

TRUSTED BY THE BEST, WORLDWIDE MAGNETIC DRILLING MACHINES, CUTTING TOOLS & METALWORKING SOLUTIONS

JEI
Solutions
.....
Built for Industry



MAGBEAST®

Premium Portable
Magnetic Drilling Systems

turbo™

High Performance Annular
Broaching Cutters

STEELBEAST®

Distinctive Metal
Fabricating Equipment

AIRBEAST™

Portable Pneumatic
Drilling Systems



2023 EDITION

JEI Solutions



JEI's 2023 catalogue encompasses our most complete and advanced range to date.

New innovations in magnetic drilling technology include the MiniBeast™ Cordless machine along with the Magbeast® Premium PRO range of new generation magnetic drilling and tapping machines, which incorporate new operator focused features to deliver the ultimate hole-making experience.

Our extended range of cutting tools for steel offer more solutions to the steel fabricator, covering a complete range of applications. There are more unique ways than ever to speed up and enhance production of bevelled, weld-ready plates and pipes. With a complete range from mini hand operation through to fully-automated heavy-duty bevellers, it is JEI's mission to speed up your metalworking process.

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PAGES 40 - 51 | MAGNETIC DRILLING ACCESSORIES



PAGES 52 - 95 | CUTTING TOOL SOLUTIONS



PAGES 96 - 113 | STEELBEAST® RANGE OF METAL WORKING SOLUTIONS





INNOVATING SOLUTIONS FOR DRILLING AND CUTTING STEEL SINCE 1993

JEI Drilling & Cutting Solutions is a British company, manufacturing premium solutions for steel since 1993. We are primarily recognised as the business behind MagBeast® portable magnetic drilling machine and Turbo™ annular broaching cutters.

For over 30 years, we have made it our mission to constantly innovate and develop a range of solutions to meet the changing and ever-demanding challenges of industry, and continually develop our portfolio of products to cater for all types of hole-making & cutting applications. Whether a customer is challenged with difficult material, is working within a restricted environment or has a demand which is out of the ordinary, we strive to find a process that fits the project. This is often achieved from a combination of our existing products or we will innovate and develop new ideas with the aim of providing the ideal solution.

Our range is further enhanced by the SteelBeast® range of steel fabrication solutions, designed to prepare steel for further processes, with a complete range of solutions for plate and pipe bevelling, punching, sawing, grinding and weld automation.

JEI's products are available in over 30 countries and expanding worldwide, supported by a network of international distribution partners who serve a diverse range of industry sectors including:

- Steel Fabrication
- Building Construction
- Bridge Building and Repair
- Rail Industry
- Offshore Oil and Gas Construction
- Mining
- Ship Building
- Defence Systems
- Power Regeneration Plants
- Precision Engineering

JEI customers are supported by our highly experienced sales, technical and service personnel. Our knowledgeable team provides exceptional customer service and are always on-hand to assist in finding the perfect solution to your project needs, whether you are UK-based or elsewhere in the world.

David McFadden

David McFadden
Founder | Managing Director



MINIBEAST™ RANGE

JEI's flagship MiniBeast™ magnetic drilling machine has over 15 years of proven performance, making it the leading mini magnetic drill in the UK. MiniBeast™ models are compact and portable, making it the essential drill for using on-site and in workshops.



MiniBeast™
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MiniBeast™ Cordless
See Page 8 - 9



MiniBeast™ Auto
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MiniBeast™ Thin
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MiniBeast™ Curve
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MiniBeast™ Safe-Base
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MiniBeast™ RT
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MidiBeast™
See Page 14



MiniBeast™ LP35+
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MAGBEAST® HM RANGE

The MagBeast® HM range is our UK manufactured range of magnetic drilling machines. The standard features include a lightweight yet robust machine casting design allowing the operator ease of movement through multiple handle lifting points.



Ultra Low Profile
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MagBeast® LP45
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MagBeast® HM40EX
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MagBeast® HM50
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MagBeast® HM50T
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MagBeast® HM100
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MagBeast® HM100T
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MagBeast® HM140T
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MagBeast® HM200T
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MAGBEAST® PRO RANGE

The MagBeast® Pro range by JEI is a new generation range of premium portable magnetic drilling solutions, designed to maximise portable drilling processes. Incorporating heavy-duty design and build to ensure maximum hole cutting performance when it matters.



MagBeast® PRO-52T
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MagBeast® PRO-72T
See Page 29



MagBeast® PRO-122T
See Page 30



MagBeast® PRO-152T
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AIRBEAST® RANGE

Specialist range of portable pneumatic drilling and tapping solutions. Even in difficult and restrictive environments, the AirBeast® can meet challenging demands.



AirBeast® 35A
See Page 32



AirBeast® 45A
See Page 33



AirBeast® 200A
See Page 34



TURBO™ RANGE

A new economical, lightweight magnetic drilling solution from JEI designed for practical hole making, with both TCT and HSS cutters.



Turbo™ 35+
See Page 38 - 39



RAILBEAST® RANGE

JEI's range of rail drilling machines is designed for tough rail track drilling. These user-friendly drills feature fast positioning, quick clamps and an instant unlocking mechanism for safe and effective use.



RailBeast® RDE-36
See Page 36



RailBeast® RDP-36
See Page 37



miniBEAST™



MINIBEAST™

THE ORIGINAL BEST SELLER

A magdrill that's lightweight and powerful for maximum performance. JEI Solutions' flagship drill, the MiniBeast™ offers a lightweight yet powerful drilling solution. Weighing only 10kg, this portable magnetic drill is perfect for on-site or workshop use. Through its unique features, compact size and power, the MiniBeast™ has become a popular choice for the steel fabricator.

- ✓ Compact size and weight making it ideal for site work.
- ✓ Internal hidden coolant tank ensures cutter remains cool throughout drilling process.
- ✓ Self correcting slide rails for maintenance-free operation.
- ✓ Lightweight at only 10kg.
- ✓ Hidden motor cable for added protection.
- ✓ Left or right hand sided handle operation.



OUR MOST POPULAR MACHINE!

turbo
MAXIMISE THE PERFORMANCE
JEI Turbo™ Cutter Range

UK
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WHY THE MINIBEAST™?

Take a look at the features and benefits of the MiniBeast™.

Part no' DRILL-19041 ⚡ 110 V
Part no' DRILL-19042 ⚡ 240 V



Internal hidden coolant tank, ensures cutter remains cool throughout drilling process.



Maintenance-free slide rails.



Light and compact for easy positioning on the workpiece.



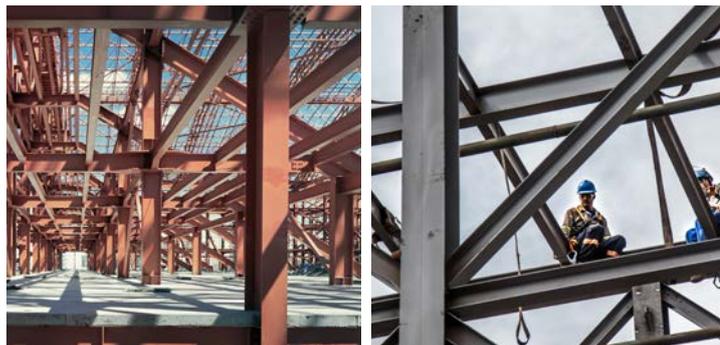
Can be used with twist drills. (see page 78) The MiniBeast™ provides a 12mm capacity.



35mm cutter capacity, a great capacity to size ratio.



Hidden motor cable. Prevents cord breakage and increases ease of use.



PERFECT FOR STEEL CONSTRUCTION

With heavy demands on transport infrastructure, whether it be existing bridge structure maintenance or new builds, an effective fabrication of steel plays a crucial role of holding the structure together. The need for hard-wearing, heavy-duty yet portable machines has meant that JEI has been a key provider of solutions for the bridge builder for many years.





MiniBeast™ SPECIFICATIONS



Model	MINIBEAST™
Weight	10 kg
Cutter Capacity	35mm Ø x 2" depth of cut
Twist Drill Capacity	12 mm with optional Turbo™ twist drills
Motor	1010 watts
Height Min/Max	307 / 377
Length	240 mm
Width	166 mm
RPM	1 Fixed Speed (no load 520 RPM, loaded 350 RPM)
Magnetic Base Dimensions	160 mm x 80 mm
Magnet Deadlift (on 25mm plate)	980 kg on 1" Plate (9600 N)
Noise Level	< 90dB
Vibration Level	< 2.5 m/s ²
Voltage / Part Number	110 V - DRILL-19041 / 240 V - DRILL-19042
Shipping Weight	13.3 kg
Shipping Dimensions	490 mm x 380 mm x 190 mm



MiniBeast™ Kit

THE PERFECT MINIBEAST™ STARTER KIT

MiniBeast™ Kit includes:

- 1x MiniBeast™ Drill (110 V or 240 V)
- 1x 5 Piece Turbo™ Steel Cutter Set (14, 16, 18, 20, 22 mm x 1" Depth & Pin)
- 1x 500ml Turbo™ Tough Drill and Tap Spray

Part no' MINIBEAST-SET1 ⚡ 110 V | MINIBEAST-SET2 ⚡ 240 V



TCT Cutter Range

MAXIMISE THE MINIBEAST™ PERFORMANCE

Turbo™ Tough TCT Cutter Range.

Maximise the performance of your MiniBeast™ with our Turbo™ Tough TCT Cutter Range. Our cutters and tools are designed to be long-lasting, withstanding vigorous usage without compromising on performance or precision.

What's included with the MiniBeast™?

Three spoke handles, safety strap, safety guard, 4mm & 5mm allen keys, plastic carrying case and an operators manual.

Have any questions? Feel free to get in touch or contact your local distributor.

JEI Solutions



turbo
MAXIMISE THE PERFORMANCE
JEI Turbo™
Cutter Range

turbo **STEEL**
TWIST DRILL CAPACITY UP TO 12MM
Only with JEI Turbo™ Twist Drills



miniBEAST™



MINIBEAST™ CORDLESS

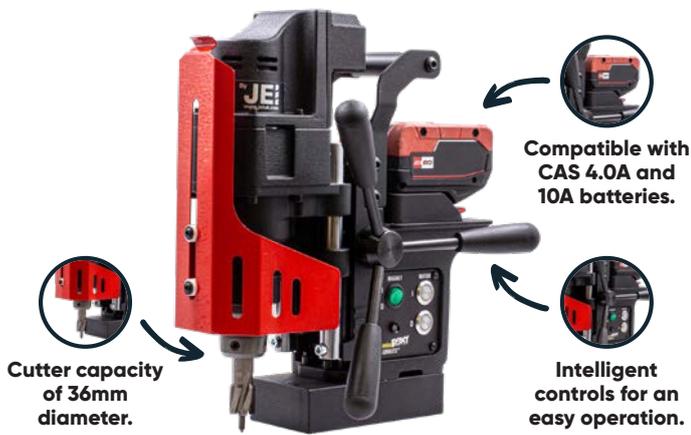
COMPACT & BATTERY-OPERATED

Designed to drill holes with a diameter up to 36mm (1-7/16") with annular cutters. This compact drilling machine is also equipped with an LED monitoring system that generates signals in green and red to indicate the current condition of the drill and give safety information.

- ✓ Lightweight at 11.5kg (incl. 4.0Ah battery).
- ✓ Self correcting slide rails for maintenance-free operation.
- ✓ Fully compatible with CAS battery units.
- ✓ Energy saving magnetic base.



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BRAND NEW INNOVATION FOR 2023

Learn more about what makes our very first battery-operated magnetic drilling solution stand out, with these key features designed for ultimate efficiency and flexibility.

Get in touch to enquire about the MiniBeast™ Cordless today!



PERFECT FOR DRILLING IN REMOTE AREAS

No electric mains power? No problem!

Providing the perfect solution to drill holes and carry out maintenance work in remote or inaccessible areas, such as windfarms, offshore platforms, power stations or pylons. Also ideal in all drilling applications when only a few holes are required as an alternative to a corded magdrill and a generator.





MiniBeast™ Cordless SPECIFICATIONS



Weight with 4.0Ah Battery	11.5 kg
Max Stroke	70mm
Cutter Capacity	36mm x 2" Depth of Cut
Twist Drill Capacity	12mm with optional Turbo™ Twist Drill
Motor	450 W
Height Min/Max	330mm / 370mm Inc. Carry Handle
Minimum Workplace Thickness	6mm
Length x Width	316mm x 235mm
RPM	300 RPM (under load)
Magnetic Base Dimensions	80 x 160mm
Magnet Deadlift (on 25mm plate)	866 kg on 1" Plate (8500N)
Noise / Vibration Level	<90dB / <2.5 m/s2
Voltage / Part No	18v DC / DRILL-MBC
Shipping Weight	15.65 kg Incl. 4.0Ah Battery
Shipping Dimensions	700 x 460 x 190 mm



LED MONITORING SYSTEM

The LED interface generates green and red signals to indicate the drill's current condition and give safety information. It provides a quick exchange of information between the drill and the operator in the event of an emergency.

CONDITION OF THE DRILL		Strong surface. Ready to Operate. <i>Solid Green</i>
		Emergency stop (overload, clamping loss). <i>4 Red Flashes between Green</i>
		Motor doesn't turn on. Replace discharged battery. <i>Solid Red</i>
SAFETY INFORMATION		Inadequate Adhesion. <i>Flashing Green</i>



NEW CONTROL SYSTEM OF BATTERY PACK

Detection and supervised parameters:

- Too low and too high power
- Too low and too high temperature
- Failure of the temperature sensor
- Internal battery failure

Benefits:

- 2-stage over-discharge battery protection system
- Extended battery life
- High level of safety for both cordless drill and operator

What's included with the MiniBeast™ Cordless?

One battery 4.0 Ah, one 240v battery charger pack, three spoke handles, safety strap, safety guard, coolant bottle assembly, 4mm allen key with handle, plastic carrying case and operator manual.

Have any questions? Feel free to get in touch or contact your local distributor.

JEI Solutions



miniBEAST™



MINIBEAST™ AUTO

MORE HOLES IN LESS TIME

The world's smallest automatic magnetic drilling machine with all the features of the MiniBeast™. Ideal for high production environments, cutting more holes in less time. Easy, maintenance-free operation means this can control the task for greater productivity.

- ✓ Lightweight at only 13kg.
- ✓ A compact size and weight ideal for site work.
- ✓ Self correcting slide rails for maintenance-free operation.
- ✓ More holes per tool with improved tool life.



MiniBeast™ Auto

SPECIFICATIONS



Spindle	19 mm
Weight	13kg
Cutter Capacity	35 mm Ø x 2" depth of cut
Twist Drill Capacity	12 mm Ø with optional twist drills
Countersink Capacity	30 mm
Motor	1010 W
Height Min/Max	307 / 377
Length	285 mm
Width	221 mm
RPM	1 Fixed Speed (no load 520 RPM, loaded 350 RPM)
Magnetic Base Dimensions	160 mm x 80 mm
Magnet Deadlift (on 25mm plate)	980 kg on 1" Plate (9600 N)
Noise / Vibration Level	< 90dB / < 2.5 m/s ²
Voltage/Part No	110v PartNo DRILL-19041A - 240v PartNo DRILL-19042A
Shipping Weight	19.10 kg
Shipping Dimensions	360 x 350 x 260 mm

Part no' DRILL-19041A £ 110 V
Part no' DRILL-19042A £ 240 V

-  Internal hidden coolant tank, ensures cutter remains cool throughout drilling process.
-  Self-automated spoke handles.
-  Simple electronic controls.
-  Automatic counterboring.
-  Automatic twist drilling.
-  Self-correcting slide rails.

What's included with the MiniBeast™ Auto?

Two spoke handles, safety strap, safety guard, 4mm allen key, metal carrying case and an operators manual.



miniBEAST™



MINIBEAST™ THIN

CUTTING SURFACES FROM 3 MM

Capable of safely cutting thin materials and painted surfaces from as little as 3 mm thick.

- ✓ Produces holes up to 35 mm diameter.
- ✓ Suitable for drilling painted steel plates.
- ✓ Lightweight at only 11.7kg.
- ✓ Hidden motor cable for added protection.



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MiniBeast™ Thin SPECIFICATIONS



Model	MiniBeast™ Thin Steel
Weight	11.7 kg
Max Stroke	70 mm
Cutter Capacity	35 mm Ø x 2" Depth
Twist Drill Capacity	12 mm with optional set
Height Min/Max	305 / 380 mm
Length	290 mm
Width	166 mm
Magnetic Base L x W	220 x 100 mm
Magnet Deadlift	900 kg on 1" Plate (9000 N)
Min. Material Thickness	3 mm
Voltage/ Part no	110 V – DRILL-MBTS/1 240 V – DRILL-MBTS/2

Part no' DRILL-MBTS/1 ⚡ 110 V
Part no' DRILL-MBTS/2 ⚡ 240 V



Magnetises to thin steel plate.



Suitable for drilling painted steel.



Suitable for drilling ultra thin steel.



Suitable for overhead drilling applications.



35 mm Ø cutter capacity.



Have any questions? Feel free to get in touch or contact your local distributor.

JEI Solutions



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MINIBEAST™ CURVE

DRILLING PIPES, CONVEX AND CONCAVE SURFACES

The MiniBeast™ Curve is designed to cut holes in steel pipes, convex and concave surfaces, without the need for additional clamping attachments.

- ✓ Easily swivels into position.
- ✓ Four permanent magnetic bases.
- ✓ Holds onto pipes with an outside radius of ØR300 mm.
- ✓ Holds onto pipes with an inside radius of ØR500 mm.

MiniBeast™ Curve SPECIFICATIONS



Model	MiniBeast™ Curve
Weight	14kg
Max Stroke	70 mm
Cutter Capacity	35 mm Ø x 35 mm Depth
Height min/max	315 / 390 mm
Length	300 mm
Width	245 mm
Magnetic Base L x W	243 mm x 218 mm
Magnet Deadlift	600 kg on 1" Plate (6000 N)
Min. Material Thickness	10 mm
Min. Pipe Diameter (Outside)	300 mm Ø
Min. Pipe Diameter (Inside)	1000 mm Ø
Min. Radius	R 500
Voltage/ Part no	110 V – DRILL-MBCP/1 – 240 V – DRILL-MBCP/2



Part no' DRILL-MBCP/1 ⚡ 110 V
Part no' DRILL-MBCP/2 ⚡ 240 V



Ideal for outside radius drilling.



Ideal for inside radius drilling.



Features four permanent magnet bases.



With handy detachable feed ratchet handle for left & right side operation.



TWO ADDITIONAL MINIBEAST™ SOLUTIONS, DESIGNED FOR SPECIFIC CHALLENGING APPLICATIONS

miniBEAST™ MINIBEAST™ SAFE-BASE

Features a permanent magnetic base that remains attached in the event of a power failure.

Model	MiniBeast™ Safe-base
Weight	13kg
Max Stroke	70 mm
Cutter Capacity	35 mm Ø x 45 mm Depth
Height min/max	320 / 390 mm
Length x Width	325 x 185 mm
Magnetic Base L x W	237 mm x 100 mm
Magnet Deadlift	600 kg on 1" Plate (6000 N)
Min. Material Thickness	10 mm
Voltage/ Part no	110 V – DRILL-MBSB/1 ~ 240 V – DRILL-MBSB/2

Machine supplied in hardened carrying case.



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Safety lock – prevents the magnet from engaging unless sufficient holding power is detected.



Safe-base – permanent magnet which requires no electricity.

miniBEAST™ MINIBEAST™ RT

A compact and powerful magnetic drilling machine with a ratchet handle system, designed to enable simpler drilling. Detachable feed ratchet handle can be fixed from either left or right side for tight access.

Model	MiniBeast™ RT
Weight	10 kg
Cutter Capacity	35mm Ø x 2" depth of cut
Twist Drill Capacity	12 mm with optional Turbo™ twist drills
Motor	1010 watts
Height Min/Max	307mm / 377mm
Length	260 mm
Width	110 mm ((without guard or ratchet extension)
RPM	1 Fixed Speed (no load 520 RPM, loaded 350 RPM)
Magnetic Base Dimensions	160 mm x 80 mm
Magnet Deadlift (on 25mm plate)	980 kg on 1" Plate (9600 N)
Noise Level	< 90dB
Vibration Level	< 2.5 m/s ²
Voltage / Part Number	110 V – DRILL-19041/RT 240 V – DRILL-19042/RT
Shipping Weight	13.3 kg
Shipping Dimensions	490 mm x 380 mm x 190 mm

Machine supplied in hardened carrying case.



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With handy detachable feed ratchet handle for left & right side operation.



Ability to position machine to drill in tight access corners.

midibeast



MIDIBEAST™

**A RUGGED PERFORMER,
DESIGNED FOR INTENSIVE
DRILLING APPLICATIONS**

The MiniBeast™ has got a big brother. Designed to lessen the load on smaller magnetic drilling machines, to make sure heavier drilling applications which require larger holes can be completed in time and without machine overload.

- ✓ 1600 W powerful motor with heavy duty 2 speed gearbox.
- ✓ Hidden motor cable for added protection.
- ✓ Large capacity coolant container, for more holes without refill.
- ✓ Self aligning slide rails for maintenance-free operation.



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MidiBeast™ SPECIFICATIONS



Weight	17 kg
Cutter Capacity	65mm Ø x 3" depth of cut
Twist Drill Capacity	12 mm with optional Turbo™ twist drills
Motor	1600 watts
Height Min/Max	420 / 511
Length	350 mm
Width	215 mm (with spoke handles)
RPM	2 Fixed Speed (loaded 160/390 RPM)
Magnetic Base Dimensions	180 mm x 90 mm
Magnet Deadlift (on 25mm plate)	1122 kg on 1" Plate (11000 N)
Noise Level	< 100dB
Vibration Level	< 2.5 m/s ²
Voltage / Part Number	110 V - DRILL-MIDI/1 240 V - DRILL-MIDI/2
Shipping Weight	22 kg
Shipping Dimensions	680 mm x 460 mm x 170 mm

What's included with the MidiBeast™?

Three spoke handles, safety strap, safety guard, 4mm allen key, metal carrying case and an operators manual.

Part no' DRILL-MIDI/1 ⚡ 110 V
Part no' DRILL-MIDI/2 ⚡ 240 V



Large capacity external coolant tank.



Heavy-duty gear shifter.



Direct drive arbor for cutters up to 65 mm diameter.



Supplied with heavy-duty plastic case.



miniBEAST™



MINIBEAST™ LP35+

PREMIUM LOW PROFILE DRILLING MACHINE, IDEAL FOR USE WITH HSS OR TCT CUTTERS

With its compact design, the MiniBeast™ LP35+ is ideal for drilling in those smaller spaces. The LP35+ packs a powerful punch at only 176mm in height and 9.5kg in weight, making it perfect for structural site work.



- ✓ Ultra-low fixed working height only 176 mm.
- ✓ Compact design perfectly suited to space restricted areas.
- ✓ Maximum drilling diameter of 35 mm with annular cutters.
- ✓ Lifting handle for easy transportation.
- ✓ Positive quill drive for close tolerance holes.
- ✓ Detachable ratchet handle operation for left or right side operation.



MiniBeast™ LP35+

SPECIFICATIONS



Spindle	19 mm
Weight	9.5 kg
Max Drilling	35 mm
Max. Drilling Depth	20 mm with HSS Turbo™ Steel annular cutter. 32 mm with Turbo™ Tough TCT annular cutter
Twist Drill Capacity	12 mm Ø with optional Turbo™ Twist drills
Countersink Capacity	30 mm
Motor	920 W
RPM	1 Fixed Speed no load 520 RPM loaded 350 RPM
Height (Fixed)	176 mm
Length x Width	380 x 147 mm
Magnetic Base L x W	165 x 80 mm
Magnet Deadlift	910 kg on 1" Plate (8900 N)
Noise Level	< 90dB
Vibration Level	< 2.5 m/s ²
Voltage/ Part no	110 V – DRILL-LP35P/1 240 V – DRILL-LP35P/2
Shipping Weight	12.4 kg
Shipping Dimensions	490 x 380 x 190 mm

Part no' DRILL-LP35P/1 ⚡ 110 V
Part no' DRILL-LP35P/2 ⚡ 240 V



Compact design.



Only 176mm height.



35 mm Ø TCT cutter capacity.



Optional 12 mm twist drill capacity.



Ratchet handle for left or right sided operation.



Complete package available!

Includes the MiniBeast™ LP35+ magdrill, a 5 piece Turbo™ Tough Cutter Set and 500ml Endurance+ Cutting Spray Paste.

Part no' LP35P/SET1 ⚡ 110 V

Part no' LP35P/SET2 ⚡ 240 V

For optimum automatic cutting results, use with JEI Turbo™ Tough TCT Cutters. (See page 58-65)

JEI Solutions



MAGBEAST®



MAGBEAST® ULTRA LOW PROFILE

THE WORLD'S LOWEST HEIGHT COMPACT DRILLING MACHINE

The Ultra Low Profile is designed to fit into the most height restrictive areas at only 150mm high. Small in stature but not in power, this drill will handle up to 35mm diameter holes through 35mm plates.



