

# Introducing:

## a properly purpose built mine-site explosives storage magazine

**Mine Site Managers –  
don't make the mistake  
of buying a cheapie!**

**IRVINE ENGINEERING (WA) PTY LTD**



**If you wish to have proof that your site is fully compliant with all of the Explosives Storage Regulations, your best move is to have a properly constructed explosives magazine.**

Unlike shipping containers merely adapted for the purpose, as used on some sites, the Irvine range of Explosives Storage Magazines are built specifically for their purpose.

With 30 years experience in building quality explosives magazines, Irvine Engineering is meticulous in ensuring compliance with every detail of Explosives Storage Regulations throughout the country.

The Irvine range of Explosives Storage Magazines are an icon of the mining industry in WA. They're now being built to the exact same specifications in Irvine Engineering's new fabrication workshop facility in Mackay, Queensland.

You may get away with a 'just compliant' converted container for the time being, but as standards for storing dangerous goods are upgraded, so inspections will give credit to the product that's purpose built to the new Australian Standard/ AS2187.1-1998.

### **Features of these 'Fort Knox – like' magazines include:**

- ▶ Insulation and timber lining exceeding current Standards
- ▶ Properly designed ventilation giving fully compliant air flow capacity
- ▶ Massive 6mm steel plate walls and 10mm thick doors
- ▶ fully welded external joints
- ▶ in-built rated lifting points allowing the sunroof to be left fitted for transport
- ▶ Highly secure door locking systems – 6 tongues / door
- ▶ All double door magazines have full width doors both ends (unlike sea container magazines) to make stock rotation easy - load one end, unload from the other end.
- ▶ Vastly reduced manual handling and repetitive lifting due to full width double doors - allows loading full pallets direct from a forklift onto either of the 2 rows of purpose built rated trolleys - not manual unloading/loading into converted sea containers which only have a single row of trolleys or no trolleys at all.
- ▶ Main floor beams have exposed cyclone tie down points and access for bolting down to the slab footings unlike sea containers which only have corner eye points.

**For an explosives magazine built to standards  
that will pass absolutely any inspection call:**

**QUEENSLAND:** (07) 4952 3888

47 Dozer Drive, Paget Industrial Estate,  
Mackay Qld 4740

workshop@rapidcrushing.com.au

**www.rapidcrushing.com.au**

**WESTERN AUSTRALIA:** (08) 9452 5888

577 Bickley Road, Maddington WA 6109

# IRVINE ENGINEERING (WA) PTY LTD

## MAGAZINES (without pallet trolleys)

Transport Measurements				
Capacity Tonnes	Length	Width	Height	Internal M <sup>2</sup>
10	9.00	2.75	2.9	20.240
7.5	6.80	2.75	2.9	15.180
5.0	4.60	2.75	2.9	10.120
2.5	2.56	2.75	2.9	5.438
1.0	1.49	2.75	2.9	2.967

## MAGAZINES (with pallet trolleys)

Transport Measurements				
Capacity Tonnes	Length	Width	Height	Internal M <sup>2</sup>
10	7.10	3.45	2.95	20.010 includes 10 trolleys
15	10.75	3.45	2.95	30.595 includes 15 trolleys
20	14.25	3.45	2.95	40.745 includes 20 trolleys

## DAY BOXES

	Length	Width	Height
500kg	1,700mm	950mm	1,700mm
250kg	1,100mm	600mm	895mm
Small	350mm	300mm	275mm
Large	650mm	450mm	350mm

## World's best practice explosives magazines... built specifically for their purpose!

### ALL IRVINE ENGINEERING MAGAZINES ARE BUILT TO THE NEW AUSTRALIAN STANDARD / AS2187.1 – 1998 including:

- 2m<sup>2</sup> per tonne of explosives stored.
- All external joints are fully welded.
- Ventilation/air flow/capacity are all to Australian Standards.
- Insulation and timber lining exceed Australian Standards.
- Walls are made from 6mm steel plate and doors from 10mm steel plate, to Australian Standards
- Door locking system complies with Australian Standards of 6 tongues per door.
- 1 tonne trolley has capacity of 500kg/wheel.
- Painting comprises 21/2 blast, epoxy zinc primer and white polyurethane top coat.
- Signage complies with Australian Standards and client logos can be added as an extra.
- Earth lugs comply to Australian Standards.

### OPTIONAL EXTRAS:

- External mounted free standing steel and aluminum track (set of 4)
- Earth Stake, Cable and Clamp (set of 2)
- Extra Trolleys

### FEATURES:

- Magazines have one door centrally fitted in one end, with the exception of the 10 tonne unit which has a single door both ends. All magazines fitted with pallet trolleys have double doors both ends.

- All measurements are external. Walls are insulated and lined with timber, giving each wall a thickness of 100mm. This creates an internal measurement of 20.24 m<sup>2</sup> for a 10 tonne magazine. Under a directive from the Mines Department (Explosives Branch), we must have 2m<sup>2</sup> per tonne stored i.e. 20.24 m<sup>2</sup> = 10.12 tonne magazine.

- Capacity for detonators/boosters is 4,000 detonators/boosters per 1 tonne of capacity.
- Hinges on day boxes are concealed and the padlock has a shroud to prevent access to the lock by gas cutting or bolt cutting.

### FOR MAGAZINES WITH PALLET TROLLEYS:

- Magazines are purpose built and fabricated not converted from sea containers. Welding is continuous for all external joints and seams.
- Full width double doors both ends allow forklift access to both rows of trolleys and are made with 10 mm plate with solid 200mm x 100mm x 50mm plate block grease able hinges with 6 point locking bars and 600 series lock anti punch and tamper proof and weather proofing as per the standard.
- Includes aluminum trolleys rated to carry the standard pallet delivered explosive product and can be directly loaded into the magazine which eliminates a lot of manual handling. Each wheel rated at 500 kg.
- Sunroof is fitted to the magazine and is transported complete the 1.55 zinc sheeting is fastened to cyclone rated specifications.



2.5 Tonne Explosives Magazine



Pallet Trolley



Double Door



Small and Large Day Boxes



20 Tonne Explosives Magazine