protection program. Your AO Safety Representative can show you how 98% of all eye accidents can be prevented by such a plan and *how large your savings can be!*



American  Optical
COMPANY

Southbridge, Massachusetts • Offices in Principal Cities

Safety

Division

THE HRO-7C
finest model of
the world's
most famous receiver



OVERALL DIMENSIONS:
Height 29", width 20¾" depth 14¾",
Net weight 95 lbs.

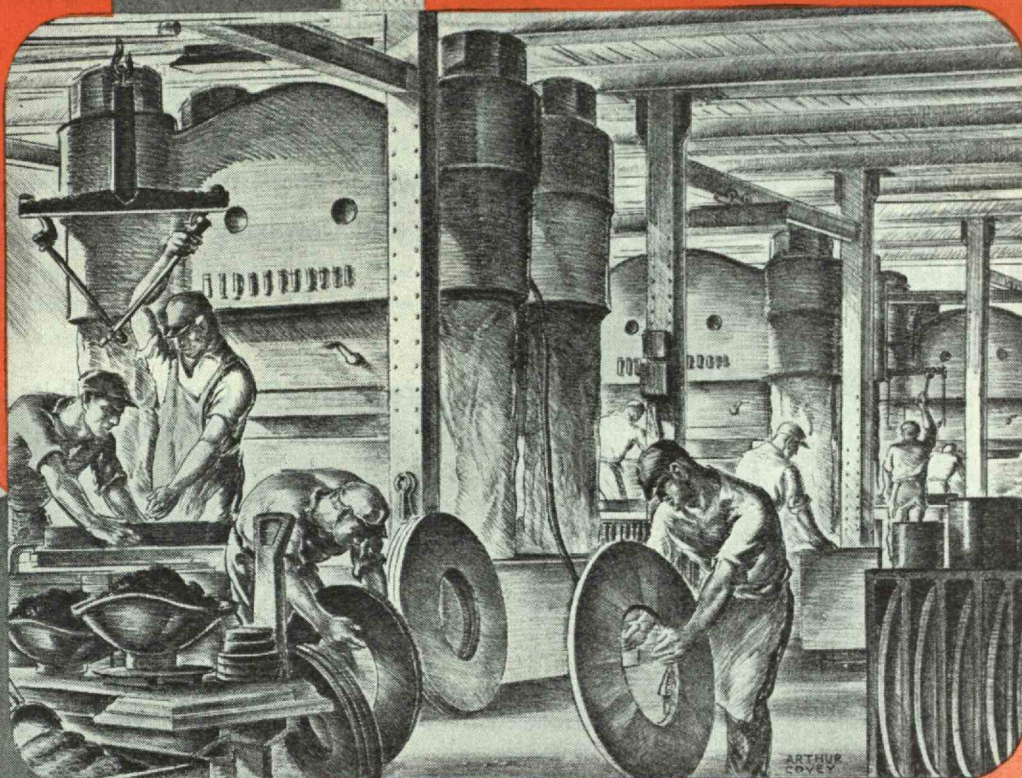
- The incomparable HRO-7
- Power supply
- 10" speaker
- Coils and coil compartment
- All in one convenient unit

\$358⁵⁰

National
©  EST. 1914
NATIONAL COMPANY, Inc.
MALDEN, MASSACHUSETTS

Molding by CONTROLLED STRUCTURE*

A Norton Process That Improves Grinding Wheel Performance



IN these giant hydraulic presses, skilled Norton workers† mold grinding wheels by "Controlled Structure"—an ingenious Norton process which makes possible closer control of the grinding action of a wheel and more precise duplication of that grinding action in wheel after wheel.

"Controlled Structure" is but one of the many developments of Norton research which are constantly bringing to Norton grinding wheel users better grinding at lower cost.

* A patented Norton development.

† Approximately 10% of Norton workers have a service record of 25 years or more.

