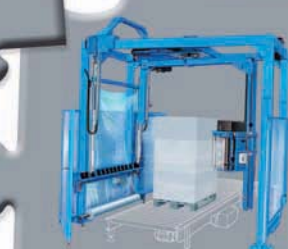
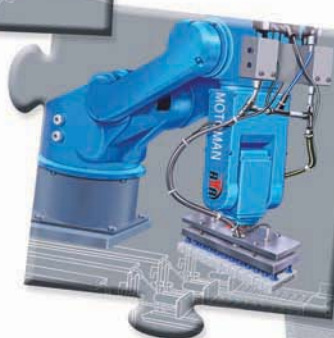
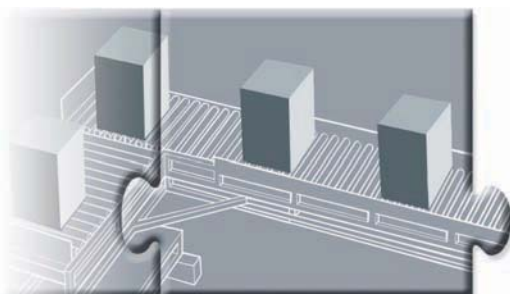




RA Group of Companies



***end-of-line
solutions***

Robotic Automation P/L • RA Health P/L • RA Service • RA Consulting

Solving Your Automation Puzzles

The beginning of the end (of line)

Congratulations. You've reached the beginning of the end:

- ▶ The end of many production problems
- ▶ The end of many limits to your production capacity
- ▶ The end of unnecessary OH&S incidents and compensation
- ▶ The end of needlessly lost production time.
- ▶ The end of blown-out labour costs and all the extra associated management costs.

Since 1988, our expert team of experienced consultants, engineers and project managers have been putting together ALL the pieces to build turnkey solutions - tailored to client's needs. Clients like you. In fact, we've installed and are supporting over **3,000** installations across Australia & NZ.

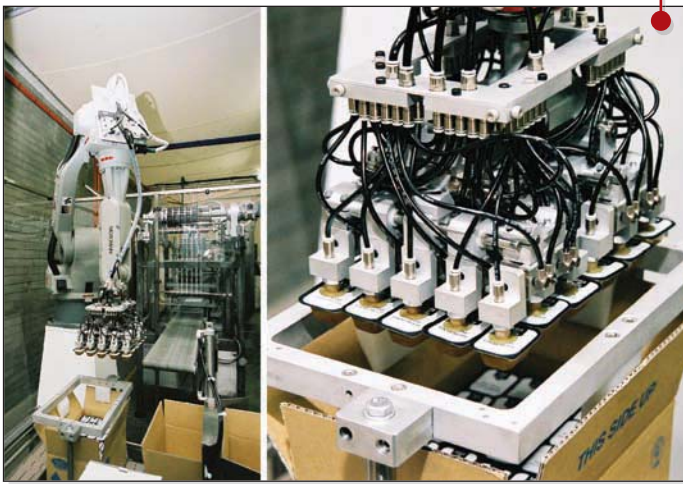


The **RA Group** is your one-stop resource - directly representing the best of the world's component systems to create your local end-of-line solution.

- ▶ **One company. Total responsibility.**



Case Packing Systems



Palletising & Handling



Automatic Guided Vehicles (AGVs)



Palletising, Wrapping & more



System Resources - World's best

The RA Group has scoured the world to source and exclusively represent the best brands to match with our own world-class engineering capabilities.

Robot and Gripper Technologies

Our engineering team will select and develop the right technology to give your application maximum performance, efficiency and durability.



Some of the end-of-arm grippers designed/integrated by RA



More than 100 robot models available from the world's largest robot manufacturer

Packaging & Load Securement



Stretch wrapping, Hood & Shrink wrapping, plus Strapping systems. Fully automatic or semi-automatic models to suit. Carton sealers and more.



Shrink Wrapping and Strapping System Applications



World's Largest Manufacturer of Pallet Stretch-Wrapping Systems

Automatic Guided Vehicles (AGVs)

Performing materials delivery, waste removal, wrapping machine tending, warehousing & despatch, and other specialised applications.