- ✓ Ultra low design to fit into the most height restrictive areas at only 150 mm high.
- ✓ The cutter capacity will handle up to 35 mm diameter holes through 35 mm plate.
- ✓ Maintenance-free, no adjustable slides, no exposed motor cord.
- ✓ Ideal for bridge maintenance work & repairs, platform drilling, steel construction.

150mm



MagBeast® Ultra Low Profile SPECIFICATIONS



Model	Ultra Low Profile
Spindle	19 mm
Weight	9 kg
Max Stroke	40 mm
Cutter Capacity	35 mm Ø x 35 mm depth of cut
Countersink Capacity	30 mm
Motor	1100 W
RPM	1 Fixed Speed no load 500 RPM loaded 290 RPM
Height	150 mm
Length x Width	320 x 120 mm
Magnetic Base L x W	184 x 85 mm
Magnet Deadlift	1000 kg on 1" Plate (9800 N)
Noise Level	< 90dB
Vibration Level	< 2.5 m/s ²
Voltage/ Part no	110 V – DRILL-U LP35/1 – 240 V – DRILL-U LP35/2
Shipping Weight	13 kg
Shipping Dimensions	360 x 350 x 260 mm

Part no' DRILL-U LP35/1 ⚡ 110 V
Part no' DRILL-U LP35/2 ⚡ 240 V



Compact only 150mm height.



Convenient carry handle.



Ratchet handle for left or right sided operation.



Robust plastic carry case.

What's included with the MagBeast® Ultra Low Profile?

Ratchet handle, safety chain, safety guard, coolant bottle assembly, 2.5mm & 5mm allen Keys, plastic carrying case and operators manual.



MAGBEAST®



MAGBEAST® LP45

DESIGNED TO FIT INTO THE MOST HEIGHT RESTRICTIVE AREAS

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The LP45 is designed to fit into the most height restrictive areas at only 180mm high. Small in stature but not in power, this drill will handle up to 45mm diameter holes through 50mm plates.

- ✓ Compact design – only 180 mm high.
- ✓ Big capacity – will handle up to 45 mm diameter holes through 50 mm plate.
- ✓ Convenient ratchet handle can be used in either a left or right hand position.
- ✓ Ideal for bridge maintenance work & repairs, platform drilling, steel construction.

180mm



MagBeast® LP45

SPECIFICATIONS



Spindle	19 mm
Weight	11 kg
Max Stroke	63 mm
Cutter Capacity	45 mm Ø x 2" depth of cut
Twist Drill Capacity	12 mm Ø with optional Turbo™ Twist drills (see page 78)
Countersink Capacity	30 mm
Motor	1010 W
RPM	1 Fixed Speed no load 500 RPM loaded 290 RPM
Height	180 mm
Length x Width	310 x 120 mm
Magnetic Base L x W	183 x 85 mm
Magnet Deadlift	1200 kg on 1" Plate (11700 N)
Noise Level	< 90dB
Vibration Level	< 2.5 m/s ²
Voltage/ Part no	110 V – DRILL-LP45/1 – 240 V – DRILL-LP45/2
Shipping Weight	15 kg
Shipping Dimensions	360 x 350 x 260 mm

Part no' DRILL-LP45/1 ⚡ 110 V
Part no' DRILL-LP45/2 ⚡ 240 V



Compact only 180mm height.



Convenient carry handle.



Ratchet handle for left or right sided operation.



Heavy duty plastic carrying case.



Will accept twist drills fitted with a 19 mm shank head.



Capacity to cut up to 50 mm depth of cut.

What's included with the MagBeast® LP45?

Ratchet handle, safety chain, safety guard, coolant bottle assembly, 2.5mm & 5mm allen keys, plastic carrying case and operators manual

Have any questions? Feel free to get in touch or contact your local distributor.

JEI Solutions



MAGBEAST®



MAGBEAST® HM40EX

LIGHTWEIGHT AND POWERFUL

Rely on the expert capabilities of the MagBeast® HM40EX. Featuring extra long drill travel, ideal for 110 mm long cutters, and a 40mm diameter cutting capacity.

- ✓ Powerful 1100 W motor – enabling 40 mm cutter capacity.
- ✓ 170mm total drill travel enables facility to use extra long cutters up to 110mm in length.
- ✓ Weighs only 11.5 kg with a 40 mm cutter capacity, unrivalled weight to cutting capacity ratio.
- ✓ Easily adapted to use with additional chuck and adaptor kit to accept twist drills up to 13 mm. (part no - JEICA-13MM/19)



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MagBeast® HM40EX

SPECIFICATIONS



Model	HM40EX
Spindle	19 mm
Weight	11.5 kg
Cutter Capacity	40 mm Ø x 110 mm depth of cut
Twist Drill Capacity	13 mm Ø with optional attachment (part no - JEICA-13MM/19)
Countersink Capacity	40 mm
Motor	1100 W
RPM	No load 720 RPM Loaded 450 RPM
Swivel Base	n/a
Height min/max	320 / 500 mm
Length x Width	280 x 165 mm
Magnetic Base L x W	85 x 170 mm
Magnet Deadlift	1100 kg on 1" Plate (10750 N)
Noise Level	< 90dB
Vibration Level	< 2.5 m/s ²
Voltage/ Part no	110 V - DRILL-HM40EX/1 240 V - DRILL-HM40EX/2
Shipping Weight	16 kg
Shipping Dimensions	460 x 360 x 180 mm

Part no' DRILL-HM40EX/1 ⚡ 110 V
Part no' DRILL-HM40EX/2 ⚡ 240 V



Maintenance-free twin slide rails.



Extra long drill travel.



40mm diameter cutter capacity.



13mm twist drill chuck option.



Heavy-duty durable case.



Also available with an optional swivel base attachment!

Part no' DRILL-HM40EX/1S ⚡ 110 V
Part no' DRILL-HM40EX/2S ⚡ 240 V



MAGBEAST®



MAGBEAST® HM50

COMPACT & VERSATILE 2MT

A dependable, heavy-duty 2 morse taper drilling machine, the HM50 features extra long drill travel, ideal for 100mm long cutters and a 50mm diameter cutting capacity.

- ✓ Heavy duty 1150 W motor enables larger cutting capacity.
- ✓ 150mm total drill travel enables facility to use extra long cutters up to 100mm in length.
- ✓ Spoke handles can be fitted on left or right side for operator convenience (applies to all HM50 models).
- ✓ Weighs only 14 kg with a 50 mm cutter capacity, unrivalled weight to cutting capacity ratio.



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MagBeast® HM50

SPECIFICATIONS



Model	HM50
Spindle	MT2
Weight	14 kg
Max Stroke	180 mm
Cutter Capacity	50 mm Ø x 4" depth of cut
Twist Drill Capacity	13 mm with 2MT Chuck / 23 mm with 2MT Twist Drill
Countersink Capacity	40 mm
Reaming Capacity	22 mm (19 mm shank)
Motor	1150 W
RPM	No load 465/720 RPM Loaded 250/450 RPM
Swivel Base	n/a
Height min/max	380 / 560 mm
Length x Width	280 x 170 mm
Magnetic Base L x W	90 x 180 mm
Magnet Deadlift	1250 kg on 1" Plate (12000 N)
Noise Level	< 90dB
Vibration Level	< 2.5 m/s ²
Voltage/ Part no	110 V - DRILL-HM50/1 / 240 V - DRILL-HM50/2
Shipping Weight	18.15 kg
Shipping Dimensions	490 x 380 x 200 mm

Part no' DRILL-HM50/1 ⚡ 110 V
Part no' DRILL-HM50/2 ⚡ 240 V



Maintenance-free twin slide rails.



Extra long drill travel.



50mm diameter cutter capacity.



23mm 2 morse taper drill capacity.



13mm twist drill chuck option.



Also available with an optional swivel base attachment!

Part no' DRILL-HM50/1S ⚡ 110 V
Part no' DRILL-HM50/2S ⚡ 240 V

Have any questions? Feel free to get in touch or contact your local distributor.

JEI Solutions



MAGBEAST®



MAGBEAST® HM50T

2MT DRILLING & TAPPING

A heavy-duty 2 morse taper drilling machine, the MagBeast® HM50T is ideal for countersinking and reaming. A lightweight option, weighing at only 14kg, that can cut up to 50mm in diameter.

- ✓ Reverse speed motor ideal for threading (tapping) holes.
- ✓ Lightweight at only 14kg yet can cut up to 50 mm diameter.
- ✓ Maintenance friendly twin slide rails.
- ✓ Variable speed, high torque motor. Ideal for countersinking and reaming.
- ✓ No wearing parts and adjustment-free operation.



MagBeast® HM50T SPECIFICATIONS



Model	HM50T
Spindle	MT2
Weight	14 kg
Max Stroke	180 mm
Cutter Capacity	50 mm Ø x 4" depth of cut
Twist Drill Capacity	13 mm with 2MT Chuck / 23 mm with 2MT Twist Drill
Countersink Capacity	40 mm
Reaming Capacity	22 mm (19 mm shank)
Motor	1150 W (110 V) 1250 W (240 V)
RPM	2 Variable Speeds, 180-430, 100-250 RPM
Swivel Base	n/a
Height min/max	380 / 560 mm
Length x Width	280 x 170 mm
Magnetic Base L x W	90 x 180 mm
Magnet Deadlift	1250 kg on 1" Plate (12000 N)
Noise Level	< 90dB
Vibration Level	< 2.5 m/s ²
Voltage/ Part no	110 V – DRILL-HM50T/1 240 V – DRILL-HM50T/2
Shipping Weight	19 kg
Shipping Dimensions	490 x 380 x 200 mm

Part no' DRILL-HM50T/1 ⚡ 110 V
Part no' DRILL-HM50T/2 ⚡ 240 V



Variable speed & forward/reverse simple control panel.



Maintenance-free twin slide rails – no worn brass rails.



Extra long drill travel – ideal for 100 mm long cutters.



Ideal for reaming.



13 mm twist drill chuck option.



Also available with an optional swivel base attachment!

Part no' DRILL-HM50T/1S ⚡ 110 V
Part no' DRILL-HM50T/2S ⚡ 240 V



MAGBEAST®



MAGBEAST® HM100

VERSATILE, 3 MORSE TAPER

The substantial 1700 W motor on the MagBeast® HM100 enables a large cutting capacity and 4-speed gearbox for those demanding projects. Adjustment-free operation and no wearing parts.

- ✓ Heavy-duty 1700w motor. Enables large cutting capacity.
- ✓ 4 speed gearbox. Ideal for a wide selection of cutting operations.
- ✓ 250mm total drill travel enables facility to use extra long cutters up to 150mm (6") in length.
- ✓ Weighs only 24 kg and 100 mm cutter capacity. Unrivalled weight to cutting capacity ratio.

MagBeast® HM100

SPECIFICATIONS

Model	HM100
Spindle	MT3
Arbor Bore	19 mm
Weight	24 kg
Max Stroke	250 mm
Cutter Capacity	100 mm Ø x 6" depth of cut
Twist Drill Capacity	19 mm with 2MT Chuck / 32 mm with 3MT Twist Drill
Countersink Capacity	55 mm
Reaming Capacity	39 mm
Motor	1700 W
RPM	4 Fixed Speeds: no load 215/330/460/680 RPM loaded 110/175/245/385 RPM
Swivel Base	n/a
Height min/max	450 / 700 mm
Length x Width	345 x 190 mm
Magnetic Base L x W	212 x 102 mm
Magnet Deadlift	2050 kg on 1" Plate (20100 N)
Noise Level	< 90dB
Vibration Level	< 2.5 m/s ²
Voltage/ Part no	110 V – DRILL-HM100/1 240 V – DRILL-HM100/2
Shipping Weight	29 kg
Shipping Dimensions	571 x 450 x 250 mm



Part no' DRILL-HM100/1 ⚡ 110 V
Part no' DRILL-HM100/2 ⚡ 240 V



100 mm cutter capacity.



19 mm twist drill capacity with chuck.



55 mm countersinking capability.



32 mm 3MT drill capability.



Twin slide rails – maintenance-free operation.



Also available with an optional swivel base attachment!

Part no' DRILL-HM100/1S ⚡ 110 V
Part no' DRILL-HM100/2S ⚡ 240 V

Have any questions? Feel free to get in touch or contact your local distributor.

JEI Solutions



MAGBEAST®



MAGBEAST® HM100T

3MT DRILLING AND TAPPING

Capable of cutting, reaming, counterboring and tapping holes, the MagBeast® HM100T is the perfect all-around choice for a variety of applications using simple and efficient electronic controls.

- ✓ Heavy-duty 1800w motor.
- ✓ 2 speed variable gearbox with reverse.
- ✓ 250mm total drill travel.
- ✓ Sleek, ergonomic design.
- ✓ Maintenance-free twin slide rails.



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MagBeast® HM100T

SPECIFICATIONS



Model	HM100T
Spindle	MT3
Weight	23.5 kg
Max Stroke	250 mm
Cutter Capacity	100 mm Ø x 6" depth of cut
Twist Drill Capacity	19 mm with 3MT Chuck - 32 mm with 3MT Twist Drill
Countersink Capacity	55 mm
Tapping Capacity	M30
Reaming Capacity	39 mm
Motor	1800 W
RPM	2 Variable Speeds (torque control) 60-140 / 200-470
Swivel Base	n/a
Height min/max	450 / 700 mm
Length x Width	345 x 190 mm
Magnetic Base L x W	212 x 102 mm
Magnet Deadlift	2050 kg on 1" Plate (20100 N)
Noise Level	< 90dB
Vibration Level	< 2.5 m/s ²
Voltage/ Part no	110 V - DRILL-HM100T/1 240 V - DRILL-HM100T/2
Shipping Weight	28.65 kg
Shipping Dimensions	571 x 450 x 250 mm

Part no' DRILL-HM100T/1 ⚡ 110 V
Part no' DRILL-HM100T/2 ⚡ 240 V



Simple and efficient electronic controls.



Cutters up to 100 mm with adaptor.



Can be used with a tapping chuck for blind or through hole tapping.



Twin slide rails- no wearing parts adjustment-free operation.



Solid drills up to 32 mm 3MT.



Also available with an optional swivel base attachment!

Part no' DRILL-HM100T/1S ⚡ 110 V
Part no' DRILL-HM100T/2S ⚡ 240 V



MAGBEAST®



MAGBEAST® HM140T

4MT ALL ROUND POWERHOUSE

With built-in forward/reverse and variable speed, the HM140T has the ability to tap/thread pre-drilled holes up to M44. Weighing only 35kgs, this machine has an unrivalled weight to capacity ratio for a machine of its size and can be lifted into position by one operator.

- ✓ Weighs only 35kg, a one man job to position and operate machine.
- ✓ Heavy duty 2300 watt, variable speed motor that enables larger cutting capacity.
- ✓ 140mm cutter capacity, unrivalled weight to cutting capacity ratio.



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MagBeast® HM140T

SPECIFICATIONS



Model	HM140T
Weight	35kg
Cutter Capacity	140mm Ø
Twist Drill Capacity	19 mm with 4MT Chuck ~ 50 mm with 4 MT Twist Drill
Countersink Capacity	80 mm
Reaming Capacity	47 mm
Motor	2300 watts
Height Min/Max	570 / 850 mm
Length x Width	440 x 245 mm
RPM	4 Variable Speeds 30-80/50-120/130-350/ 210-550 RPM
Magnetic Base (L x W)	120 x 260 mm
Noise Level	< 90dB
Vibration Level	< 2.5 m/s ²
Voltage/Part no's	110 V - DRILL-HM140T/1 ~ 240v V DRILL-HM140T/2
Shipping Weight	50 kg
Shipping Dimensions	650 x 500 x 300 mm

Part no' DRILL-HM140T/1 ⚡ 110 V
Part no' DRILL-HM140T/2 ⚡ 240 V



Simple electronic operating controls.



Transportable case on wheels.



Comes complete with arbors for use with 19 and 32 mm shank cutters.



Extra long drill travel.



140 mm Ø cutter capacity.



Tapping capacity M44.



47 mm Ø reaming capacity.

Have any questions? Feel free to get in touch or contact your local distributor.

JEI Solutions



MAGBEAST® 5      

MAGBEAST® HM200T

THE WORLDS LARGEST CAPACITY PORTABLE MAGNETIC DRILLING MACHINE

Designed to solve the most challenging of applications, the MagBeast® 200T offers a commanding 2600 W, high torque motor that delivers maximum power to produce an incredible 200mm cutting capacity.

- ✓ Commanding 2850W, high torque motor. Delivers maximum power to produce up to 200 mm Ø holes.
- ✓ Reversible with multi speeds.
- ✓ Ability to tap holes up to M52.
- ✓ 455mm of drill travel. Can be adapted for many special projects.
- ✓ Optional single phase 110v or 220v operation. Can be used on any site environment.
- ✓ Twin slide rails. Ensuring maintenance free operation and minimum hole tolerance.
- ✓ Soft start motor switch.



WHY THE MAGBEAST® HM200T?

Take a look at the features and benefits of the MagBeast® HM200T.

Part no' DRILL-HM200T/1 ⚡ 110 V
Part no' DRILL-HM200T/2 ⚡ 240 V



Incredible 200mm Ø cutting capacity.



Creates a threaded hole up to M52.



Solid drills up to 52mm 5MT.



Optional pipe attachment kit.



52mm tapping capacity.



New control panel for ease of operation.



4 multi speeds to cover all applications.





MagBeast® HM200T SPECIFICATIONS



Model	Magbeast HM200T (MagBeast® 5MT)
Spindle	MT5
Arbor Bore	1-1/4"
Weight	52kg
Max Stroke	330mm
Cutter Capacity	200mm Ø
Twist Drill Capacity	52mm Ø
Countersink Capacity	110mm Ø
Tapping Capacity	M52
Reaming Capacity	52 mm Ø
Motor	2850W
RPM	4 Multi Speeds 40/60 90/130 170/240 380/545 RPM
Height min/max	730 / 955 mm
Length x Width	455 x 280 mm
Magnetic Base L x W	295 x 140 x 70 mm
Magnet Deadlift	2300 kg on 1" Plate (26,800 N)
Noise Level	< 90dB
Vibration Level	< 2.5 m/s ²
Voltage/ Part no	110 V – DRILL-HM200T/1 – 240 V – DRILL-HM200T/2
Shipping Weight	70 kg
Shipping Dimensions	790 x 490 x 240 mm



IDEAL FOR COUNTERBORING PROJECTS

Tooling also available. Contact JEI for more information.

BESPOKE MODIFICATIONS AVAILABLE FOR SPECIAL PROJECT SOLUTIONS

Ask your JEI representative for details.





MAGBEAST® MAGBEAST® PREMIUM RANGE THE NEW PRO SERIES

When it comes to portable solutions for cutting, drilling, tapping, countersinking and reaming holes, the new MagBeast® Premium PRO range range is a force to be reckoned with.

While most magnetic drilling machines have a stated capacity for occasional use, this range's maximum stated capacities are actual optimum performance levels. This allows for continuous drilling at maximum load and performance, saving valuable downtime and reducing labour cost and providing more hole cuts per tools.



360-DEGREE VISUAL MONITORING SYSTEM (VMS)

Condition of the Drill

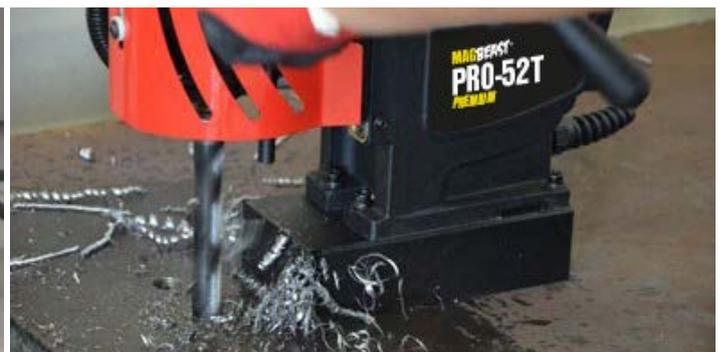
- Ready to Operate (Solid Green)
- Normal Operation (Solid White)
- Motor Overheat (Solid Red)
- Emergency Stop/Overload Condition (Solid Blue)
- Emergency Stop/Low Adhesion (Solid Violet)

Safety Information

- Inadequate Adhesion (Flashing Green)
- Near Overload (Flashing Blue)

Diagnostic Information

- Emergency Stop/Voltage Drop (Red Flashes to Blue)
- Emergency Stop/Worn Brushes (Red Flashes to Green)



THE ULTIMATE HOLE MAKING EXPERIENCE

A NEW COMPREHENSIVE RANGE THAT RAISES THE BAR IN PORTABLE MAGNETIC DRILLING TECHNOLOGY

- ✓ Intelligent speed control system maintains stable speed regardless of load changes.
- ✓ Tapping of through and blind holes.
- ✓ Milling and drilling with TCT or HSS cutters.
- ✓ Electronic speed control.
- ✓ Electronic clutch.
- ✓ Both overload and overheat protection.
- ✓ Tilt sensor stops the motor in cases of machine break away.
- ✓ 360-degree visual monitoring system indicates current condition of the drill and gives safety and diagnostic information, e.g. worn brushes.
- ✓ Innovative smart magnet with reduced weight.
- ✓ Intuitive control panel at top of the drill.
- ✓ Large coolant container.

A REVOLUTIONARY RANGE

The MagBeast® Premium PRO range is growing as we are proud to present our new generation of premium portable magnetic drilling solutions, designed to maximise drilling processes.

This is achievable through a unique three stage LED indicator system which allows the operator to control drilling process, ensuring maximum productivity can be achieved without causing damage to important components, increasing machine life and maximizing life of the cutting tool.

Furthermore, it provides the operator with added confidence against breaking the cutter or damaging the machine through overloading.



MAGBEAST®



MAGBEAST® PREMIUM PRO-52T

HEAVY-DUTY, TAPPING AND DRILLING MACHINE, 2MT

The PRO-52T is suitable for hole cutting and tapping applications with a powerful 1600w variable speed motor enabling drilling capacity up to 50mm (2") and twist drill capacity up to 23 mm (7/8"). Forward & reverse work modes allow thread cutting up to M20 with a new tapping system.

- ✓ 1600w powerful motor.
- ✓ Intelligent speed control system.
- ✓ Both overload and overheat protection.
- ✓ Heavy-duty 2-speed gearbox.
- ✓ Tilt sensor.
- ✓ 360-degree visual monitoring system.
- ✓ Large coolant container.



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MagBeast® Premium PRO-52T SPECIFICATIONS



Part no' DRILL-PRO52T/1 ⚡ 110 V
Part no' DRILL-PRO52T/2 ⚡ 240 V

Model	PRO-52T
Motor Speeds (under load)	(1) 160-250 rpm (2) 390-580 rpm
Motor Power	1600 W
Weight	17 kg (37 lbs)
Max cutter capacity	50 mm (2")
Max twist drill capacity	23 mm (7/8")
Tapping size	M20 (3/4")
Stroke	190 mm (7-1/2")
Max depth of cut	75 mm (3") *
Voltage / Part Number	110-120 V, 50-60 Hz / DRILL-PRO52T/1 220-240 V, 50-60 Hz / DRILL-PRO52T/2
Magnetic clamping force	1122 kG (11,000 N)
Magnet Base Dimensions	90 mm x 180 mm x 48 mm 3-9/16" x 7" x 1-7/8"
Min, Workpiece Thickness	8 mm (5/16)
Spindle	MT2
Tool holder	19 mm (3/4") Weldon



Tapping through holes up to M20.



Tapping blind holes up to M20.



Counterclockwise (CCW) rotation. User-friendly control of tapping tool release.



Annular cutter capacity up to 50 mm (2") Max depth up to 75 mm (3").



Twist drill capacity up to 23 mm (7/8") Max stroke up to 190 mm (7-1/2").



MAGBEAST®



MAGBEAST® PREMIUM PRO-72T

HEAVY-DUTY, VERSATILE DRILLING & TAPPING MACHINE, 3MT

The PRO-72T drilling machine is suitable for hole cutting and tapping applications. Powerful 1600w variable speed motor enables drilling capacity up to 70mm (2-3/4") and twist drill capacity up to 25 mm (1").

- ✓ Electronic speed control.
- ✓ Electronic clutch.
- ✓ Both overload and overheat protection.
- ✓ Rigid design extends tool life.
- ✓ 360-degree visual monitoring system.
- ✓ Innovative smart magnet with reduced weight.
- ✓ Intuitive control panel at top of the drill.
- ✓ Large coolant container.



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MagBeast® Premium PRO-72T SPECIFICATIONS



Part no' DRILL-PRO72T/1 ⚡ 110 V
Part no' DRILL-PRO72T/2 ⚡ 240 V

Motor Speeds (under load)	(1) 120-190 rpm (2) 290-450 rpm
Motor Power	1600 W
Weight	18 kg (40 lbs)
Max cutter capacity	70 mm (2-3/4")
Max twist drill capacity	25 mm (1")
Tapping size	M20 (3/4")
Stroke	190 mm (7-1/2")
Max depth of cut	75 mm (3")
Voltage / Part Number	110-120 V, 50-60 Hz / DRILL-PRO72T/1 220-240 V, 50-60 Hz / DRILL-PRO72T/2
Magnetic clamping force	1122 kgf (11,000 N)
Magnet Base Dimensions	92 mm x 180 mm x 54 mm 3-5/8" x 7" x 2-1/8"
Min, Workpiece Thickness	8 mm (5/16)
Spindle	MT3
Tool holder	19 mm (3/4") Weldon



Tapping through holes up to M20.