NORTON COMPANY, WORCESTER 6, MASS.
(Behr-Manning, Troy, N. Y. is a Norton Division)

NORTON ABRASIVES

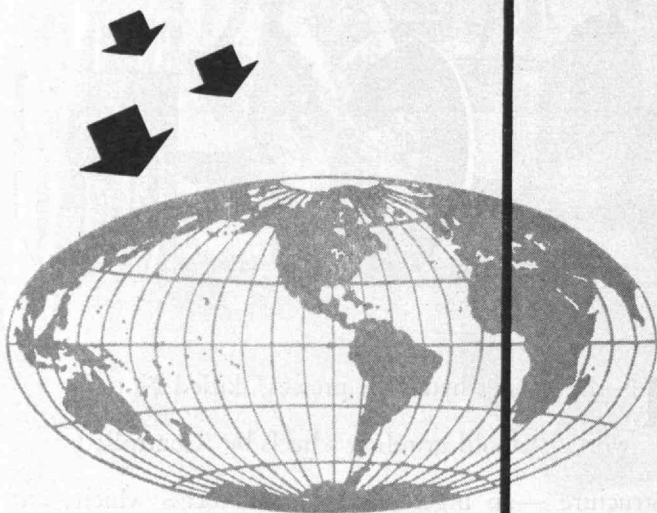
ABRASIVES • GRINDING WHEELS • GRINDING AND LAPPING MACHINES • REFRACTORIES • POROUS MEDIUMS • NON-SLIP FLOORS
NORBIDE PRODUCTS • LABELING MACHINES • (BEHR-MANNING DIVISION: COATED ABRASIVES AND SHARPENING STONES)

**FROM THE
NETHERLANDS INDIES—**

ALL THROUGH EUROPE—

**IN THE NEAR EAST,
SOUTH AMERICA, CHINA—**

ALL OVER THE WORLD—



THE LUMMUS COMPANY
420 Lexington Avenue, New York 17, N.Y.

LUMMUS

CHICAGO—600 South Michigan Avenue, Chicago 5, Ill.
HOUSTON—Mellie Esperson Bldg., Houston 2, Texas
LONDON—525 Oxford Street, London, W. 1, England

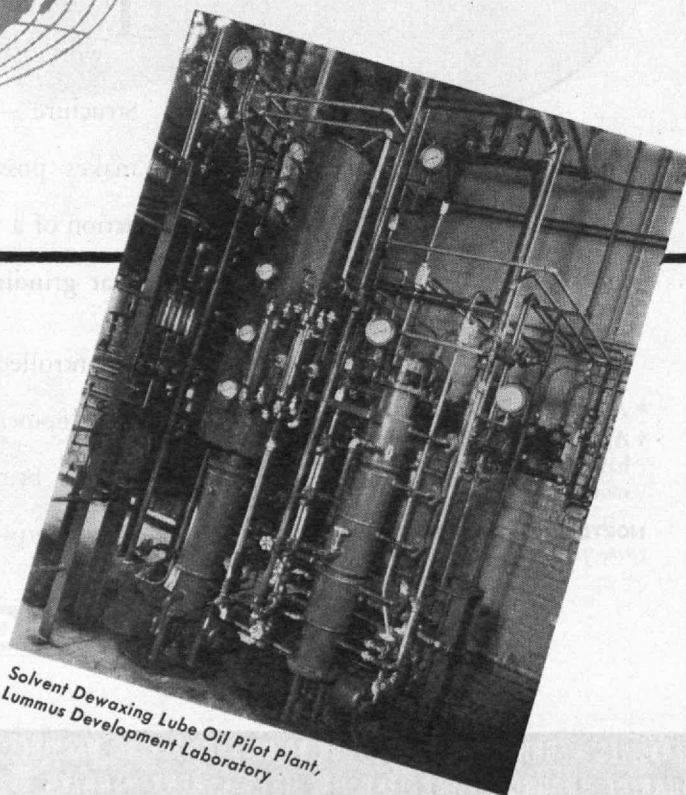
Lummus has built:—

More than 150 Motor Gasoline and 100 Octane Aviation Gasoline Plants.

Upwards of 85 Process Units for Solvent Refining and Dewaxing of Lube Oils.

More than 300 Chemical Units, including complete plants for Ethylene, Butadiene, Styrene, Phenol.

To petroleum refiners and chemical companies Lummus offers an integrated service... engineering surveys of existing facilities... economic studies... pilot plant development... engineering... construction and initial operation of petroleum refinery and chemical plants.