Trailer Loading via end or side access

Rack Picking

Block Stacking



World leader in AGV Technologies

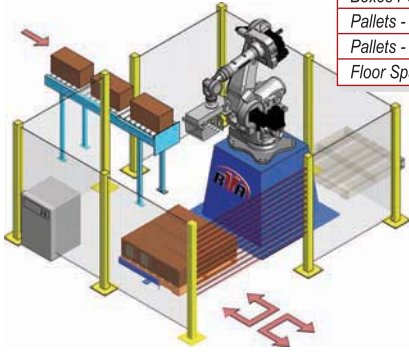
From small solutions...

Easy end-of-line modules with mix'n'match options. Proven, adjustable and ready-to-go!

Boxes & Cartons

PALLET MAKER 1-1-M

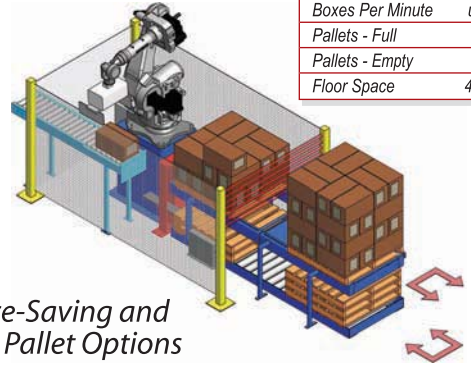
Boxes Per Minute	up to 30
Pallets - Full	01
Pallets - Empty	00
Floor Space	3m x 3m



Simple and Reliable

PALLET MAKER 1-1-A

Boxes Per Minute	up to 30
Pallets - Full	02
Pallets - Empty	06
Floor Space	4m x 2m

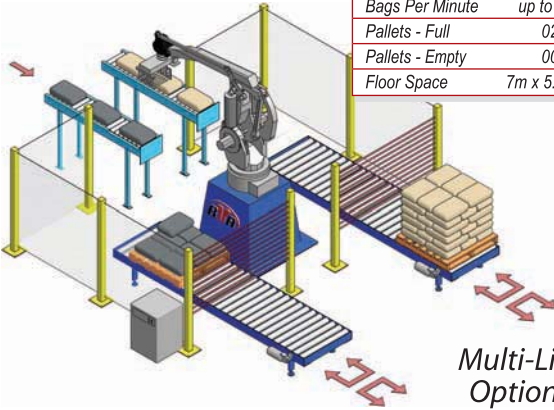


Space-Saving and Extra Pallet Options

Bags & Sacks

PALLET MAKER 2-2-M

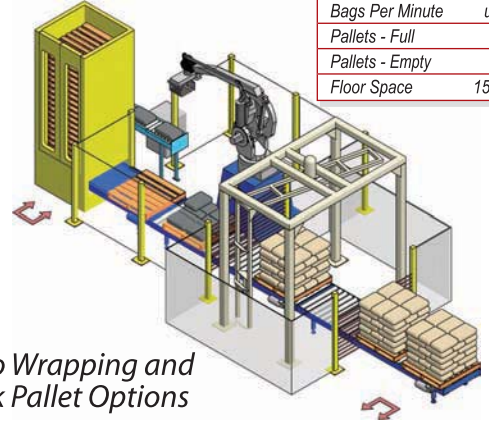
Bags Per Minute	up to 30
Pallets - Full	02
Pallets - Empty	00
Floor Space	7m x 5.6m



Multi-Line Options

PALLET MAKER 1-1-A-SW

Bags Per Minute	up to 30
Pallets - Full	04
Pallets - Empty	21
Floor Space	15m x 6m



