



specialised machinery

**Ridat
Engineering
Co Ltd**

The growing use of Plastics throughout all fields of Industry has created a demand for more inplant machines which, although sophisticated in function, do not require highly skilled operators.

All manner of end products are now being used in almost every conceivable form including packaging, display, disposables, industrial, etc.

The use of Plastic sheet has proved to have unlimited applications, and new ideas for its use emerges every day.

Ridat machinery is designed to be incorporated into production line systems and low cost installation and superior operating efficiencies are providing manufacturers with attractively economic possibilities for many types of plastics sheet handling operations.



Ridat Engineering Co. Ltd., is an established Company in the fields of Thermoforming and High Frequency Welding.

Basic models have been evolved for functions of Vacuum forming, Pressure forming, Heat-sealing, Cutting and Trimming, High Frequency Welding and various other auxiliary processes for Plastic sheet manipulation.

With the experience of Ridat designers all models within these categories can be varied to cope with the specific requirements of any production line.



behind the Ridat label

A Skilled and well informed Design Team provide the basis of Ridat manufacturing techniques. Standard model designs are constantly under review to ensure that they are aligned to the most up to date production methods. Machines, for many companies of international repute, with special purpose requirements also help to provide a continuous flow of work for this department.

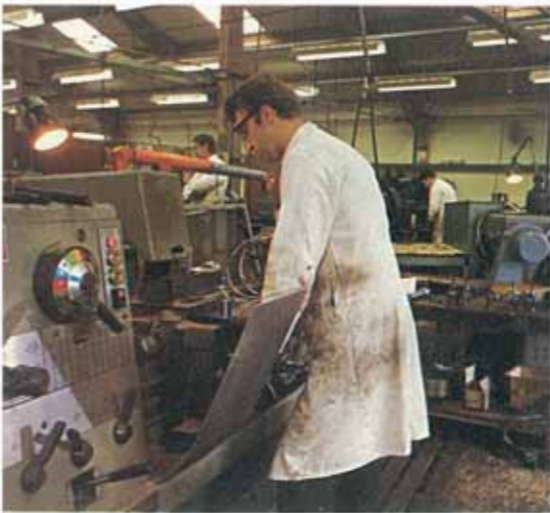
Production and Assembly lines reflect the same degree of skill.

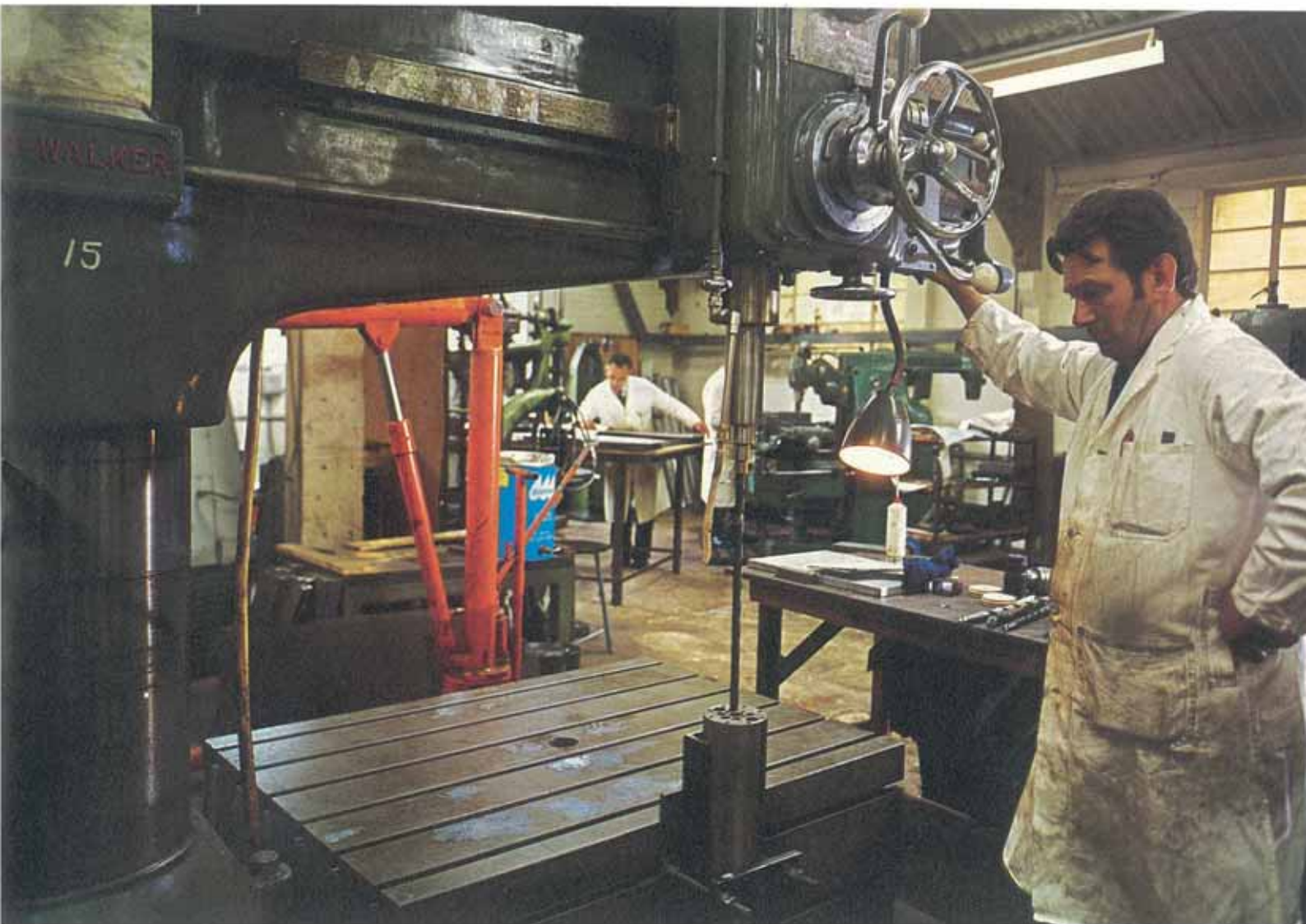
Attention to detail and use of top quality components and materials maintain the Ridat seal of reliability.

