AUSTRALIAN WEIGHING EQUIPMENT

Way ahead in Weighing

PRODUCT GUIDE

PVPE

PNEUMATIC VALVE PACKING EQUIPMENT - AIR PACKER

- Fast bagger for free-flowing, non-clumping powders & granules

PVPE with Bag Kicker

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PRODUCT GUIDE

Packaging Equipment / Air Packers

PVPE - Pneumatic Valve Packing Equipment

ABOUT THE PVPE AIR PACKER

For the fastest dry solid packer with filling speeds of up to 8 bags per minute, you need a PVPE Air Packer. The PVPE Air Packer works by using air fluidisation and differential pressures between the product chamber and the bag where the product is to be filled. The differences in air-pressure brought by the the PVPE Air Packer results in the product flowing quickly into valve bags, cutting down time & man hours.

Fill dry solids faster - **Up to 8 bags per minute!**

SUITABLE FOR USE WITH

- Powder
- Renders
- Cement
- Sand or Lime Products
- Tile adhesive
- Flour
- Breadcrumbs
- Free-flowing foods
- (Products sensitive to augering like Pierlite & pedrite)

OUR CLIENTS

Cement Australia · MAC Renders & Architectural Coatings · Incitec Pivot · Kialla Pure Foods Organic Grain Millers · Sika · CTA Construction Technologies Australia · PAREXDAVCO Preferred by Professionals, Globally

PVPE - Pneumatic Valve Packing Equipment

FEATURES & BENEFITS

ACCURACY & PRODUCTIVITY

- High accuracy patented load cell technology
- Air-flow feed-system provides high production rates
- Easy clean-out & changeover of new products using accessible rear hatch
- Speed can be adjusted manually for weight fine-tuning
- Quick adjustment control to suit bag sizes
- Operator friendly controls

Fast/Slow Flow Control

INTERNATIONAL QUALITY BUILD

- Manufactured to comply to International & Australian standards
- Uses quality European component brands such as Festo, Metalwork, Scheider & SMC

DURABLE & EASY TO MAINTAIN

- Internal & external parts are easy to clean
- Butterfly valve made from high strength anti-wearing material for abrasive products
- Built with universal industrial components to ensure easy maintenance
- Components kept dust-free: pneumatic & electrical control equipment housed in positive pressure enclosure
- Structural steel construction
- Choice of powder-coated Mild Steel or selective Stainless Steel