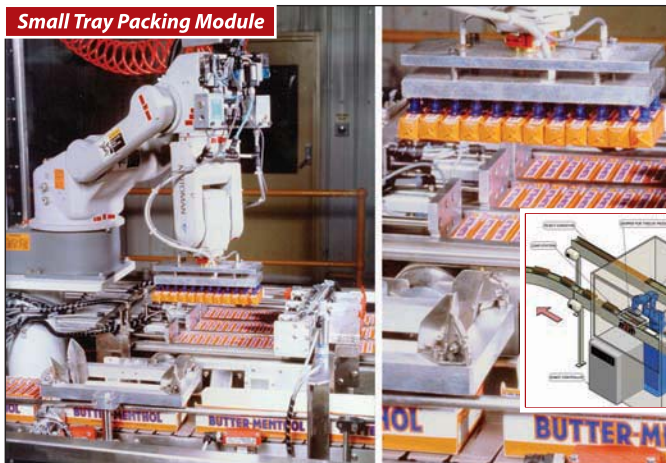
Auto Wrapping and Bulk Pallet Options



Small end-of-line palletising module



Larger Dual-line Palletising Module



Small Tray Packing Module

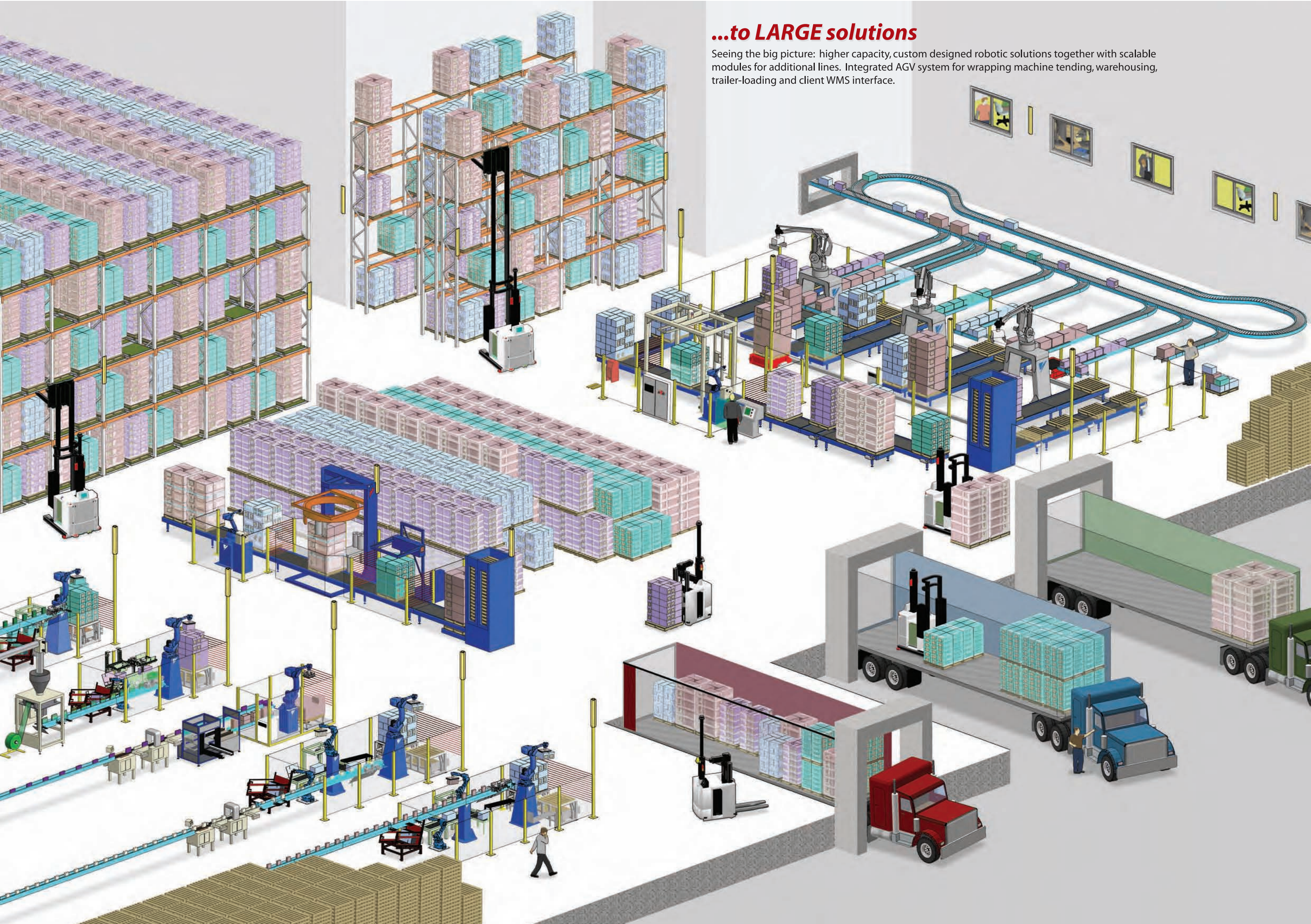


Larger Case Packing Module



...to **LARGE** solutions

Seeing the big picture: higher capacity, custom designed robotic solutions together with scalable modules for additional lines. Integrated AGV system for wrapping machine tending, warehousing, trailer-loading and client WMS interface.