The photograph on the left is a general view of the machine shop. High standard Precision Engineering is made possible by the use of modern equipment.

Detailed parts are constructed and inspected on up to date equipment by skilled operators.

The other photographs show machinists at work using some of the precision machines employed in producing the multiplicity of parts required for the assembly shop.





Ridat help to market brand giants

Machine photographed at Giplex

A novel application for the Ridat Super 27 type of machine is the production of preformed polystyrene sections used in the process of preparing grass concrete "foundations", a recently developed system which provides a surface with the attractiveness of a grass lawn and a load bearing capability of concrete...

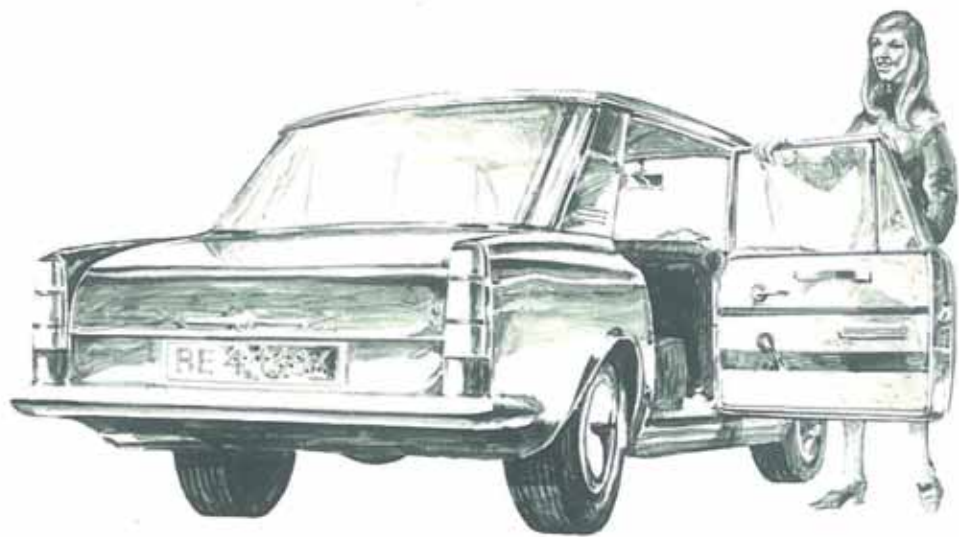
Welding machine at Jupiter Plastics

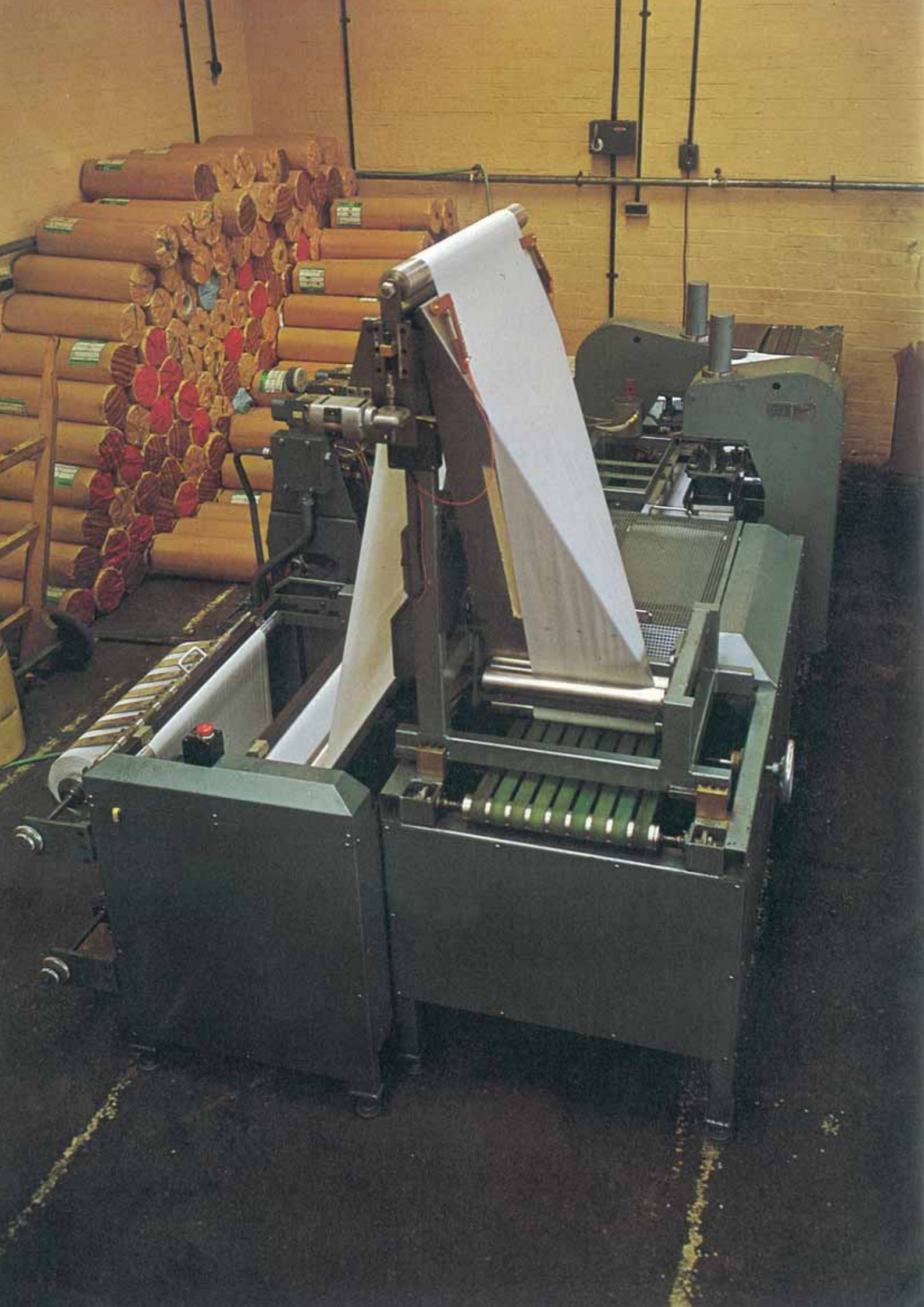
The vast majority of internal door trim panels for automobiles consist of a fibre board, foam, and P.V.C laminate bonded together by means of the high frequency welding process.

The illustration shows a typical Ridat model 5636 welding press used for producing these panels.

Subsequent finishing operations such as edge folding, etc., are also provided for within the Ridat range.







Specialized machinery for industry

Ridat machines are used for manufacturing end products from plastic sheet materials. The large photograph shows a High Frequency Welding Machine built by Ridat for the production of baby pants. Reels of .003 P.V.C. film are electronically guided - folded accurately in half - different shaped holes cut in both halves of the film simultaneously - the P.V.C. film is tearseal welded and the finished Baby Pants conveyed to a stacking position, all automatically, up to 20 pieces per minute.

The small photograph is of another Ridat machine developed specifically for the production of document wallets for suspended filing systems, also by means of the high frequency welding technique.



Ridat thermoforming machines

Basic models of Vacuum forming machines in the Ridat range are designed to give a selection for customer requirements through all stages from manual to fully automatic operation. Machines are available for all standard plastic Thermoforming work, Skin Packaging and Blister making.