Tapping blind holes up to M20.



Counterclockwise (CCW) rotation. User-friendly control of tapping tool retract.



Annular cutter capacity up to 70 mm (2-3/4") • Max depth up to 75 mm (3").



Twist drill capacity up to 25 mm (1") • Max stroke up to 190 mm (7-1/2").



MAGBEAST®



MAGBEAST® PREMIUM PRO-122T

HEAVY-DUTY, HIGH PERFORMANCE, 3MT.

Four speed gearbox with continuous speed adjustment allows to set the optimal speed depending on diameter, steel grade or tool quality. Intelligent speed control system maintains constant motor speed regardless of changing loads. Innovative 360-degree LED indicator facilitates proper machine operation and increases work safety.

- ✓ 2300W motor - the most powerful in its class.
- ✓ Intelligent speed control system maintains stable speed.
- ✓ Tapping of through and blind holes.
- ✓ Drilling with TCT or HSS cutters, or twist drill up to 31.75mm.
- ✓ Electronic speed control.
- ✓ Electronic clutch.
- ✓ Rigid design extends tool life.
- ✓ 360-degree visual monitoring system.



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MagBeast® Premium PRO-122T SPECIFICATIONS



Part no' DRILL-PRO122T/1 ⚡ 110 V
Part no' DRILL-PRO122T/2 ⚡ 240 V

Motor Speeds (under load)	75-110 rpm (gear 1) / 135-200 rpm (gear 2) / 220-320 rpm (gear 3) / 390-570 rpm (gear 4)
Motor Power	2300 W
Weight	25 kg (55lbs)
Max cutter capacity	120 mm (4.72")*
Max twist drill capacity	31.75 mm (1-1/4")
Tapping size	M30 (1-1/4")
Stroke	225 mm (9")
Max depth of cut	100 mm (4")
Voltage	1- 220-240 V, 50-60 Hz DRILL-PRO122T/1 1- 110-120 V, 50-60 Hz DRILL-PRO122T/2
Magnetic clamping force	1835 kG (18,000 N)
Magnetic Base Dimensions	110 mm x 220 mm x 50 mm 4.3" x 8.7" x 2"
Min. Workpiece Thickness	10 mm (3/8")
Spindle	MT3
Tool holder	19 mm (3/4") or 32 mm (1-1/4") Weldon

-  Intuitive control panel at top of the drill.
-  Cutter capacity up to 120 mm (4.72"). Max depth of cut up to 100 mm (4").
-  Counterclockwise (CCW) rotation. User-friendly control of tapping tool release.
-  Through hole tapping up to M30.

360-DEGREE VISUAL MONITORING SYSTEM (VMS)

For hassle free drilling.



MAGBEAST®



MAGBEAST® PREMIUM PRO-152T

HEAVY-DUTY, HIGH PERFORMANCE, 4MT.

Four speed gearbox with continuous speed adjustment allows to set the optimal speed depending on diameter, steel grade or tool quality. Intelligent speed control system maintains constant motor speed regardless of changing loads. Innovative 360-degree LED indicator facilitates proper machine operation and increases work safety.

- ✓ 2300w powerful motor with heavy duty 4-speed gearbox.
- ✓ Intelligent speed control system maintains stable speed.
- ✓ Tilt sensor stops the motor in cases of machines break away.
- ✓ Tapping of through and blind holes.
- ✓ Drilling with TCT or HSS cutters or twist drills up to 47mm.
- ✓ Electronic speed control.
- ✓ Intuitive control panel at top of the drill.

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MagBeast® Premium PRO-152T SPECIFICATIONS



Part no' DRILL-PRO152T/1 ⚡ 110 V
Part no' DRILL-PRO152T/2 ⚡ 240 V

Motor Speeds (under load)	55-85 rpm (gear 1) / 100-150 rpm (gear 2) / 200-300 (gear 3) / 350-520 rpm (gear 4)
Motor Power	2300 W
Weight	31 kg (68 lbs)
Max cutter capacity	150 mm (6")*
Max twist drill capacity	47 mm (1-7/8")
Tapping size	M42 (1-5/8")
Stroke	260 mm (10")
Max depth of cut	100 mm (4")
Voltage/Part Number	1 ~ 220-240 V, 50-60 Hz DRILL-PRO152T/1 1~ 110-120 V, 50-60 Hz DRILL-PRO152T/2
Magnetic clamping force	2550 kG (25,000 N)
Magnetic Base Dimensions	105 mm x 315 mm x 50 mm 4-1/8" 12-3/8" x 2"
Min. Workpiece Thickness	10 mm (3/8")
Spindle	MT4
Tool holder	19 mm (3/4") or 32 mm (1-1/4") Weldon



Cutter capacity up to 150 mm (6").
Max depth of cut up to 100 mm (4").



Twist drill capacity up to 47 mm (1-7/8").
Max stroke up to 260 mm (10").



Counter-clockwise (CCW) rotation.
User-friendly control of tapping tool release.



Through hole tapping up to M42.



Ideal for counterboring projects. Tooling also available. Contact JEI for more information.

Have any questions? Feel free to get in touch or contact your local distributor.

JEI Solutions



AIRBEAST®



AIRBEAST® 35A

ATEX APPROVED, PNEUMATIC DRILL SPECIFICALLY DESIGNED FOR SPACE RESTRICTED AND HAZARDOUS ENVIRONMENTS

A compact pneumatic drill ideally suited to space restricted and hazardous environments such as oil drilling platforms, mining industry, shipbuilding or petrochemical industry. Combining a pneumatic drive and permanent magnetic base eliminates the need of electric power supply.

- ✓ Pneumatic drive and permanent magnetic base eliminates the need for electric power.
- ✓ Compact - only 185mm high.
- ✓ Lightweight.
- ✓ Great safety features.
- ✓ Strong permanent magnet base.



AirBeast® 35A

SPECIFICATIONS

Part no' DRILL-AIR35/ATEX



Model	Airbeast 35
Weight	17kg
Height fixed	185 mm
Spindle	19 mm
Cutter Capacity	35mm Ø x 1" depth of cut
Max Stroke	39 mm
Air consumption	1400 l/min (50 CFM)
Motor Power	800 w
Motor speed under load	240 rpm
Length x Width	480 x 168 mm
Cooling System	Through Spindle
Magnetic Base Dimensions	80 mm x 80 mm x 143 mm
Magnet Deadlift	663 kg on 1" Plate (6500 N)
Part no	DRILL-AIR35/ATEX
Shipping Weight	23.4 kg
Shipping Dimensions	510 x 320 x 160 mm



35 mm Ø x 1" cutter capacity.



Suitable for tougher materials.



Supplied with pressurised coolant system.



Handle can be used on left or right side for close access areas.



Fits in the most height restrictive areas.



Safety conscious separate magnet and motor switch gear – prevents accidental start up.



Convenient carry handle.



NEW!
Heavy-duty moulded plastic case.

AIRBEAST®



UK CE

AIRBEAST® 45A

A PIONEERING 2MT, ATEX APPROVED PNEUMATIC DRILLING MACHINE

The AirBeast® 45A is ideal for hazardous environments such as oil drilling platforms, mining, shipbuilding and petrochemical industries. A pneumatic drive and permanent magnetic base eliminate the need for electric power.

- ✓ Pneumatic drive and permanent magnetic base eliminates the need for electric power.
- ✓ 2 morse taper twist drill capacity.
- ✓ Strong permanent magnetic base.
- ✓ Ergonomic design to suit offshore industry.
- ✓ Ideal for hazardous environments such as oil drilling platforms, mining, shipbuilding or petrochemical industries.



AirBeast® 45A

SPECIFICATIONS



Model	AIRBEAST 45 ATEX
Spindle	2MT (19 mm shank)
Maximum drilling capacity with annular cutter	45 mm (1-3/4")
Maximum drilling capacity with twist drill	20 mm (13/16")
Maximum depth of cut	51 mm (2")
Max Stroke	150 mm
Air consumption	1400 l/min (50 CFM)
Pressure	6 Bar (87 psi)
Air Connection	CEJN 410 DN 10.4 R 3/8" BSPT fitting for quick coupling
RPM	2 Fixed Speeds, no load 500 / 330 RPM, loaded 290 / 190 RPM
Magnet Deadlift	765 kg on 1" Plate (7500 N)
Overall Dimensions	424 mm x 268 mm x 703 mm
Magnetic Base dimensions	80 mm x 80 mm x 143 mm
Noise Level	< 90dB
Vibration Level	< 2.5 m/s ²
Weight	26.5 kg
Shipping Weight	42 kg
Shipping Dimensions	600 mm x 800 mm x 800 mm
Part no	DRILL-AIR45/ATEX

Part no' DRILL-AIR45/ATEX



Safety conscious separate magnet and motor switch gear – prevents accidental start up.



45 mm Ø cutter capacity.



23 mm, 2MT solid drill capacity.



Have any questions? Feel free to get in touch or contact your local distributor.

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AIRBEAST®



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AIRBEAST® 200A

FOR THE MOST CHALLENGING APPLICATIONS IN THE MOST HAZARDOUS ENVIRONMENTS

Designed to meet the most challenging hole making applications in challenging environments, the AirBeast® 200A is an ATEX Class II approved pneumatic drill, featuring 200mm diameter cutting capacity.

- ✓ ATEX Class II approved – for use in the most hazardous of environments.
- ✓ 200 mm diameter cutter capacity.
- ✓ M48 tapping capacity.
- ✓ 400 mm drill travel – for demanding drilling applications.
- ✓ Impressive 2 speed gear box with forward and reverse increasing flexibility of use.



AirBeast® 200A

SPECIFICATIONS

Model	AirBeast® 200A
Spindle	5MT (1-1/4" shank)
Weight	130 kg
Air consumption	3500 l/min (125 CFM)
Pressure	6.5 bar
Max Stroke	400 mm
Cutter Capacity	200 mm Ø x 4" depth of cut
Motor	3650 W
RPM	2 Fixed Speeds no load 140/35 RPM loaded 80/20 RPM
Twist Drill Capacity	45 mm
Tapping Capacity	M48
Height min/max	991 / 1391 mm
Length x Width	764 x 485 mm
Magnetic Base L x W	250 x 110 mm
Magnet Deadlift	2 x 1530 kg on 25 mm Plate (2 x 15000 N)
Noise Level	< 90dB
Vibration Level	< 2.5 m/s ²
Voltage/ Part no	DRILL-AIR200A
Shipping Weight	150 kg
Shipping Dimensions	510 x 320 x 160 mm



Part no' DRILL-AIR200A



200 mm Ø cutter capacity.



45 mm Ø solid drill capacity.



M48 tapping capacity.



Ideal for offshore energy projects.



BESPOKE DRILLING & CUTTING SOLUTIONS

DEVELOPING UNIQUE SOLUTIONS AND SOLVING PROBLEMS FOR GLOBAL INDUSTRIES

By recognising the changing and ever-demanding challenges of industry, we are constantly developing our portfolio of products and solutions to cater for all types of drilling and hole making applications.

Want to learn more? Get in touch today and speak to our specialist team.

HAVE A UNIQUE PROBLEM TO SOLVE? CHALLENGE US.

Whether a customer is challenged with difficult material, is working within a restricted environment or has a demand which is out of the ordinary, we strive to find a process that fits the project. This is often achieved from a combination of our existing products or we will innovate and develop new ideas with the aim of providing the ideal solution.

Our range is further enhanced by the SteelBeast® series of steel fabrication equipment, designed to prepare steel for further processes, including punching, weld preparation (beveling), deburring, radius edging and welding automation.





RAILBEAST®



RAILBEAST® ELECTRIC RDE-36



POWERFUL, COMPACT & LIGHTWEIGHT MACHINE DESIGNED FOR DRILLING IN RAIL TRACKS

An all-electric drill that's lightweight, safe and easy to use, with impressive drilling power for rail tracks.

- ✓ Fast positioning, quick clamp and instant unlocking mechanisms make it a safety conscious, user-friendly device.
- ✓ Supplied with a positioning (locating) plate to ensure accurate drilling.



RailBeast® Electric RDE-36

SPECIFICATIONS



Part no' DRILL-RDE-36/1 £ 110 V
Part no' DRILL-RDE-36/2 £ 240 V

Model	RDE-36, RAIL ELECTRIC DRILLING MACHINE
Weight	14.5kg
Drilling Capacity	16 mm Ø
Cutter Capacity	36 mm Ø
Depth of cut	30 mm
Stroke	40 mm
Motor	1000 W
RPM	350 RPM
Arbor bore	19 mm Weldon shank
Voltage / Part No'	110V Part No' DRILL-RDE-36/1, 240V Part No' DRILL-RDE-36/2
Rail templates available	UIC54, UIC60, P50, P65, S49 (specials on request)



Optional pressure coolant 5l bottle assembly with adaptor.



Full range of hole centre positioners available to meet any required rail standard.



Full range of rail profile templates available to suit all types of rail track.



RAILBEAST® 

RAILBEAST® PETROL RDP-36

UK
CA | CE

EQUIPPED WITH A HONDA 4 STROKE ENGINE, POWERED FOR RAIL TRACK DRILLING

The fast positioning, quick clamp and instant unlocking features on the Rail Petrol make it a safety-conscious, user-friendly device for rail tracks.

- ✓ **Fast positioning, quick clamp and instant unlocking mechanisms make it a safety conscious, user-friendly device.**
- ✓ **Optional positioning (locating) plate to ensure accurate drilling.**



RailBeast® Petrol RDP-36 SPECIFICATIONS



Part no' DRILL-RAIL/P

Model	RAILBEAST RDP-36, PETROL RAIL DRILLING MACHINE
Engine	Honda Engine GXH50, 4 Stroke Petrol Engine
Power Consumption	1500 W
Maximum drilling diameter with Annular Cutter	36 mm (1-7/16")
Maximum drilling diameter with Twist Drill	16 mm (5/8")
Maximum drilling depth of cut	30 mm (1-3/16")
Stroke	39 mm (1-9/16")
Rotational speed without load	120-280 rpm
Rotational speed with load	225 rpm
Arbor Bore	19 mm Weldon shank (3/4")
Part No'	DRILL-RAIL/P
Rail templates available	UIC54, UIC60, P50, P65, S49 (specials on request)
Rail hole positioners available	UIC54, UIC60, P50, P65, S49 (specials on request)



For best results use Turbo™ Rail+ (see page 68-69).



Powerful 4 stroke engine.



Petrol gauge.





UK | CE

turbo™   

TURBO™ 35+

LIGHTWEIGHT SOLUTION WITH ADDED VERSATILITY

Our new, economical solution is efficiently designed for accurate, practical holemaking with both TCT and HSS cutters. Sleek, lightweight and versatile, the Turbo™ 35+ provides a practical hole making solution, with its added benefit of an adjustable motor, providing a longer cutting reach than other machines in its size range.

- ✓ Fully adjustable motor slide for added versatility of use.
- ✓ Modern moulded shape with easy access open handle.
- ✓ 1100w powerful motor.
- ✓ Large capacity coolant tank.



WHY THE TURBO™ 35+?

Take a look at the features and benefits of the Turbo™ 35+.

Part no' DRILL-T35/1 ⚡ 110 V
Part no' DRILL-T35/2 ⚡ 240 V



A maximum stroke of 210 mm.



Hardened carry case.



Ability to set cutting depth.

Modern moulded shape with easy access open handle.



Ideal for reaching longer cutting depths and using twist drill.

Coolant bottle assembly.



FULLY ADJUSTABLE MOTOR SLIDE FOR ADDED VERSATILITY

The all-new Turbo™ 35+ comes with a fully adjustable motor slide allowing multiple drilling depths from 35mm to 150mm. It also can be fitted with a 13mm chuck and adaptor with twist drill, see JEI's Chuck & Adaptors page 45 (Ref: JEICA-13MM/19). Order your new Turbo™ 35+ today!





Turbo™ 35+ SPECIFICATIONS



Model	Turbo™ 35+
Weight	10.5 kg
Cutter Capacity	35mm Ø x 150mm depth of cut
Twist Drill Capacity	13 mm (with chuck)
Countersink Capacity	30mm
Motor	1100 watts
Height Min/Max	375/ 580 mm (including cable /gland)
Length	275 mm
Width	181 mm Including Handles
RPM	1 Fixed Speed (no load 720 RPM, loaded 450 RPM)
Magnetic Base Dimensions	168 mm x 80 mm
Magnet Deadlift (on 25mm plate)	1000 kg on 1" Plate (9600 N)
Noise Level	< 90dB
Vibration Level	< 2.5 m/s ²
Voltage / Part Number	110 V - DRILL-T35-1 240 V - DRILL-T35-2
Shipping Weight	15.8 kg
Shipping Dimensions	55 x 45 x 22 cm



Part no' DRILL-T35-CSET1 ⚡ 110 V
Part no' DRILL-T35-CSET2 ⚡ 240 V

Part no' DRILL-T35-TCSET1 ⚡ 110 V
Part no' DRILL-T35-TCSET2 ⚡ 240 V

Turbo™ 35+ Package

THE PERFECT TURBO™ 35+ STARTER KITS

Turbo™ 35+ HSS Package Kit:

- 1x Turbo™ 35+ Drill (110v or 240v)
- 1x 3 Piece Turbo™ Steel M2AL (HSS) Starter Kit Inc. 14, 18, 22mm x 1" Depth + Pilot Pin
- 1x 13mm Chuck & Adaptor

Turbo™ 35+ TCT Package Kit:

- 1x Turbo™ 35+ Drill (110v or 240v)
- 1x 3 Piece Turbo™ Tough TCT Starter Kit Inc. 14, 18, 22mm x 1" Depth + 2 Pilot Pins
- 1x 13mm Chuck & Adaptor



TCT Cutter Range

MAXIMISE THE TURBO™ 35+ PERFORMANCE

Turbo™ Tough TCT Cutter Range.

Maximise the performance of all JEI drilling machines with our Turbo™ Tough TCT Cutter Range. Our cutters and tools are designed to be long-lasting, withstanding vigorous usage without compromising on performance or precision.

What's included with the Turbo™ 35+?

Three spoke handles, safety strap, safety guard, coolant bottle assembly, 4mm & 5mm allen keys, plastic carrying case and an operators manual.

Have any questions? Feel free to get in touch or contact your local distributor.

JEI Solutions



MAGNETIC DRILLING ACCESSORIES:

- | | | | | | |
|-----------|--|--|-----------|--|--|
| 41 | ANNULAR CUTTER REGRINDING MACHINE |  | 46 | QUICK CHANGE TAPPING CHUCKS & COLLETS |  |
| 42 | INDUSTRIAL ARBORS AND MORSE TAPER SLEEVES |  | 48 | PIPE AND TUBE ATTACHMENT KITS |  |
| 43 | CUTTER EXTENSIONS |  | 49 | VAC PADS FOR NON-MAGNETIC SURFACES |  |
| 44 | CUTTER ADAPTORS |  | 50 | CUTTING OIL AND LUBRICANTS |  |
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ANNULAR CUTTER REGRINDING MACHINE

UK
CA | CE

QUALITY ANNULAR CUTTER REGRINDING

Saves time and money in carrying out an effective cutter regrind, particularly if the customer is in urgent need of continued production drilling.

- ✓ Simple set up and operation – Easy positioning of cutting tool.
- ✓ Economical – far less expensive than heavier equipment.
- ✓ Lightweight and portable – ideal for site work, or a small workshop.
- ✓ Diamond wheel – creates a sharp, clean new cutting edge.
- ✓ Easy angle adjustment – simple alignment to original angle geometry.



Annular Cutter Regrinding Machine

WHY CHOOSE THE JEI REGRINDING MACHINE?

For use with JEI Turbo™ Steel or other brands of HSS annular cutters, with a 19 mm shank, this regrinding machine will regrind cutters from 12 mm diameter to 50 mm diameter in cutting depths of 1" (25 mm) and 2" (50 mm). A quick and economical solution to increase the life and productivity of annular broaching cutters used to produce holes in steel. Simple to operate, an ideal support tool for the industry professional.



Dimensions L x W x H	410 x 412 x 390 mm (without optics)
Net Weight	15.5 kg
Power supply	240 Volts, 50 / 60 Hz
Motor Power Speed	0.12 kW, 2,800RPM
Noise Level	< 70dB
Grinding Disk	Diamond grinding disk, Ø125 mm, Bore Ø10 mm
Annular Cutter Holder Shaft Bore	19 mm (weld on shaft) serial 32 mm (weld on shaft) optional on request



INDUSTRIAL ARBORS

EASILY CONVERTS A DRILL PRESS, MILLING MACHINE, LATHE OR CNC MACHINE TO ACCEPT CUTTERS

Our Industrial Arbors increase cutter versatility and capacity, offering the ability to cut up to three times larger diameter holes than solid drills allow. They also suit most portable magnetic drilling machines with a morse taper fitting as a spare or replacement arbor.



Morse Taper Sleeves

Designed to adapt morse taper drills and arbors to fit the required taper socket.

JEIMTS-2-1	Morse taper sleeve, 2MT shank reducing for 1MT tooling
JEIMTS-3-1	Morse taper sleeve, 3MT shank reducing for 1MT tooling
JEIMTS-3-2	Morse taper sleeve, 3MT shank reducing for 2MT tooling
JEIMTS-4-2	Morse taper sleeve, 4MT shank reducing for 2MT tooling
JEIMTS-5-3	Morse taper sleeve, 5MT shank reducing for 3MT tooling



Quick Change Morse Taper Cutter Arbor

- Secures (3/4") Shank Cutters without the need of allen screws.
- Quick, accurate changing of cutter.
- Includes Integral cooling system.
- Available in 2 and 3 morse taper.
- Suitable for magnetic drilling machines or radial arm drills.



JEIARBOR2MTC-QR Industrial Arbor, Quick release type 2 Morse Taper

JEIARBOR3MTC-QR Industrial Arbor, Quick release type 3 Morse Taper

Standard, without External Coolant Ring

JEIARBOR-2MT	2MT Cutter arbor, to suit 19 mm shank cutters
JEIARBOR-3MT	3MT Cutter arbor, to suit 19 mm shank cutters
JEIARBOR-4MT	4MT Cutter arbor, to suit 19 mm shank cutters
JEIARBOR-3MT/32	3MT Cutter arbor, to suit 1-1/4" (31.75 mm) shank cutters
JEIARBOR-4MT/32	4MT Cutter arbor, to suit 1-1/4" (31.75 mm) shank cutters
JEIARBOR-5MT/32	5MT Cutter arbor, to suit 1-1/4" (31.75 mm) shank cutters



With External Coolant Ring

JEIARBOR-2MTC	2MT Cutter arbor with external coolant ring, to suit 19 mm shank cutters
JEIARBOR-3MTC	3MT Cutter arbor with external coolant ring, to suit 19 mm shank cutters
JEIARBOR-4MTC	4MT Cutter arbor with external coolant ring, to suit 19 mm shank cutters
JEIARBOR-3MT/32C	3MT Cutter arbor with external coolant ring, to suit 1-1/4" (31.75 mm) shank cutters
JEIARBOR-4MT/32C	4MT Cutter arbor with external coolant ring, to suit 1-1/4" (31.75 mm) shank cutters
JEIARBOR-5MT/32C	5MT Cutter arbor with external coolant ring, to suit 1-1/4" (31.75 mm) shank cutters



CUTTER EXTENSIONS

DESIGNED TO INCREASE THE OVERALL CUTTING REACH OF THE MAGNETIC DRILLING MACHINE

Ideal for hard access areas, and drilling through hollow box sections. If positioning over an existing hole, the diameter must be larger than 35 mm to allow the arbor extension through.

- ✓ Ideal for hard access areas and drilling through hollow box sections.
- ✓ Available in 5 cutting lengths from 25 mm to 150 mm that can be stacked together to form a longer extension.
- ✓ Can extend a cutter's reach through an existing hole or over the side of material.
- ✓ Fitted on a 3/4" shank to fit directly into your magdrill's cutter arbor.



WHY CHOOSE THE CUTTER EXTENSIONS?

Available in five cutting lengths, 25 mm, 50 mm, 75 mm, 100 mm and 150 mm which can be stacked together to form a longer extension if required.

JEICE-25	25 mm CUTTER EXTENSION
JEICE-50	50 mm CUTTER EXTENSION
JEICE-75	75 mm CUTTER EXTENSION
JEICE-100	100 mm CUTTER EXTENSION
JEICE-150	150 mm CUTTER EXTENSION



CAN'T FIND THE SIZE YOU REQUIRE? GET IN TOUCH.

We can manufacture a range of cutters to suit your requirement.

No matter your requirement, contact us today and speak to our specialist team.

CUTTER ADAPTORS

A VERSATILE SOLUTION FOR USING CUTTERS IN MAGNETIC DRILLING MACHINES

Specifically designed to enable the use of any annular broaching cutter in all makes and models of magnetic drilling machines. JEI's cutter adaptors are a cost effective solution, enabling the use of all types of annular broaching cutters in all makes and models of magdrills.



JEI-AFEIN
FEIN CUTTER ADAPTOR

Converts standard (19mm shank) broaching cutters for use in a Fein quick in machine arbor.



