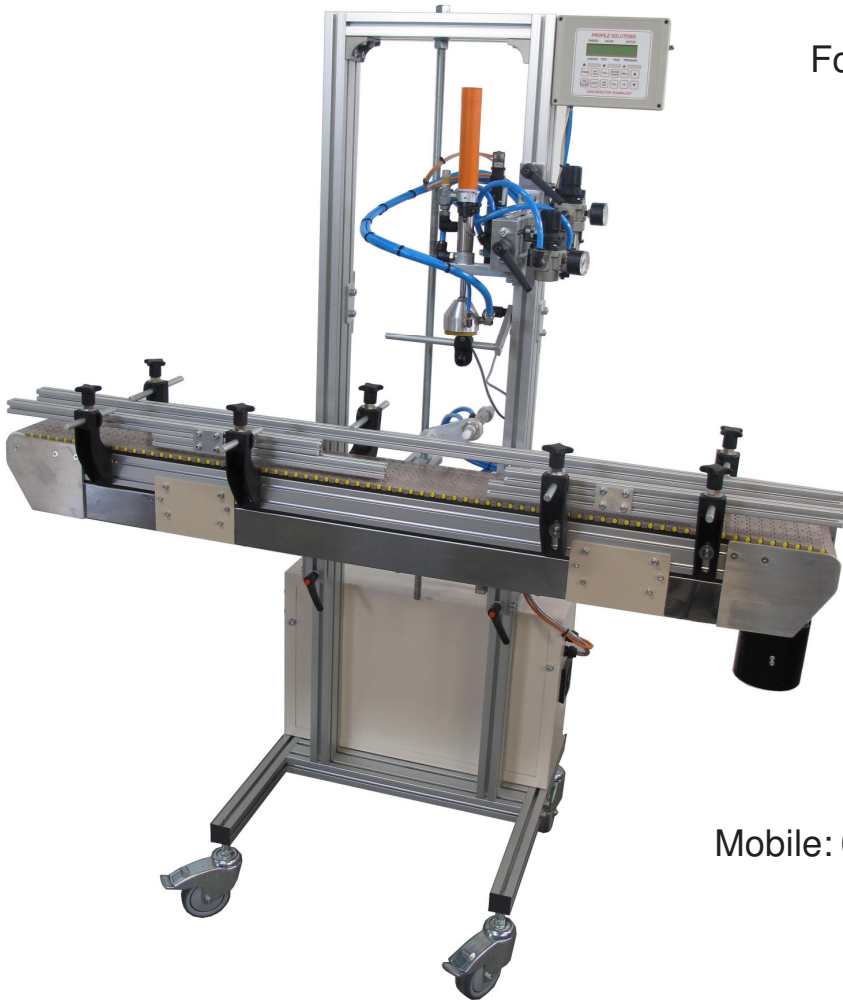


MITCHELL INDUSTRIES & ProfileSolutions

LEAK DETECTION + AUTOMATION TECHNOLOGY

ProductCatalogue



For more information Contact:
**Mitchell Industries,
Profile Solutions
& Profile Automation**



68 Lancaster Drive
Goonellabah
NSW2480
Australia



Phone: 1300 554 599
Mobile: 0417 208 190 (Thomas Mitchell)



Email: sales@profauto.com.au (Australia & NZ)
Profile Solutions, Mitchell Industries & Profile Automation
are trading names of Gecam Industries Pty Ltd (ABN 69 059 194 071)

www.mitchellindustries.com

JIHUANG MOULDING MACHINES - ELECTRIC BLOW MOULDING MACHINES

- Single and double station machines from – up to 2000L.
- Range of all electric single and double station machines from 3-50T clamp, larger machines are hydraulic.
- High speed movements with the consistency of a robot, better than proportional hydraulic on electric models.
- **30-60% of the cost of European machines.**
- Multi-layer up to 7 layers. Superb layer thickness control.
- Servo IML. **First electric in Taiwan since 2004**
- Electric machine have greater precision, consistency and higher reliability.

Save up to **50%** on power over hydraulic machines

30 years in business, with electric machines since 2004



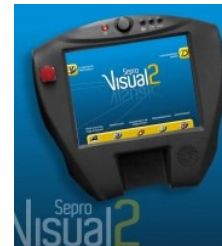
www.jihuang.com levels of control and quantity equal to better European machines.

SEPRO ROBOTIQUE

World's No. 1 Manufacturer of CNC Plastic Robots in Europe.