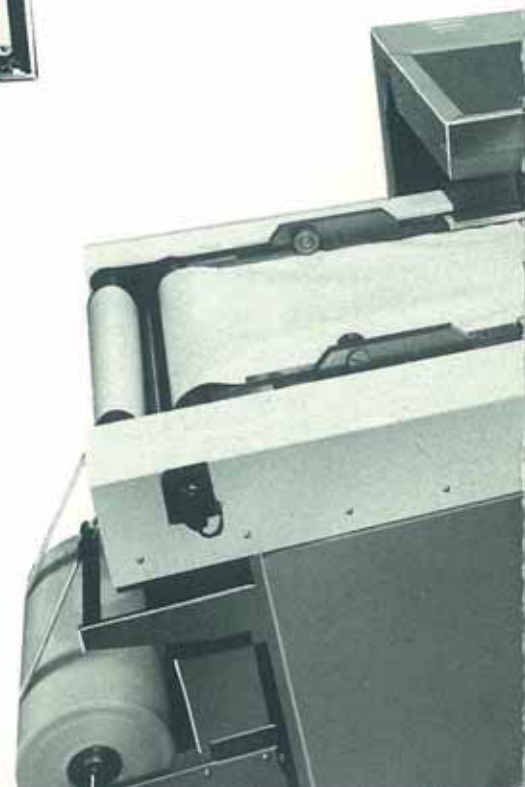
Manual, Semi-Automatic and Midmatic models are available with operating areas of 25" x 21", 31"x 21" and 36" x 24".

