

Monobolt® \varnothing 10 mm ($3/8$ ")

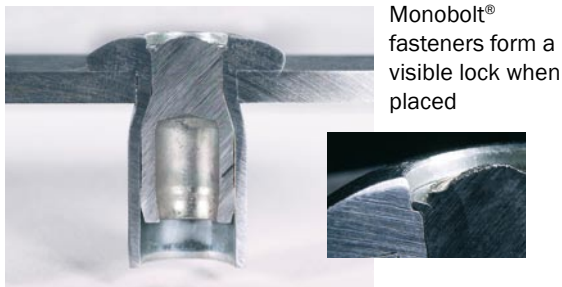
Large Diameter Structural Multi-grip Fastener

The 10mm ($3/8$ ") size Monobolt® fastener extends the range of Avdel® breakstem fasteners for load-bearing structural applications, combining the benefits of blind side assembly with high clamp loads over a wide grip range. It is the ideal solution for applications requiring one sided access and a high strength fastener.



Exceptional shear strength and clamp load

Designed to deliver the high strength performance required in structural applications, it is the strongest breakstem fastener in its class.



Monobolt® fasteners form a visible lock when placed

Excellent hole fill

The radially expanded body is capable of filling irregular, oversized, slotted or misaligned holes, whilst providing very strong, vibration resistant joints. It can also stop sheet movement in non-standard holes.

Wide grip range

By accommodating wide variations in material thickness, 10mm ($3/8$ ") Monobolt® fasteners can be used in a variety of applications to reduce assembly time, stock levels and costs.

Stem mechanically locked into body

A mechanically locked stem provides very strong, vibration resistant joints without the damage, electrical problems or rattling due to loose stems. The visible lock provides the ability to visually inspect for correct installation.



Technical Data

Headform:

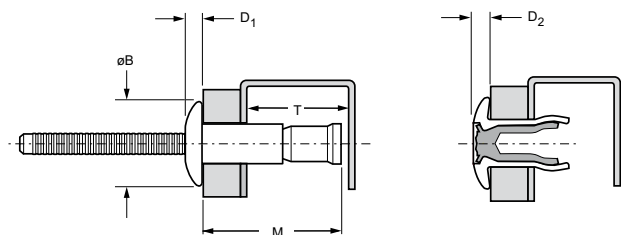
Protruding head

Material and finish:

2711 series: Stainless steel

2771 series: Steel, zinc plated and clear passivated

2774 series: Aluminium



\varnothing nom.					M max.	\varnothing B max.	D ₁ max.	T min.	D ₂ max.			Part No/ref
	min.	max.	min.	max.								
10.0 ($3/8$ ")	3.04 (.120)	15.88 (.625)	9.95 (.392)	10.4 (.409)	36.2 (1.425)	20.3 (.798)	4.1 (.160)	22.3 (.875)	4.0 (.156)	26.1 kN 5863 lbf	19.4 kN 4361 lbf	02711-01228
										26.3 kN 5940 lbf	17.5 kN 3953 lbf	02771-01228
										12.6 kN 2840 lbf	9.3 kN 3092 lbf	02774-01228

Dimensions in mm and (inches)

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Installation Tools for Monobolt® Fasteners $\varnothing 10\text{mm}$ ($3/8''$)

7287 Model

Recommended for large volume production use

Features

- Installs Monobolt® $\varnothing 10\text{ mm}$ with single pull action
- Hydro-pneumatic split tool
- Extended stroke and pull force
- Short cycle time
- Lightweight placing head
- Remote intensifier mounted on castors
- 3 m hose length

Benefits

- Does not require second actuation (two pulls)
- High placement speed
- Can offer labour cost savings
- Can increase assembly capacity
- Reduces operator fatigue
- Flexible use in the assembly line
- Reduced noise output during fastener installation

Basic Tool: Part No. 07287-00200
Complete Nose Equipm.: Part No. 07220-07200
(including Nose Tip)
Nose Tip: Part-No. 07220-07101



Specifications

Pistol weight (without equipment)	1.47 kg
Total weight (without equipment)	40 kg
Pull force @ 5.5 bar	32.4 kN
Stroke min. under load	29 mm
free cycling	32 mm
Cycle time (approx.)	1.7 sec
Air supply pressure	5 - 7 bar
Free air volume @ 5.5 bar	3.5 litres
Noise level	75 dB(A)
Vibration	< 2.5m/s ²

722 Model

Recommended for prototyping and low volume production use

Features

- Two tool actuations are needed to fully place the Monobolt® $\varnothing 10\text{mm}$ fastener
- Hydro-pneumatic hand tool
- Cast aluminium tool body
- Designed for heavy duty use over long periods of time

Benefits

- Extremely durable tool
- High reliability

Basic Tool: Part No. 07220-00200
Complete Nose Equipm.: Part No. 07220-07200
(including Nose Tip)
Nose Tip: Part-No. 07220-07101



Specifications

Weight (without equipment)	5.0 kg
Pull force @ 5.5 bar	26.7 kN
Stroke min.	19 mm
Cycle time	3.0 sec
Air supply pressure	5.4 – 8.5 bar
Free air volume @ 5,1 bar	14.6 litres
Noise level	72 dB(A)
Vibration	< 2.5m/s ²