Pressure & Product Chamber

GROWS WITH YOUR BUSINESS

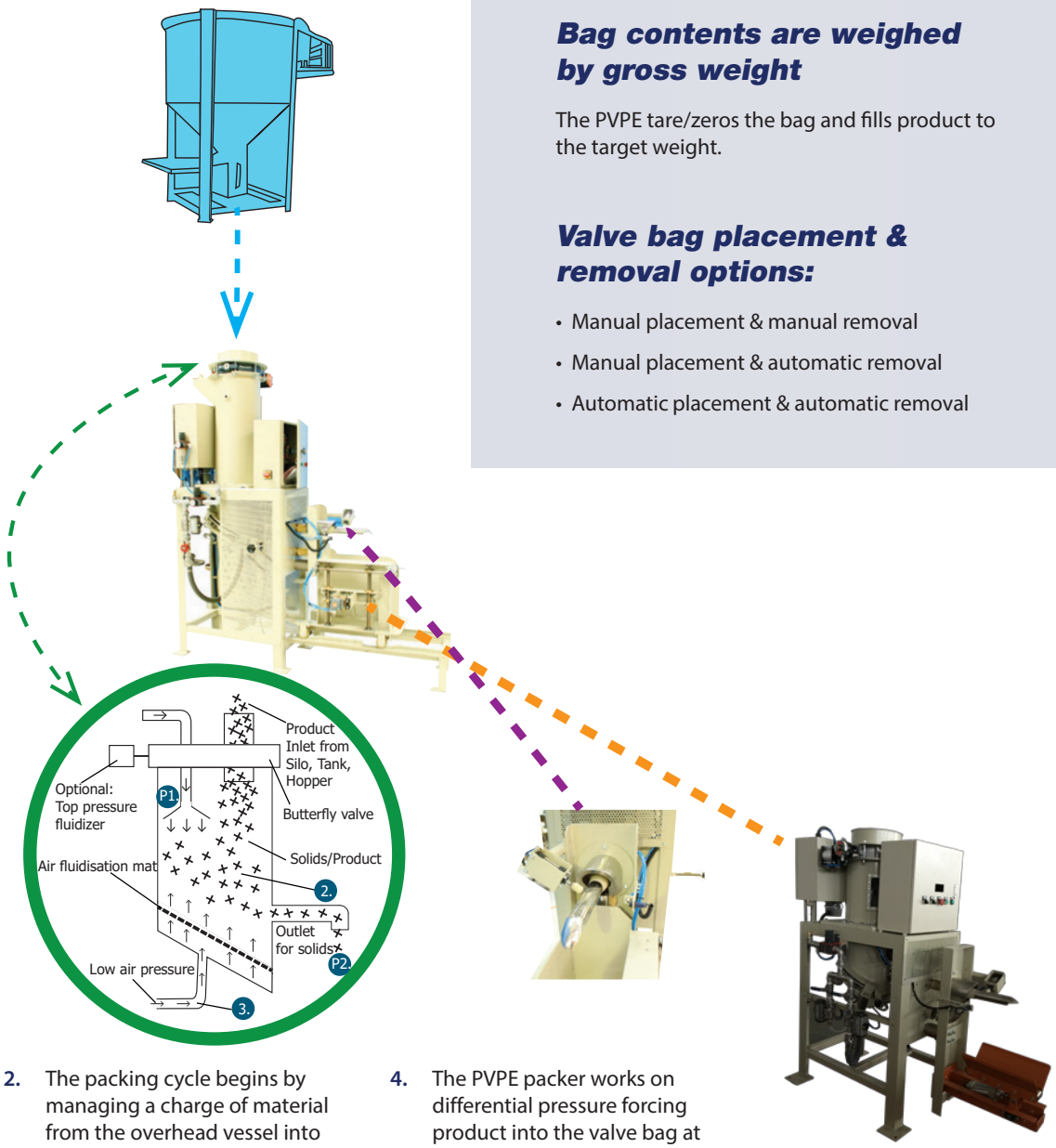
- Modular design: the PVPE interfaces with other filling systems & check weighers
- Smart control panel: you can use the PVPE control panel to talk to your existing packers & weighers
- Customisation options available

Rear Cleaning Hatch

PVPE - Pneumatic Valve Packing Equipment

HOW DOES IT WORK?

1. The bagger is fed from an overhead hopper, silo or mixer containing the product to be bagged.



Bag contents are weighed by gross weight

The PVPE tare/zeros the bag and fills product to the target weight.

Valve bag placement & removal options:

- Manual placement & manual removal
- Manual placement & automatic removal
- Automatic placement & automatic removal

2. The packing cycle begins by managing a charge of material from the overhead vessel into the PVPE holding chamber.
3. Low pressure air is applied to a fluidising bed in the bottom of the chamber and product will flow when the nozzle valve is opened.

P1 Pressure 1: 5 to 8 P.S.I for air fluidisation/chamber pressure.