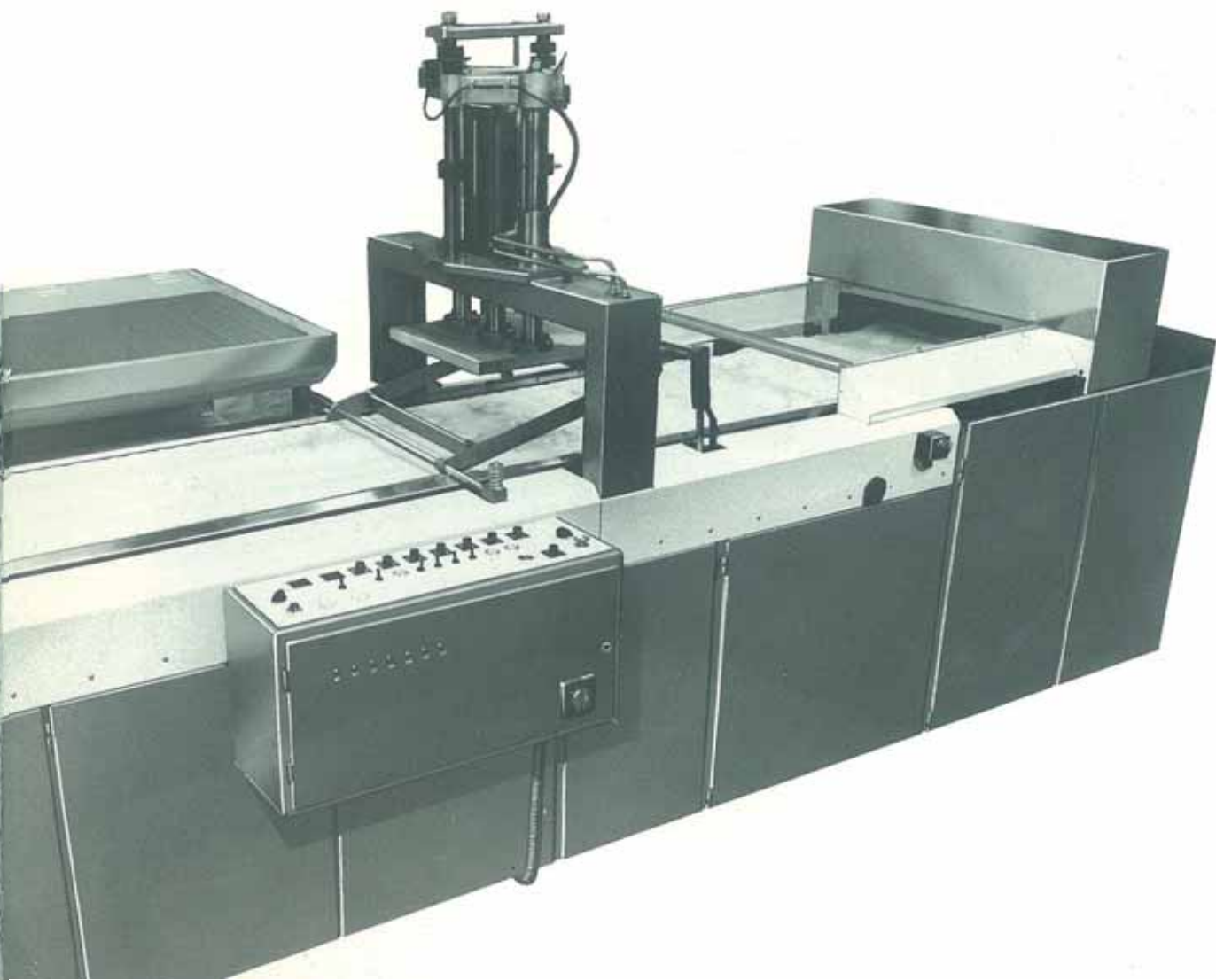
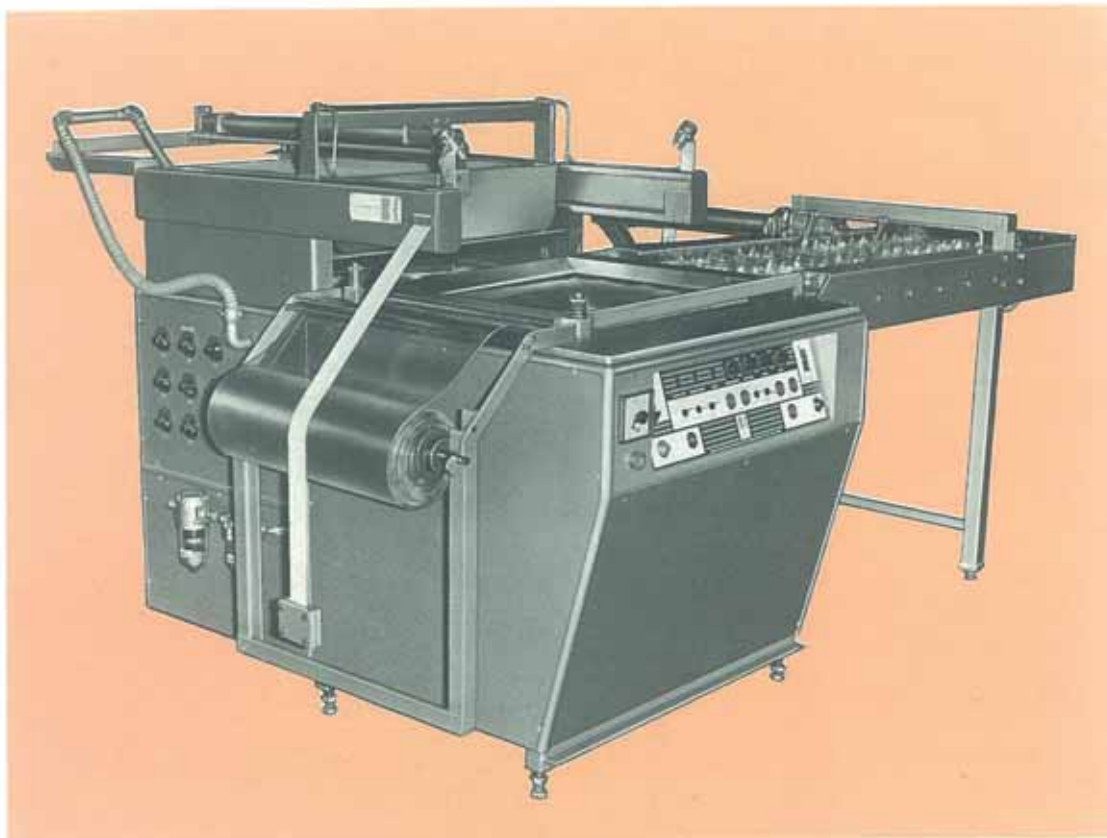
All manual machines have timed heater control and pneumatic clamping.

Semi-Automatic machines have a fully automatic cycle, except for insertion and removal of sheet.

Midmatic machines perform a fully automatic cycle including web separation.

The SUPER Thermoforming models are ultra fast cycling machines in sizes of 27" x 21", 38" x 38" and 50" x 50". These can be fitted with simple guillotine web separation, side trimming cutters, slitting cutters, die cutting systems, etc.