JEI-A/N8
NITTO CUTTER ADAPTOR

Converts standard (19mm shank) broaching cutters for use in a Nitto magnetic drilling machine. Note - not required for JEI Turbo™ Tough TCT cutters as these are fitted with a "universal" shank fitting.



JEIADPT-19/32
32MM CUTTER ADAPTOR

Maximum recommended cutter diameter = 100 mm
Extension length = 25 mm



JEIADPT-32/19
19MM CUTTER ADAPTOR

Reduction ring, to convert 1-1/4" drive cutter arbor to accept 19mm shank cutters.



JEIADPT-1/2
1/2" CUTTER ADAPTOR

Cutter adaptor solution for using annular broaching cutters (19mm shank) in a hand drill with 1/2" chuck.

JEIADPT-19/32	Cutter adaptor, to convert 19 mm drive cutter arbor to suit 1-1/4" shank cutters. Maximum recommended cutter diameter = 100 mm. Extension length = 25 mm. Can be used as an add on adaptor to standard cutter extensions.
JEI-AFEIN	Cutter adaptor, converts JEI's cutters (19 mm shank) to fit to Fein quick in machine arbor.
JEIADPT-32/19	Reduction ring, to convert 1-1/4" drive cutter arbor to suit 19mm shank cutters.
JEI-A/N 8	Cutter adaptor, converts JEI's Cutters (19 mm shank). To fit to Nitto magnetic drills. Use with Pilot Pin = Dia Ø 7.98 mm. Note - not required for JEI Turbo Tough TCT cutters, as they feature a "Universal" shank fitting.
ST02	19 mm shank adaptor, to fit 13 mm chuck to magnetic drilling machine.
JEIADPT-1/2	Cutter adaptor, converts JEI's cutters (19 mm shank) to fit in 1/2" chuck.



CHUCK & ADAPTOR KITS

EASILY CONVERTS ANY MAGNETIC DRILLING MACHINE TO ACCEPT TWIST DRILLS

Add twist drills to your magnetic drilling machine with chuck and adaptor kits. From 13mm to 19mm capacity.



JEICA-13MM/19

13MM CHUCK & KEY WITH 19MM SHANK ADAPTOR

A chuck and adaptor kit with 19mm shank adaptor to fit directly into a magnetic drilling machine, to enable the use of twist drills in the magdrill.

- ✓ 13mm twist drill capacity.
- ✓ 19mm shank adaptor.
(part number ST02 - also available separately)
- ✓ Ideal for use with JEI's MagBeast® HM40EX and Turbo 35+



JEICA-13MM/19QR

13MM KEYLESS CHUCK WITH 19MM SHANK ADAPTOR

A Keyless option chuck and adaptor kit with 19mm shank adaptor to fit directly into a magnetic drilling machine, to enable the use of twist drills in the magdrill.

- ✓ 13mm twist drill capacity.
- ✓ 19mm shank adaptor.
(part number ST02 - also available separately).



JEICA-2MT

2MT CHUCK AND ADAPTOR

A chuck and 2 morse taper adaptor kit to fit directly into a 2MT magnetic drilling machine, to enable the use of twist drills in the magdrill.

- ✓ 13mm twist drill capacity.
- ✓ 2 morse taper adaptor.
- ✓ Ideal for use with JEI's MagBeast® HM50 range and Magbeast PRO52T



JEICA-3MT

3MT CHUCK AND ADAPTOR

A chuck and 3 morse taper adaptor kit to fit directly into a 3MT magnetic drilling machine, to enable the use of twist drills in the magdrill.

- ✓ 19mm twist drill capacity.
- ✓ 3 morse taper adaptor.
- ✓ Ideal for use with JEI's HM100 range, PRO72T and PRO122T



JEICA-4MT

4MT CHUCK AND ADAPTOR

A chuck and 4 morse taper adaptor kit to fit directly into a 4MT magnetic drilling machine, to enable the use of twist drills in the magdrill.

- ✓ 19mm twist drill capacity.
- ✓ 4 morse taper adaptor.
- ✓ Ideal for use with JEI's MagBeast® PRO152T and HM140T



ST02

19MM CHUCK ADAPTOR

- ✓ 19mm shank adaptor to convert a 13mm chuck for use in a magnetic drilling machine.



QUICK CHANGE TAPPING CHUCKS

- ✓ Designed to suit the MagBeast® Range (see pages 16–31).
- ✓ Suitable for use with either quick change clutched or positive driven type collets.



MagBeast® 200T in action with tapping chuck and clutched collet

JEITAP-2MT	2 morse taper tapping chuck	M3–M14	HM-50T, PRO-52T
JEITAP-3MT	3 morse taper tapping chuck	M5–M30	HM-100T, PRO-72T, PRO-122T
JEITAP-4MT	4 morse taper tapping chuck	M14–M42	HM-140T, PRO-152T
JEITAP-5MT	5 morse taper tapping chuck	M22–M52	MagBeast HM200T & AirBeast 200A

TAPPING COLLETS

- ✓ Designed for use with JEI's quick change tapping chuck.
- ✓ Quick fitting collar to securely hold the required tap.

CLUTCHED COLLET

Designed for partial (blind) hole threading.



POSITIVE DRIVE COLLET

Designed for complete (through) hole threading.



For full list of clutched collets and positive drive collets see opposite page.

JEI MagBeast® magnetic drilling machines can be utilised as an effective tool for carrying out high-demand threading jobs on steel plates. With in-built variable speed and motor reverse options, a selection of models can be quickly converted into tapping machines.

SUITS JEI MACHINE MODEL

HM-50T



PRO-52T



HM-100T PRO-72T PRO-122T



HM-140T PRO-152T



HM-200T AIR200A



Use with Tapping Chuck Part no

JEITAP-2MT

JEITAP-3MT

JEITAP-4MT

JEITAP-5MT

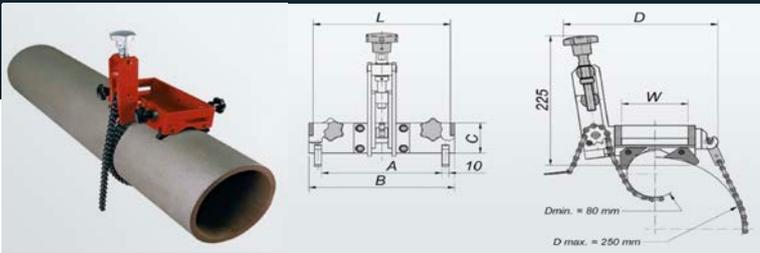
Tap Size	Shank Size Ø x Sq. (mm)	Standard	Clutched Collet part no	Positive Drive Collet part no	Clutched Collet part no	Positive Drive Collet part no	Clutched Collet part no	Positive Drive Collet part no	Clutched Collet part no	Positive Drive Collet part no
M3,5	4 x 3	DIN371	JEITC1-035028	JEIT1-035028						
M4	2.8 x 2.1	DIN376	JEITC1-040030							
M4	4.5 x 3.4	DIN371	JEITC1-045034	JEIT1-045034						
M4	4 x 3.15	ISO529	JEITC1-040031	JEIT1-040031						
M4,5	4.5 x 3.55	ISO529	JEITC1-045035	JEIT1-045035						
M5	3.5 x 2.7	DIN376	JEITC1-035027	JEIT1-035027						
M5	5 x 4	ISO529	JEITC1-050040	JEIT1-050040						
M5	6 x 4.9	DIN371	JEITC1-060049	JEIT1-060049	JEITC2-060049	JEIT2-060049				
M6	4.5 x 3.4	DIN376	JEITC1-045034	JEIT1-045034	JEITC2-045034					
M6	6 x 4.9	DIN371	JEITC1-060049	JEIT1-060049	JEITC2-060049	JEIT2-060049				
M6	6.3 x 5	ISO529	JEITC1-063050	JEIT1-063050	JEITC2-063050	JEIT2-063050				
M8	6 x 4.9	DIN376	JEITC1-060049	JEIT1-060049	JEITC2-060049	JEIT2-060049				
M8	8 x 6.2	DIN371	JEITC1-080062	JEIT1-080062	JEITC2-080062	JEIT2-080062				
M8	8 x 6.3	ISO529	JEITC1-080063	JEIT1-080063	JEITC2-080063	JEIT2-080063				
M10	7 x 5.5	DIN376	JEITC1-070055	JEIT1-070055	JEITC2-070055	JEIT2-070055				
M10	10 x 8	DIN371	JEITC1-100080	JEIT1-100080	JEITC2-100080	JEIT2-100080				
M12	9 x 7	DIN376	JEITC1-090070	JEIT1-090070	JEITC2-090070	JEIT2-090070				
M12	9 x 7.1	ISO529	JEITC1-090071	JEIT1-090071	JEITC2-090071					
M14	11 x 9	DIN376	JEITC1-110090	JEIT1-110090	JEITC2-110090	JEIT2-110090	JEITC3-110090	JEIT3-110090		
M14	11.2 x 9	ISO529	JEITC1-112090	JEIT1-112090	JEITC2-112090	JEIT2-112090	JEITC3-112090	JEIT3-112090		
M16	12 x 9	DIN376	JEITC1-120090	JEIT1-120090	JEITC2-120090	JEIT2-120090	JEITC3-120090	JEIT3-120090		
M16	12.5 x 10	ISO529	JEITC1-125100	JEIT1-125100	JEITC2-125100	JEIT2-125100	JEITC3-125100	JEIT3-125100		
M18	14 x 11	DIN376			JEITC2-140110	JEIT2-140110	JEITC3-140110	JEIT3-140110		
M18	14 x 11.2	ISO529			JEITC2-140112	JEIT2-140112	JEITC3-140112	JEIT3-140112		
M20	14 x 11.2	ISO529			JEITC2-140112	JEIT2-140112	JEITC3-140112	JEIT3-140112		
M20	16 x 12	DIN376			JEITC2-160120	JEIT2-160120	JEITC3-160120	JEIT3-160120		
M22	16 x 12.5	ISO529			JEITC2-160125	JEIT2-160125	JEITC3-160125	JEIT3-160125	JEITC4-160125	JEIT4-160125
M22	18 x 14.5	DIN376			JEITC2-180145	JEIT2-180145	JEITC3-180145	JEIT3-180145	JEITC4-180145	JEIT4-180145
M24	18 x 14	ISO529			JEITC2-180140	JEIT2-180140	JEITC3-180140	JEIT3-180140	JEITC4-180140	JEIT4-180140
M24	18 x 14.5	DIN376			JEITC2-180145	JEIT2-180145	JEITC3-180145	JEIT3-180145	JEITC4-180145	JEIT4-180145
M27	20 X 16	DIN376			JEITC2-200160	JEIT2-200160	JEITC3-200160	JEIT3-200160	JEITC4-200160	JEIT4-200160
M30	22 X 18	DIN376			JEITC2-220180	JEIT2-220180	JEITC3-220180	JEIT3-220180	JEITC4-220180	JEIT4-220180
M33	22.4 X 18	ISO529					JEITC3-224180	JEIT3-224180	JEITC4-224180	JEIT4-224180
M33	25 x 20	DIN376					JEITC3-250200	JEIT3-250200	JEITC4-250200	JEIT4-250200
M36	28 X 22	DIN376					JEITC3-280220	JEIT3-280220	JEITC4-280220	JEIT4-280220
M37	28 X 22.4	ISO529					JEITC3-280224	JEIT3-280224	JEITC4-280224	JEIT4-280224
M39	32 X 24	DIN376					JEITC3-320240	JEIT3-320240	JEITC4-320240	JEIT4-320240
M42	32 X 24	DIN376					JEITC3-320240	JEIT3-320240	JEITC4-320240	JEIT4-320240
M44	31.5 X 25	ISO529							JEITC4-315250	JEIT4-315250
M45	36 X 29	DIN376							JEITC4-360290	JEIT4-360290
M48	36 X 29	DIN376							JEITC4-360290	JEIT4-360290
M50								
M52								



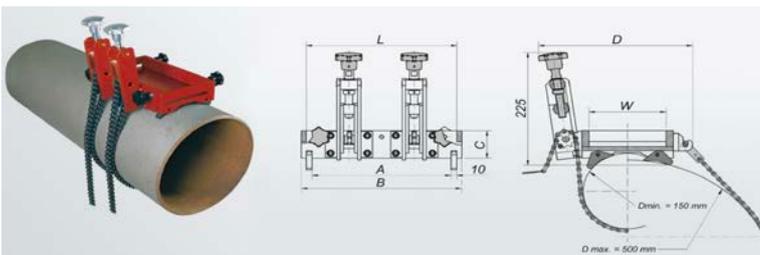
PIPE AND TUBE ATTACHMENT KITS

HANDY SOLUTION ALLOWING MAGNETIC DRILLING MACHINES TO CUT HOLES IN PIPE AND TUBE SECTIONS

Features a chain clamping system to secure the machine into a safe drilling location. Four versions are available, with a minimum pipe diameter of 80 mm.



Part No.	Suitable for JEI Models	L (mm) for magnet base	W (mm) for magnet base	Min. Dia of pipe	Max. Dia of pipe	A (mm) Min. Pipe Length	B (mm) Overall Length	C (mm) Internal Depth for magnet base	D (mm) Overall Width
JEICB-S	Minibeast, Minibeast Auto, Minibeast Cordless, Turbo 35+, PRO52T, Midibeast, PRO72T	205	95	80mm Dia	250mm as supplied. Extra chain available for Larger Dia (See Part List)	181	217	52.5	221
JEICB-M	HM-40EX, HM-50, HM-50T, HM-40	205	95	80mm Dia	250mm as supplied. Extra chain available for Larger Dia (See Part List)	181	217	52.5	221



Part No.	Suitable for JEI Models	L (mm) for magnet base	W (mm) for magnet base	Min. Dia of pipe	Max. Dia of pipe	A (mm) Min. Pipe Length	B (mm) Overall Length	C (mm) Internal Depth for magnet base	D (mm) Overall Width
JEICB-L	PRO122-T	258	130	150mm Dia	500mm as supplied extra chain available for Larger Dia (See Part List)	234	270	52.5	260
JEICB-XL	HM-100, HM-100T, PRO-152T	258	130	150mm Dia	500mm as supplied extra chain available for Larger Dia (See Part List)	234	270	52.5	260



ULTRA XL PIPE ATTACHMENT - NEW INNOVATION!

Specially designed to adapt the largest of machines in JEI's range, making it now possible to cut holes up to 200 mm in diameter, or make threads up to M52 in pipes with the Magbeast HM200T.

- ✓ For use on pipes between 150 mm - 500 mm diameter as standard.
- ✓ Increase maximum diameter by 500 mm with two additional lengths of chain (two x part number JEICB-18).
- ✓ Ideal for use with JEI models: PRO-122T, HM140T, PRO-152T & HM200T.
- ✓ Suitable for large magnetic drilling machines with magnet base 150 mm wide.



VAC PAD

PROVIDING THE ABILITY TO DRILL ON NON-MAGNETIC, CURVED OR THIN SURFACES

The Vac Pad enables magnetic drilling machines to effectively operate on non-ferrous material, providing the ability to drill on non-magnetic, curved or thin surfaces.

- ✓ Requires compressed air pressure (maximum 120 PSI).
- ✓ 2 sizes available to cover the complete JEI range of magnetic drilling machines.
- ✓ New larger version (JEVPAD-L) allows smaller machines to drill in multiple positions without moving fixture.

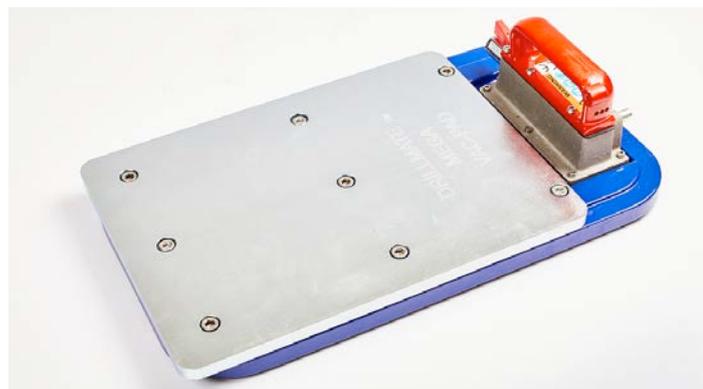


SMALL VAC PAD

Magnetic Base Footprint
200mm x 135mm

Use with any magnetic drilling machine with a magnetic base dimensions within the footprint size.

Part No. JEVPAD



LARGE VAC PAD

Magnetic Base Footprint
300mm x 250mm

Use with any magnetic drilling machine with a magnetic base dimensions within the footprint size.

Part No. JEVPAD-L

CUTTING NON-MAGNETIC MATERIALS WITH A PORTABLE MAGNETIC DRILL

The JEI Vac Pad is an effective solution to allow a magnetic drilling machines to cut holes in non-ferrous materials, providing the ability to accessorise your machine to cut on non-magnetic or thin materials.

CUTTING OILS AND LUBRICANTS

FORMULATED TO ENHANCE CUTTER PERFORMANCE AND EXTEND TOOL LIFE

JEI's range of cutting oils and lubricants are specially formulated to use with the Turbo™ range of annular cutting tools, taps, twist drills, reamers and countersinks.



turbo[®]STEEL SOLUBLE CUTTING OIL

- ✓ Mix (dilute) with water, then fill up the machine coolant bottle for through the spindle cooling.
- ✓ Use with Turbo™ Steel cutters for best results.

Part Numbers	Description
JEIOIL-SOL	Cutting oil soluble, dilutes 20:1, 1 L
JEIOIL-SOL/5	Cutting oil soluble, dilutes 20:1, 5 L
JEIOIL-SOL/25	Cutting oil soluble, dilutes 20:1, 25 L



turbo[®]TOUGH NEAT CUTTING OIL

- ✓ Ideal for drilling and tapping.
- ✓ Increases performance when drilling tough materials.
- ✓ Best results with Turbo™ Steel and Turbo™ Tough cutting tools.

Part Numbers	Description
JEIOIL-NEAT	Cutting oil neat, 1 L
JEIOIL-NEAT/5	Cutting oil neat, 5 L
JEIOIL-NEAT/25	Cutting oil neat, 25 L



turbo[®]TOUGH CUTTING SPRAY

- ✓ For cutting, drilling, countersinking, tapping and reaming.
- ✓ Enhanced results on tough materials.
- ✓ Best results with Turbo™ Tough cutting tools.
- ✓ Features a unique 360° valve to ensure spraying at all angles.

Part Numbers	Description
JEIOIL-TTA	Turbo tough drill & tap aerosol, 500 ml



turbo[®]ENDURANCE+ CUTTING PASTE FOR OVERHEAD DRILLING

A non-drip, revolutionary aerosol magnetic drilling paste formulated for overhead and vertical drilling. Ideal for:

- Steel building.
- Structural bridgework.
- Offshore construction.
- Hazardous environments.

Part Numbers	Description
JEIOIL-TEP	Endurance+ magnetic drilling paste, 500 ml



MAGNETIC BRUSHES AND SWEEPER

THE QUICK AND EASY WAY TO KEEP YOUR WORKPLACE CLEAN AFTER DRILLING

- ✓ Easy capture of swarf with a magnetised brush.
- ✓ Quick release of swarf.
- ✓ Ideal for workshops, site and on rail track ballast.



PRESENTING THE QUICK AND EASY WAY TO TIDY THE WORK AREA AFTER DRILLING

- ✓ A quick wave of the brush over the steel swarf and it is magnetised to the brush while you transport it to the disposal point.
- ✓ A simple pull of the handle releases the swarf into the bin.
- ✓ Ideal for use in confined areas in workshops, site and on rail track ballast.

Part Numbers	Description	Dimensions (length x diameter x working length)
JEIMB-S	Mag Brush Mini (Small)	240 mm x 16 x 102 mm
JEIMB-M	Mag Brush Midi (Medium)	385 mm x 25 x 175 mm
JEIMB-L	Mag Brush Maxi (Large)	1008 mm x 25 x 175 mm



Mini Mag Brush (240 mm)



Midi Mag Brush (385 mm)



Maxi Mag Brush (1008 mm)

JEI MAG BRUSH SWEEPER

Designed to collect all deposited steel chips, swarf and magnetic waste from the floor level.

- ✓ A quick wave of the brush over the steel swarf and it is magnetised to the brush while you transport it to the disposal point.
- ✓ A simple pull of the handle releases the swarf into the bin.
- ✓ Ideal for use in confined areas in workshops, site and on rail track ballast.

Part Numbers	Description
JEIMB-F	Magnetic Floor Sweeper



CUTTING TOOLS AT A GLANCE

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GUIDE TO OUR ANNULAR CUTTERS

WHEN ONLY THE BEST TOOLS WILL DO

	STRUCTURAL STEEL MILD STEEL ALUMINIUM	CAST IRON STAINLESS STEEL	RAIL TRACK	HARDOX WELDOX ARMOUR & ABRO PLATE
<p>turbo STEEL</p> <p>High quality, fully CNC ground M2AL (HSS) cutter that provides the very best, optimum performance.</p>				
<p>turbo TOUGH</p> <p>Features triple tooth cutting geometry for the highest performance standards.</p>				
<p>turbo ENDURANCE</p> <p>Fully CNC ground M2-AL cutter with an innovative coating for extensive tool life.</p>				
<p>turbo ENDURANCE+</p> <p>Designed and engineered to tackle the world's toughest materials.</p>				
<p>turbo RAIL TCT</p> <p>Manufactured specifically for delivering accuracy and efficiency for cutting rail track.</p>				
<p>turbo RAIL+ SUPER TOUGH</p> <p>For the most challenging rail track, featuring Endurance coating for unrivalled tool life.</p>				

< 900 RM ————— **MAXIMUM TENSILE STRENGTH (N/MM²)** ————— < 1600 RM





turbo™ STEEL M2AL HSS

ULTIMATE IN PRECISION, QUALITY AND LONGEVITY

Increased hardness at the cutting point, reduces wear resulting in more holes than the standard M2 HSS. Manufactured from M2-AL material, resulting in an increased cutting edge hardness of 66.6–67.5 ROC, with the ability to cut material with a hardness up to 900 N/mm.

- ✓ JEI's Turbo™ Steel features a 2 step geometry.
- ✓ Each alternate tooth involves a different stage of the hole cutting process.
- ✓ Increasing cutting power.
- ✓ Reducing resistance.
- ✓ Produces a finer nest of chips to provide an improved swarf removal.
- ✓ Increased tool life - more holes per cutter.
- ✓ Reduced tool wear - produces a quality burr free hole.



Size Range:
10mm - 65mm Ø



Cutting Depths:
25 mm / 50 mm



Cutter Type:
M2-AL (HSS)



Max. Tensile Strength:
<900RM (N/ mm²)



Perfect for:
Most mild, aluminium and structural steel



THE FEATURES AND BENEFITS OF THE JEI HSS CUTTER



Tooth Geometry - Designed to aid better chip removal.

Better aiding the chip removal during the cut, allowing the tool to produce a smoother cut

Exclusive Geometry.

Turbo geometry has been designed to offer the optimum tool life, whilst enabling the tool to obtain a speedy cut.

Produced from M2AL Material.

Our Turbo cutters are designed to last longer and cut faster and give a better, more accurate finished hole than any other annular cutter.

Perform in Tough Materials.

Perfect for mild structural steel.