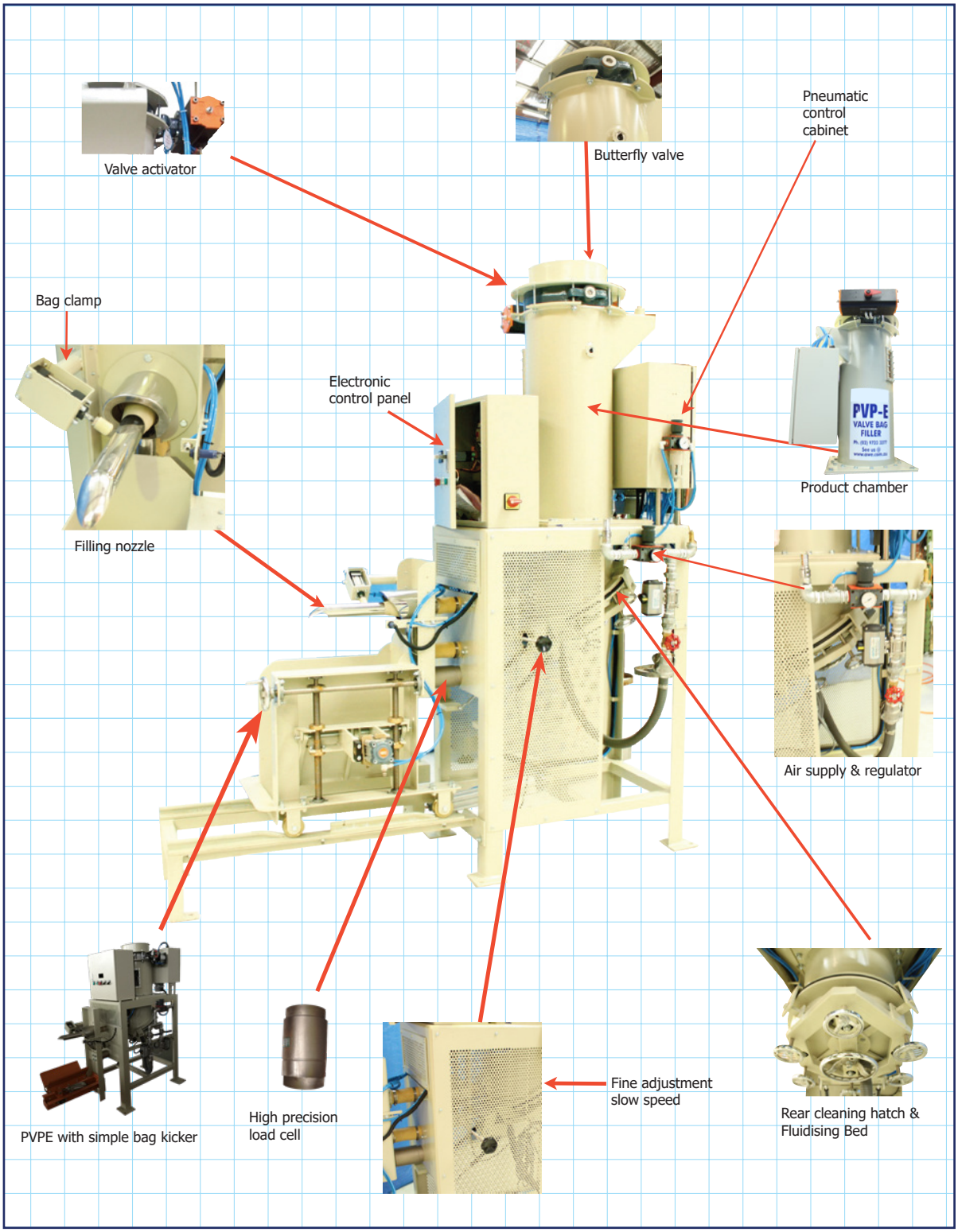
P2 Pressure 2: Atmosphere

4. The PVPE packer works on differential pressure forcing product into the valve bag at 5-8 bags/minute.
5. Electronic weighing and supervisory Programmable Logic Control (PLC) monitors the bag weight and controls the bag filling using a fast, then for improved accuracy, a slow feed phase.
6. A "kicker" automatically ejects the bag at the completion of the cycle. The cycle repeats, with a new bag fed onto the feed tube.