Ridat automatic plastic sheet welders

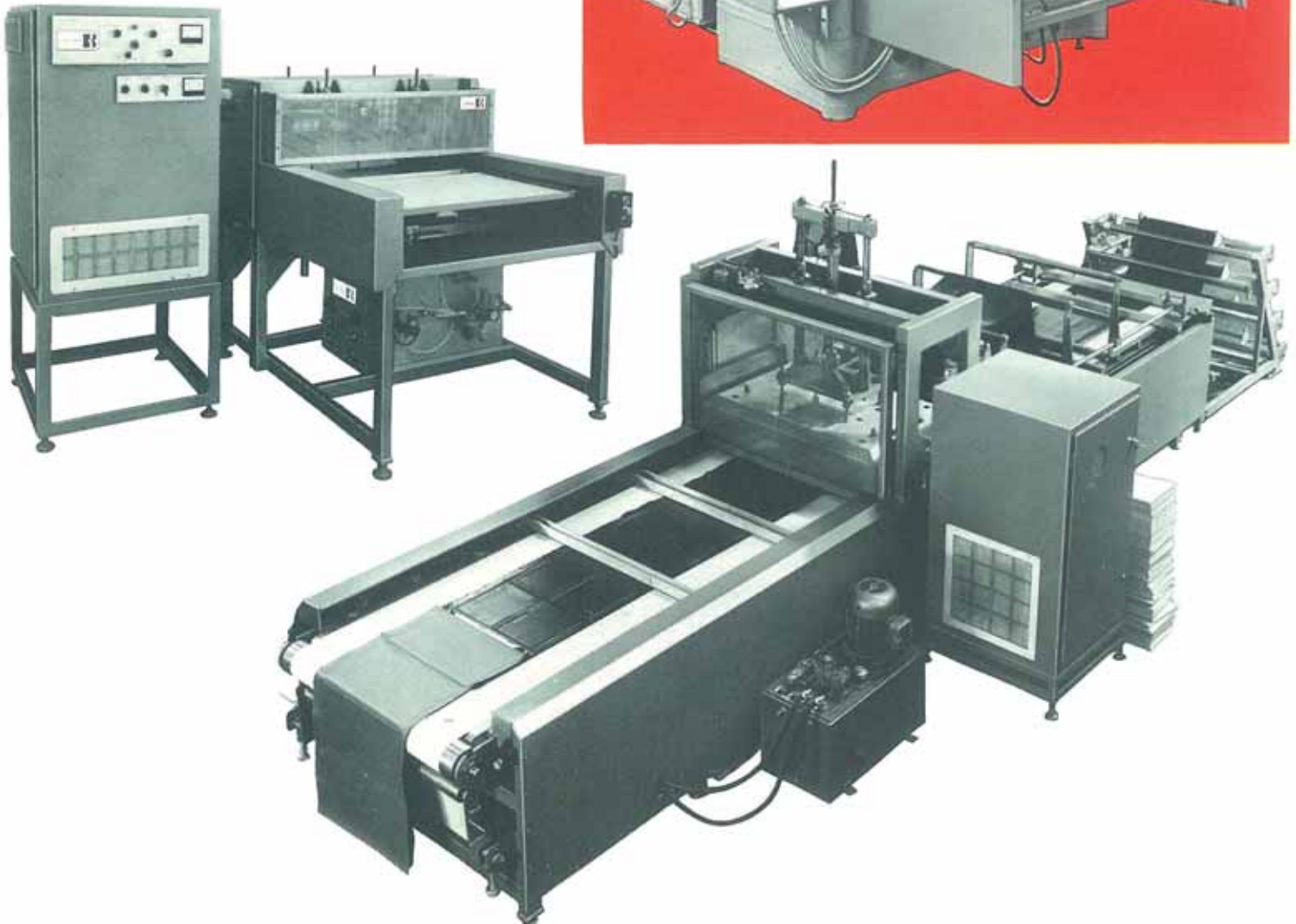
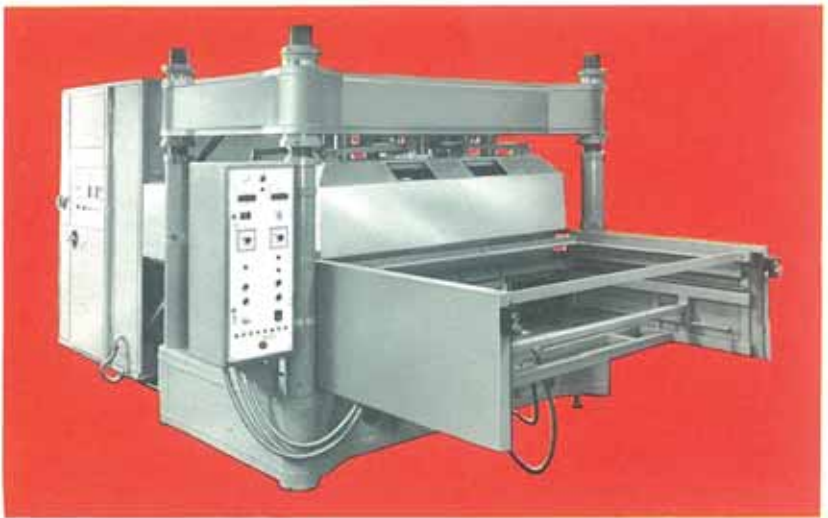
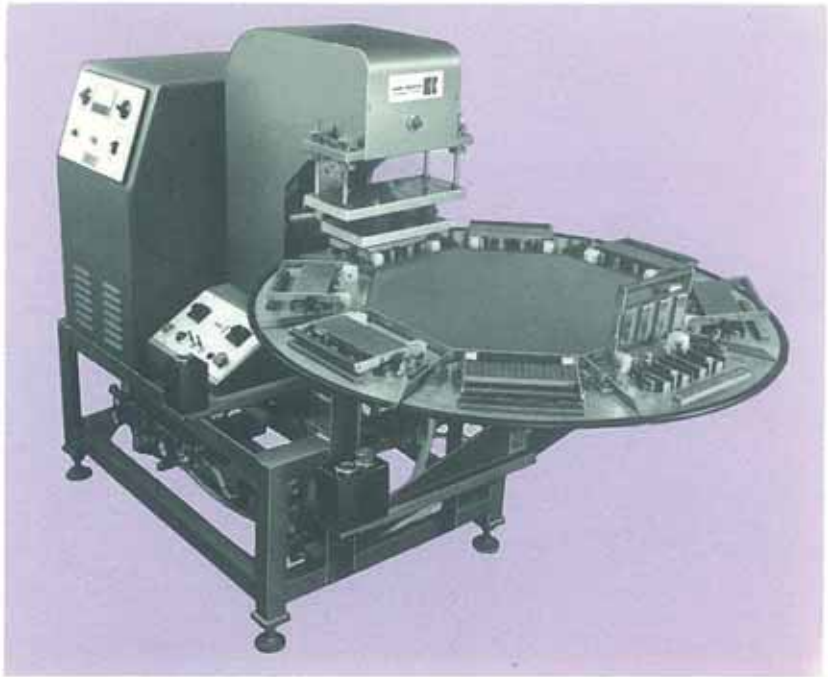
Ridat double shuttle automatic plastic sheet welding presses have been proved by leading manufacturers to increase output by up to 70% per operator against conventional welding machines.

