

DIRECT FIXING TOOLS AND ACCESSORIES



Gas Technology - How it works



- 1. Spark Plug
- 2. Fan Motor
- 3. Fuel Port
- 4. Combustion Chamber
- 5. Piston Assembly
- 6. Cylinder

With its own internal combustion engine, Ramset™ Gas Technology fastens cable management, wiring accessories and partitioning track much faster than any other system!

At the heart of RamsetTM Gas Technology is the patented linear combustion engine. With its steel piston rings and precision-machined combustion chamber, RamsetTM Gas Technology drives fasteners all day long, week after week, year after year.

How to select a Ramset™ Gas Technology Fixing to directly fasten an object for permanent installation

Fixing to concrete

As the fixing enters the concrete, extreme pressure and heat are created. This creates a bond that provides high loading strength in concrete.

Edge distance

Do not fix closer than 75mm from the edge of concrete. If the concrete cracks, the fixing may not hold.

Recommended minimum fixing spacing

Setting fixings too close together can cause the concrete to crack. The recommended minimum distance between fixings is 50mm. Never attempt a fixing application too close to another fixing as this could affect the previously inserted fixing's embedment.

Concrete thickness

It is important that the concrete be at least three times as thick as the fixing penetration. If the concrete is too thin, the compressive forces forming at the fixing's point can cause the free face of the concrete to break away. This creates a dangerous condition from flying concrete and / or the fixing and also results in a reduction of fastener holding power.

Fixing to steel

The resilience of steel provides a clamping effect to the fixing. This combined with the tremendous heat that is created, provides a welding and clamping effect to give maximum holding power.

Edge distance

The recommended edge distance for a fixing to the edge of steel is 13mm. Never fire the tool within 13mm of the edge of a steel base material because the steel may bend or break off, allowing the fixing to ricochet.

Recommended minimum fastener spacing

The recommended minimum distance between fixings is 25mm. Never attempt a fixing application too close to another fixing as this could affect the previously installed fixing's embedment.

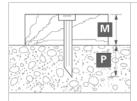
Steel thickness.

Do not fasten into steel base material thinner than the fastener shank diameter. Holding power may be reduced and the fastener may be overdriven.

As a guide when:

• Fixing into steel - min. steel thickness = 3mm

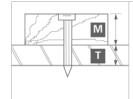
Minimum Shank Length



Minimum Shank Length

Thickness + Required of material penetration (M) (P)

Minimum Shank Length



Minimum Shank Length

Thickness + Thickness + 5mm of material of steel point (M) (T) allowance

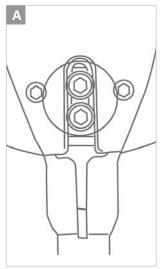
Adjusting Fastener Penetration - TrakMaster™ Only

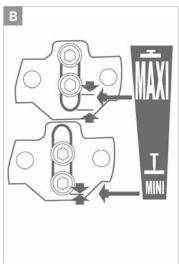
All RamsetTM Gas Technology tools automatically adjust their power to suit the supporting material. These gas technology tools can adjust their power up to a maximum impact energy that is determined by the capability of each tool model. (This is one of the main differences between RamsetTM Gas Technology tools and Powder Actuated tools).

Even though Ramset™ Gas Technology tools automatically adjust their power, certain applications may require the fastener to penetrate deeper into the base material or penetrate less.

RamsetTM TrakMasterTM tools are designed with a feature that allows adjustment of the fastener penetration to be performed. This adjustment is dependent both on the type and hardness of the base material and on the object being fixed. The adjustment does not affect the impact energy that is supplied to the fastener.

Adjusting Penetration



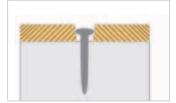


Penetration is adjusted by slackening the two screws (A) on the upper part of the barrel using the allen key provided and moving them backwards or forwards (4mm) in the recess on plate (B).

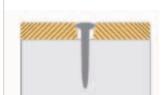
The adjustment range is 4mm. Intermediate adjustments between maximum and minimum are possible.

For best fixing results, check the adjustment position before and during work.

Maximum Penetration



Minimum Penetration



Pulsa™ Technology - TrakMaster™ Only

As gases are affected by temperature, to generate exactly the same power in a gas technology tool the fuel injector must vary the amount of gas delivered to the combustion chamber. With traditional mechanical fuel delivery systems as found in the TrakFastTM tool this variation is not possible and differences in power are evident at very low (i.e. -5°C) or high temperatures.

However, the TrakMasterTM tools use PULSATM Technology which employs temperature dependent Electronic Fuel Injection (E.F.I.) to accurately inject the exact amount of gas that the tool requires no matter what the ambient temperature is. The tool actually detects what the ambient temperature is and calculates the amount of gas to release from the fuel cell. This 'smart' technology ensures that the tool delivers the right amount of power... every time!

TrakMaster™ for Ceiling, Partioning and General Contractors



Substrates

- Concrete
- Composite steel decking
- Solid brick
- Precast
- Steel
- Pre-stressed concrete
- Hollow block wall
- Reinforced concrete
- Reinforced prefabricated concrete

Cycle Rates

Intermittent operation 2 pins per second Fuel cell life 650 pins (approx) Battery charge capacity 1,000 pins (approx)

The fastest method of installing partioning track

Cordless and quick to set up, users can move quickly and effectively without restriction.