COMPONENTS OF THE PVPE AIR-PACKER

Included with every order:

✓PLC controller interface ✓240v AC Supply (other power configurations available) ✓Simple bag kicker



CUSTOMISATION OPTIONS

BULK HANDLING OPTIONS

- Inlet surge bins
- Bulk bag filling outlet
- Discharge chute
- Dust collection vacuum system reducing dust around fill nozzle
- Blower options:
  - Side Channel Blower
  - Positive Displacement Blower
- Food Grade construction

BAG LOADING & HANDLING OPTIONS

- Automatic bag loader (Arm loader)
- Multiple bag collision sensors
- Check weigher
- Palletisers
- Self-leveling palletisers
- Ultrasonic sealers
- Foot switch for manual valve tuck positioner
- Left-hand machine build
- Left or right hand bag-chair

PVPE with Arm Loader & Bag Chair

Anti-Collision Device

Optional Bag Chair Remover

CUT DOWN MANUAL LABOUR - ADD AN ARM LOADER SYSTEM

Automatically picks up and hangs various bags on your weigh scale system.

Works with existing bagging lines and new installations.

- Standard feed bag magazine capacity: 250 bags.
- Loads in several ways:
  - Vertical
  - Top load
  - Bottom
- Touch-screen access to programmable logic controller that maximises bagging output.

- Compatible bag types:
  - Flat
  - Gussetted
- Quickly change bag sizes
- Adjustable vacuum system
- Faultless placing using a roller feed bag positioning system

- Continuous operations is possible using a fully automatic bag changeover magazine

PVPE AIR-PACKER SPECS

Bag Sizes	Valve Size	Valve Length	Bag Width	Bag Height
	Suit 50mm (2") Fill Nozzle	90 – 165mm long	90 – 180mm Flat Dimension	300 – 900 mm
Filling Speed	1 to 8 bags per minute, depending on product density, valve size, bag weight, quality of bag, accuracy required and product flow characteristics			
Bag Weights	Up to 50 Kg			
Accuracy	+/- 1% depending on filling speed, product bulk, flow characteristics, particle size, infeed system and bag size. (Typically +/- 200g @ 6 bags/ min @ 20kg)			
Electrical	Base machine is 240 volt Single phase, 50 hz 1.4 amp			
Air System	Compressed Air	34 CMH @ 800Kpa (8.0 Bar), Clean Dry Air *		
	Pressure Range	500Kpa (5 Bar) - 1000Kpa (10 Bar)		
	Control Air	1CMH @ 800Kpa (8 Bar), Clean Dry Air		
	Process Air	Compressed Air (Typically)		34CMH @ 100Kpa/1.0 Bar/14.5 psi **
Optional	Positive Displacement Blower			150CMH @ 80Kpa/0.8 Bar/11.6 psi **
	Side Channel Blower			150CMH @ 50Kpa/0.5 Bar/7.25 psi **
Size	Footprint 800 mm (w) x 1600mm (d) height 2350 mm (Under Silo)			
Weighing System	Fitted as standard with load cell and precision digital read-out indicator/controller			
Flow Control	Two stage main/ dribble feed cut off system on pinch gate			

**When using Compressed Air for Control & Fluidising Air*
** * requires 1CMH @ 800Kpa (8 Bar) compressed air for control.*