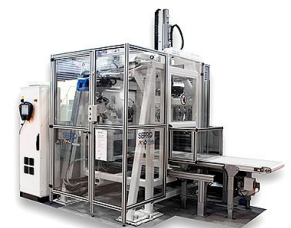
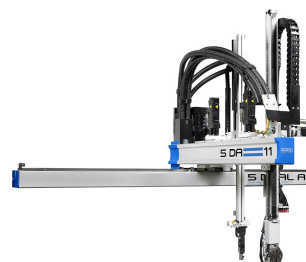
No. 1 Robot used in the Car Moulding Industry Worldwide.

No. 1 one supplier of robots for large capacity injection moulders.



- Up to five axis CNC control (for servo wrists) on linear robots to 5000T.
- 6 axis robots with Visual3 control for simplified programming to 5000T.
- Annual production > 2000+ units, speeds up to 5m/s and high accelerations for standard robots.
- Special robots for packaging with extremely short take-out times and able to work on short cycles. **Side Entry and IML.**
- **50,000+ units worldwide installed as at end 2023.**
- Multi levels of control and drives in CNC range to suit your budget. Complete CNC wrists available.
- Units running in Australia and New Zealand.
- **Outside automation** can also be provided by our associated company profile solutions for insert moulding and assembly, conveyors and guarding.
- End of arm tools for product take-out (complete design & build or supply parts only).
- Supply of **conveyors** made locally by us for box packing and product placement.
- Supply of **professional guarding** for robots provided locally by ourselves.

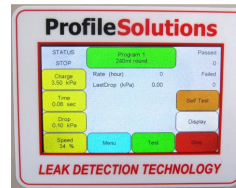
www.sepro-group.com



6LD - WORLD'S FASTEST SINGLE HEAD LEAK DETECTOR

Made locally by Profile Solutions and exported to 38 countries

- **Manufactured by us** in our associated organisation in Sydney and exported. The **worlds fastest leak detector**, with high speed models capable of up to >14,500 tests per hour on single head, to even find 0.2mm holes at these rates and with the flexibility to set long test times when used at low production rates to find even smaller holes. **We export > 70-80%** of our production.
- Wide range of options and models for leak testing solutions to 1000L. We can also test injection mould parts too.
- Multi-heads, Travelling Heads and more.
- See <https://www.youtube.com/user/PROFILE1963/videos>
- Entry level 2LD available. Now can test up to 3600 tests per hour. Same accuracy and resolution as flagship machine.
- Technical part testers – Pressure Decay, Differential and Mass Flow. Plus control your sealing jig from your tester.



- We can also build & supply COLLATING tables, Baggers, Bottle Packing Solutions, CNC Empty Bottle Palletisers and Depalletising.

www.profauto.com.au

WEISHENG AUTOMATION - TAIWAN - IML FOR INJECTION & BLOW MOULDING

http://www.weisheng-auto.com.tw/e_index.htm

- Started in 2002 as EMD holds many patents for their IML labelling technique.
- Available for resins on PP, PS, LDPE, HDPE and labels on PP film, foil film and metal electroplate film.
- IML for heat isolated label such as cork, stone paper or PP/PE foam film.
- 3-Dimension film (3D laminated label).
- IML for IC film (RFID chip)-(radio frequency identification).

BLOW MOULDING

- IML for single and double sided blow moulding machines, all SERVO driven.
- Their IML system can be fitted to existing blow moulding machines.
- Patent for 360 round label insertion, also RFID insertion behind label.

INJECTION MOULDING

- High Speed side entry robots for flat and round labels for injection moulding.
- Robots can insert labels and take-out parts and then hand them over to downstream stacking devices.
- **Side entry systems can be supplied just for take-out and stacking.**
- Large parts are handled by a traverse robot with external label dispensers and stackers.

RFID

- Has patented systems for applying RFID into moulds and with labels.



TURNKEY

- Weisheng can supply complete system with moulds.

BLUE AIR - AUSTRIA www.blue-air.at

The Revolutionary **RDX & RDL (Resin Driers)** for Hygroscopic materials. 30-60% more energy efficient than good desiccant dryers. Ideal for PET, PC and all engineering materials.

- No moving parts, no desiccant, no chilled water.
- Designed from ex-Fastie designers who made the first compressed air dryers.
- Modular in design with different hopper to suits outputs from Change, add and mix hoppers for the right volume.
- One control unit can be used on many driers.
- Unpatrolled air distribution with special air ring, so that all granules are correctly dried with their new 3D distribution principle.
- Adjustable air flow, to minimise air usage and get it just right for the material.
- Optional low cost Venturi loader unit with control in the RDX controller. Integrated conveying and discharge control.