Measurement METRIC SIZES

10mm - 65mm Ø



Cutter Dia Ø	1" D.O.C. Part No.	2" D.O.C. Part No.
10 mm	JEICS10	n/a
11 mm	JEICS11	JEICL11
12 mm	JEICS12	JEICL12
13 mm	JEICS13	JEICL13
14 mm	JEICS14	JEICL14
15 mm	JEICS15	JEICL15
16 mm	JEICS16	JEICL16
17 mm	JEICS17	JEICL17
17.5 mm	JEICS17.5	JEICL17.5
18 mm	JEICS18	JEICL18
19 mm	JEICS19	JEICL19
20 mm	JEICS20	JEICL20
21 mm	JEICS21	JEICL21
22 mm	JEICS22	JEICL22
23 mm	JEICS23	JEICL23
24 mm	JEICS24	JEICL24
25 mm	JEICS25	JEICL25
26 mm	JEICS26	JEICL26
27 mm	JEICS27	JEICL27
28 mm	JEICS28	JEICL28
29 mm	JEICS29	JEICL29
30 mm	JEICS30	JEICL30
31 mm	JEICS31	JEICL31
32 mm	JEICS32	JEICL32
33 mm	JEICS33	JEICL33
34 mm	JEICS34	JEICL34
35 mm	JEICS35	JEICL35
36 mm	JEICS36	JEICL36
37 mm	JEICS37	JEICL37

Cutter Dia Ø	1" D.O.C. Part No.	2" D.O.C. Part No.
38 mm	JEICS38	JEICL38
39 mm	JEICS39	JEICL39
40 mm	JEICS40	JEICL40
41 mm	JEICS41	JEICL41
42 mm	JEICS42	JEICL42
43 mm	JEICS43	JEICL43
44 mm	JEICS44	JEICL44
45 mm	JEICS45	JEICL45
46 mm	JEICS46	JEICL46
47 mm	JEICS47	JEICL47
48 mm	JEICS48	JEICL48
49 mm	JEICS49	JEICL49
50 mm	JEICS50	JEICL50
51 mm	JEICS51	JEICL51
52 mm	JEICS52	JEICL52
53 mm	JEICS53	JEICL53
54 mm	JEICS54	JEICL54
55 mm	JEICS55	JEICL55
56 mm	JEICS56	JEICL56
57 mm	JEICS57	JEICL57
58 mm	JEICS58	JEICL58
59 mm	JEICS59	JEICL59
60 mm	JEICS60	JEICL60
61 mm	JEICS61	JEICL61
62 mm	JEICS62	JEICL62
63 mm	JEICS63	JEICL63
64 mm	JEICS64	JEICL64
65 mm	JEICS65	JEICL65

Measurement IMPERIAL SIZES

7/16" - 2-9/16" Ø



Cutter Dia Ø	1" D.O.C. Part No.	2" D.O.C. Part No.
7/16"	CS4375	CL437
1/2"	CS5000	CL500
9/16"	CS5625	CL562
5/8"	CS6250	CL625
11/16"	CS6875	CL687
3/4"	CS7500	CL750
13/16"	CS8125	CL812
7/8"	CS8750	CL875
15/16"	CS9375	CL937
1"	CS1000	CL100
1-1/16"	CS1062	CL106
1-1/8"	CS1125	CL112
1-3/16"	CS1187	CL118
1-1/4"	CS1250	CL125
1-5/16"	CS1312	CL131
1-3/8"	CS1375	CL137
1-7/16"	CS1437	CL143
1-1/2"	CS1500	CL150
1-9/16"	CS1562	CL156
1-5/8"	CS1625	CL162
1-11/16"	CS1687	CL168
1-3/4"	CS1750	CL175
1-13/16"	CS1812	CL181
1-7/8"	CS1875	CL187
1-15/16"	CS1937	CL193
2"	CS2000	CL200
2-1/16"	CS2062	CL206
2-1/8"	CS2125	CL212
2-3/16"	CS2187	CL218
2-1/4"	CS2250	CL225
2-5/16"	CS2312	CL231
2-3/8"	CS2375	CL237
2-7/16"	CS2437	CL243
2-1/2"	CS2500	CL250
2-9/16"	CS2562	CL256

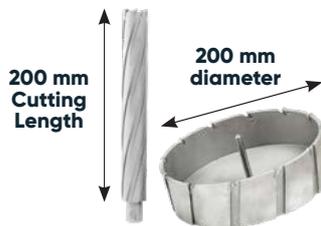


Pilot Pins

Cutter Diameter Range	Use Pilot Part No	Use Pilot Part No
10 mm-65 mm	JEIPILOT1	JEIPILOT2

NEED TO DRILL A LARGER DIAMETER OR CUT THROUGH THICKER MATERIAL?

Please refer to our extensive TCT Range on page 58.



Huge range of sizes available

Pilot Pins

Cutter Diameter Range	Use Pilot Part No	Use Pilot Part No
7/16"-2-9/16"	JEIPILOT1	JEIPILOT2

turbo™



Cutter sets available on page 70.



Hint and Tips!

When drilling through multiple layers, please specify our ID style cutter.



turbo™ ENDURANCE M2-AL HSS COATED CUTTERS

UNRIVALLED PERFORMANCE

Turbo™ Endurance is a high quality, fully CNC ground M2-AL cutter with an innovative coating, designed to provide extensive tool life. It is also equipped to drill through a wide range of challenging materials.

- ✓ Greater protection from heat build and surface softening.
- ✓ Unrivalled performance – less production down time.
- ✓ Ability to drill dry when required.
- ✓ Low cost per hole ratio.



Size Range:
12 mm – 65 mmØ



Cutting Depths:
25 mm / 50 mm



Cutter Type:
M2-AL (HSS)
Coated



Max. Tensile Strength:
<1000RM (N/ mm²)

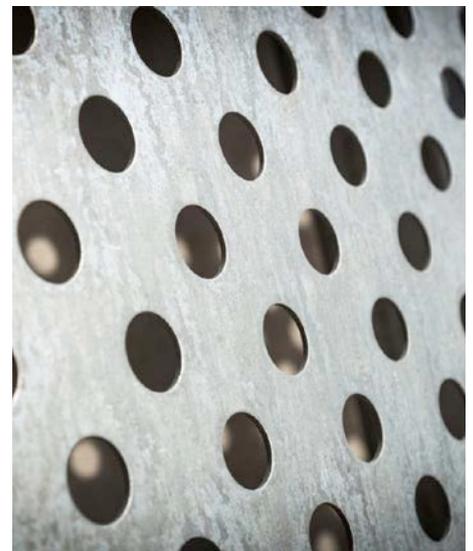


Perfect for:
Mild, aluminium and structural steel with extended tool life.



THE FEATURES AND BENEFITS OF THE TURBO™ ENDURANCE

- Tooth Geometry – Designed to aid better chip removal.**
Better aiding the chip removal during the cut, allowing the tool to produce a smoother cut
- Exclusive Geometry.**
Turbo geometry has been designed to offer the optimum tool life, whilst enabling the tool to obtain a speedy cut.
- M2AL Turbo Cutters.**
Our Turbo cutters are designed to last longer and cut faster and give a better, more accurate finished hole than any other annular cutter.
- Strip Land Design.**
Generates less heat, prolonging tool life saving you money.
- Perform in Tough Materials.**
Perfect for Mild, aluminium and structural steel with extended tool life.



Diameter Range Ø:
12mm - 65mm



Shank Size:
19.05mm - 3/4"

**MORE SIZES
AVAILABLE
ON REQUEST
VISIT
JEIUK.COM**

Cutter Dia Ø	Part Number
12 mm	JEIECS12
13 mm	JEIECS13
14 mm	JEIECS14
15 mm	JEIECS15
16 mm	JEIECS16
17 mm	JEIECS17
18 mm	JEIECS18
19 mm	JEIECS19
20 mm	JEIECS20
21 mm	JEIECS21
22 mm	JEIECS22
23 mm	JEIECS23
24 mm	JEIECS24
25 mm	JEIECS25
26 mm	JEIECS26
27 mm	JEIECS27
28 mm	JEIECS28
29 mm	JEIECS29
30 mm	JEIECS30
31 mm	JEIECS31
32 mm	JEIECS32
33 mm	JEIECS33
34 mm	JEIECS34
35 mm	JEIECS35
36 mm	JEIECS36
37 mm	JEIECS37
38 mm	JEIECS38
39 mm	JEIECS39
40 mm	JEIECS40
41 mm	JEIECS41
42 mm	JEIECS42
43 mm	JEIECS43
44 mm	JEIECS44
45 mm	JEIECS45
46 mm	JEIECS46
47 mm	JEIECS47
48 mm	JEIECS48
49 mm	JEIECS49
50 mm	JEIECS50
51 mm	JEIECS51
52 mm	JEIECS52
53 mm	JEIECS53
54 mm	JEIECS54
55 mm	JEIECS55
56 mm	JEIECS56
57 mm	JEIECS57
58 mm	JEIECS58
59 mm	JEIECS59
60 mm	JEIECS60
61 mm	JEIECS61
62 mm	JEIECS62
63 mm	JEIECS63
64 mm	JEIECS64
65 mm	JEIECS65

Diameter Range Ø:
12mm - 65mm



Shank Size:
19.05mm - 3/4"

**MORE SIZES
AVAILABLE
ON REQUEST
VISIT
JEIUK.COM**

Cutter Dia Ø	Part Number
12 mm	JEIECL12
13 mm	JEIECL13
14 mm	JEIECL14
15 mm	JEIECL15
16 mm	JEIECL16
17 mm	JEIECL17
18 mm	JEIECL18
19 mm	JEIECL19
20 mm	JEIECL20
21 mm	JEIECL21
22 mm	JEIECL22
23 mm	JEIECL23
24 mm	JEIECL24
25 mm	JEIECL25
26 mm	JEIECL26
27 mm	JEIECL27
28 mm	JEIECL28
29 mm	JEIECL29
30 mm	JEIECL30
31 mm	JEIECL31
32 mm	JEIECL32
33 mm	JEIECL33
34 mm	JEIECL34
35 mm	JEIECL35
36 mm	JEIECL36
37 mm	JEIECL37
38 mm	JEIECL38
39 mm	JEIECL39
40 mm	JEIECL40
41 mm	JEIECL41
42 mm	JEIECL42
43 mm	JEIECL43
44 mm	JEIECL44
45 mm	JEIECL45
46 mm	JEIECL46
47 mm	JEIECL47
48 mm	JEIECL48
49 mm	JEIECL49
50 mm	JEIECL50
51 mm	JEIECL51
52 mm	JEIECL52
53 mm	JEIECL53
54 mm	JEIECL54
55 mm	JEIECL55
56 mm	JEIECL56
57 mm	JEIECL57
58 mm	JEIECL58
59 mm	JEIECL59
60 mm	JEIECL60
61 mm	JEIECL61
62 mm	JEIECL62
63 mm	JEIECL63
64 mm	JEIECL64
65 mm	JEIECL65

PILOT PINS

For more information and a full breakdown of pilot pins, please see page 72.



Cutter Diameter Range	Depth of cut	Use Pilot Part Number
12-65 mm	25 mm	JEIPILOT1
12-65 mm	50 mm	JEIPILOT2



5 PIECE 25MM ENDURANCE SET

Part Number - JEIECS-SET5

Including: 1 of each 14, 16, 18, 20 and 22mm
x 25mm cutting depth and pilot pin to suit.



5 PIECE 50MM ENDURANCE SET

Part Number - JEIECL-SET5

Including 1 of each, 14, 16, 18, 20 and 22mm
x 50mm cutting depth. Pilot pin to suit.



turbo™ TOUGH TUNGSTEN CARBIDE TIPPED CUTTER

ULTIMATE IN PRECISION, QUALITY AND LONGEVITY

The Turbo Tough cutter is designed and manufactured to the highest of standards, to ensure maximum cutting performance on a variety of materials, from structural steel to Cast Iron. It's cutting teeth manufactured from micro grain carbide combined with a cobalt binding agent to ensure a super strong structure and provide exceptional tool life.

- ✓ **Reduced cutting resistance = less power required.**
- ✓ **Even tooth load = vibration free cut.**
- ✓ **Smooth cutting action = increased cutting efficiency.**

Size Range: 12 mm - 200 mmØ	Cutting Depths: 40 mm, 55 mm, 80 mm, 110 mm, 150 mm, 200 mm	Cutter Type: TCT	Max. Tensile Strength: <1200RM (N/ mm²)	Perfect for: Mild & structural steels, cast iron, stainless

Steel Fabrication Bridgework



THE FEATURES AND BENEFITS OF THE JEI TCT CUTTER



- Triple Tooth Cutting Geometry.**
Consistent cutting edge, using CNC fully automated process. Each tooth provides its own cutting function to provide great results resulting in reduced cutting resistance = less power required. Even tooth load = vibration- free cut. Smooth cutting action = Increased cutting efficiency.
- Premium Quality Cutting Tips.**
Manufactured from Micro Grain Carbide, combined with a cobalt binding agent to ensure super strong structure and provide exceptional tool life, making it ideal for all materials from structural steel to cast iron and stainless.
- Consistent, High Quality Brazing of Tips.**
Providing each cutting edge with maximum support to prevent breakage.
- CNC Machined Flutes and Cutter Body.**
Ensuring consistent close tolerance holes and minimising run out.
- Universal-Fitting Cutter Shank.**
Designed to suit all types of magnetic drilling machines.



Diameter Range Ø:
12mm - 65mm



Shank Size:
19.05mm - 3/4"

Cutter Dia Ø	Part Number
12 mm	JEITCS12
13 mm	JEITCS13
14 mm	JEITCS14
15 mm	JEITCS15
16 mm	JEITCS16
17 mm	JEITCS17
18 mm	JEITCS18
19 mm	JEITCS19
20 mm	JEITCS20
21 mm	JEITCS21
22 mm	JEITCS22
23 mm	JEITCS23
24 mm	JEITCS24
25 mm	JEITCS25
26 mm	JEITCS26
27 mm	JEITCS27
28 mm	JEITCS28
29 mm	JEITCS29
30 mm	JEITCS30
31 mm	JEITCS31
32 mm	JEITCS32
33 mm	JEITCS33
34 mm	JEITCS34
35 mm	JEITCS35
36 mm	JEITCS36
37 mm	JEITCS37



Cutter Dia Ø	Part Number
38 mm	JEITCS38
39 mm	JEITCS39
40 mm	JEITCS40
41 mm	JEITCS41
42 mm	JEITCS42
43 mm	JEITCS43
44 mm	JEITCS44
45 mm	JEITCS45
46 mm	JEITCS46
47 mm	JEITCS47
48 mm	JEITCS48
49 mm	JEITCS49
50 mm	JEITCS50
51 mm	JEITCS51
52 mm	JEITCS52
53 mm	JEITCS53
54 mm	JEITCS54
55 mm	JEITCS55
56 mm	JEITCS56
57 mm	JEITCS57
58 mm	JEITCS58
59 mm	JEITCS59
60 mm	JEITCS60
61 mm	JEITCS61
62 mm	JEITCS62
65 mm	JEITCS65

PILOT PINS

For more information and a full breakdown of pilot pins, please see page 72.



Cutter Diameter Range	Use Pilot Part Number
12-17 mm	JEIPILOT1/ TCTS
18-65 mm	JEIPILOT1/ 8MM
66 mm +	JEIPILOT1/ 8MM/W



5 PIECE TCT CUTTER SET

Part Number - JEITCS-SET5

Including 1 of each 14, 16, 18, 20 and 22mm x 40mm cutting depth. 2 pilot pins to suit



11 PIECE TCT CUTTER SET

Part Number - JEITCS-SET11

Including 1 of each 12, 13, 14, 15, 16, 18, 20, 22, 24, 25 and 26mm x 40mm cutting depth. 2 pilot pins to suit.



3 PIECE CUTTER FABRICATOR STARTER KIT

Designed for the steel fabricator, for use with Magnetic Drilling Machines.

Includes 1 of each 14, 18 and 22mm Short Series Turbo™ Tough TCT Cutters plus 2 pilot pins to suit, supplied in a handy round plastic case.

Part No. JEITCS-SET3



Diameter Range Ø:
12mm - 65mm



Shank Size:
19.05mm - 3/4"

Cutter Dia Ø	Part Number
12 mm	JEITCL12
13 mm	JEITCL13
14 mm	JEITCL14
15 mm	JEITCL15
16 mm	JEITCL16
17 mm	JEITCL17
18 mm	JEITCL18
19 mm	JEITCL19
20 mm	JEITCL20
21 mm	JEITCL21
22 mm	JEITCL22
23 mm	JEITCL23
24 mm	JEITCL24
25 mm	JEITCL25
26 mm	JEITCL26
27 mm	JEITCL27
28 mm	JEITCL28
29 mm	JEITCL29
30 mm	JEITCL30
31 mm	JEITCL31
32 mm	JEITCL32
33 mm	JEITCL33
34 mm	JEITCL34
35 mm	JEITCL35
36 mm	JEITCL36
37 mm	JEITCL37
38 mm	JEITCL38
39 mm	JEITCL39
40 mm	JEITCL40
41 mm	JEITCL41
42 mm	JEITCL42
43 mm	JEITCL43
44 mm	JEITCL44
45 mm	JEITCL45
46 mm	JEITCL46
47 mm	JEITCL47
48 mm	JEITCL48
49 mm	JEITCL49
50 mm	JEITCL50
51 mm	JEITCL51
52 mm	JEITCL52
53 mm	JEITCL53
54 mm	JEITCL54
55 mm	JEITCL55
56 mm	JEITCL56
57 mm	JEITCL57
58 mm	JEITCL58
59 mm	JEITCL59
60 mm	JEITCL60
61 mm	JEITCL61
62 mm	JEITCL62
65 mm	JEITCL65

Cutting Depth: 55mm



Overall Length: 97mm

Cutter Dia Ø	Part Number	Cutter Dia Ø	Part Number
66 mm	JEITCL66	89 mm	JEITCL89
67 mm	JEITCL67	90 mm	JEITCL90
68 mm	JEITCL68	91 mm	JEITCL91
69 mm	JEITCL69	92 mm	JEITCL92
70 mm	JEITCL70	93 mm	JEITCL93
71 mm	JEITCL71	94 mm	JEITCL94
72 mm	JEITCL72	95 mm	JEITCL95
73 mm	JEITCL73	96 mm	JEITCL96
74 mm	JEITCL74	97 mm	JEITCL97
75 mm	JEITCL75	98 mm	JEITCL98
76 mm	JEITCL76	99 mm	JEITCL99
77 mm	JEITCL77	100 mm	JEITCL100
78 mm	JEITCL78	105 mm	JEITCL105
79 mm	JEITCL79	110 mm	JEITCL110
80 mm	JEITCL80	115 mm	JEITCL115
81 mm	JEITCL81	120 mm	JEITCL120
82 mm	JEITCL82	125 mm	JEITCL125
83 mm	JEITCL83	130 mm	JEITCL130
84 mm	JEITCL84	135 mm	JEITCL135
85 mm	JEITCL85	140 mm	JEITCL140
86 mm	JEITCL86	145 mm	JEITCL145
87 mm	JEITCL87	150 mm	JEITCL150
88 mm	JEITCL88	200 mm	JEITCL200

PILOT PINS

For more information and a full breakdown of pilot pins, please see page 72.



Cutter Diameter Range	Use Pilot Part Number
12-17 mm	JEIPILOT2
18-65 mm	JEIPILOT2/8MM
66 mm +	JEIPILOT2/ 8MM/W



5 PIECE TCT CUTTER SET

Part Number - JEITCL-SET5

Including 1 of each 14, 16, 18, 20 and 22mm x 55mm cutting depth. 2 pilot pins to suit.



11 PIECE TCT CUTTER SET

Part Number - JEITCL-SET11

Including 1 of each 12, 13, 14, 15, 16, 18, 20, 22, 24, 25 and 26mm x 55mm cutting depth. 2 pilot pins to suit



Diameter Range Ø:
18mm - 65mm



Shank Size:
19.05mm - 3/4"

Cutter Dia Ø	Part Number
18 mm	JEITCX18
19 mm	JEITCX19
20 mm	JEITCX20
21 mm	JEITCX21
22 mm	JEITCX22
23 mm	JEITCX23
24 mm	JEITCX24
25 mm	JEITCX25
26 mm	JEITCX26
27 mm	JEITCX27
28 mm	JEITCX28
29 mm	JEITCX29
30 mm	JEITCX30
31 mm	JEITCX31
32 mm	JEITCX32
33 mm	JEITCX33
34 mm	JEITCX34
35 mm	JEITCX35
36 mm	JEITCX36
37 mm	JEITCX37
38 mm	JEITCX38
39 mm	JEITCX39
40 mm	JEITCX40
41 mm	JEITCX41
42 mm	JEITCX42
43 mm	JEITCX43
44 mm	JEITCX44
45 mm	JEITCX45
46 mm	JEITCX46
47 mm	JEITCX47
48 mm	JEITCX48
49 mm	JEITCX49
50 mm	JEITCX50
51 mm	JEITCX51
52 mm	JEITCX52
53 mm	JEITCX53
54 mm	JEITCX54
55 mm	JEITCX55
56 mm	JEITCX56
57 mm	JEITCX57
58 mm	JEITCX58
59 mm	JEITCX59
60 mm	JEITCX60
61 mm	JEITCX61
62 mm	JEITCX62
65 mm	JEITCX65

Cutting Depth: 80mm



Diameter Range Ø:
66mm - 135mm

Shank Size:
31.75mm - 1-1/4"

Overall Length: 116mm

Cutter Dia Ø	Part Number
66 mm	JEITCX66
67 mm	JEITCX67
68 mm	JEITCX68
69 mm	JEITCX69
70 mm	JEITCX70
71 mm	JEITCX71
72 mm	JEITCX72
73 mm	JEITCX73
74 mm	JEITCX74
75 mm	JEITCX75
76 mm	JEITCX76
77 mm	JEITCX77
78 mm	JEITCX78
79 mm	JEITCX79
80 mm	JEITCX80
81 mm	JEITCX81
82 mm	JEITCX82
83 mm	JEITCX83
84 mm	JEITCX84
85 mm	JEITCX85
86 mm	JEITCX86
87 mm	JEITCX87
88 mm	JEITCX88

Cutter Dia Ø	Part Number
89 mm	JEITCX89
90 mm	JEITCX90
91 mm	JEITCX91
92 mm	JEITCX92
93 mm	JEITCX93
94 mm	JEITCX94
95 mm	JEITCX95
96 mm	JEITCX96
97 mm	JEITCX97
98 mm	JEITCX98
99 mm	JEITCX99
100 mm	JEITCX100
105 mm	JEITCX105
110 mm	JEITCX110
115 mm	JEITCX115
120 mm	JEITCX120
125 mm	JEITCX125
130 mm	JEITCX130
135 mm	JEITCX135

PILOT PINS

For more information and a full breakdown of pilot pins, please see page 72.

Cutter Diameter Range	Use Pilot Part Number
18-65 mm	JEIPILOT3/8MM
66 mm +	JEIPILOT3/8MM/W



Hint and Tips!

When cutting through thick materials, ensure JEI's 2-part detachable pin is used.



Diameter Range Ø:
18mm - 65mm



Overall Length: 142mm

Cutting Depth: 110mm

Shank Size:
19.05mm - 3/4"

Cutter Dia Ø	Part Number
18 mm	JEITCXL18
19 mm	JEITCXL19
20 mm	JEITCXL20
21 mm	JEITCXL21
22 mm	JEITCXL22
23 mm	JEITCXL23
24 mm	JEITCXL24
25 mm	JEITCXL25
26 mm	JEITCXL26
27 mm	JEITCXL27
28 mm	JEITCXL28
29 mm	JEITCXL29
30 mm	JEITCXL30
31 mm	JEITCXL31
32 mm	JEITCXL32
33 mm	JEITCXL33
34 mm	JEITCXL34
35 mm	JEITCXL35
36 mm	JEITCXL36
37 mm	JEITCXL37
38 mm	JEITCXL38
39 mm	JEITCXL39
40 mm	JEITCXL40
41 mm	JEITCXL41
42 mm	JEITCXL42
43 mm	JEITCXL43
44 mm	JEITCXL44
45 mm	JEITCXL45
46 mm	JEITCXL46
47 mm	JEITCXL47
48 mm	JEITCXL48
49 mm	JEITCXL49
50 mm	JEITCXL50
51 mm	JEITCXL51
52 mm	JEITCXL52
53 mm	JEITCXL53
54 mm	JEITCXL54
55 mm	JEITCXL55
56 mm	JEITCXL56
57 mm	JEITCXL57
58 mm	JEITCXL58
59 mm	JEITCXL59
60 mm	JEITCXL60
61 mm	JEITCXL61
62 mm	JEITCXL62
65 mm	JEITCXL65

Cutting Depth: 110mm



Diameter Range Ø:
66mm - 150mm

Shank Size:
3 1/4"

Overall Length: 152mm

Cutter Dia Ø	Part Number	Cutter Dia Ø	Part Number
66 mm	JEITCXL66	89 mm	JEITCXL89
67 mm	JEITCXL67	90 mm	JEITCXL90
68 mm	JEITCXL68	91 mm	JEITCXL91
69 mm	JEITCXL69	92 mm	JEITCXL92
70 mm	JEITCXL70	93 mm	JEITCXL93
71 mm	JEITCXL71	94 mm	JEITCXL94
72 mm	JEITCXL72	95 mm	JEITCXL95
73 mm	JEITCXL73	96 mm	JEITCXL96
74 mm	JEITCXL74	97 mm	JEITCXL97
75 mm	JEITCXL75	98 mm	JEITCXL98
76 mm	JEITCXL76	99 mm	JEITCXL99
77 mm	JEITCXL77	100 mm	JEITCXL100
78 mm	JEITCXL78	105 mm	JEITCXL105
79 mm	JEITCXL79	110 mm	JEITCXL110
80 mm	JEITCXL80	115 mm	JEITCXL115
81 mm	JEITCXL81	120 mm	JEITCXL120
82 mm	JEITCXL82	125 mm	JEITCXL125
83 mm	JEITCXL83	130 mm	JEITCXL130
84 mm	JEITCXL84	135 mm	JEITCXL135
85 mm	JEITCXL85	140 mm	JEITCXL140
86 mm	JEITCXL86	145 mm	JEITCXL145
87 mm	JEITCXL87	150 mm	JEITCXL150
88 mm	JEITCXL88		

PILOT PINS

For more information and a full breakdown of pilot pins, please see page 72.

Cutter Diameter Range	Use Pilot Part Number
18-65 mm	JEIPILOT4/8MM
66 mm +	JEIPILOT4/ 8MM/W



Hint and Tips!

When using a cutter 66mm diameter and above, the size of the shank increases to 1-1/4" (32mm). Ensure you have the correct adaptor. See JEI's adaptors (Ref: JEIADPT-19/32) to adapt to a 19mm shank.