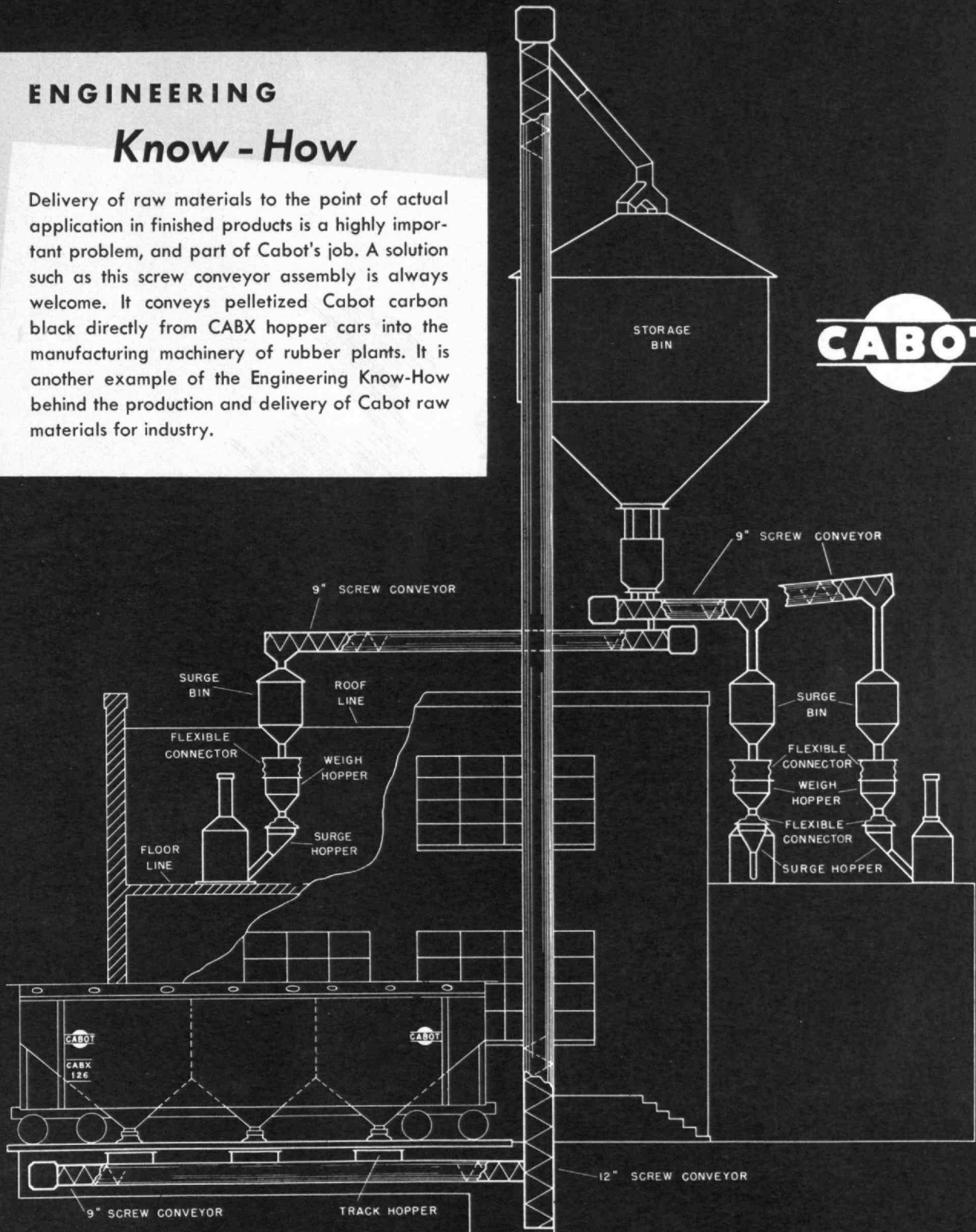


*Solvent Dewaxing Lube Oil Pilot Plant,
Lummus Development Laboratory*

ENGINEERING

Know - How

Delivery of raw materials to the point of actual application in finished products is a highly important problem, and part of Cabot's job. A solution such as this screw conveyor assembly is always welcome. It conveys pelletized Cabot carbon black directly from CABX hopper cars into the manufacturing machinery of rubber plants. It is another example of the Engineering Know-How behind the production and delivery of Cabot raw materials for industry.



