

MINI MULTI-CUTTER

Powered by BZ-BOTS



A powerful but simple mechanical robot, harnessing the high speed and torque of the Mini Miller for precision and performance. This robust Multi-Cutter delivers impressive results in underground or vertical pipes, with a small setup and without the need for a large air compressor.

It navigates multiple 90° bends with ease, making it ideal for CIPP reinstatements and concrete/failed liner removal in DN100-150 (4-6") pipes with a range up to 26m (82').

View operations via the integrated camera module while using the Picote Push Rods to position the Cutter. Compressed air controls the cutting head movement (up/down). The tool case, portable Mini Miller +C and Push Rods combined with a small air compressor easily fit into any service vehicle.

USES AND BENEFITS

- **Simplified:** Modular design with no complex electronics - easy to maintain and repair.
- **Cutting Head:** Precise, manual angle adjustments from 0° to 90°, allowing operators to pre-set desired cutting angle outside the pipe for maximum accuracy and ease.
- **Lifting Arm:** The air-powered arm lift simplifies positioning & adjustments while in the pipe during operation.
- **Powerful:** Mini Miller provides the high power and torque needed for high performance cutting.
- **Camera Cleaning:** Integrated airflow keeps the lens clear for uninterrupted visibility.
- **Camera/Screen:** Cutter's integrated camera works with both the Mini Miller +C & the new +C HD. While the Cutter itself has a standard resolution camera, the +C HD system features a larger 10.1" screen which makes viewing much easier. When using a Mini Miller without the Cutter, the +C HD provides superior visibility & inspection capabilities.
- **Ongoing Development:** DN200 (8") centralisers in development to expand cutting capabilities.
- **Multi-Use:** Picote Mini Miller and Push Rods with Turning Handle can be used for other rehab & cleaning operations.
- **Options:** Different packages are available, depending on whether you already own a Picote Mini Miller and/or Push Rods. Packages are also available to easily upgrade a Mini Miller to a Mini Miller +C HD.

Technical Specifications

Category	Specification
Pipe Diameter	DN100-150 (4-6")
Range	Standard: 16m (50') Extended: 26m (82')
Bends	45-90°
Weights	
Mini Multi-Cutter	2.45 kg / 5.4 lbs
Mini Multi-Cutter w/Tool Case	15.5 kg / 34.2 lbs
Mini Miller +C HD	31.5 kg / 69 lbs
Sizes (WxLxH)	
Mini Multi-Cutter	420x85x65mm 16x3.3x2.5"
Mini Multi-Cutter with Fixed Shaft Leader	620x85x65mm 24x3.32.5"
Mini Multi-Cutter Tool Case	620x410x250mm 24x16x10"
Mini Miller +C HD	740x519x404mm 29x20x16"
RPM	500-2700
Power	220-230V / 110-120V
Min/Max Air Pressure	8/10 Bar (116/145 PSI)
Min. Air Volume (approx.)	150l/min / 5.3CFM

Versatile Multi-Use Package

- **Mini Multi-Cutter:** with integrated camera module and DN100 & 150 (4 & 6") Centralisers. *DN200 (8") Centralisers in development.*
- **Multiple Milling Heads:** 3 Carbide Milling Balls & 2 Diamond Milling Balls (multiple sizes).
- **Multi-Cutter Tool Case:** Compact and robust tool case with extendable handle for easy storage and transportation.
- **Push Rods:** Strong enough to push, pull and rotate, while also flexible enough to navigate multiple bends. Also use with Connection Collars, Packers and Grabber Heads for Push Rods.
- **Control Handle:** Makes pushing, pulling, rotation & air control incredibly easy and intuitive.



All Mini Multi-Cutter Packages Include:

- Mini Multi-Cutter for DN100-150 (4-6")
- Integrated Camera Module
- DN100 (4") & DN150 (6") Centralisers
- Control Handle
- Carbide Ball Milling Head, $\varnothing = 26 \times 29 \text{mm}$ (1x1.14")
- Carbide Half Ball Milling Head, $\varnothing = 30 \times 15 \text{mm}$ (1.2 x.6")
- Carbide Half Ball Milling Head, $\varnothing = 46 \times 32 \text{mm}$ (1.8x1.25")
- Diamond Ball Milling Head, $\varnothing = 36 \text{mm}$ (1.41")
- Diamond Ball Milling Head, $\varnothing = 46 \text{mm}$ (1.8")
- Mini Multi-Cutter Tool Case

Mini Miller +C HD

A multi-use Miller for high-speed cleaning, cutting & Picote Brush Coating™. The powerful driving force for the Mini Multi-Cutter. Featuring an integrated 30m (98') colour camera that makes viewing of cleaning, coating and cutting jobs easier on the new larger 10.1" HD LCD colour screen.