Product Advantages

- Cordless self powered, no setting up time required
- Sequential actuation safe operation
- Depth-of-drive (Indicated on top of the tool)
- Lock-out feature (safety)
- Belt hook
- Flared fastener guide designed for partioning track work
- 5kg actuation force
- · Soft cushioned grip
- Voltage indicator light
- Compact carrying case
- Well balanced
- Heat sensor controls amount of gas injected, relative to the ambient temperature
- Electronically controlled fuel injection
- Low maintenance
- In-car charger adaptor (accessory)

Tool Specifications

Weight 3.7kg
Height 383mm
Length 295mm

Magazine capacity 20(+3) pin magazine,

[40(+3) pin magazine accessory]

Impact force 82J Actuation pressure 5kg

Overdrive 4mm (adjustable)

Battery Specification

Voltage 6V Amperage 600mA Charging Time 1 hour

Applications







- Fixing partioning track systems to concrete, masonry, block and structural steel
- Fixing particle board flooring to steel joists
- Fixing termite protective mesh to concrete, brick, block and structural steel
- Fixing timber to concrete, brick, block and structural steel
- Fixing foils, membranes and mesh to concrete, brick, block and structural steel (using 25mm steel washers and magnetic fastener guide)

Product Range - TrakMaster™

Part No.	Description	Order Qty
9A-TRAK-MSTR	TrakMaster™ Pulsa Tool + 2 x batteries	1
Kit includes: TrakMaster™ Pulsa™	Tool, high impact carry case, batteries, battery charger, safety glasses, allen key, dust cover and instruction	manual.

Product Range - All-purpose Pin Range for Steel and Concrete Fixing







Part No.	Description	Pin Length	Order Qty
		(mm)	
Standard Duty Pin F	Range - C6 Pins (Fixing timber to concrete/light gua	ge steel)	
9A-PULS-C620	Ramset C6-20 Pins	20	500
9A-PULS-C625	Ramset C6-25 Pins	25	500
9A-PULS-C630	Ramset C6-30 Pins	30	500
0 A DI II C CCCE	Ramset C6-35 Pins	35	500
9A-PULS-C635	Harriset Co-55 Filis		
9A-PULS-C640	Ramset C6-40FH Pins	40	500
9A-PULS-C640 10 pins strip collation (suita			500
9A-PULS-C640 10 pins strip collation (suita	Ramset C6-40FH Pins able for use in 20 and 40 pin magazines); box of 500 pins + 1 x Fuel Cell		500
9A-PULS-C640 10 pins strip collation (suita Heavy Duty Pin Ran	Ramset C6-40FH Pins able for use in 20 and 40 pin magazines); box of 500 pins + 1 x Fuel Cell age - HC6 Pins (Premium Hard Concrete/Steel)		
9A-PULS-C640 10 pins strip collation (suita Heavy Duty Pin Ran 9A-PULS-HC15	Ramset C6-40FH Pins able for use in 20 and 40 pin magazines); box of 500 pins + 1 x Fuel Cell age - HC6 Pins (Premium Hard Concrete/Steel) Ramset HC6-15 Pins	15	500
9A-PULS-C640 10 pins strip collation (suita Heavy Duty Pin Ran 9A-PULS-HC15 9A-PULS-HC17	Ramset C6-40FH Pins able for use in 20 and 40 pin magazines); box of 500 pins + 1 x Fuel Cell age - HC6 Pins (Premium Hard Concrete/Steel) Ramset HC6-15 Pins Ramset HC6-17 Pins	15 17	500 500

Product Range - Special Applications Pin Range





Part No.	Description	Pin Length	Order Qty
Wood Pin Range - C	CW6 Pin (Fixing into wood)	(mm)	
9A-PULS-CW25	CW6-25 Pin	25	500
10 pins strip collation (suita	able for use in 20 and 40 pin magazines); box of 500 pins + 1 x Fuel Cell		
Throaded Duty Pin	Panga THC6 Pine (Promium Hard Congreta (Steel)		
•	Range - THC6 Pins (Premium Hard Concrete/Steel) THC6 M621 (Thread Size M6)	21	500
Threaded Duty Pin I 9A-PULS-TH21 9A-PULS-TH26	Range - THC6 Pins (Premium Hard Concrete/Steel) THC6 M621 (Thread Size M6) THC6 M623 (Thread Size M6)	21 23	500 500

Product Range - Washer





Part No.	Description	Order Oty
9A-PULS-WASH	Ø 25 mm Washer	1,000

Product Range - Accessories













Part No.	Description	Order Oty
9A-PULS-MAGH	Magnetic Fastener Guide	1
9A-PULS-40MG	40 Pin Magazine	1
9A-PULS-BATT	Battery	1
9A-PULS-CHAR	Battery Charger	1
9A-PULS-ADAP	Charger Adapter	1
9A-PULS-LOCK	Belt Lock	1
9A-PULS-LIFT	SPIT lift Pole Tool	1
9A-PULS-CKIT	Tool Cleaning Kit	1