

LARGEST IN CITY — National Supply, first major covers an area of 700,000 square feet and is located Huge plant, which manufactures oil drilling equipment, area.

industry in the city of Torrance, now is the largest. on a 39 acre plot of ground in the downtown Torrance

Largest Industrial Plant in Torrance Was First In Community; National Supply Moved Here in 1912

A plant that includes 33 machining, heat treating, had plans drawn for what development was continued, principal buildings, with plating, welding, and as- he hoped would be a model and today most drilling is more than 700,000 square feet of covered floor space, on a tract of 39 acres.

A plant that was the first industry in a brand new city and that has grown with that city.

A plant that as grown with that city.

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A plant that was the first design and manufacture of city and that has grown with that city.

A plant that was the first of commercial, and residential areas. His first major sale was not reached until around 1909, the 10,000-foot pany, a manufacture of city and that has grown design and equipment, which had the plant also is geared to commercial.

That is our Torrance tries, such as steel, alumi-ed. plant, the largest plant now num, mining and cement. operated by the National HISTORY OF PLANT Supply Division, and the Construction of the plant largest completely integrat- began when the present City Union Tool had played an 1949, 21,482 feet in 1953. ing plant in the west.

steel ingots and castings, Jared Sidney Torrance compete with the cable and performs such other bought a tract of 2800 acres tools then widely used. Un-

the plant also is geared to outgrown its quarters in Los outgrown its quarters in Los A plant that probably did the manufacture of heavy Angeles. Work on the Union ent, every world's drilling more than any other to ex- machinery and of mainte- Tool Company plant began depth record has been tend drilling depths to new nance and operating equipment for many basic industrownsite had been completion and National rig. The

DEPTHS

ed machinery manufactur- of Torrance was little more important part in develop- 22,570 feet in 1956, and 25, than a promoter's dream. ing rotary drilling rigs, 340 feet in 1958. The plant makes its own Back in 1911, a man named which were beginning to

varied operations as forging, and another of 730 acres and der National Supply, this

Automation Industries Is One of Nation's Largest Suppliers of Ultrasonic Gear

pliers of ultrasonic instru- per second. At first glance economical to "test to de- ovens, heat treating furna extensive facilities in Tor- Ultrasonic as applied to the detection of flaws or castings up to 30,000 pounds

ments and service, Automation Industries, Inc. maintain to industry.

it is difficult to see how this struction" in proving the inphenomenom can be imported to industry.

case, sand slingers, shot blast equipment, and cleaning facilities for producing

rance at 3501 Lomita Blvd. "nondestrictive testing" has, voids, or the lack thereof, By definition, ultrasonics in many cases, revolution- without destroying the part. forging presses, the largest

defines sound frequencies of ized testing procedures. Nor- The technical advantages of which can exert pres-

practical and economically of forgings. feasible means for inspect- The heat treat department ample where ultrasonics flame hardening machines helps industry.

Ultrasonics has aided in testing equipment. detecting defect in super- WELDING EQUIPMENT

craft and missiles. allows critical inspection of a 1200-ampere automatic the material before the cost- welding machine, and three

depths were 16,655 feet in INCREASED DRILLING 1945, 16,668 feet in 1947, 18,734 feet in 1949, 20,521 feet in

> THREE MELTING FURNACES

Torrance has three electric melting furnaces, with capacities up to 50,000 pounds per heat, for the production of steel, and also has a 50-pound induction vacuum melting furnace for special work. The foundry has its own pattern shop, sand One of the largest sup-|more than 20,000 vibrations|mally it is not practical or reclamation unit, coring ents. Ultrasonics permits ing facilities for producing

and efficiencies of the ultra-sures to 1500 tons, as well sonic testing technique ex- as a 12,000-pound drop forgtend to application both in ing hammer and four steam the military realm and in forging hammers. An 11-ton private business or industry, bridge manipulator and a Automation Industries pio-neered the development of chine facilitate the handling

ng drill pipe for the oil in- has 43 heat treating furnadustry. This is just one ex- caes, together with four and all standard harness

sonic and hypersonic air- The weld shop has 73 arc welding machines, with ca-This method of ultrasonics pacities up to 600 ampères. ly process of machining be- 600-ampere semi-automatic welding machines.

Continued Growth Noted at Dow Chemical; Expansion Program Scheduled for Completion by End of June

The Dow Chemical Com-rance has been steady since plastic molding compounds mean expansion of Torrance pany's plant at Torrance is 1953, when production of made from styrene; and Sty-laboratory facilities. During plastics was started here by rofoam, a lightweight plast the past year, for example The latest indication of Dow. During the past two tic foam material with a the laboratory has done exthis came early in 1962, years, for instance, two new long record of successful use tensive development work

when it was announced that products have been added in building insulation and in the polypropylene field an expansion of facilities for to the plant's list: polypro-other applications. using an array of equipthe production of high impact polystyrene was under tively new plastic expected tics. Down also maintains a Plasment installed for that purpose.

to find a wide range of use; boratory at Torrance. Staff Why does the Torrance Leland A. Doan, general and Roofmate, which in es-members of the laboratory plant continue to grow? manager of Dow's Western sence consists of asphalt work with engineers and D. W. Ryan, manager of Division, said the expansion laminated Kraft paper customers throughout the the Torrance production fais expected to be completed wrapped around a 2-foot by West, the object being to cilities, believes the answer in June, 1962. Dow first 4-foot board of Styrofoam. make the most of the prop- to that question has several stated production of high im- For several years, Dow erties and characteristics of parts. pact polystyrene at has also produced two other Dow plastics. In addition,

products at Torrance-Sty-the laboratory works on po-happened here during the Growth at Dow's Western ron, the trademark name for tential new uses for plastics, past decade, and we're opti-Division facilities at Tor- the Dow family of thermo- This last function can also mistic about the future.

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CORWIN D. DENNEY, President ... Automation Industries

Stauffer Chemical Offers New **Color Film on Refining Metals**

Electron beam melting ultra high strengths must and refining of refractory be maintained at temperametals and alloys is the subject of a new 10-minute, 16 mm color and sound film produced by the Metals Diviment, rocket motors, space sion of Stauffer Chemical re-entry vehicles, ejectron-

ics components, high tem-The film details the opera- perature furnaces and cortion of electron beam fur-rosion resistant equipment. naces, in which electrons are The film also illustrates the to bombard and melt precision quality control high - temperature (refrac-techniques required in the tow- metals, such as col-production of refracumbium, tatalum, molybde-tory metals and alloys, num and tungsten to form The new Stauffer Metals specialized alloys for use in film is available for showcritical applications whereing on request.



Automation Industries—on the Move

AUTOMATION INDUSTRIES, INC. has moved its corporate offices to new, larger quarters in Torrance, California, to accommodate its expanded activities. The move follows a pattern of planned corporate development which has resulted in diversification into the following fields:

Ultrasonics

RESEARCH

- Non-destructive testing systems
- Magnetics Microwave equipment
- Electronics
- · Chemical Milling
- Aircraft and Missile structures
- Test Equipment
- Radioisotope flow measurement Sperry Products Division of Danbury, Connecticut is the most recent addition to Automation Industries.

MANUFACTURING

automation industries, inc.

Tulsa, Oklahoma

Divisional Plants In:

Manhattan Beach, California

Boulder, Colorado

Danbury, Connecticut

Oakland, California

Torrance, California

CORPORATE OFFICES

3501 LOMITA BOULEVARD TORRANCE, CALIFORNIA