Diameter Range Ø:
18mm - 65mm



Overall Length: | 92mm

Cutting Depth: | 50mm

Shank Size:
19.05mm - 3/4"

Cutter Dia Ø	Part Number
18 mm	JEITCXXL18
19 mm	JEITCXXL19
20 mm	JEITCXXL20
21 mm	JEITCXXL21
22 mm	JEITCXXL22
23 mm	JEITCXXL23
24 mm	JEITCXXL24
25 mm	JEITCXXL25
26 mm	JEITCXXL26
27 mm	JEITCXXL27
28 mm	JEITCXXL28
29 mm	JEITCXXL29
30 mm	JEITCXXL30
31 mm	JEITCXXL31
32 mm	JEITCXXL32
33 mm	JEITCXXL33
34 mm	JEITCXXL34
35 mm	JEITCXXL35
36 mm	JEITCXXL36
37 mm	JEITCXXL37
38 mm	JEITCXXL38
39 mm	JEITCXXL39
40 mm	JEITCXXL40
41 mm	JEITCXXL41
42 mm	JEITCXXL42
43 mm	JEITCXXL43
44 mm	JEITCXXL44
45 mm	JEITCXXL45
46 mm	JEITCXXL46
47 mm	JEITCXXL47
48 mm	JEITCXXL48
49 mm	JEITCXXL49
50 mm	JEITCXXL50
51 mm	JEITCXXL51
52 mm	JEITCXXL52
53 mm	JEITCXXL53
54 mm	JEITCXXL54
55 mm	JEITCXXL55
56 mm	JEITCXXL56
57 mm	JEITCXXL57
58 mm	JEITCXXL58
59 mm	JEITCXXL59
60 mm	JEITCXXL60
61 mm	JEITCXXL61
62 mm	JEITCXXL62
63 mm	JEITCXXL63
64 mm	JEITCXXL64
65 mm	JEITCXXL65



Diameter Range Ø:
66mm - 99mm

Cutting Depth: 150mm

Shank Size:
31.75mm - 1-1/4"

Overall Length: 212mm

Cutter Dia Ø	Part Number	Cutter Dia Ø	Part Number
66 mm	JEITCXXL66	89 mm	JEITCXXL89
67 mm	JEITCXXL67	90 mm	JEITCXXL90
68 mm	JEITCXXL68	91 mm	JEITCXXL91
69 mm	JEITCXXL69	92 mm	JEITCXXL92
70 mm	JEITCXXL70	93 mm	JEITCXXL93
71 mm	JEITCXXL71	94 mm	JEITCXXL94
72 mm	JEITCXXL72	95 mm	JEITCXXL95
73 mm	JEITCXXL73	96 mm	JEITCXXL96
74 mm	JEITCXXL74	97 mm	JEITCXXL97
75 mm	JEITCXXL75	98 mm	JEITCXXL98
76 mm	JEITCXXL76	99 mm	JEITCXXL99
77 mm	JEITCXXL77	100 mm	JEITCXXL100
78 mm	JEITCXXL78		
79 mm	JEITCXXL79		
80 mm	JEITCXXL80		
81 mm	JEITCXXL81		
82 mm	JEITCXXL82		
83 mm	JEITCXXL83		
84 mm	JEITCXXL84		
85 mm	JEITCXXL85		
86 mm	JEITCXXL86		
87 mm	JEITCXXL87		
88 mm	JEITCXXL88		

PILOT PINS

For more information and a full breakdown of pilot pins, please see page 72.

Cutter Diameter Range	Use Pilot Part Number
18-65 mm	JEIPILOT6/8MM
66 mm +	JEIPILOT6/8MM/W



Hint and Tips!

Ensure that your magnetic drilling machine has sufficient cutting stroke when using longer length cutters (refer to JEIUK.com to find the right machine for your application).



Diameter Range Ø:
22mm - 50mm



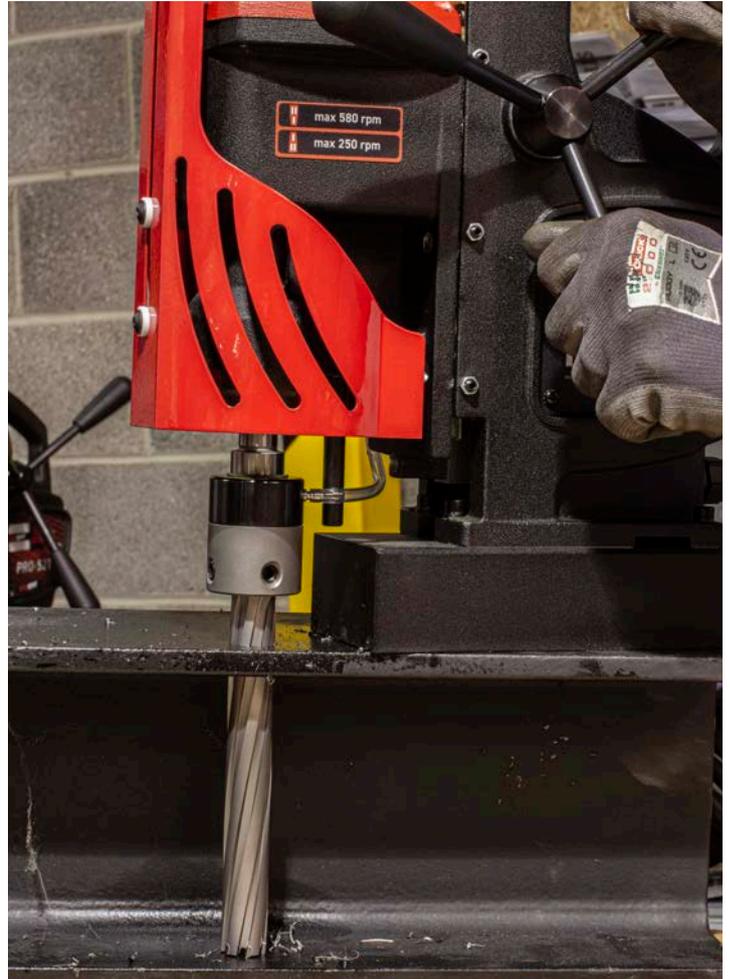
Overall Length: 236mm

Shank Size:
19.05mm - 3/4"

Cutting Depth: 200mm

Cutter Dia Ø	Part Number
22 mm	JEITCXXXL22
23 mm	JEITCXXXL23
24 mm	JEITCXXXL24
25 mm	JEITCXXXL25
26 mm	JEITCXXXL26
27 mm	JEITCXXXL27
28 mm	JEITCXXXL28
29 mm	JEITCXXXL29
30 mm	JEITCXXXL30
31 mm	JEITCXXXL31
32 mm	JEITCXXXL32
33 mm	JEITCXXXL33
34 mm	JEITCXXXL34
35 mm	JEITCXXXL35
36 mm	JEITCXXXL36
37 mm	JEITCXXXL37
38 mm	JEITCXXXL38
39 mm	JEITCXXXL39
40 mm	JEITCXXXL40
41 mm	JEITCXXXL41
42 mm	JEITCXXXL42
43 mm	JEITCXXXL43
44 mm	JEITCXXXL44
45 mm	JEITCXXXL45
46 mm	JEITCXXXL46
47 mm	JEITCXXXL47
48 mm	JEITCXXXL48
49 mm	JEITCXXXL49
50 mm	JEITCXXXL50

**MORE SIZES AVAILABLE
ON REQUEST
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The 200mm TCT cutting length is perfect for reaching places you wouldn't be able to with a smaller cutter in a magdrill.

PILOT PINS

For more information and a full breakdown of pilot pins, please see page 72.

Cutter Diameter Range	Use Pilot Part Number
18-65 mm	JEIPILOT8/ 8MM



Hint and Tips!

Whenever possible, please create the first hole with a shorter cutter and use the extra long TCT cutter for the second operation.

turbo™ TOUGH TCT IMPERIAL SIZES



Diameter	Metric Equivalent	1-3/8" DOC	2" DOC	3" DOC	4" DOC	6" DOC
1/2"	12.7MM	TCS5000	TCL500	**	**	**
9/16"	14.28MM	TCS5625	TCL562	**	**	**
5/8"	15.87MM	TCS6250	TCL625	**	**	**
11/16"	17.46MM	TCS6875	TCL687	**	**	**
3/4"	19.05MM	TCS7500	TCL750	TCX750	TCXL750	**
13/16"	20.63MM	TCS8125	TCL812	TCX812	TCXL812	TCXXL812
7/8"	22.22MM	TCS8750	TCL875	TCX875	TCXL875	TCXXL875
15/16"	23.81MM	TCS9375	TCL937	TCX937	TCXL937	TCXXL937
1"	25.4MM	TCS1000	TCL100	TCX100	TCXL100	TCXXL100
1-1/16"	26.98MM	TCS1062	TCL106	TCX106	TCXL106	TCXXL106
1-1/8"	28.57MM	TCS1125	TCL112	TCX112	TCXL112	TCXXL112
1-3/16"	30.16MM	TCS1187	TCL118	TCX118	TCXL118	TCXXL118
1-1/4"	31.75MM	TCS1250	TCL125	TCX125	TCXL125	TCXXL125
1-5/16"	33.33MM	TCS1312	TCL131	TCX131	TCXL131	TCXXL131
1-3/8"	34.92MM	TCS1375	TCL137	TCX137	TCXL137	TCXXL137
1-7/16"	36.51MM	TCS1437	TCL143	TCX143	TCXL143	TCXXL143
1-1/2"	38.10MM	TCS1500	TCL150	TCX150	TCXL150	TCXXL150
1-9/16"	39.68MM	TCS1562	TCL156	TCX156	TCXL156	TCXXL156
1-5/8"	41.27MM	TCS1625	TCL162	TCX162	TCXL162	TCXXL162
1-11/16"	42.86MM	TCS1687	TCL168	TCX168	TCXL168	TCXXL168
1-3/4"	44.45MM	TCS1750	TCL175	TCX175	TCXL175	TCXXL175
1-13/16"	46.03MM	TCS1812	TCL181	TCX181	TCXL181	TCXXL181
1-7/8"	47.62MM	TCS1875	TCL187	TCX187	TCXL187	TCXXL187
1-15/16"	49.21MM	TCS1937	TCL193	TCX193	TCXL193	TCXXL193
2"	50.80MM	TCS2000	TCL200	TCX200	TCXL200	TCXXL200
2-1/16"	52.38MM	TCS2062	TCL206	TCX206	TCXL206	TCXXL206
2-1/8"	53.97MM	TCS2125	TCL212	TCX212	TCXL212	TCXXL212
2-3/16"	55.56MM	TCS2187	TCL218	TCX218	TCXL218	TCXXL218
2-1/4"	57.15MM	TCS2250	TCL225	TCX225	TCXL225	TCXXL225
2-5/16"	58.73MM	TCS2312	TCL231	TCX231	TCXL231	TCXXL231
2-3/8"	60.32MM	TCS2375	TCL237	TCX237	TCXL237	TCXXL237
2-7/16"	61.91MM	**	TCL256	TCX256	TCXL256	TCXXL256
2-1/2"	63.50MM	**	TCL250	TCX250	TCXL250	TCXXL250
2-9/16"	65.08MM	**	TCL256	TCX256	TCXL256	TCXXL256
2-5/8"	66.68MM	**	TCL262	TCX262	TCXL262	TCXXL262
2-11/16"	68.26MM	**	TCL268	TCX268	TCXL268	TCXXL268
2-3/4"	69.85MM	**	TCL275	TCX275	TCXL275	TCXXL275
2-13/16"	77.01MM	**	TCL281	TCX281	TCXL281	TCXXL281
2-7/8"	73.03MM	**	TCL287	TCX287	TCXL287	TCXXL287
2-15/16"	74.61MM	**	TCL293	TCX293	TCXL293	TCXXL293
3"	76.2MM	**	TCL300	TCX300	TCXL300	TCXXL300
3-1/4"	82.55MM	**	TCL325	TCX325	**	**
3-1/2"	88.90MM	**	TCL350	TCX350	**	**
3-3/4"	95.25MM	**	TCL375	TCX375	**	**
4"	101.60MM	**	TCL400	TCX400	**	**

Pilot Pins



Diameter	Use Pilot Part No					
1/2" - 11/16"	JEIPILOT1/TCTS	JEIPILOT2	**	**	**	**
3/4" - 2-1/2"	JEIPILOT1/8MM	JEIPILOT2/8MM	JEIPILOT3/8MM	JEIPILOT4/8MM	JEIPILOT6/8MM	JEIPILOT8/8MM
2-1/2" +	JEIPILOT1/8MM/W	JEIPILOT2/8MM/W	JEIPILOT3/8MM/W	JEIPILOT4/8MM/W	JEIPILOT6/8MM/W	**



turbo™ ENDURANCE+ SUPER TOUGH COATED TCT CUTTER

**DESIGNED FOR THE WORLDS TOUGHEST
AND MOST CHALLENGING MATERIALS**

The super tough coating provides increased surface hardness, a friction free cutting face and better heat transfer at the surface. These great benefits allow the Turbo™ Endurance+ cutter to tackle Hardox, Weldox, Abro, Armoured Plate and Duplex with ease.

- ✓ Cuts through the most challenging of materials.
- ✓ Greater protection from heat build and surface softening.
- ✓ Unrivalled performance – less production down time.
- ✓ Ability to drill dry when required.
- ✓ Low cost per hole ratio.



Size Range:
12 mm – 200 mmØ



Cutting Depths:
40 mm, 55 mm



Cutter Type:
Super Tough
Coated TCT
Cutter



**Max. Tensile
Strength:**
<1600RM (N/ mm²)



Perfect for:
Hardox, Weldox,
Armoured Plate, Super
Duplex, Aircraft Steels,
Abro Plate



Heavy Plant



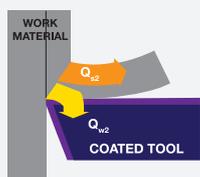
Mining



THE FEATURES AND BENEFITS OF THE TURBO™ ENDURANCE+

Why the Turbo™ Endurance+ Cutters?

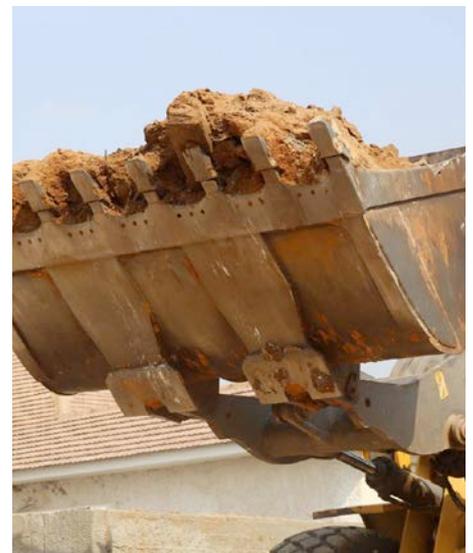
The super tough coating provides increased surface hardness, a friction-free cutting face and better heat transfer at the surface. These great benefits allow the Turbo™ Endurance+ cutter to tackle Hardox, Weldox, Abro, Armoured Plate and Duplex with ease.



HEAT FLOW, CHIP $Q_{c2} > Q_{c1}$
HEAT FLOW, TOOL $Q_{w2} > Q_{w1}$

TURBO™ ENDURANCE+ CUTTING EDGE COATING TECHNOLOGY

Increased heat flow into the chips protects the cutting edge of the tool.



Diameter Range Ø:
12mm - 65mm



Shank Size:
19.05mm - 3/4"

12mm - 65mm Ø



← 19 mm shank →
Universal shank
suits standard and
Nitto machines

**MORE SIZES
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Cutter Dia Ø	Part Number
12 mm	JEIETCS12
13 mm	JEIETCS13
14 mm	JEIETCS14
15 mm	JEIETCS15
16 mm	JEIETCS16
17 mm	JEIETCS17
18 mm	JEIETCS18
19 mm	JEIETCS19
20 mm	JEIETCS20
21 mm	JEIETCS21
22 mm	JEIETCS22
23 mm	JEIETCS23
24 mm	JEIETCS24
25 mm	JEIETCS25
26 mm	JEIETCS26
27 mm	JEIETCS27
28 mm	JEIETCS28
29 mm	JEIETCS29
30 mm	JEIETCS30
31 mm	JEIETCS31
32 mm	JEIETCS32
33 mm	JEIETCS33
34 mm	JEIETCS34
35 mm	JEIETCS35
36 mm	JEIETCS36
37 mm	JEIETCS37
38 mm	JEIETCS38
39 mm	JEIETCS39
40 mm	JEIETCS40
41 mm	JEIETCS41
42 mm	JEIETCS42
43 mm	JEIETCS43
44 mm	JEIETCS44
45 mm	JEIETCS45
46 mm	JEIETCS46
47 mm	JEIETCS47
48 mm	JEIETCS48
49 mm	JEIETCS49
50 mm	JEIETCS50
51 mm	JEIETCS51
52 mm	JEIETCS52
53 mm	JEIETCS53
54 mm	JEIETCS54
55 mm	JEIETCS55

Diameter Range Ø:
12mm - 65mm



Shank Size:
19.05mm - 3/4"

12mm - 65mm Ø



← 19 mm shank →
Universal shank
suits standard and
Nitto machines

**MORE SIZES
AVAILABLE
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Cutter Dia Ø	Part Number
12 mm	JEIETCL12
13 mm	JEIETCL13
14 mm	JEIETCL14
15 mm	JEIETCL15
16 mm	JEIETCL16
17 mm	JEIETCL17
18 mm	JEIETCL18
19 mm	JEIETCL19
20 mm	JEIETCL20
21 mm	JEIETCL21
22 mm	JEIETCL22
23 mm	JEIETCL23
24 mm	JEIETCL24
25 mm	JEIETCL25
26 mm	JEIETCL26
27 mm	JEIETCL27
28 mm	JEIETCL28
29 mm	JEIETCL29
30 mm	JEIETCL30
31 mm	JEIETCL31
32 mm	JEIETCL32
33 mm	JEIETCL33
34 mm	JEIETCL34
35 mm	JEIETCL35
36 mm	JEIETCL36
37 mm	JEIETCL37
38 mm	JEIETCL38
39 mm	JEIETCL39
40 mm	JEIETCL40
41 mm	JEIETCL41
42 mm	JEIETCL42
43 mm	JEIETCL43
44 mm	JEIETCL44
45 mm	JEIETCL45
46 mm	JEIETCL46
47 mm	JEIETCL47
48 mm	JEIETCL48
49 mm	JEIETCL49
50 mm	JEIETCL50
51 mm	JEIETCL51
52 mm	JEIETCL52
53 mm	JEIETCL53
54 mm	JEIETCL54
55 mm	JEIETCL55

More sizes available at 3", 4", 6" and 8"

THE PERFECT EMERGENCY BACK UP WITH UNRIVALLED PERFORMANCE.

When essential drilling is required, don't risk with anything less.



Hint and Tips!

This operation should be carried out with a powerful magnetic drilling machine only, by a skilled operator. For best results, take care with applying too much force and select a slow speed.



40MM D.O.C 5 PIECE CUTTER SET

Super Tough TCT coated cutter sets. Including 1 of each 14, 16, 18, 20 and 22mm x 40mm cutting depth. 2 pilot pins to suit.

Part Number - JEIETCS-SET5



55MM D.O.C 5 PIECE CUTTER SET

Super Tough TCT coated cutter sets. Including 1 of each 14, 16, 18, 20 and 22mm x 55mm cutting depth. 2 pilot pins to suit.

Part Number - JEIETCL-SET5

Have any questions? Feel free to get in touch or contact your local distributor.

JEI Solutions



turbo™ RAIL TURBO™ RAIL (M2AL HSS)

SPECIFICALLY MANUFACTURED FOR CUTTING RAIL TRACK EFFICIENTLY AND QUICKLY

Maximum Railtrack hardness HRC37

The Turbo™ M2AL Rail cutter has unique design features ensuring the cutter will last longer, cut faster and give a better and more precisely finished hole. Manufactured from high-quality M2AL material, it provides an increased hardness to produce holes in many rail materials and features a specifically developed cutting geometry to enhance performance.

- ✓ **Designed for cutting holes in all types of Rail Track.**
- ✓ **Specially manufactured using high quality M2AL Material, providing an increased hardness in comparison to Regular HSS Cutters, resulting in more holes per tool.**
- ✓ **Unique proven cutting edge profile means less power is required, a vibration-free cut and increased cutting efficiency.**



Size Range:
14mm – 36mm Ø



Cutting Depths:
1" & 2"



Cutter Type:
M2-AL (HSS)



Max. Tensile Strength:
<900RM (N/ mm²)



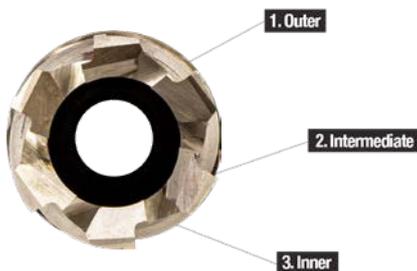
Perfect for:
Rail track



FEATURING TRIPLE TOOTH CUTTING GEOMETRY

Each tooth provides a different cutting function, providing great results.

- ✓ Reduced cutting resistance = less power required
- ✓ Even tooth load = vibration free cut
- ✓ Smooth cutting action = increased cutting efficiency



Diameter Range Ø:
14mm – 36mm



Shank Size:
19.05mm – 3/4"

Cutting Depth: 25mm (1")

Cutter Dia Ø	Part Number
14 mm	JEIRCSH14
18 mm	JEIRCSH18
19 mm	JEIRCSH19
20 mm	JEIRCSH20
21 mm	JEIRCSH21
22 mm	JEIRCSH22
23 mm	JEIRCSH23
24 mm	JEIRCSH24
25 mm	JEIRCSH25
26 mm	JEIRCSH26
27 mm	JEIRCSH27
28 mm	JEIRCSH28
29 mm	JEIRCSH29
30 mm	JEIRCSH30

Cutter Dia Ø	Part Number
31 mm	JEIRCSH31
32 mm	JEIRCSH32
33 mm	JEIRCSH33
34 mm	JEIRCSH34
35 mm	JEIRCSH35
36 mm	JEIRCSH36

Cutter Dia Range	Use Pilot Part Number
14-36mm	JEIPILOT1



turbo™ RAIL Railway Maintenance

TURBO™ RAIL TCT

Specifically manufactured for cutting rail track efficiently and quickly.

- ✓ Reduced cutting resistance, meaning less power required.
- ✓ Even tooth load for a vibration-free cut.
- ✓ Smoothing cutting action for increased cutting efficiency.

The Turbo™ Rail Cutter has unique design features ensuring the cutter will last longer, cut faster and give a better and more precisely finished hole.



Size Range:
14mm - 36mm Ø



Cutting Depths:
1"



Cutter Type:
TCT Rail
(uncoated)



Max. Tensile Strength:
<1200RM (N/ mm²)



Perfect for:
Rail track



ALSO AVAILABLE WITH TWIST/QUICK LOCK SHANK

Ask your JEI distributor for more details.



Diameter Range Ø:
14mm - 36mm



Cutting Depth: 25mm (1")

Shank Size:
1905mm - 3/4"



Cutter Dia Ø	Part Number
14 mm	JEIRCS14
18 mm	JEIRCS18
19 mm	JEIRCS19
20 mm	JEIRCS20
21 mm	JEIRCS21
22 mm	JEIRCS22
23 mm	JEIRCS23
24 mm	JEIRCS24
25 mm	JEIRCS25
26 mm	JEIRCS26
27 mm	JEIRCS27
28 mm	JEIRCS28
29 mm	JEIRCS29
30 mm	JEIRCS30
31 mm	JEIRCS31
32 mm	JEIRCS32
33 mm	JEIRCS33
34 mm	JEIRCS34
35 mm	JEIRCS35
36 mm	JEIRCS36

Cutter Dia Range	Use Pilot Part Number
14 mm +	JEIPILOT1

turbo™ RAIL+ Railway Maintenance

TURBO™ RAIL TCT SUPER TOUGH

Using the latest ENDURANCE coating technology this rail cutter provides unrivalled tool life.

- ✓ Cuts through the most challenging of materials.
- ✓ Greater protection from heat build and surface softening.
- ✓ Unrivalled performance.
- ✓ Less tool changes means less down time.
- ✓ Low cost per hole ratio.

With increased surface hardness, Turbo™ Rail+ can tackle the world's toughest rail material. During performance tests with Balfour Beatty Rail, Turbo™ Rail+ consistently tripled the tool life of a competitor's uncoated rail cutter.



Size Range:
14mm - 36mm Ø



Cutting Depths:
1"



Cutter Type:
TCT Super Tough
Rail Cutter
(coated)



Max. Tensile Strength:
<1600RM (N/ mm²)



Perfect for:
All types of
rail track

Diameter Range Ø:
14mm - 36mm



Cutting Depth: 25mm (1")

Shank Size:
1905mm - 3/4"



Cutter Dia Ø	Part Number
14 mm	JEIRCSE14
18 mm	JEIRCSE18
19 mm	JEIRCSE19
20 mm	JEIRCSE20
21 mm	JEIRCSE21
22 mm	JEIRCSE22
23 mm	JEIRCSE23
24 mm	JEIRCSE24
25 mm	JEIRCSE25
26 mm	JEIRCSE26
27 mm	JEIRCSE27
28 mm	JEIRCSE28
29 mm	JEIRCSE29
30 mm	JEIRCSE30
31 mm	JEIRCSE31
32 mm	JEIRCSE32
33 mm	JEIRCSE33
34 mm	JEIRCSE34
35 mm	JEIRCSE35
36 mm	JEIRCSE36

Cutter Dia Range	Use Pilot Part Number
14 mm +	JEIPILOT1



turbo™ CUTTER SETS

BROACHING CUTTER SETS

Explore even more of the premium TCT and HSS cutter range and save money with our flexible cutter sets at JEI. Choose from our off-the-shelf cutter sets or create your own by getting in touch with our team today.



turbo™ STEEL CUTTER SETS

HSS cutter sets ideal for use on most mild, aluminium and structural steels.