- Wireless connection to controller up to 12 metres away.
- High level controller with many features.
- RDX (1-40kg/hr), modular hoppers to 82L, RDL (20-210kg/hr)

BLUE AIR - AUSTRIA www.blue-air.at**MSP - MOULD SWEAT PROTECTION**

These units protect the mould from condensation and allow moulds to be run at faster and more consistent cycle times all year round. Very energy efficient world leading technology.

- Allows really cold mould chilling water to be used for faster cycles. Blue Air can allow cooling water as low as 5 degrees centigrade in any climate.
- Machines can run equally as fast in summer or winter.
- On multi-cavity tools with lots of cores and sliding parts, no condensation, negates corrosion & reduces maintenance costs.
- Used for both blow moulding & injection moulding processes.
- We can build the enclosures around your existing machines.
- 50% less energy than desiccant dehumidifiers.
- One unit can dehumidify many moulding machines.

**Dry Mold System DMS**

Injection and blow molding without mold condensation
Dehumidification without the need of chilled water for pre-cooler

DMS - DRY MOULD SYSTEM, THE REVOLUTION

These units work like the MSP but requires no plant chilled water (which desiccant unit do as well).

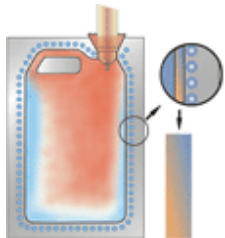
- 80-85% less energy than desiccant dehumidifiers. Down to 0.0007 kw/m3
- Suited to less machine than MSP.
- Recycles already dry air, running in closed loop.
- Suitable for single production machines.



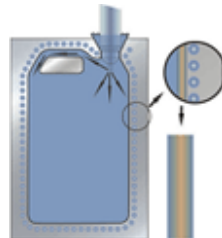
BLUE AIR - AUSTRIA www.blue-air.at

CAC -Compressed air chiller -12-62% extra from your blow moulder.

- Supplies super dry air that replaces the blowing air in blow moulding for increased production.
- Production increases from 10-50% depending on the product.
- 62% on 200L drum, 48% on an auto oil cooler, 15-30 on commercial bottles.
- Payback from **1 month - 1 year**.
- Suitable for all blow moulding machines.
- Low energy.
- For thin wall containers or a cheaper way to get more production on a cube we also have the **BMB (Blow Moulding Booster)** is an economical way to get 60% of the production boost a CAC will give you at 40% of the cost.



blowing process with normal air



blowing process with chilled compressed air

62% Increase

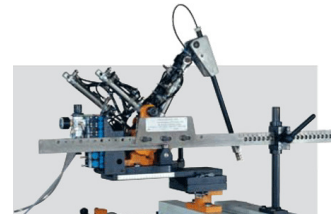


GETECHA www.getecha.de

Fast Sprue Pickers for closed looped recycling with their small granulators



Get Zero – No extension to cycle time as it's powered by the mould opening, for machines up to 300T



Get Speed – In and out in less than 0.4 sec, 100 gram payload.

Get Pick – General purpose sprue picker, 250 grams.



Get Grip – General purpose sprue picker, 1000 gr high payload. Less than 1 sec, extraction time.

GETECHA www.getecha.de

WORLD LEADING GRANULATORS - > 25000 UNITS INSTALLED SOLUTIONS FROM SPRUE RECLAIM TO 5000+ KG/HR.

Getecha has been manufacturing granulators for 40 years. These machines are innovative; they also have the hallmarks of being reliable, easy to clean and to adjust.



In the top 5 suppliers worldwide

- RS 1600 series – small units, with exceptional access. Up to 40 kg/hr and belt drive. Super strong support bearings.
- The “INNOVATIVE GRS 180 and 300” with angled blades that do a better job and a **unique anti-jam design**. Even when the hopper is completely full, it will start. Save money as it can do bigger parts than you would expect. For 30-80 kg/hr. (Pictured left)
- RS 2000/3000 Workhorse soundproofed design 30-500 kg/hr. (Pictured lower left, show excellent access to rotor)

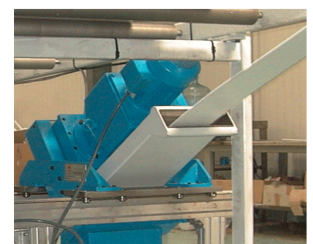
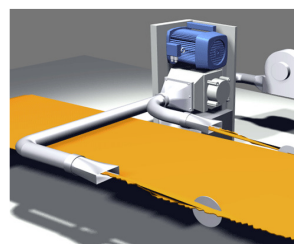


- PS 350 – When it gets, heavy and bulky this is the unit 400-1000 kg/hr
- RS 4500 – Ideal for large volume parts 600-1500 kg/hr
- RS 6000 – Central granulators for large plastic parts 1100-200 kg/hr. (Sample rotor design, below middle)
- RS 8000 – The “king of the range” up to 5000 kg/hr.



