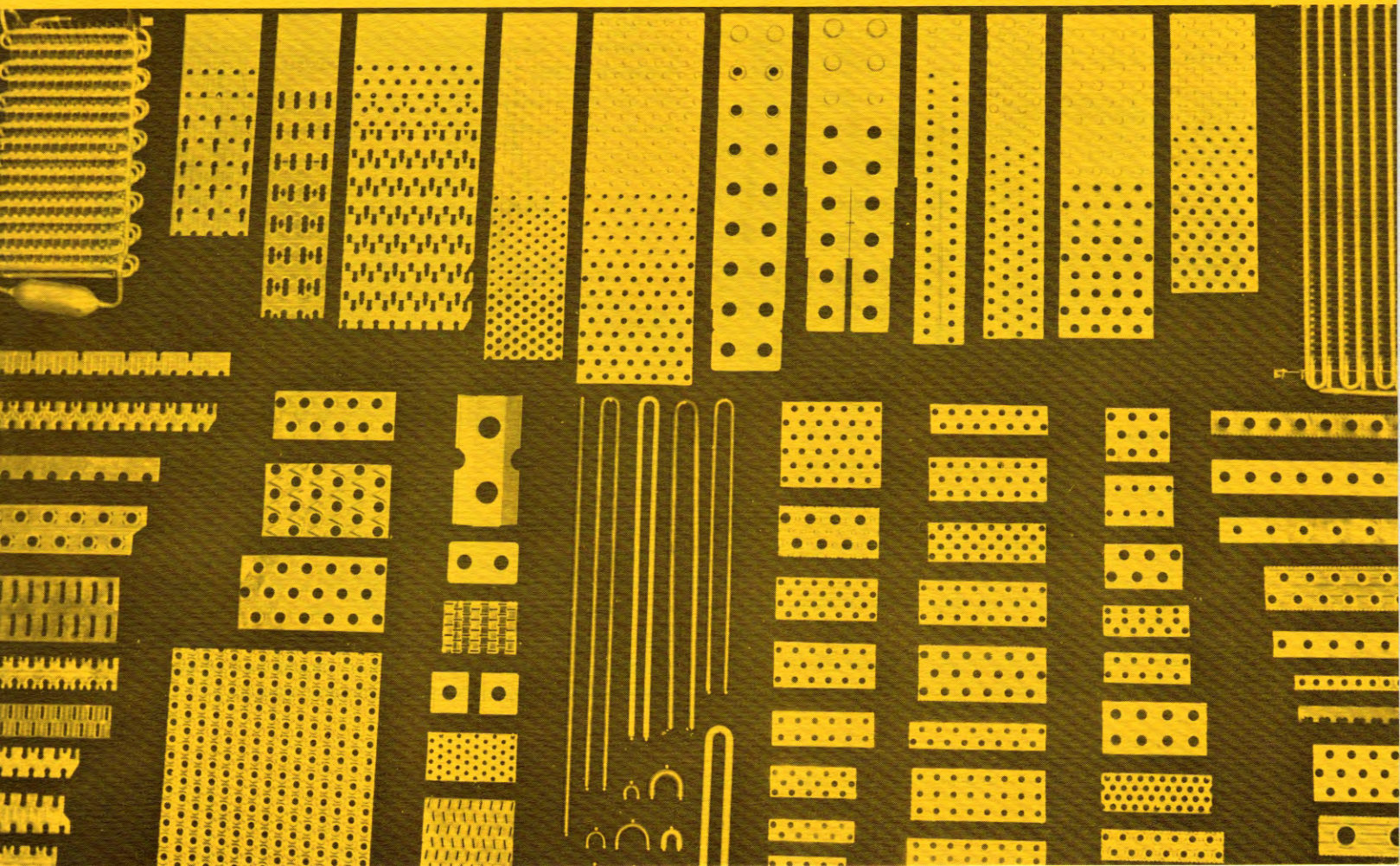
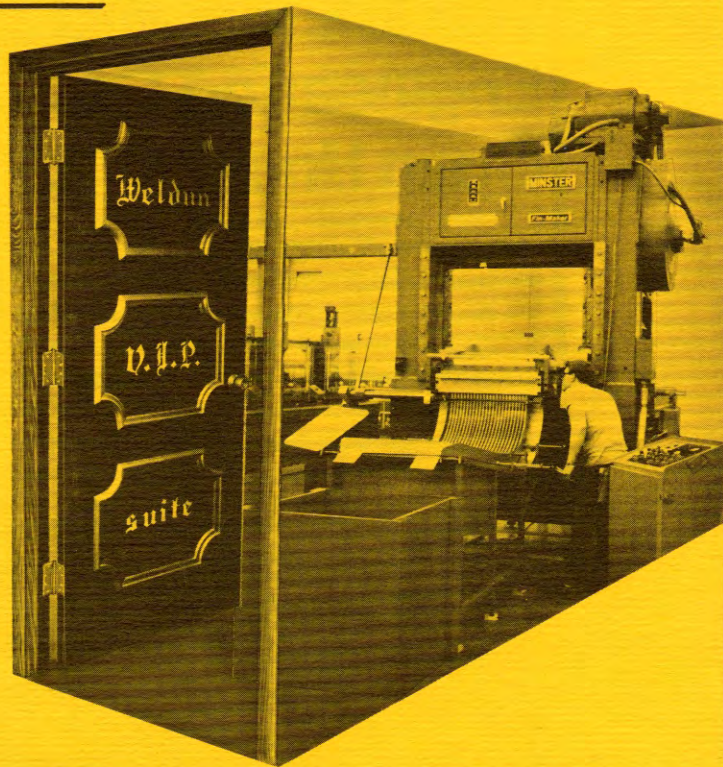