AIR SUPPLY

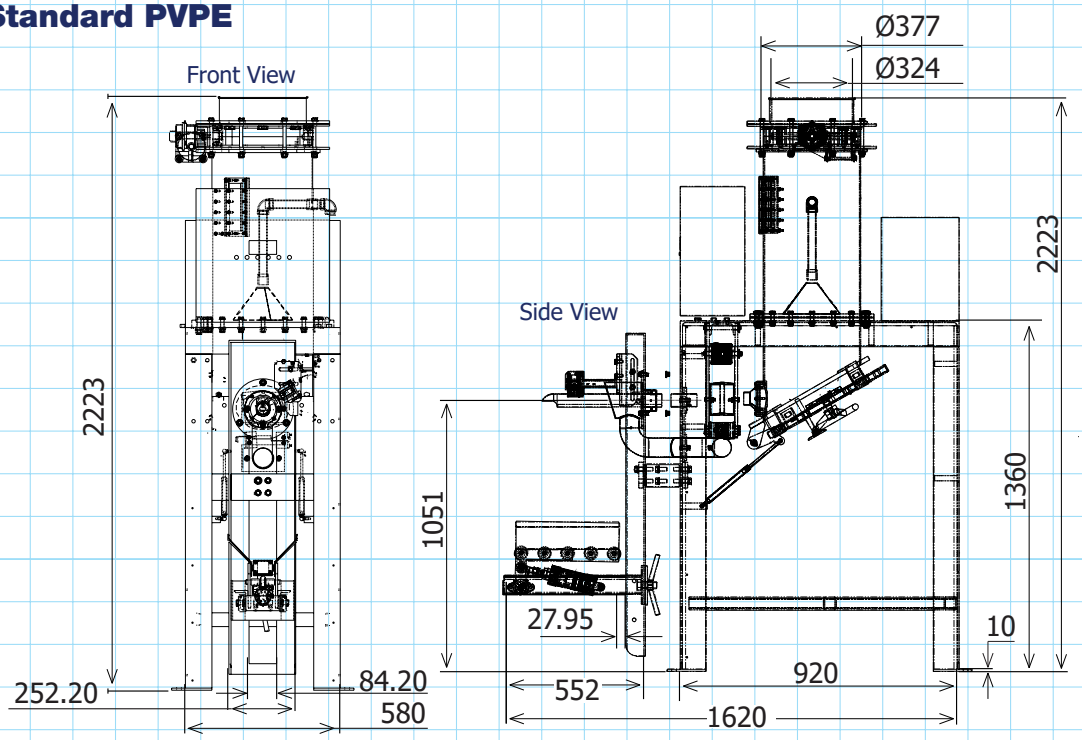
1. The air supply at the packer should never fall below 5 bar. The packer will stop if it detects a pressure below 5 bar.
2. The maximum air pressure is 10 bar.
3. The air supply should be run in pipes which are a minimum of 1" or 25mm ID from the compressor to the packer.