3 PIECE CUTTER FABRICATOR STARTER KIT

Designed for the steel fabricator, for use with Magnetic Drilling Machines.

Includes 1 of each 14, 18 and 22mm Short Series Turbo™ Steel HSS Cutters plus 1 pilot pin to suit, supplied in a handy round plastic case.



5 PIECE HSS CUTTER SET (25 MM D.O.C)

Includes 1 of each, 14, 16, 18, 20, and 22mm, 1" depth turbo steel HSS cutters plus pilot pin to suit, in handy plastic case.



11 PIECE HSS CUTTER SET (25 MM D.O.C)

Includes 1 of each, 12, 13, 14, 15, 16, 18, 20, 22, 24, 25 and 26mm, 1" depth turbo steel HSS cutters plus pilot pin to suit, in handy plastic case.



5 PIECE HSS CUTTER SET (50 MM D.O.C)

Includes 1 of each, 14, 16, 18, 20, and 22mm, 2" depth turbo steel HSS cutters plus pilot pin to suit, in handy plastic case.



11 PIECE HSS CUTTER SET (50 MM D.O.C)

Includes 1 of each, 12, 13, 14, 15, 16, 18, 20, 22, 24, 25 and 26mm, 2" depth turbo steel HSS cutters plus pilot pin to suit, in handy plastic case.



CUTTING TOOL 11 PIECE DEMO KIT

Featuring a selection of JEI's Popular cutting tools for hole making solutions in steel. An ideal solution for demonstrator use and as a valuable addition to the steel fabricators tool box.

turbo™ ENDURANCE CUTTER SETS

HSS coated cutter sets, ideal for use on most mild, aluminium and structural steel with extended tool life.



5 PIECE CUTTER SET (25 MM D.O.C)

Includes 1 of each, 14, 16, 18, 20, and 22mm depth turbo steel HSS Endurance coated cutters plus pilot pin to suit, in handy plastic case.



5 PIECE CUTTER SET (50 MM D.O.C)

Includes 1 of each, 14, 16, 18, 20, and 22mm, 2" depth turbo steel HSS Endurance coated cutters plus pilot pin to suit, in handy plastic case.

turbo™ TOUGH CUTTER SETS

TCT cutter sets. Ideal for use on most mild, structural, stainless steels and cast iron



3 PIECE CUTTER FABRICATOR STARTER KIT

Designed for the steel fabricator, for use with Magnetic Drilling Machines.

Includes 1 of each 14, 18 and 22mm Short Series Turbo™ Tough TCT Cutters plus 2 pilot pins to suit, supplied in a handy round plastic case.



5 PIECE TCT CUTTER SET (40 MM D.O.C)

Includes 1 of each, 14, 16, 18, 20, and 22mm, 40mm depth turbo tough TCT cutters plus pilot pins to suit, in handy plastic case.



11 PIECE TCT CUTTER SET (40 MM D.O.C)

Includes 1 of each, 12, 13, 14, 15, 16, 18, 20, 22, 24, 25 and 26mm, 40mm depth turbo tough TCT cutters plus pilot pins to suit, in handy plastic case.



5 PIECE TCT CUTTER SET (55 MM D.O.C)

Includes 1 of each, 14, 16, 18, 20, and 22mm, 55mm depth turbo tough TCT cutters plus pilot pins to suit, in handy plastic case.



11 PIECE TCT CUTTER SET (55 MM D.O.C)

Includes 1 of each, 12, 13, 14, 15, 16, 18, 20, 22, 24, 25 and 26mm, 55mm depth turbo tough TCT cutters plus pilot pins to suit, in handy plastic case.

turbo™ ENDURANCE+ CUTTER SETS

Super tough coated TCT cutter sets, ideal for use on hardox, weldox, armoured plate, super duplex, aircraft steels and abro plate.



5 PIECE CUTTER SET (40 MM D.O.C)

Includes 1 of each, 14, 16, 18, 20, and 22mm, 40mm depth turbo endurance plus TCT cutters plus pilot pins to suit, in handy plastic case.



5 PIECE CUTTER SET (55 MM D.O.C)

Includes 1 of each, 14, 16, 18, 20, and 22mm, 55mm depth turbo endurance plus TCT cutters plus pilot pins to suit, in handy plastic case.

turbo™ PILOT PINS

OUR RANGE OF PILOT PINS ARE FULLY CNC GROUND TO ENSURE CORRECT SITTING TO THE CUTTER AND MAXIMUM DEFERRAL OF BREAKAGE

The pilot pin or centre pin as it is also known, is used for ejecting the slug from the centre of the cutter on completion of the hole. The pilot pin is also used as the central focal point when positioning the drill on the pre marked steel.

- ✓ Centralises the position of the hole on the pre-marked steel.
- ✓ Ejects the solid slug of steel on completion of the hole.
- ✓ Lubricates the cutter internally by acting as a flow tap for the coolant as it retracts into the spring loaded machine arbor, increasing tool life and ensuring slug ejection.



PILOT PINS PLAY A VITAL ROLE IN POSITIONING AND EXTENDING TOOL LIFE



- 1. Centralises** the position of the hole on the pre-marked steel.
- 2. Lubricates** the cutter internally by acting as a flow tap for the coolant as it retracts into the spring loaded machine arbor, increasing tool life and ensuring slug ejection.
- 3. Ejects** the solid slug of steel on completion of the hole.

Part Number	Overall Length (mm)	Diameter Ø	Use with JEI Cutters (If applicable)
JEIPIN1213S	77	4.74	JEIPIN1213S – 4.74mm Pilot pin 1" DOC
JEIPILOT1	77	6.35	Turbo Steel 1" D.O.C. 12 mm–65 Ø
JEIPILOT1/TCTS	90	6.35	Turbo Tough 35 mm D.O.C. < 18 mm Ø
JEIPILOT1/8MM	90	7.98	Turbo Tough 35 mm D.O.C. 18 mm–65 mm Ø
JEIPILOT1/8MM/W	108	7.98	Turbo Steel 1" D.O.C. > 65 mm Ø + Turbo Tough 35 mm D.O.C. > 65 mm Ø +
JEIPIN1213L	103	4.74	JEIPIN1213L – 4.74mm Pilot pin 2" DOC
JEIPILOT2	103	6.35	Turbo Steel 2" D.O.C. < 65 mm Ø Turbo Tough 55 mm D.O.C. < 18 mm Ø
JEIPILOT2/8MM	108	7.98	Turbo Tough 55 mm D.O.C. 18 mm–65 mm Ø
JEIPILOT2/8MM/W	130	7.98	Turbo Tough 55 mm D.O.C. > 65 mm Ø
JEIPILOT3	130	6.35	Turbo Steel 75 mm D.O.C. < 66 mm Ø
JEIPILOT3/8MM	130	7.98	Turbo Tough 80 mm D.O.C. < 66 mm Ø
JEIPILOT3/8MM/W	155	6.35	Turbo Tough 80mm D.O.C. > 66 mm
JEIPILOT4	155	6.35	Turbo Steel 4" D.O.C. < 66 mm Ø
JEIPILOT4/8MM	160	7.98	Turbo Tough 110 mm D.O.C. < 66 mm Ø
JEIPILOT4/8MM/W	205	7.98	Turbo Tough 110 mm D.O.C. > 66 mm Ø
JEIPILOT6	205	6.35	Turbo Steel 6" D.O.C. < 66 mm Ø
JEIPILOT6/8MM	205	7.98	Turbo Tough 150 mm D.O.C. < 66 mm Ø
JEIPILOT8/8MM	255	7.98	Turbo Tough 200 mm D.O.C. < 66 mm Ø



DETACHABLE PILOT PINS

When cutting through a solid plate with a thickness of more than 50 mm, the standard pilot pin will not retract further into the machine arbor. At this stage, the pilot pin is normally removed and replaced with a shorter version to complete the hole operation, or the operator will simply not use a centre pin for the hole, an option which will almost definitely result in cutter breakage.

JEI's solution is the 2-part detachable pilot pin which will allow cutting of solid steel up to 150 mm (6") thick without completely having to remove the pin during operation.

Part Number	Overall Length (mm)	Diameter Ø	Use with JEI Cutters (If applicable)
JEIPILOT3/8MMD	130 / 80	7.98	Turbo Tough 80mm D.O.C 20mm–66mm Ø
JEIPILOT4/8MMD	157 / 107	7.98	Turbo Tough 100mm D.O.C 20mm–66mm Ø
JEIPILOT6/8MMD	221.5 / 174	7.98	Turbo Tough 150mm D.O.C 20mm–66mm Ø



Step 1

Fit the 2-part pin into the cutter and begin the cut.

Step 2

Cut to the maximum depth until the cutter can't continue further.

Step 3

Important - Turn off machine ensure cutter is not turning

Retract the machine arbor and remove the end of the pilot pin.

Step 2

Continue the cutting process and the slug will be ejected at the end of the cut.



turbo™ TOUGH TCT HOLE SAWS

10X MORE LIFE THAN BI-METAL HOLESAWS

Manufactured with premium grade solid carbide tips for added strength and durability. More hard wearing and longer lasting than HSS hole saws. Designed for use in a chuck – can be used with a magnetic drilling machine or a hand drill. Features a spring loaded centre pilot drill, to locate the hole and eject the core of material after the cut.

- ✓ **Manufactured with premium grade solid carbide tips for added strength and durability.**
- ✓ **Features a spring loaded centre pilot drill, to locate the hole and eject the core of material after the cut.**
- ✓ **Designed for use in a chuck – can be used with a magnetic drilling machine or a hand drill.**
- ✓ **Available in sizes to suit PG type cable glands, making them ideal for electrical installations.**
- ✓ **More hard wearing and longer lasting than HSS hole saws.**



Size Range:
14mm - 150mm Ø



Perfect For:
Structural steel,
stainless steel, plastics,
brass and copper



Cutting Depths:
5mm, 25mm
and 50mm



Max. Tensile Strength:
<1400 (N/ mm²)



Steel Fabrication



Vehicle Manufacturing
& Maintenance Shops



Plumbing & Heating Engineers



Electrical Engineers



Turbo™ Tough Hole Saws

THE FEATURES AND BENEFITS OF JEI'S TCT HOLE SAWS

-  **Centre Pilot Drill**
To guide the tool into position, reducing slippage.
-  **Ejector Spring**
To provide positive slug ejection.
-  **Hard Wearing Tungsten Carbide Teeth**
Premium grade and brazing for strength and longevity.
-  **Safety Collar**
Stops the tool from over penetrating the material preventing breakage.



Diameter Range Ø:
14mm - 62mm



Cutting Depth: 5mm

**MORE SIZES
AVAILABLE
ON REQUEST**
**VISIT
JEIUK.COM**



Cutter Dia Ø	Part Number
14 mm	JEIHXS-14
15 mm	JEIHXS-15
16 mm	JEIHXS-16
17 mm	JEIHXS-17
18 mm	JEIHXS-18
19 mm	JEIHXS-19
20 mm	JEIHXS-20
21 mm	JEIHXS-21
22 mm	JEIHXS-22
23 mm	JEIHXS-23
24 mm	JEIHXS-24
25 mm	JEIHXS-25
26 mm	JEIHXS-26
27 mm	JEIHXS-27
28 mm	JEIHXS-28
29 mm	JEIHXS-29
30 mm	JEIHXS-30
31 mm	JEIHXS-31
32 mm	JEIHXS-32
33 mm	JEIHXS-33
34 mm	JEIHXS-34
35 mm	JEIHXS-35
36 mm	JEIHXS-36
37 mm	JEIHXS-37
38 mm	JEIHXS-38
39 mm	JEIHXS-39
40 mm	JEIHXS-40
41 mm	JEIHXS-41
42 mm	JEIHXS-42
43 mm	JEIHXS-43
44 mm	JEIHXS-44
45 mm	JEIHXS-45
46 mm	JEIHXS-46
47 mm	JEIHXS-47
48 mm	JEIHXS-48
49 mm	JEIHXS-49
50 mm	JEIHXS-50
51 mm	JEIHXS-51
52 mm	JEIHXS-52
53 mm	JEIHXS-53
54 mm	JEIHXS-54
55 mm	JEIHXS-55
56 mm	JEIHXS-56
57 mm	JEIHXS-57
58 mm	JEIHXS-58
59 mm	JEIHXS-59
60 mm	JEIHXS-60
61 mm	JEIHXS-61
62 mm	JEIHXS-62



Cutter Dia Ø	Part Number
63 mm	JEIHXS-63
64 mm	JEIHXS-64
65 mm	JEIHXS-65
66 mm	JEIHXS-66
67 mm	JEIHXS-67
68 mm	JEIHXS-68
69 mm	JEIHXS-69
70 mm	JEIHXS-70
71 mm	JEIHXS-71
72 mm	JEIHXS-72
73 mm	JEIHXS-73
74 mm	JEIHXS-74
75 mm	JEIHXS-75
76 mm	JEIHXS-76
77 mm	JEIHXS-77
78 mm	JEIHXS-78
79 mm	JEIHXS-79
80 mm	JEIHXS-80
81 mm	JEIHXS-81
82 mm	JEIHXS-82
83 mm	JEIHXS-83
84 mm	JEIHXS-84
85 mm	JEIHXS-85
86 mm	JEIHXS-86
87 mm	JEIHXS-87
88 mm	JEIHXS-88
89 mm	JEIHXS-89
90 mm	JEIHXS-90
91 mm	JEIHXS-91
92 mm	JEIHXS-92
93 mm	JEIHXS-93
94 mm	JEIHXS-94
95 mm	JEIHXS-95
96 mm	JEIHXS-96
97 mm	JEIHXS-97
98 mm	JEIHXS-98
99 mm	JEIHXS-99
100 mm	JEIHXS-100
105 mm	JEIHXS-105
110 mm	JEIHXS-110
115 mm	JEIHXS-115
120 mm	JEIHXS-120
125 mm	JEIHXS-125
130 mm	JEIHXS-130
135 mm	JEIHXS-135
140 mm	JEIHXS-140
145 mm	JEIHXS-145
150 mm	JEIHXS-150

NEW FOR 2023 ⚡

Now available in PG Sizes making them perfect for electrical installations.

Cutter size Ø	JEI Part no. (5mm DOC)	Type
15.20	JEIHXS-15.2	PG 9
18.60	JEIHXS-18.6	PG 11
20.40	JEIHXS-20.4	PG 13.5
22.50	JEIHXS-22.5	PG 16
28.30	JEIHXS-28.3	PG 21



6 PIECE TCT HOLE SAW SET

Part Number - JEIHXS-SET6

Including 14, 16, 18, 20, 22 and 25mm x 5mm hole saws. Pilot pins to suit.



SPARE CENTRE SPRING & DRILL

Part Number - JEIHXS-PILOT

Replacement Pilot Drill & Spring Assembly



Diameter Range Ø:
14mm - 150mm



Cutting Depth: 25mm

**MORE SIZES
AVAILABLE
ON REQUEST
VISIT
JEIUK.COM**



Cutter Dia Ø	Part Number
14 mm	JEIHS-14
15 mm	JEIHS-15
16 mm	JEIHS-16
17 mm	JEIHS-17
18 mm	JEIHS-18
19 mm	JEIHS-19
20 mm	JEIHS-20
21 mm	JEIHS-21
22 mm	JEIHS-22
23 mm	JEIHS-23
24 mm	JEIHS-24
25 mm	JEIHS-25
26 mm	JEIHS-26
27 mm	JEIHS-27
28 mm	JEIHS-28
29 mm	JEIHS-29
30 mm	JEIHS-30
31 mm	JEIHS-31
32 mm	JEIHS-32
33 mm	JEIHS-33
34 mm	JEIHS-34
35 mm	JEIHS-35
36 mm	JEIHS-36
37 mm	JEIHS-37
38 mm	JEIHS-38
39 mm	JEIHS-39
40 mm	JEIHS-40
41 mm	JEIHS-41
42 mm	JEIHS-42
43 mm	JEIHS-43
44 mm	JEIHS-44
45 mm	JEIHS-45
46 mm	JEIHS-46
47 mm	JEIHS-47
48 mm	JEIHS-48
49 mm	JEIHS-49
50 mm	JEIHS-50
51 mm	JEIHS-51
52 mm	JEIHS-52
53 mm	JEIHS-53
54 mm	JEIHS-54
55 mm	JEIHS-55
56 mm	JEIHS-56
57 mm	JEIHS-57
58 mm	JEIHS-58
59 mm	JEIHS-59



Cutter Dia Ø	Part Number
60 mm	JEIHS-60
61 mm	JEIHS-61
62 mm	JEIHS-62
63 mm	JEIHS-63
64 mm	JEIHS-64
65 mm	JEIHS-65
66 mm	JEIHS-66
67 mm	JEIHS-67
68 mm	JEIHS-68
69 mm	JEIHS-69
70 mm	JEIHS-70
71 mm	JEIHS-71
72 mm	JEIHS-72
73 mm	JEIHS-73
74 mm	JEIHS-74
75 mm	JEIHS-75
76 mm	JEIHS-76
77 mm	JEIHS-77
78 mm	JEIHS-78
79 mm	JEIHS-79
80 mm	JEIHS-80
81 mm	JEIHS-81
82 mm	JEIHS-82
83 mm	JEIHS-83
84 mm	JEIHS-84
85 mm	JEIHS-85
86 mm	JEIHS-86
87 mm	JEIHS-87
88 mm	JEIHS-88
89 mm	JEIHS-89
90 mm	JEIHS-90
91 mm	JEIHS-91
92 mm	JEIHS-92
93 mm	JEIHS-93
94 mm	JEIHS-94
95 mm	JEIHS-95
96 mm	JEIHS-96
97 mm	JEIHS-97
98 mm	JEIHS-98
99 mm	JEIHS-99
100 mm	JEIHS-100
105 mm	JEIHS-105
110 mm	JEIHS-110
115 mm	JEIHS-115
120 mm	JEIHS-120



6 PIECE TCT HOLE SAW SET

Part Number - JEIHS-SET6

Including 16, 18, 19, 20, 22 & 25mm x 25mm depth hole saws, plus pilot pin to suit.



Hint and Tips!

Please take care when drilling the pilot hole, increase speed and torque once the TCT Holesaw engages with the material.



SPARE CENTRE SPRING & DRILL

Part Number - JEIHS-PILOT

Replacement Pilot Drill & Spring Assembly



Hint and Tips!

For best results, apply JEI's Turbo™ Tough Cutting Spray.



Diameter Range Ø:
20mm - 100mm



Cutting Depth: 50mm

**MORE SIZES
AVAILABLE
ON REQUEST
VISIT
JEIUK.COM**

Cutter Dia Ø	Part Number
20 mm	JEIHL-20
21 mm	JEIHL-21
22 mm	JEIHL-22
23 mm	JEIHL-23
24 mm	JEIHL-24
25 mm	JEIHL-25
26 mm	JEIHL-26
27 mm	JEIHL-27
28 mm	JEIHL-28
29 mm	JEIHL-29
30 mm	JEIHL-30
31 mm	JEIHL-31
32 mm	JEIHL-32
33 mm	JEIHL-33
34 mm	JEIHL-34
35 mm	JEIHL-35
36 mm	JEIHL-36
37 mm	JEIHL-37
38 mm	JEIHL-38
39 mm	JEIHL-39
40 mm	JEIHL-40
41 mm	JEIHL-41
42 mm	JEIHL-42
43 mm	JEIHL-43
44 mm	JEIHL-44
45 mm	JEIHL-45
46 mm	JEIHL-46
47 mm	JEIHL-47
48 mm	JEIHL-48
49 mm	JEIHL-49
50 mm	JEIHL-50
51 mm	JEIHL-51
52 mm	JEIHL-52
53 mm	JEIHL-53
54 mm	JEIHL-54
55 mm	JEIHL-55
56 mm	JEIHL-56
57 mm	JEIHL-57
58 mm	JEIHL-58
59 mm	JEIHL-59
60 mm	JEIHL-60



Cutter Dia Ø	Part Number
61 mm	JEIHL-61
62 mm	JEIHL-62
63 mm	JEIHL-63
64 mm	JEIHL-64
65 mm	JEIHL-65
66 mm	JEIHL-66
67 mm	JEIHL-67
68 mm	JEIHL-68
69 mm	JEIHL-69
70 mm	JEIHL-70
71 mm	JEIHL-71
72 mm	JEIHL-72
73 mm	JEIHL-73
74 mm	JEIHL-74
75 mm	JEIHL-75
76 mm	JEIHL-76
77 mm	JEIHL-77
78 mm	JEIHL-78
79 mm	JEIHL-79
80 mm	JEIHL-80
81 mm	JEIHL-81
82 mm	JEIHL-82
83 mm	JEIHL-83
84 mm	JEIHL-84
85 mm	JEIHL-85
86 mm	JEIHL-86
87 mm	JEIHL-87
88 mm	JEIHL-88
89 mm	JEIHL-89
90 mm	JEIHL-90
91 mm	JEIHL-91
92 mm	JEIHL-92
93 mm	JEIHL-93
94 mm	JEIHL-94
95 mm	JEIHL-95
96 mm	JEIHL-96
97 mm	JEIHL-97
98 mm	JEIHL-98
99 mm	JEIHL-99
100 mm	JEIHL-100



CUTTING OIL & LUBRICANTS

Part Number - JEIOIL-NEAT & JEIOIL-TTA

Including neat cutting oil and cutting spray



SPARE CENTRE SPRING & DRILL

Part Number - JEIHL-PILOT

Replacement Pilot Drill & Spring Assembly



Hint and Tips!

For best results, select a slower cutting speed and always apply cutting oil.



turbo™ STEEL TWIST DRILLS

**HOLES WITHOUT THE
NEED OF A CHUCK**

Turbo™ HSS twist drills are 2 piece drill and adaptor on a 19mm shank, designed to use in both the JEI range and other manufacturers brand's of magnetic drill. Perfect for use in JEI's MiniBeast™ range of drilling machines.

- ✓ High quality HSS tool life.
- ✓ Featuring special flat to fit into adaptor.



4 PIECE TURBO™ TWIST DRILL SET

Part Number - JEITD-SET

Including 6, 8, 10 and 12mm twist drill on a 19mm shank. Also includes a black plastic case



5 PIECE TURBO™ TWIST DRILL SET

Part Number - JEITD-SET5

Including 6, 7, 8, 10 and 12mm twist drill on a 19mm shank. Also includes a black plastic case



Perfect for use in
the MiniBeast™

High quality HSS tool life

Featuring special flat to fit into adaptor

Twist Drill Size	Part Number
6 mm	JEITD-06
6.8 mm	JEITD-06.8
7 mm	JEITD-07
8 mm	JEITD-08
8.5 mm	JEITD-08.5
9 mm	JEITD-09
10 mm	JEITD-10
10.3 mm	JEITD-10.3
11 mm	JEITD-11
12 mm	JEITD-12

Supplied with 19mm shank, flute length = 65mm



Spare replacement drills only

Diameter x Flute Length	Part Number
6 mm x 65 mm	JEITD-D06
7 mm x 65 mm	JEITD-D07
8 mm x 65 mm	JEITD-D08
9 mm x 65 mm	JEITD-D09
10 mm x 65 mm	JEITD-D10
11 mm x 65 mm	JEITD-D11
12 mm x 65 mm	JEITD-D12

Remove 2 x Allen screws from adaptor to remove drill

COUNTERSINKS FOR MAGNETIC DRILLS

DESIGNED TO PRODUCE A CHAMFER ON PRE-DRILLED HOLES

Presenting a full range of countersinks, designed to produce a chamfer on pre-drilled holes, ready for a countersunk bolt. Featuring a 19 mm shank to suit most magnetic drills.