Minster impressions

Vol. 3. No. 1, September 1971



Minster Fin-Maker Press introduced at Weldun Tool and Engineering Co. Open House

Weldun Tool & Engineering Company is a leading producer of fin dies and complete turnkey fin lines for the air-conditioning and refrigeration industries of the world. Executives of major appliance manufacturing companies received the Weldun VIP treatment on May 25, 26 and 27 when the company showed off their new plant in Bridgman, Michigan. Nearly 200 men toured the impressive facilities and inspected the specialized products being demonstrated by Weldun. The Fin Division, which supplies uncoiler, dies, press, feed, stacker and electronic controls in a complete package machine line for the production of heat transfer fins, displayed their newest products and featured the Minster F2 Fin-Maker[®] press.

As an OEM dealer for Minster presses since 1959, Weldun has supplied over fifty Fin lines, each equipped with a Minster P2 Piece-Maker or F2 Fin-Maker press. The first Fin-Maker was furnished to Alcoa for its "450 Process" which uses H19 temper fin material (Minster Impressions Jan. 1971).



Visitors tour press demonstration area at new Weldun plant.

Two Types of Fin Lines

Weldun takes undivided responsibility for designing and engineering the packaged fin line to meet a specific need but Minster works in close cooperation with them in providing the best press for the specific application. There are two basic types of production lines: The "fin-per-stroke" type is limited to manufacture of a single type of fin but provides a higher operating efficiency. It has the advantages of longer die and press life and easier maintenance. The other type, or "ribbon"

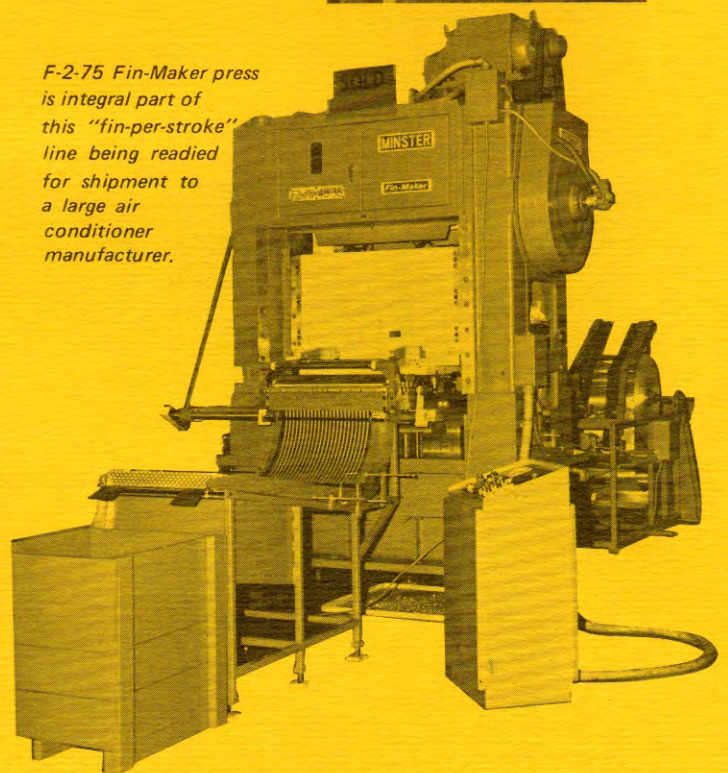


Dan Hillegas, center, Board Chairman of Weldun Tool & Engr. Co., explains his firm's new Chipless Hairpin Bender Cut-Off to Jack Padden, president, and Bill Melnyk, McCord Corporation, Detroit, Michigan.