GODFREY L. CABOT, INC.

77 Franklin Street, Boston 10, Mass.

Industries Served by TAFT-PEIRCE:

8: Clothing Industry



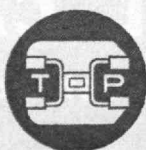
**The
"NEW LOOK"
is an Old Story
since they first took it to TAFT-PEIRCE**

SKIRTS WERE FLIRTING THE SIDEWALKS then, in the early '80s, when the Wardwell sewing machine was manufactured in the Taft-Peirce plant. Then T-P undertook the first commercial manufacture of a machine which developed into modern winding equipment. And from then until now, the Contract Division has tooled or produced (or both) such an odd assortment of jobs for the textile and clothing industries as cotton pickers, cotton combers, braiders, button-hole machinery,

button-making machines, and a host of other devices right down to special tools for modern hook-less fasteners.

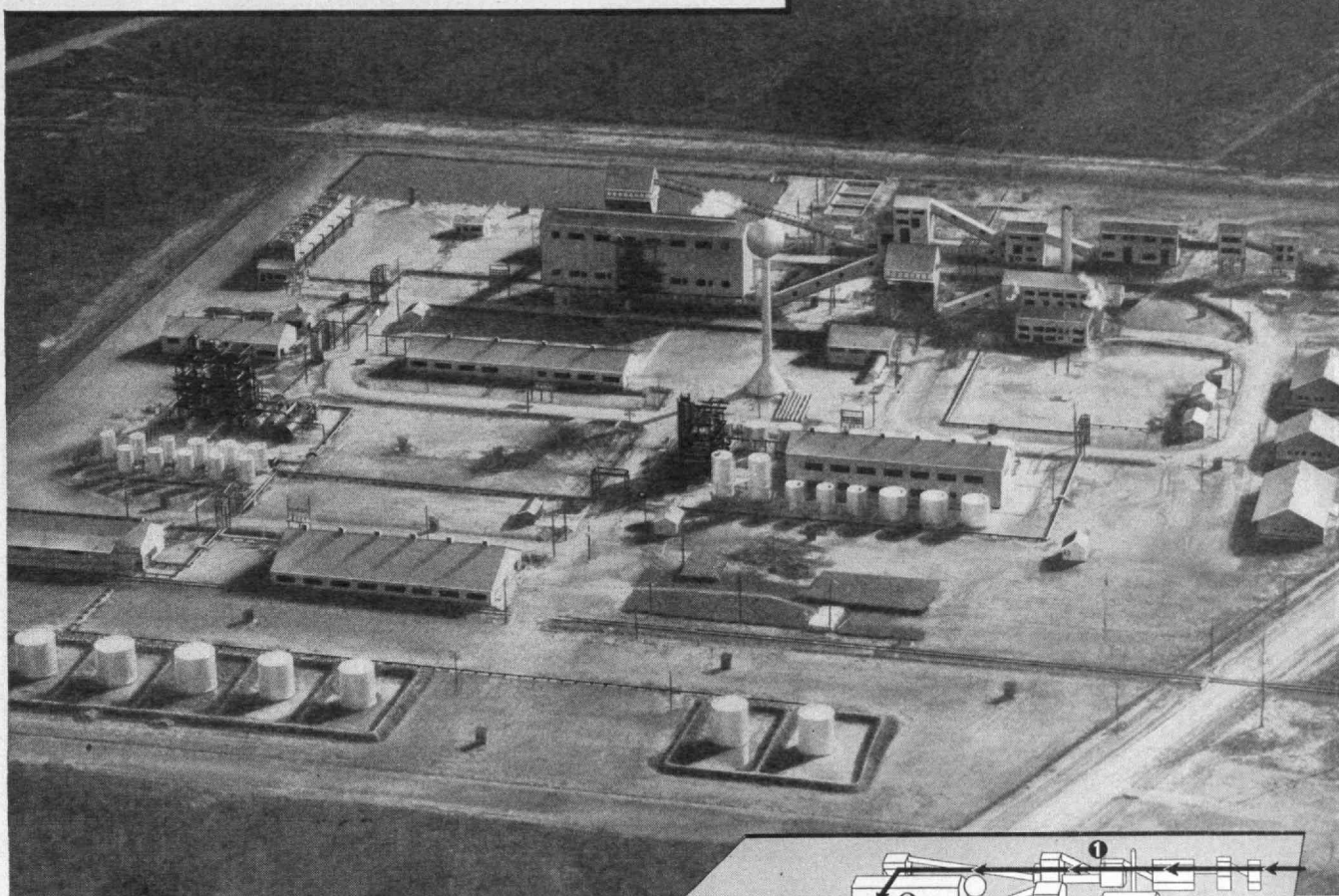
Specialists in textile machinery? Far from it. Say rather that the Taft-Peirce Contract Division specializes in any type of product, in any field of industry, where the manufacturer needs experienced engineering talent, or extensive modern toolmaking and production facilities. You can measure the scope of T-P Contract Service—measure it accurately against your own current needs—by looking through a famous illustrated book entitled: "Take It To Taft-Peirce". Simply write for a copy to: The Taft-Peirce Mfg. Co., Woonsocket, Rhode Island.