SPECIAL UNITS

- **Foil cutters** to edge trim foils down to 10 micron, with suction to the granulators. For plastics, paper, cardboard, cloth, and even wood.
- **Hackers** a pre-cutting device for sheet edge trims to go directly into a granulator.



BILLION www.billion.fr

BILLION INJECTION MOULDERS - 50-1100T - HIGH SPEED AND ACCURACY

THESE MACHINES COME WITH A VERY HIGH SPECIFICATION AND INCREDIBLE PERFORMANCE. If you take the time to look you will be extremely surprised by these units!!

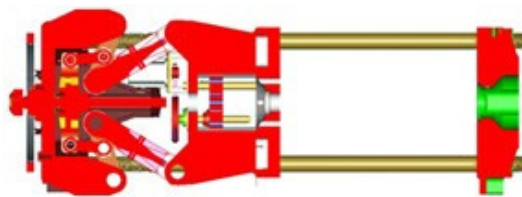
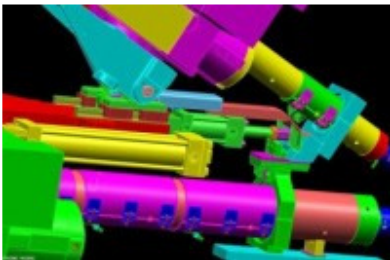
- Billion building injection moulding machines for over 63 years.
- Billion machines are extremely fast and accurate.
- Innovative – New exclusive optional “Aspect Control” can reduce cycle times, part warpage and energy usage.
- ***Billion invented co-injection in 1961 and 30% of all their production is for co-injection.*** Over moulding, Sandwich, Simultaneous, Colour effects, Multi-layer. They have done it, **up to 6 components.**
- Incredibly accurate.
- Turnkey for moulds, IML, outside assembly, In-mould assembly, and comprehensive trials lab. External assembly
- Huge experience for difficult materials BMC, rubber, LSR, LFT-G, PVC and thermosets.
- **SELECT - ALL ELECTRIC UP TO 600, 65% of all machines sold are electric.**
- **HERCULES – Fast open close times (1300 mm/sec avg. speed), super accurate, high injection rates, Large platens. Ideal for packaging (Great for pails), bio-medical, and technical parts. Also Hybrid Electric**



SELECT²



- **GM – Fast open/close times (1000 mm/sec), super accurate, Large Platens. Used extensively in automotive. 430T to 1000T.**



FCS Injection Moulding <https://www.fcs.com.tw>

IBM BLOW MOULDING MACHINE'S - PREMIUM QUALITY LOW COST MACHINES, WITH FAST PAYBACK

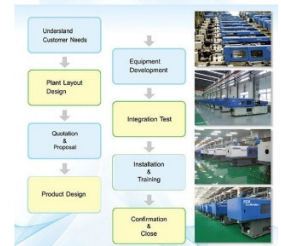
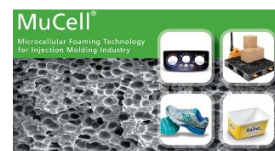
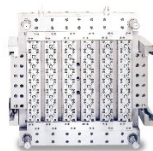


Smart Machine + Industry 4.0



Two-Platen

- Founded 1974, Makes >2500+ injection moulding machines per year. 2024 - 50 years
- 4000T maximum capacity, 5 factories, 1 Taiwan, 2 China, 2 India.
- All Electric machines up to 900T camp. Plus hybrid machines
- Hydraulic machinery up to 4000T
- Multi component machines – Leader in this area in Asian auto Industry
- Thermosetting machines, PVC machines
- In Mould Labelling Turnkey Solution
- High Precision Injection moulds
- Medical – Auto – Packaging – Pallets – Appliances- Housewares – Agricultural fittings – Electronics – Caps/Closures + PET preforms



LIANXIN <https://www.lianxinmachinery.com/>

IBM BLOW MOULDING MACHINE'S - PREMIUM QUALITY LOW COST MACHINES, WITH FAST PAYBACK

- 30-135T Clamp tonnage.
- Plus In-Mould labelling systems.



These IBM's are lower cost and are lower cost to buy and produce smaller bottles at far less capital cost than EBM's.

Machines are ideal for pharma bottles (pills, eye droppers, etc.), jars, small dairy up to 1L.