Camera Specs: 2 Camera Heads (1 self-leveling & 1 non-self-leveling. Camera Head Diameter 23mm (7/8"), Lighting via 12 LEDs with brightness control. Digital footage counter. Stainless steel camera head (IP68). Record footage via SD card.

- 8mm (1/3") Shaft.
- Max Range: 16m (50') + 10m (32') extension.
- Weight: 31.5kg (69 lbs).
- Speed: 500-2900rpm.



PRODUCTS & PARTS		
PN	Product Name	Package Description
1270000002	Mini Multi-Cutter Package, DN100-150 (4-6") EU	Mini Multi-Cutter Pkg, Mini Miller +C HD, 10x Push Rods - 22mm (.86")
1270000002UK	Mini Multi-Cutter Package, DN100-150 (4-6") UK	Mini Multi-Cutter Pkg, Mini Miller +C HD, 10x Push Rods - 22mm (.86")
1270000002US	Mini Multi-Cutter Package, DN100-150 (4-6") US	Mini Multi-Cutter Pkg, Mini Miller +C HD, 10x Push Rods - 22mm (.86")
1270000003	Mini Multi-Cutter DN100-150 (4-6") +C Upgrade Pkg EU	Mini Multi-Cutter Pkg, Mini Miller +C HD Upgrade Kit, 10x Push Rods - 22mm (.86")
1270000003UK	Mini Multi-Cutter DN100-150 (4-6") +C Upgrade Pkg UK	Mini Multi-Cutter Pkg, Mini Miller +C HD Upgrade Kit, 10x Push Rods - 22mm (.86")
1270000003US	Mini Multi-Cutter DN100-150 (4-6") +C Upgrade Pkg US	Mini Multi-Cutter Pkg, Mini Miller +C HD Upgrade Kit, 10x Push Rods - 22mm (.86")
1270000004	Mini Multi-Cutter DN100-150 (4-6") with Push Rods Only	Mini Multi-Cutter Pkg, 10x Push Rods - 22mm (.86")
1270000004US	Mini Multi-Cutter DN100-150 (4-6") US w/Push Rods Only	Mini Multi-Cutter Pkg for US, 10x Push Rods - 22mm (.86")
1270000001	Mini Multi-Cutter DN100-150 (4-6")	Mini Multi-Cutter Package for EU & UK
1270000001US	Mini Multi-Cutter DN100-150 (4-6") US	Mini Multi-Cutter Package for US
3540005817	Mini Miller +C HD, 230V EU, 8mm Shaft	Mini Miller +C HD, 230V for EU
3540005817US	Mini Miller +C HD, 110V US, 1/3" Shaft	Mini Miller +C HD, 110V for US
3540005817UK	Mini Miller +C HD, 110V UK, 8mm Shaft	Mini Miller +C HD, 110V for UK
3540005000EU	Mini Miller +C HD Upgrade Kit 230V EU	+C HD Camera Upgrade Kit EU Mini Miller
3540005000US	Mini Miller +C HD Upgrade Kit 110V US	+C HD Camera Upgrade Kit US Mini Miller
3540005000UK	Mini Miller +C HD Upgrade Kit 110V UK	+C HD Camera Upgrade Kit UK Mini Miller
1410000023	Push Rod 22mm (.86") 1.5m (5')	1x Push Rod, 22mm (.86"), 1.5m (5')
1410000049	Push Rod 22mm (.86") .75m (2.5')	1x Push Rod 22mm (.86"), .75m (2.5')
1270000015	Carbide Ball Milling Head, Ø = 26x29mm (1x1.14")	Replacement Carbide Ball Head
1270000011	Carbide Half Ball Milling Head, Ø = 30x15mm (1.2 x.6")	Replacement Carbide Ball Head
1270000012	Carbide Half Ball Milling Head, Ø = 46x32mm (1.8x1.25")	Replacement Carbide Ball Head
1270000013	Diamond Ball Milling Head, Ø = 36mm (1.41")	Replacement Diamond Ball Head
1270000014	Diamond Ball Milling Head, Ø = 46mm (1.8")	Replacement Diamond Ball Head