**For Engineering, Tooling,
Contract Manufacturing**



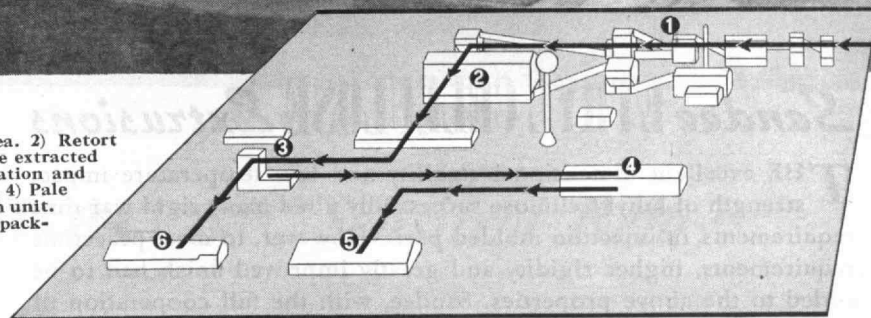
TAKE IT TO TAFT-PEIRCE

DESIGNED FOR PROCESSING



© Photograph by Elwood Payne

1) Wood preparation and grinding area. 2) Retort building where terpenes and rosins are extracted by solvent. 3) Finishing unit for distillation and separation of solvent, terpenes and rosins. 4) Pale rosin decolorization and solution evaporation unit. 5) Rosin packaging building. 6) Oil loading and packaging building.