DUST COLLECTION

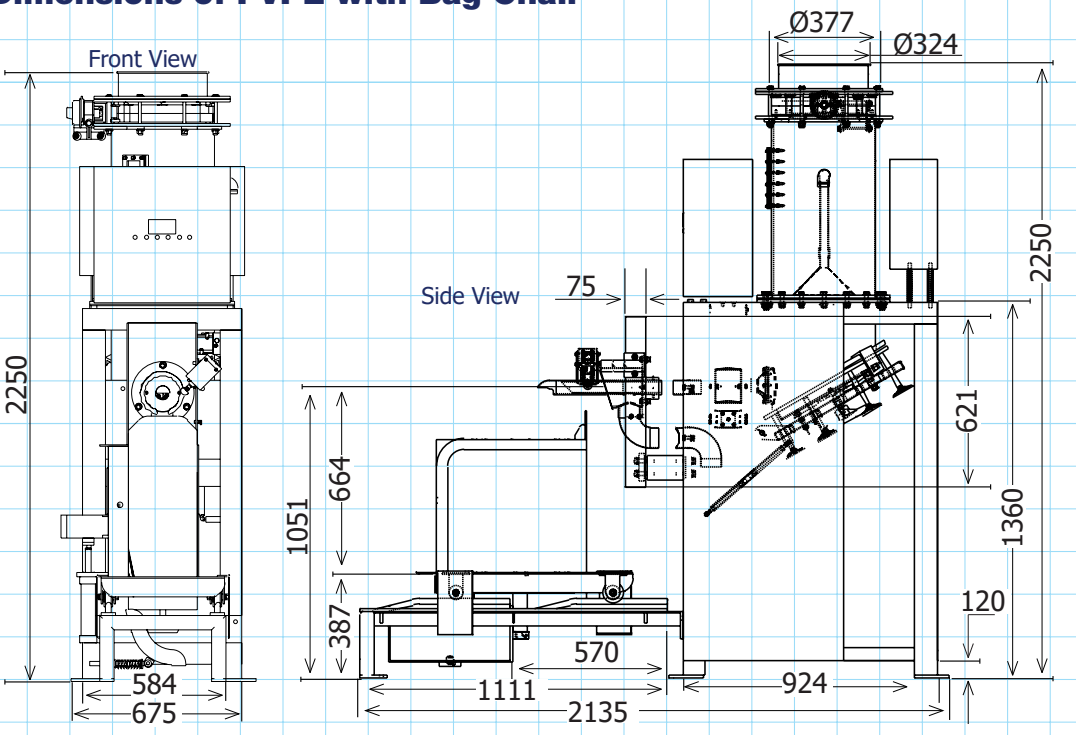
1. Typical dust collection is 680 CMH Cubic Metre /Hour (400 cfm cubic foot /minute).
   This is the minimum to service 1 or 2 packers with the dust collection unit within 10 metres.
2. We recommend a 75mm (3") pipe service to the packer.
3. The packer has a 2" (50mm) connection so it will needs a flexible pipe and an adapter from 2" to 3".

