

S140 Rear Drive Drifter

Engineered for maximum impact, the S140 is a heavy-duty, high-output pneumatic rock drill built to dominate the toughest drilling environments. With its colossal 140 mm (5.5") piston—the largest in its class—it redefines industry benchmarks for raw power and reliability. From quarry benching and open-pit blast hole drilling to shaft sinking on Jumbo rigs and underground development, the S140 delivers exceptional penetration rates while minimizing downtime. Its service-friendly design ensures fast maintenance, keeping productivity high and operations running smoothly.

Features

The stainless steel water box, equipped with an external water feed, supports both air and water flushing operations. Its widely spaced bearings provide stability to the shank adaptor, ensuring precise piston alignment for efficient shock wave transmission and extended durability of key impact components.

Capable of drilling holes between 52-115mm in diameter at depths of up to 20m or more, the system adapts seamlessly to surface applications with air flushing and underground mining with water flushing.

Routine maintenance follows a simple strip, inspect, replace, and rebuild approach, easily managed by trained personnel. With adequate feed force and lubrication, this drifter delivers an economical, reliable, and long-lasting service life.

A five-spline shank housed in a heavy-duty chuck jaw, combined with live air lubrication, minimizes wear on critical impact components. The fully muffled cylinder with a resilient silencer enhances quiet operation, promoting better productivity.

The rear-mounted rotation motor ensures a compact overall height, while the air motor can be removed without disassembling other machine components. Four side rods provide secure clamping and can be easily withdrawn, even with the machine fully assembled.

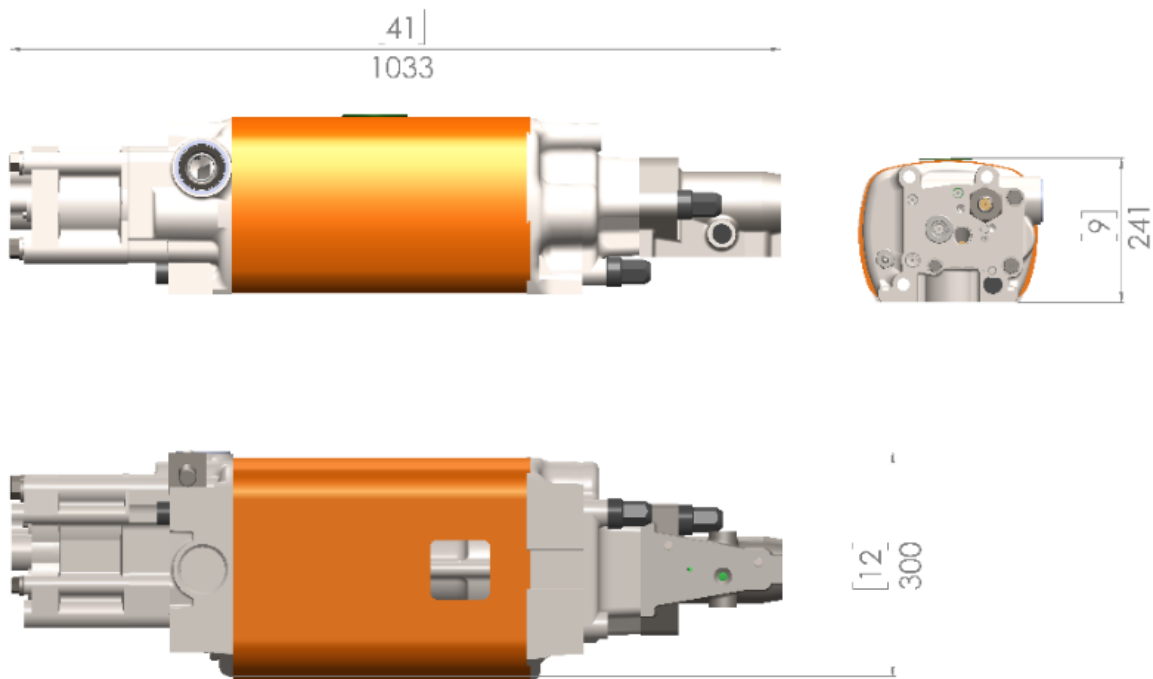
Lubrication

All drill rigs are equipped with a lubricator that delivers a precise amount of rock drill oil into the air stream, ensuring proper lubrication for key air-operated components such as the tramping motors and rock drill. These lubricators typically feature multiple outlets, each controlled by a separate metering screw. When setting the oil flow for the SECO S140, the percussion unit requires approximately 100g of oil per hour, while the air motor demands around 200g per hour. To ensure adequate lubrication for the heavily loaded front-end components, a dedicated feed is drawn from the air motor supply and directed forward via a bypass tube within the muffle. The appropriate type of rock drill oil depends on ambient working temperatures, and major lubricant manufacturers provide suitable recommendations. Notably, flushing air does not require lubrication, and the flushing hose's connection point to the rock drill fronthead is positioned upstream of the lubricator.



	Metric	Imperial
Stroke	59 mm	2.32 Inch
Bore	140 mm	5.5 Inch
Length (without Shank)	1030 mm	40.55 Inch
Mass	180Kg	397 lb
Blows Per Minute		
Rotation Motor	4.0 Kw @ 120 RPM—5 bar	236 ft lbs @ 73 psi
Nominal Diameter	52 - 115 mm	2 —4.5 inch
Reamed Diameter	up to 152 mm	up to 6 in
Drilling Dept Capacity	up to 46 m	up to 150 ft
Air Consumption	212 L/sec @ 7 bar	450 cfm @ 100 psi
Water Requirements	37 L/min @ 5 bar max.	10 gpm @ 70 psi max.
Air Connection -Hammer	40 mm	1.5 in
Air Connection -Rotation	25 mm	1.0 in
Water Connection -	20 mm	0.75 in
Water Requirements	37 L/min @ 5 bar max.	10 gpm @ 70 psi max
Shank Size	Male 45 mm Five Spline Shank	

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Sub Assemblies are available for trouble free Maintenance

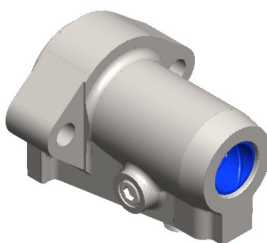
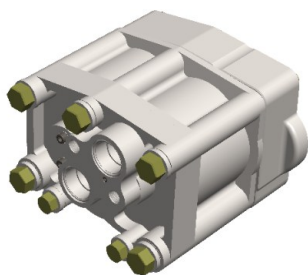
Ordering Numbers

Ma-S140

SA-S140-Rotmo Complete Gearbox

Gearbox

Stainless Steel Waterbox (Internal Water Flushing)



Impco Engineering carries a full range of parts for the S140 drill in stock. All parts made in South Africa in Our factory based in Rosslyn, Pretoria North to precise specifications using only the highest quality tool steel