Client References - Australia & NZ

Like their projects, our automation clients come in all sizes - from small, privately owned companies to the best known multi-national brands. Some are first-time automation users and others are firmly established. Projects range from single system installations costing \$30k, to large multi-million dollar installations. At time of writing, RA have installed and are supporting **over 3,000** turnkey systems in Australia and NZ.

A sample of RA clients using our end-of-line solutions:

- | | | | | | |
|---------------------|--------------------|-----------------------|------------------|---------------------|---------------------|
| ACI Glass | Capral Aluminium | EGR Plastics | James Hardie | Olex Cables | Shinagawa Australia |
| AMCOR | Carter Holt Harvey | EKA Nobel | Kimberly Clark | Orica | Smith's Snack Foods |
| Arnott's Biscuits | Chep | Fernz Chemicals | Kiwi Packaging | Parmalat | Smorgon |
| AstraZeneca | CSR | Fibre Containers | Kodak | Penford Australia | Southcorp Rheem |
| Aust. Meat Holdings | Coca-Cola Amatil | Fisher & Paykel | Linfox | Peter's Ice Creams | Sunbeam Victa |
| Aust. Paper Mills | Dematic | Gadsen | Meadow Lea Foods | Philip Morris | Swisslog |
| Berri | Dexion | Greens General Foods | National Foods | QGM | TDG Logistics |
| Bonlac | Dulux | Herald & Weekly Times | News Limited | Queensland Coatings | Visy |
| Bluescope Steel | Davco | Hills Industries | Nestle | Sanitarium | Wattyl |
| Cadbury Schweppes | Encore Tissue | Jalco Australia | Nufarm | San Remo | Weston Milling |



Snack Food Industry



Paper Products Industry



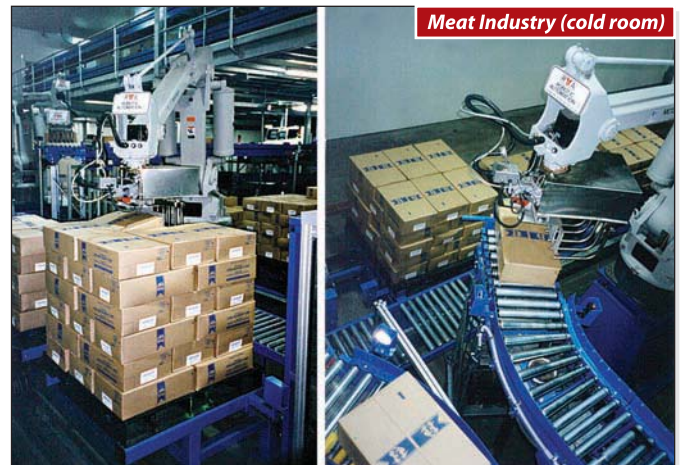
Paper Products Industry



Cereals - Food Industry



Minerals Industry



Meat Industry (cold room)

*All brand names and logos shown are registered trademarks of their respective owners and are shown for identification purposes only.



Established 1988 ● Over 3,000 local installations - Australia & New Zealand
● Award winning business and engineering teams ● Over 500 cumulative years of automation experience ● Up to 70% local market share in specific applications ● Exclusively representing the best global brands ● Service division with \$multi-millions in spare parts storage ● Wholly Australian owned with offices nationwide ● One company. Total responsibility.

Solving Your Automation Puzzles

Robotic Automation P/L ● RA Health P/L ● RA Service ● RA Consulting

Sydney

14 / 4 Avenue Of The Americas
Newington NSW 2127 Australia
PO Box 544, Rydalmere BC NSW 1701
Ph: +61 (0)2 8748 6500
Fx: +61 (0)2 8748 6501

Melbourne

10 Southern Court Keysborough
Victoria 3180 Australia
Ph: +61 (0)3 9709 0900
Fx: +61 (0)3 9709 0990

Brisbane

Waterford
Queensland 4133
Australia
Ph: +61 (0)7 3266 8200

Adelaide

Newton
South Australia 5074
Australia
Ph: 1300 552 333

Perth

Malaga
Western Australia 6090
Australia
Ph: 1300 552 333

Visit: www.ragroup.com.au

Email: sales@ragroup.com.au