Mr. Ernest Swayze, Supervisor of Manufacturing Engineering, Carrier Air Conditioning Co., Syracuse, N.Y., discusses Fin-Maker press with Minster representative at Weldun's Open House.



F-2-75 Fin-Maker press is integral part of this "fin-per-stroke" line being readied for shipment to a large air conditioner manufacturer.



line, is more versatile, using but one die for a variety of fin specifications. It can be changed from running a 7 hole fin to a 18 hole fin in just ten seconds by means of a Weldun patented, tape-controlled pull feed which electronically determines the number of holes and their spacing. The new feed can save thousands of dollars annually in reduced labor and material costs.

New Weldun plant in Bridgman, Michigan.



The 70's belong to Weldun

Dan H. Hillegas, Board Chairman and Merlin Hanson, President, of Weldun Tool & Engineering Company, head a unique firm which has grown from a tiny 3-man die repair shop in 1953 to its present stature of 160 employees and total annual sales well over \$4 million. Growth has come through hard work, capability and innovation. Today Weldun has three divisions: The Fin Division produces fin dies, complete fin lines, and special machinery such as its Chipless Hairpin Bender Cut-Off, Tape-controlled Pull Feed, etc. The General Tool Division, started in 1961, builds tools, dies, jigs and fixtures and special machinery

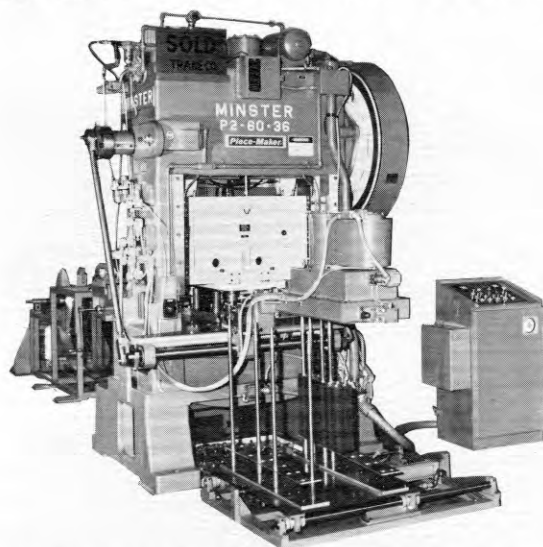
for general industry. The Mold Division, which specializes in complex plastic, zinc, magnesium and aluminum mold dies, was initiated in 1967.

Expansion to New Plant

In December 1970, Weldun moved from Three Oaks, Michigan, to Bridgman, Michigan, where they had built a 53,000 sq. ft. facility to house all their operations. The completely modern plant, with its excellent space utilization, efficient work flow and 20-ton lifting capacity has contributed greatly to the feeling that all employees have that "The 1970's Belong to Weldun". It is allowing the firm to aggressively move ahead in all areas of its business with new ideas and innovations.

Fin-Maker Press Handles Full Range of Fin Dies

The press Minster has developed specifically for high speed, precision production of heat transfer fins is the most rigid and accurate available. To meet the challenge of off-center loading conditions encountered in fin production, this press has a slide with extra long, hand-scraped, solid bronze gibs, spaced as wide as possible front to back and right to left. Connections are also wide-set. The result of this design is extremely accurate parallelism. The "Quik-Access" slide is arranged to provide an immediate 4" lift of the slide for die inspection or die change. A flip of a lever returns the



"Ribbon" line which produces a variety of fin designs from a single die, incorporates a Minster P2-60 Piece-Maker press and Weldun's patented tape-controlled pull feed as its major components.



The newest model of the Minster F2 Fin-Maker press.

slide to precisely its original production position.

Two special pneumatic counterbalances support the weight of the slide and tooling, taking up all bearing clearances and insuring that metal to metal surfaces are in tight contact during operation.

The Minster F2 Fin-maker has a speed range of 200 to 400 spm and handles the full range of fin dies. Smooth, continuous press operation at 400 spm with a 1-1/2" stroke is a job-proven capability. A variable speed drive arrangement with a handwheel at floor level permits the speed to be easily changed at any time.

With its outstanding rigidity, parallelism and special features, the Fin-Maker is the answer to present and future profitable fin production.