- Machine come with take-out, conveyor and mould temp controller.
- Lianxin can supply moulds too and a very good cost.
- 2 section and 1 section clamping models. 2 section have high output.
- Electro Hydraulic hybrid servo system for 40% massive energy saving.
- Very well finished robust machines that will surprise at the value for money even the largest which can make 4x1L or 16 x 20ml is at a cost lower than you would pay for decent EBM.
- 5 sizes, in 2 levels of technology.

MAGBO www.soph-hamburg.de

HIGH PERFORMANCE MAGNETIC PLATENS

Magbo is the product for quick mold change in injection mold presses.

The electro-perm system does not use power once energized so a loss of power does not cause a loss of holding force. The technology, a safe and reliable magnetic circuit, and is widely used on work holding, material handling, and mold/die clamping.



Solid block construction

The two magnetic modules for the stationary and moving side are built with a specific milling machining out of a solid steel plate. This gives the system structural stability and durability over time.

Neutral core

The circuit works with the "neutral core" principle where the magnetic flux is concentrated exclusively in the polar area. The absence of any stray flux guarantees constant performance of the system and no trouble for the machine and mold components.

Reduced thickness

Solid block construction of Magbo platens provides the best overall flatness tolerance within the thinnest possible construction parameters.

Electronic control unit

Designed according to the upmost recent standardizations Euromap, SPI, JIS. It can be interfaced with great flexibility both to new or existing machines. High level of integration can be achieved with those machine properly prearranged with interface signals. The machine enable will be available only when the mold is perfectly positioned and the system magnetized. The electronic control units are standard equipped with CSS current Control and MSD Flux Control Systems. The electric panel is contained in standardized watertight cabinet IP54 rated.

Remote control

All the operating functions are activated and controlled by a dedicated remote Push-button operator interface conveniently located; the mold setter oversees the whole mold change procedure from outside the machine in full safety. A specific safety key enables the "mold/die-change-mold" procedure and the Mag/Demag cycles.

The magnets do not magnetize the entire mold/die, the magnetic flux penetrates the die only 20mm deep. The mold/die face and part cannot become magnetized, allowing for scrap removal, and proper die operation without interference.

In a few seconds with the simple press of a button, it is possible to clamp or unclamp the mold/die in complete safety. Even during a power failure, the system remains operative, with constant clamping force.

MAGBO ALSO HAVE 2 OTHER DIVISIONS FOR WORK HOLDING IN MILLS, LATHES AND GRINDERS AND HANDLING FERROUS LOADS.

BRISC
WORK HOLDING



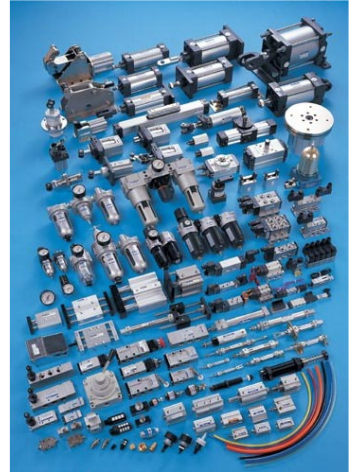
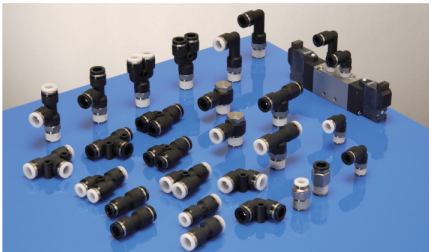
HELMHOLTZ
MATERIAL HANDLING



AUTOMATION PRODUCTS AVAILABLE www.profilesautomation.com.au

Our prices are very good and you will save money you can spend on something else you want.

- Our latest **aluminium profile construction kit** – with one of the lowest connected costs. 20, 30 AND 40 mm base sizes. Solid strong profile ideal for machine building.
- Ideal for machine and perimeter guards, work benches, all types of packaging and assembly machinery.
- Pisco pneumatic push-in fittings & tubing at great prices, **low list price.**
- Mindman **Taiwan's No: 1 Pneumatic supplier** at great prices.
- Pneumatic Grippers at the low cost, great for end of Arm tools.
- **NEW!** Conveyor guide rails brackets, feet, etc.



END OF ARM TOOLS & GUARDING

End of arm tools for complex parts, insert moulding, and pick up tables. Combined with our profiles, access to parts and the SEPRO KIT – Modular parts assembly. For insert moulding we could even provide the bowl feeders in some cases.



OTHER PRODUCTS

Including Automation

Belt and Plastic Chain conveyors to go with injection and blow moulding machines – High quality at reasonable prices. Work benches, CNC stackers, various automation.