DIMENSIONS

Standard PVPE



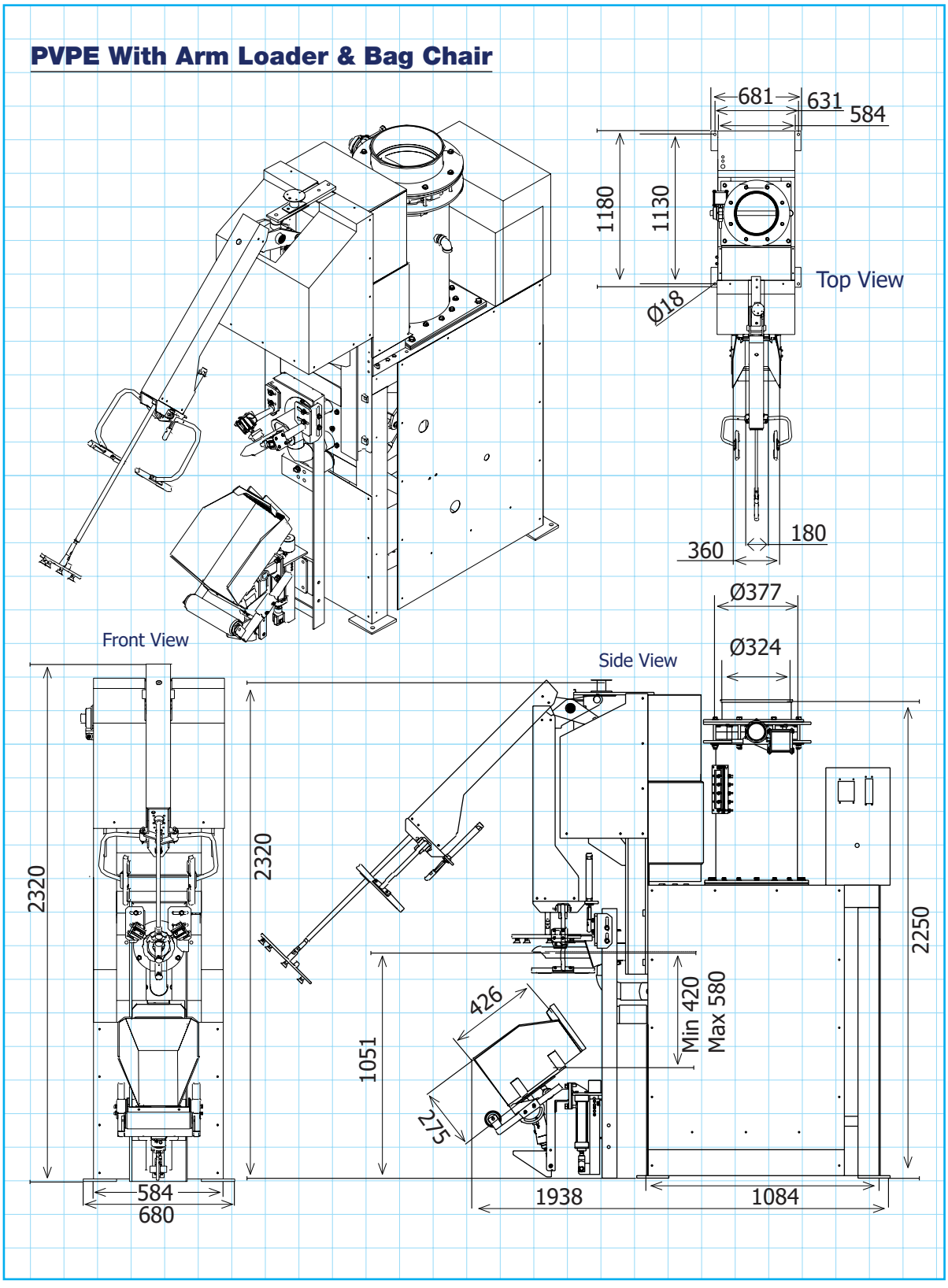
Dimensions of PVPE with Bag Chair



All sizes in mm

DIMENSIONS

PVPE With Arm Loader & Bag Chair



All sizes in mm

QUESTIONAIRRE

DATA REQUEST

Quotation due date _____ Estimated installation date _____

Project for: (Name) _____

(Address) _____ Funds approved: Yes ☐ No ☐

(City) _____ Quarter: _____

(Plant location) _____

Contact: (Name) _____

(Title) _____

(Telephone) _____

Equipment discussed _____

_____

_____

_____

Copy of proposal to:

Customer _____

Customer _____

Salesman _____

_____

Others _____

_____

Attachments:

Supplement ☐ Bag sample ☐

Pallet Data ☐ Product sample ☐

Sketch / Drawing ☐ Hazard sheet ☐

Product Details:

One (1) sample & product hazard sheet to be forwarded on (date) _____

A	Name:			
B	Description:			
C	Particle Size (Mesh):			
D	Density:			
E	Pack Temperature:			
F	Flash Point:			
G	Melting Point:			
H	Angle of Repose:			
I	Bridging Characteristics:			
J	Corrosive:			
K	Abrasive:			
L	Hygroscopic:			
M	Explosive:			
N	Flammable:			
O	Toxic:			
P	Poisonous:			
Q	Cost:			
R	Other:			

Filling Bag Details:

Empty samples will be forwarded (date) _____

		Empty	Filled	Empty	Filled	Empty	Filled
A	Bag Face Width:						
B	Bag Gusset Width/Thickness:						
C	Bag Length:						
D	Top & Bottom Width:						
E	Bag Type (O.M.,Valve):						
F	Valve Size (inside):						
G	Valve Location:						
H	Valve Sleeve Type:						
I	Valve Sleeve Dimensions*:						
J	Bag Construction:						
K	Rigid Container Diameter/Width:						
L	Rigid Container Length:						
M	Rigid Container Height:						
N	Rigid Container Tare Wt:						
O	Net Bag/Container Filled Wt:						

* Length from outside edge of bag to inside edge of sleeve insert.