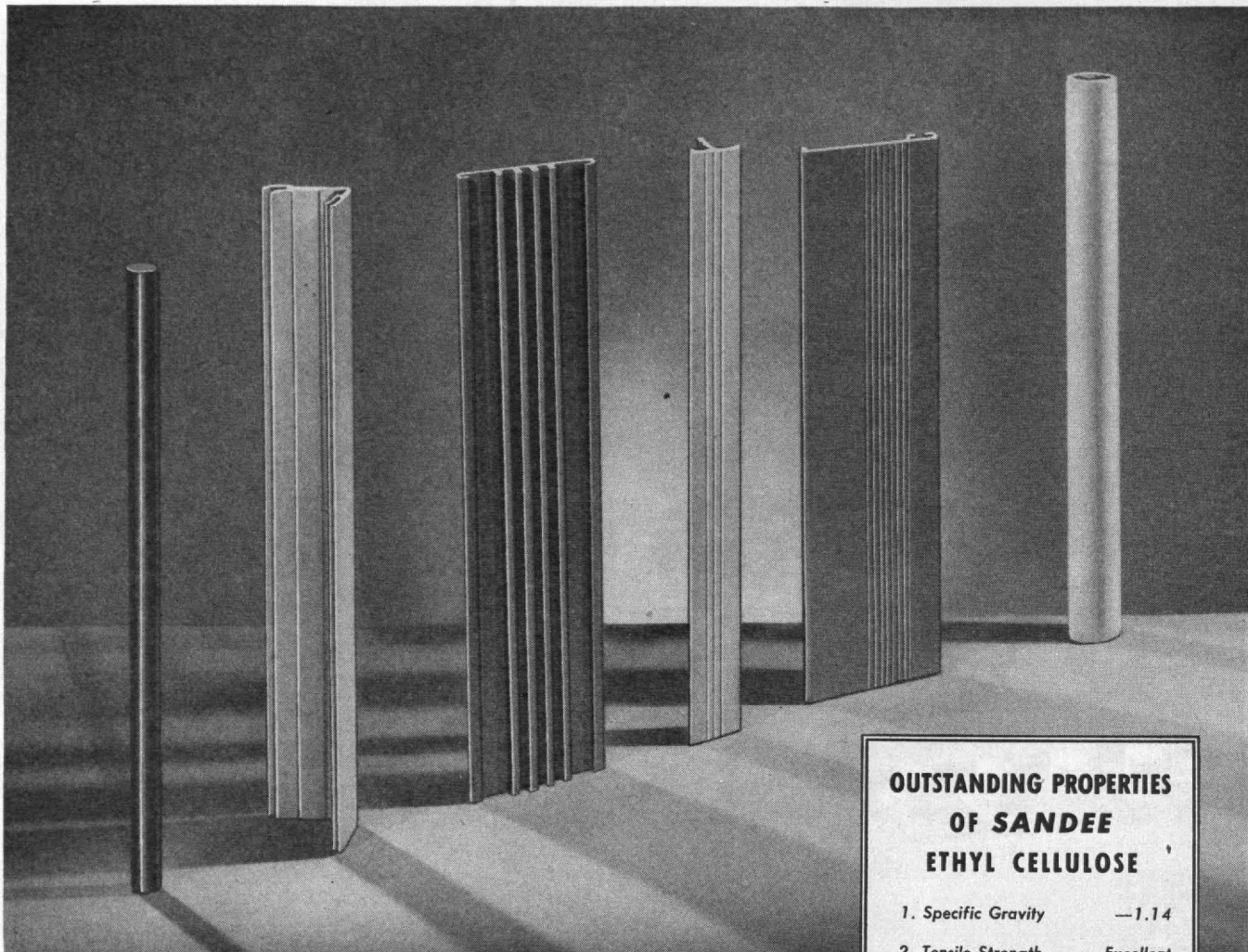
The Naval Stores Extraction Plant for Newport Industries, Inc., at Oakdale, Louisiana, provides for complete processing of pine stumps, from wood preparation to decolorizing rosin and packaging rosins and terpenes for shipment. Newly developed applications of continuous flow processing, and efficient fractionation result in products of the highest obtainable quality.

This plant, with related facilities, was designed and constructed by Stone & Webster Engineering Corporation in collaboration with the engineers of Newport Industries, Inc.



STONE & WEBSTER ENGINEERING CORPORATION

A SUBSIDIARY OF STONE & WEBSTER, INC.



**OUTSTANDING PROPERTIES
OF SANDEE
ETHYL CELLULOSE**

1. Specific Gravity —1.14
2. Tensile Strength —Excellent
3. Impact (high & low temps) —Excellent
4. Heat distortion —170—185°
5. Rigidity —Good
6. Dimensional Stability —Very Good to Excellent
7. Burning Rate —Slow
8. Odor —None to very slight
9. Color —Unlimited
10. Finish —High Gloss if Desired



Sandee **ETHYL CELLULOSE** *Extrusions*

THE excellent dimensional stability and low temperature impact strength of Ethyl Cellulose successfully filled many rigid war-time requirements in injection molded parts. However, to meet peacetime requirements, higher rigidity and greatly improved finish had to be added to the above properties. Sandee, with the full cooperation of material suppliers, can now offer either high gloss or semi-gloss finish extrusions of excellent rigidity and dimensional stability. Rods, tubes, simple and complicated shapes in this excellent modern material can be extruded to meet your exacting requirements. If an extruded plastic can serve, by all means take advantage of our newly enlarged facilities and all the skill and experience of our plastic engineers.

SALES REPRESENTATIVES IN 19 PRINCIPAL CITIES

Sandee Manufacturing Company

5050 FOSTER AVENUE • CHICAGO 30, ILLINOIS

EXTRUDED PLASTICS • AND SPECIAL TOOLS