This range of Ridat High Frequency Equipment is available in three basic sizes, with 56" x 36", 36" x 24" and 24" x 18" weld areas.

They comply with the safety regulations for machines of this nature and are considered completely safe even when used by unskilled operators.

Their simplicity and operation calls for no prior skill and demands only the minimum of instruction.

Many other designs of equipment are available including machines for the automatic production of Book Covers, Baby Pants, Inflatables, Automobile Components, etc. These also include Rotary Carousel systems conveyerised methods, and purpose built plant.



Ridat auxillary machines

Ridat Roller Cutting Presses offer a simple solution to post-trimming processes. Its unique "Nip" cutting action requires the minimum of pressure and operates at cutting speeds from 35' per minute.

It can be used by unskilled operators and is suitably guarded to ensure absolute safety.

Automatic stop/start control reducing operator fatigue provides for maximum efficiency and production.

Ridat Blister Sealing Presses are available in three versions - Manual Bench Presses, Conveyor Systems or Rotary Carousels.



Ridat advisory service

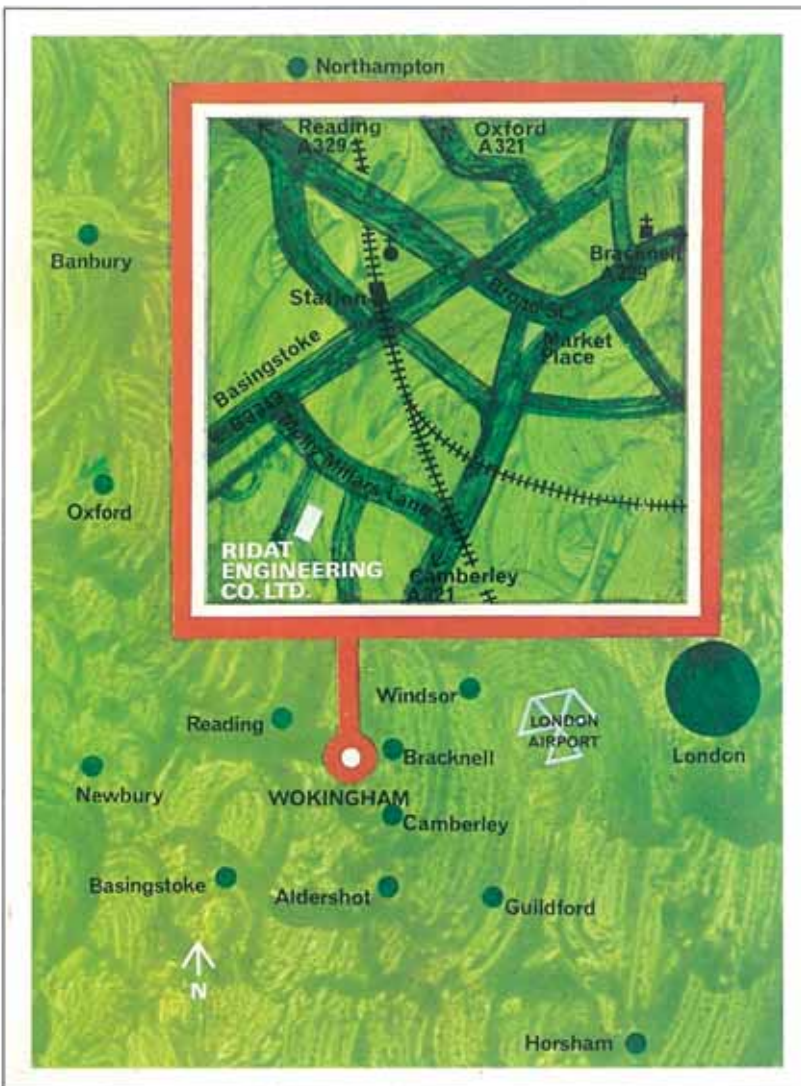
Manufacturing problems can be solved with the unified specialist knowledge and skill that Ridat offer.

Contact us when you need assistance in resolving mechanical production weaknesses. We offer advice on increasing output by the most beneficial utilisation of plastics materials tooling and labour.

We welcome visitors to our Wokingham factory where our design and manufacturing facilities can be viewed. All enquiries are dealt with in strict confidence.

The factory is usually reached by road from London and other main towns in the region and is only 25 minutes drive from Heathrow Airport on the M4 motorway.

Ridat have been engaged on projects for many renowned companies throughout Britain and Europe. Our sincere thanks are extended to all our customers - a condensed list of manufacturers who have used our services is set out below. We apologise to all our clients who are not listed, but it is now impractical to show a full list of Ridat users.



Abel Morrell Ltd.
Actic Plastics Ltd
Alcan Wire Ltd.
Austin Motor Co. Ltd.
The Boots Co. Ltd.
British Aircraft Corp.
British Crane & Excavators Co. Ltd.
British Hoist & Crane Co. Ltd.
British Leyland Motor Co. Ltd.
(Morris Division)
B.T.R. Industries Ltd.
Bridgetown Industries Ltd.
Car Accessories Ltd.
Carr-Speed Plastics Ltd.
Conway Stewart Ltd.
Carter Refrigeration Ltd.
Ever Ready Ltd.
Formold Ltd.
Gillette Industries Ltd.
Giplex Ltd.
Gwelo Manufacturing Ltd.
D.J. Hall Ltd.
L.G. Harris & Co. Ltd.
Harborough Rubber Co. Ltd.
I.C.I. (Hyde) Ltd.
International Packaging Corp.
Isco 5
A.A. Jones & Shipman Ltd.
Joseph Lucas & Sons Ltd.
Joseph Terry Ltd.

Jaguar Cars Co . Ltd.
Key Display Ltd.
Kohen Windsor Box Co . Ltd.
London Fancy Box Co. Ltd.
Max Factor Ltd.
Meccano Ltd.
Morgan Soft Trim Ltd.
New castle Polytechnic
Personna International Ltd.
P.P. Payne Ltd.
Pressed Steel Fisher Ltd.
Rawlplug Ltd.
Thermotank Products Ltd.
Timex Ltd.
Thos. Ellis Ltd.
Unidec Plastics Ltd.
Vandervall Products Ltd.
Vacform Plastics Ltd.
W.C.B. Containers Ltd.
Walter Alexander Ltd .
Richard Smalley & Co. Ltd.
Rootes Motor Co. Ltd. Chrysler (UK) Ltd.



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