O.M.= Open Mouth
Valve= Valve Bag

Performance Requirements:

A DUTY: Hours/Day _____ Days/Week_____ Weeks/Year _____

B Kg per Hour:			
C Bags/Containers per minute:			
D Accuracy at 2 Sigma:			
E % of Production:			

F Operating Environment: Wet _____ Dusty____ Dry _____ Clean ____

G Operating Temp (Min/Max): Per Day ____ Per Day _____ Humidity_____

H Surge Hopper Cap:			
I Headroom:			

J Automation of Bag Placement: ☐ Manual ☐ Automatic

K ☐ Please advise of room availability. Add hand sketches or photos.

Utilities:

A Power Voltage: _____ Ph. _____ Hz. _____

B Control Voltage: _____ Ph._____ Hz._____

C Classification controls: Dust tight ____ Water tight _____

Explosion proof: Class ____ Group ____ Div. _____ Other _____

D Motors: Exp. proof ____ Chem. duty _____ Hi eff. _____ Other _____

E Compressed air: PSI _____ Volume CFM _____ Pressure _____

Materials of Construction:

F Platework type: _____ Product contact only _____ All other (specify)_____

G Paint: powder coated _____ other (submit specs) _____

Equipment Details: (Describe components & provide sketch of layout including critical dimensions & obstacles)

A _____

_____

_____

B ☐ by AWE Group ☐ by Others

C Controls Description: _____

_____

_____

D Additional info & comments: _____

_____

_____

AWE - THE BEST IN THE BUSINESS

AWE has built a reputation in providing world class products and services to customers from a wide range of industries for many unique applications. All the products come with AWE Quality Guarantee- giving you the assurance that they have been tested to meet or exceed the specifications and requirements of your application.

At AWE, it's more than just delivering perfectly-designed equipment, it also requires a team of dedicated people who will back you up with great service and support. Any servicing, installation and technical support issues you encounter can be addressed either onsite or remotely by our engineers and tradesmen who carry qualifications as:

- Licensed Tradesmen
- Mechanical Engineers
- Electrical Engineers
- Structural Engineers
- Draftsmen
- Fitter & Turners
- Boilermakers
- Fully Qualified Scale Makers
- Electronic Technicians
- Instrument Fitters
- Electricians
- Service Technicians
- Project Managers
- Formworkers
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- **packaging equipment**
- **bulk materials handling**
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Batching Consoles


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Maintenance

WHO IS "AUSTRALIAN WEIGHING EQUIPMENT GROUP"

Jeff & Trevor Baillie started Australian Weighing Equipment (or AWE) in 1981, focusing on weighing solutions based on engineering principles. For nearly 40 years AWE has built its reputation as a leading supplier of robust weighing, packaging & bulk handling equipment. Our innovative engineering and continuous product developments have led to designs that will stand up to the rigours and demands of your applications.

AWE has increased its investment in manufacturing facilities with a new 3,200sq/m factory in Sydney which features;

- A CNC Machine Shop
- Heavy Metal Fabrication Shop
- Larger work areas for our team of qualified tradesman

Acquisitions of Bradwood Packaging and Dendy Packaging and Design Engineering has increased our packaging and engineering experience.

In 2008, AWE established a manufacturing facility in China - AWE Group Packaging and Bulk Materials Handling Equipment, a purpose-built 5,000sq/m factory in Suzhou China (70kms From Shanghai).

All of the products we offer are Australian designed and manufactured under our strict quality control system in our own factories both locally and internationally.

LOCATIONS OF AUSTRALIAN WEIGHING EQUIPMENT

Australian Weighing Equipment - Sydney Office
8 Heald Road
Ingleburn NSW 2565

Australian Weighing Equipment - Melbourne Office
37 Barrie Road
Tullamarine, VIC, 3043

Australian Weighing Equipment - Brisbane Office
7 Darnick Street
Underwood, QLD 4119

AUSTRALIAN WEIGHING EQUIPMENT ON SOCIAL MEDIA

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/company/awegroupaustralia

www.youtube.com/AustWeighing

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Dealer's Information:

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