- ✓ Unequal pitch for high quality, smooth finish.
- ✓ Minimises cutting force for extended tooling life.
- ✓ 3 flat shank for firm hold in chuck to provide excellent cutting performance.



turbo[™] ENDURANCE+

For the world's toughest materials

Part Number	Min-Max body size, angle
JEIETCSK-50	14-50 mm Ø, 90°
JEIETCSK-60	14-60 mm Ø, 90°



Size Range
14 -60 mmØ



CSK Type
Super Coated TCT



Max. Tensile Strength
<1600RM (N/ mm²)



Perfect for
Hardox, weldox,
armoured plate, super
duplex, aircraft steels,
abra plate



turbo[™] TOUGH

Produce a chamfer on pre-drilled holes

Part Number	Min-Max body size, angle
JEITCSK-50	14-50 mm Ø, 90°
JEITCSK-60	14-60 mm Ø, 90°



Size Range
14 -60 mmØ



CSK Type
TCT



Max. Tensile Strength
<1200RM (N/ mm²)



Perfect for
Mild & structural steels,
cast iron, stainless



turbo[™] STEEL

Featuring a 19mm shank to suit most magnetic drills

Part Number	Min-Max body size, angle
JEI-CSK-25	4-25 mm Ø, 90°
JEI-CSK-30	4-30 mm Ø, 90°
JEI-CSK-40	8-40 mm Ø, 90°
JEI-CSK-50	12-50 mm Ø, 90°
JEI-CSK-55	12-55 mm Ø, 90°
JEI-CSK-55/C	12-55 mm Ø, 60°



Size Range
4 -55 mmØ



CSK Type
M2-AL (HSS)



Max. Tensile Strength
<900RM (N/ mm²)



Perfect for
Most mild, aluminium
and structural steel



turbo[™] ENDURANCE

Turbo[™] Endurance Countersinks

Part Number	Min-Max body size, angle
JEIECSK-25	4-25 mm Ø, 90°
JEIECSK-30	4-30 mm Ø, 90°
JEIECSK-40	8-40 mm Ø, 90°
JEIECSK-50	12 -50 mm Ø, 90°
JEIECSK-55	12 -55 mm Ø, 90°
JEIECSK-55/C	12-55 mm Ø, 60°



Size Range
4 - 55 mmØ



CSK Type
M2-AL Coated
(HSS)



Max. Tensile Strength
<1000RM (N/ mm²)



Perfect for
Mild, aluminium and
structural steel with
extended tool life



turbo™ GOLD COUNTERSINKS

TIN COATED FOR EXTRA TOOL LIFE

Designed to produce a chamfer on pre-drilled holes with unequal pitch creating a smooth finished hole and TiN coated to enhance cutting performance. JEI's Turbo™ Gold Countersinks are designed with unequal pitch, which reduces vibrations during the cutting process for a high quality smooth finish and longer tooling life.



Size Range:
6.3mm - 20.5mm Ø



Perfect For:
Mild steel, stainless,
cast iron & non
ferrous materials



For Use With:
Battery, corded
and pneumatic
hand drills

Size Ø	Part Number
6.3 mm	JEICKSM-6.3
8.3 mm	JEICKSM-8.3
10.4 mm	JEICKSM-10.4
12.4 mm	JEICKSM-12.4
16.5 mm	JEICKSM-16.5
20.5 mm	JEICKSM-20.5

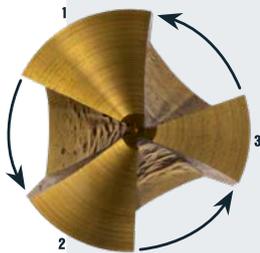


6 PIECE MINI COUNTERSINK SET

Part Number - JEICKSM-SET

Includes:

- Sizes: 6.3, 8.3, 10.4, 12.4, 16.5 & 20.5 mm
- Supplied in a plastic case



Turbo™ Gold Countersinks

UNIQUE UNEQUAL PITCH

To produce a burr free, smooth finish and promote longer tool life.



MORE OPTIONS FOR CUTTING TOOLS

turbo™ MULTI-LAYER CUTTER

Designed for cutting through multiple layers of steel in one fast, clean operation.

Specifically manufactured for cutting rail track efficiently and quickly.

Standard annular cutters are only designed to cut through one solid plate before ejecting the solid slug. Also referred to as "Laminate", "ID" or "Stack" drilling, the Turbo™ multi-layer cutter features a special cutting tooth form that will retract the multiple slugs in the cutter to be ejected together at the end of the cut.

- Reduces tool breakages – no need to stop and start the whole process.
- Increases productivity – achieve the hole in one cut.
- Ideal for removing existing bolts from old steel structures and bridge refurbishment.
- Use on site work when needing to bolt together two sections of steel.
- Available as an option on all types of Turbo™ annular cutters.

To order, simply add the postfix code "ID" after the cutter part no.
e.g to order Turbo™ Steel 22mm, 1" D.O.C with I.D form.

Cutter Type	Add POSTfix to Product Part No.
Turbo™ Steel	
Turbo™ Tough	ID
Turbo™ Endurance	
Turbo™ Endurance+	



turbo™ TAILORED

Creating bespoke hole cutting solutions.

Turbo™ Tailored is JEI Solutions' unique in-house cutting tool design and manufacturing service.

JEI Solutions strive to find the ideal solution for a diverse range of special drilling and cutting applications. We offer a bespoke and comprehensive Turbo™ cutter manufacturing service to suit a vast range of industry requirements.

With our specialist design and production team, we have the ability to produce cutting tools to suit either client's existing drilling equipment or adapted to compliment the JEI machine drilling range. JEI Solutions have provided expert hole cutting tool solutions for specialist client projects in the following fields:

- Nuclear Decommissioning
- Mining
- Wind Farm Modifications
- Offshore Platforms

Contact your JEI representative for further assistance
with your speical drilling requirements.



turbo™ GOLD STEP DRILLS

STEP DRILL HSS-TIN, SPIRAL, FLUTED WITH SPLIT POINT

Manufactured from high-quality Turbo™ gold HSS M2-AL material, with added titanium nitrate (Tin) coating.

- ✓ Fitted on 3 flat shank for better grip in the holding chuck, preventing slippage.
- ✓ Available in individual sizes or in a 3 piece set complete with plastic case.
- ✓ Provides long lasting tool life and faster results.
- ✓ Requires minimal cooling.
- ✓ Spiral fluted to ensure a smooth cutting action.
- ✓ Provides a burr-free hole.
- ✓ Requires less force during cutting action.



Cutting Thickness:
4mm



Max. Tensile Strength:
<1110RM (N/ mm²)
on steel



Perfect for:
Mild steel, alloys,
stainless steel
and plastics



Cutter Type:
M2-AL (HSS) with
TiN Coating.



Size Range:
5 Steps (4-12)
9 Steps (4-20)
13 Steps (6-30)



For Use With:
Battery, corded and
pneumatic hand
drills with chuck.





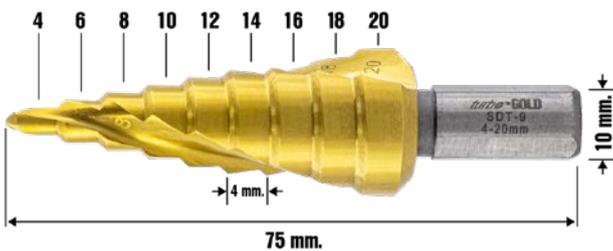
PREMIUM CUTTING TOOLS DESIGNED TO CUT HOLES IN SHEET METAL MATERIALS, WITH A THICKNESS OF UP TO 4 MM

Size Ø	Part Number
4 -12 mm	JEISDT-5.4.12
4 -20 mm	JEISDT-9.4.20
6 -30 mm	JEISDT-13.6.30



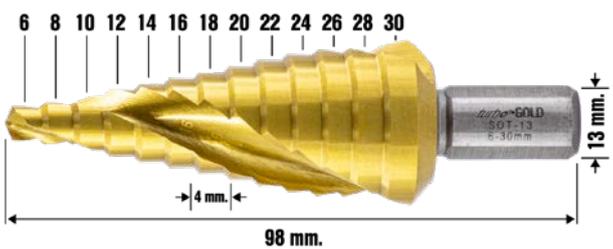
Turbo™ Gold Spiral Flute HSS with TIN Coating Step Drills - 5 steps

Five Steps - Min - 4 mm | Max - 12 mm (4/6/8/10/12)
Shank Size - 8 mm with 3 flats
Overall length - 65 mm



Turbo™ Gold Spiral Flute HSS with TIN Coating Step Drills - 9 steps

Five Steps - Min - 4 mm | Max - 20 mm (4/6/8/10/12/14/16/18/20)
Shank Size - 10 mm with 3 flats
Overall length - 75 mm



Turbo™ Gold Spiral Flute HSS with TIN Coating Step Drills - 13 steps

Five Steps - Min - 6 mm | Max - 30 mm
(6/8/10/12/14/16/18/20/22/24/26/28/30)
Shank Size - 13 mm with 3 flats
Overall length - 98 mm



TURBO™ GOLD SPIRAL FLUTE HSS WITH TIN COATING STEP DRILL SET

Available as a 3 piece set with plastic case

Part Number - JEISDT-SET3

Five Steps - Min - 4 mm | Max - 12 mm (4/6/8/10/12)
Nine Steps - Min - 4 mm | Max - 20 mm (4/6/8/10/12/14/16/18/20)
Thirteen Steps - Min - 6 mm | Max - 30 mm (6/8/10/12/14/16/18/20/22/24/26/28/30)



turbo™ STEEL MINI CUTTERS

A MINI ANNULAR BROACHING CUTTER

Ideal for making holes in sheet metal and pipes, covering applications including; sheet metal workers, maintenance shops, site engineers, electrical contractors, heating engineers and chassis & motor body repairs.

- ✔ Provide far more efficiency, accuracy and tooling life than a HSS hole saw.
- ✔ Turbo™ mini cutters cut only the periphery of the hole, with the centre slug being ejected, therefore requiring less power and more speed.
- ✔ Manufactured from premium quality high speed steel (HSS) and fully ground for a quality burr-free finish.
- ✔ Easily adapts for use with a hand drill and 13 mm chuck, by using it's spring loaded arbor system (on a 8 mm shank with 3 flats).
- ✔ Available to purchase as individual sizes or as a handy kit, a must for every toolbox!



Steel Fabrication



Vehicle Manufacturing & Maintenance Shops



Plumbing & Heating Engineers



Electrical Engineers



Max. Tensile Strength:
<900 (N / mm²)



Size Range:
8mm - 25mm Ø



Perfect for:
Sheet metals, tube and plastics.



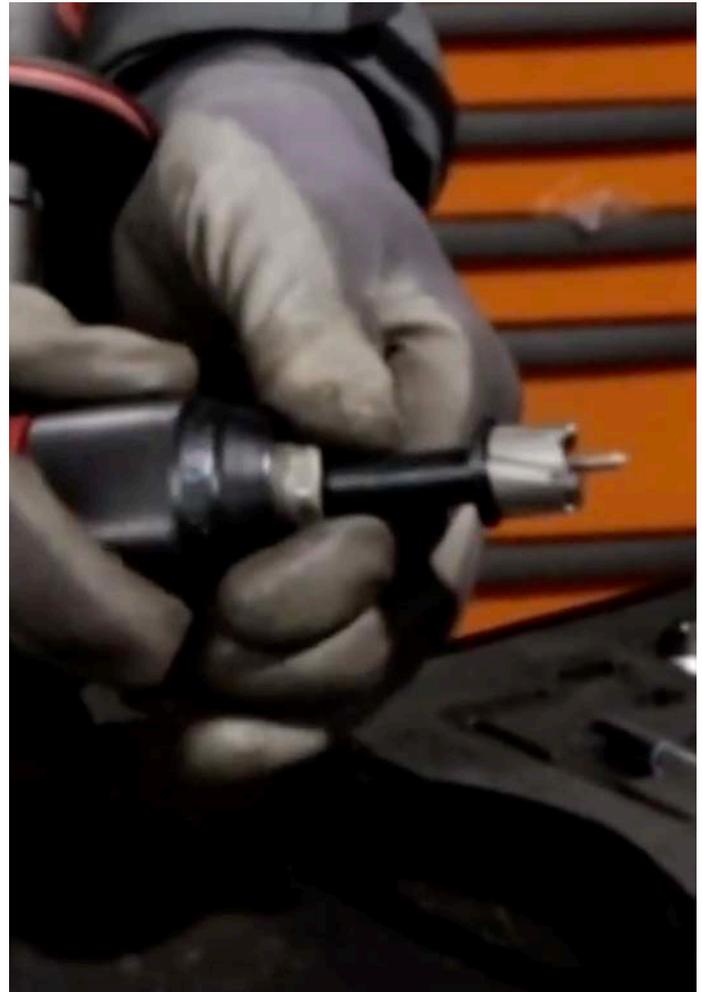
Cutting Depths:
6.4mm (for sizes 8-20mm) 12.7mm (for sizes 21-25mm)



For Use With:
Battery, corded and pneumatic hand drills.



Size Ø	Part Number
8 mm Ø x 6.4 mm D.O.C.	JEISMC08
9 mm Ø x 6.4 mm D.O.C.	JEISMC09
10 mm Ø x 6.4 mm D.O.C.	JEISMC10
11 mm Ø x 6.4 mm D.O.C.	JEISMC11
12 mm Ø x 6.4 mm D.O.C.	JEISMC12
13 mm Ø x 6.4 mm D.O.C.	JEISMC13
14 mm Ø x 6.4 mm D.O.C.	JEISMC14
15 mm Ø x 6.4 mm D.O.C.	JEISMC15
16 mm Ø x 6.4 mm D.O.C.	JEISMC16
17 mm Ø x 6.4 mm D.O.C.	JEISMC17
18 mm Ø x 6.4 mm D.O.C.	JEISMC18
19 mm Ø x 6.4 mm D.O.C.	JEISMC19
20 mm Ø x 6.4 mm D.O.C.	JEISMC20
21 mm Ø x 6.4 mm D.O.C.	JEISMC21
22 mm Ø x 6.4 mm D.O.C.	JEISMC22
23 mm Ø x 6.4 mm D.O.C.	JEISMC23
24 mm Ø x 6.4 mm D.O.C.	JEISMC24
25 mm Ø x 6.4 mm D.O.C.	JEISMC25



Description	Part Number
Arbor assembly for mini cutters 8 - 20 mm Ø	JEISMS002
Pilot pin for mini cutters 8 - 20 mm Ø	JEISMS003
Small washer 14.5 X 1.5 mm to suit jeisms002 arbor	JEISMSSW
Large washer 22.5 X 1.5 mm to suit jeisms002 arbor	JEISMSLW
Arbor assembly for mini cutters 21 - 25 mm Ø	JEISML002
Pilot pin for mini cutters 21 - 25 mm Ø	JEISML003





CUTTING OIL & LUBRICANTS

Part Number - JEIOIL-NEAT & JEIOIL-TTA

Including neat cutting oil and cutting spray



A MUST FOR EVERY TOOLBOX!

Part Number - JEISMC-SET

Includes:

- 8, 10, 12, 14, 16, 18 and 20mm x 6.4mm cutters
- Pilot pins to suit

turbo™ BRIDGE REAMERS

ENLARGEN AND ALIGN PRE-DRILLED HOLES

Designed for when the bolt won't fit the hole. Fitted with a 19 mm shank to use directly in a magnetic drilling machine or in an impact wrench using a JEI impact socket adaptor with 1/2" or 3/4" drive.

- ✓ 19mm shank.
- ✓ For use directly in a magnetic drilling machine.
- ✓ Opens up hole in steel work.
- ✓ Aligns holes to fit a bolt through two plates.
- ✓ Can be used with an impact wrench when combined with our impact socket adaptors.



Size Range:
14mm - 32mm



For Use With:
Magnetic Drill,
Impact wrench
>8000n rated



Shank Size:
19.05mm Dia



Max. Tensile Strength:
900 mm²



Perfect for:
Steel construction,
bridgework.



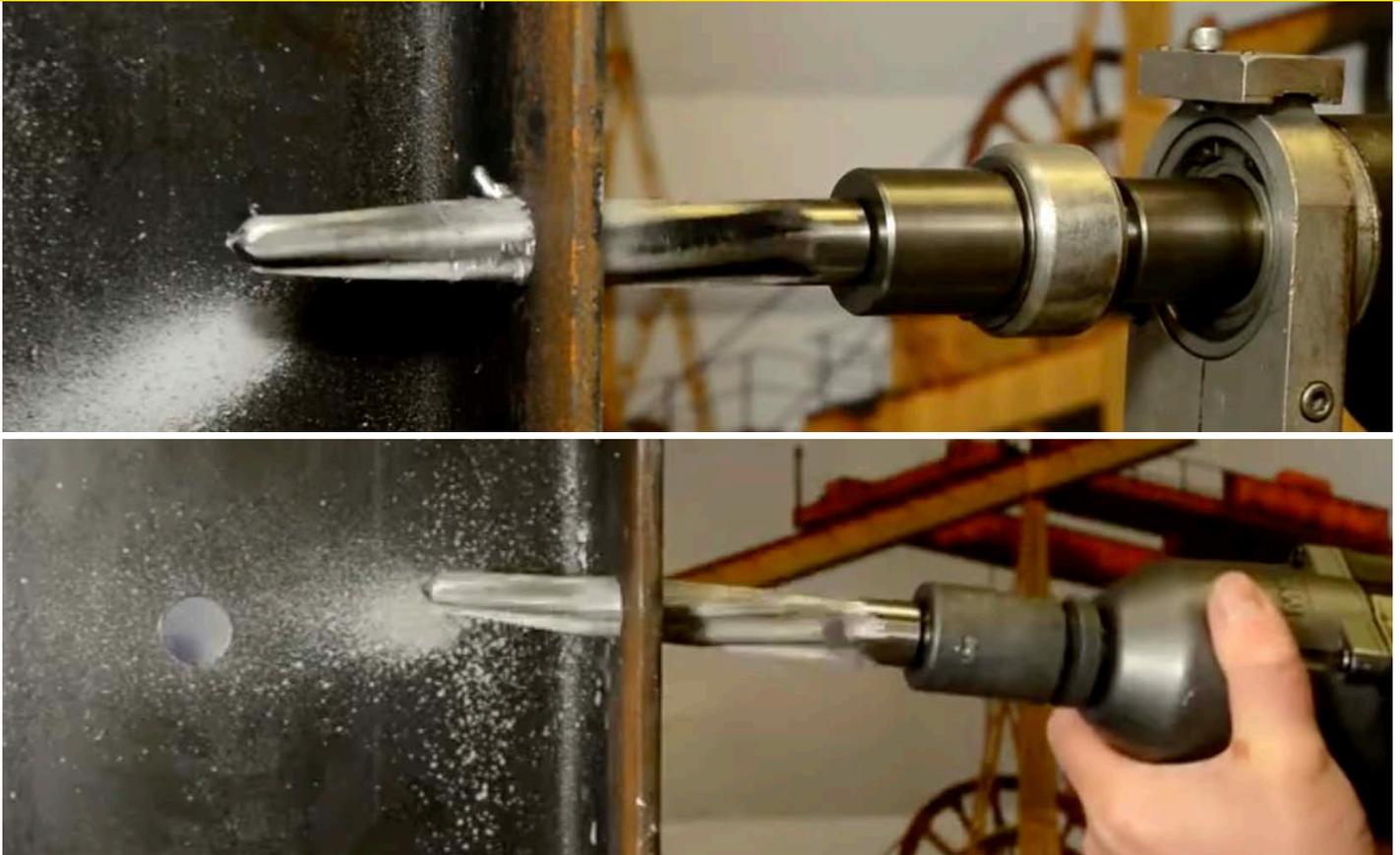
Size Ø	Hole Enlarging Depth	Start Diameter	Overall Length	Part Number
14 mm	52 mm	7 mm	140 mm	JEITBR14
18 mm	61 mm	9.5 mm	165 mm	JEITBR18
20 mm	62 mm	11 mm	178 mm	JEITBR20
22 mm	62 mm	13 mm	178 mm	JEITBR22
24 mm	63 mm	15 mm	178 mm	JEITBR24
26 mm	67 mm	16 mm	178 mm	JEITBR26
28 mm	67 mm	18.5 mm	178 mm	JEITBR28
30 mm	64 mm	21 mm	178 mm	JEITBR30
32 mm	64 mm	22.5 mm	178 mm	JEITBR32

Supplied with a 19mm shank- ideal for use with a magnetic drilling machine (check drilling stroke of machine)

← 19 mm shank →



Part Number	Description
JEIHEXS	Impact socket adaptor, to suit 1/2" drive
JEIHEXL	Impact socket adaptor, to suit 3/4" drive



AVAILABLE IN 3 OR 5 PIECE KITS

Need multiple sizes? Save time and money with our Turbo™ Bridge Reamer sets at JEI. Available as 3 or 5 piece kits.



3 PIECE TURBO™ BRIDGE REAMER

Part Number - JEITBR-SET3

Includes 14, 18 and 22mm Bridge Reamers.
Hex socket adaptors available separately.



5 PIECE TURBO™ BRIDGE REAMER

Part Number - JEITBR-SET5

Includes 14, 18, 22, 26 and 32mm Bridge Reamers.
Hex socket adaptors available separately.



REAMERS IN ACTION

Turbo™ Bridge Reamers by JEI Solutions. Designed as a handy and economical solution to align and enlarge existing holes in steel, ready for bolting. Ideal for use in both a Portable Magnetic Drilling Machine, and an impact wrench with additional adaptor.



IMPACT SOCKET ADAPTORS

Our impact socket adaptors are available on 1/2" or 3/4" drive and can be used with both JEI's Turbo™ Bridge Reamers and Turbo™ M-Taps that are fitted on a 19 mm shank to use in an impact wrench.

- 1/2" or 3/4" drive
- For use with impact wrench
- To accept 19 mm shank reamers



*turbo*TM

HEX BRIDGE REAMERS

READY TO FIT HEX SOCKET FOR USE WITH AN IMPACT WRENCH

JEI present an ideal solution for the steel erector to enlarge and align pre-drilled holes in structural steel.

- ✓ Ideal for use with a heavy duty impact wrench.
- ✓ Opens up existing holes in steelwork when the bolt won't fit.
- ✓ Aligns holes to fit bolt through two plates.
- ✓ Fit into 1/2" or 3/4" drive hex socket.



Size Range:
14mm - 39mm



For Use With:
Impact Wrench > 8000 rated



Shank Size:
Hexagon



Max. Tensile Strength:
900n/mm²



Perfect for:
Steel construction, bridgework.



Size Ø	Hole Enlarging Depth	Start Diameter	Overall Length	Part Number
14 mm	50 mm	7 mm	140 mm	JEIHR14
18 mm	58 mm	9.5 mm	165 mm	JEIHR18
20 mm	58 mm	11 mm	171 mm	JEIHR20
22 mm	65 mm	13 mm	171 mm	JEIHR22
24 mm	65 mm	14.5 mm	171 mm	JEIHR24
26 mm	60 mm	16 mm	171 mm	JEIHR26
30 mm	60 mm	20.5 mm	171 mm	JEIHR30
32 mm	63 mm	22.5 mm	171 mm	JEIHR32
33 mm	57 mm	23.5 mm	171 mm	JEIHR33
36 mm	57 mm	26 mm	200 mm	JEIHR36
39 mm	57 mm	29 mm	200 mm	JEIHR39

Hexagon Size	To suit impact drive size (sq)	Part Number
24 mm	1/2"	JEIHEXS14R
36 mm	1/2"	JEIHEXS22R
24 mm	3/4"	JEIHEXL14R
36 mm	3/4"	JEIHEXL22R
41 mm	3/4"	JEIHEXL26R
46 mm	3/4"	JEIHEXL32R
50 mm	3/4"	JEIHEXL33R





AVAILABLE IN 3 OR 5 PIECE KITS

Need multiple sizes? Save time and money with our Turbo™ Hex Bridge Reamer sets at JEI. Available as 3 or 5 piece kits.



3 PIECE TURBO™ BRIDGE HEX REAMER

Part Number - JEIHR-SET3

Includes 14, 18 and 22mm Hex Bridge Reamers. Also includes hex socket adaptors available separately



5 PIECE TURBO™ BRIDGE HEX REAMER

Part Number - JEIHR-SET5

Includes 14, 18, 22, 26 and 32mm Hex Bridge Reamers. Also includes hex socket adaptors available separately



REAMERS IN ACTION

Turbo™ Hex Bridge Reamers by JEI Solutions. Designed as a handy and economical solution to align and enlarge existing holes in steel, ready for bolting. Ideal for use in both a Portable Magnetic Drilling Machine, and an impact wrench with additional adaptor.



HEX SOCKET ADAPTORS

Ideal for using with an impact wrench for bolting purposes. Can be used to mount hex reamers for aligning holes in steel.

• Available on 1/2" or 3/4" drive.



turbo™ TURBO™ M-TAP

A BOLT READY THREAD TO PRE-EXISTING HOLES

A versatile, quick and effective solution to provide a bolt ready thread to pre-existing holes.

- ✓ Features a 19mm shank to fit directly into the cutter arbor.
- ✓ Ideal for use with HM50T, HM100T & Magbeast premium PRO range of drilling machines.
- ✓ For through holes only.
- ✓ Versatile for use in any magdrill with reverse and variable speed control.
- ✓ Can be used with an impact wrench using one of our impact socket adaptors, to tap through 12 mm depth.
- ✓ Available in sizes ranging from M8 - M30.
- ✓ Purchase as a handy 5 piece set including sizes M8, M10, M12, M16 & M20 plus both impact socket adaptors.



Size Range:
M8 to M20



Shank Size:
19.05mm



For Use With:
Magnetic Drill,
Impact Wrench >
8000n rated



Hint and Tips!

For maximum performance, use JEI's Turbo™ Tough Spray, specially formulated for tapping applications.





Tapping with a magnetic drilling machine

The Turbo™ M-Tap can be used directly in any magdrill with reverse for tapping through holes.

Mag Tap 5 Piece Set with impact socket adaptors

The Turbo™ M-Tap's are available as a handy five piece set including tap sizes M8, M10, M12, M16 & M20 including both a 1/2" & 3/4" impact socket adaptor to enable the user to tap through holes with either a magdrill with reverse or an impact wrench.

Tapping with an impact wrench

The Turbo™ M-Tap can be used with an impact wrench using our impact socket adaptor (available on 1/2" and 3/4" drive) up to a maximum depth of 12 mm.

Part Number	Tap Size x Thread Pitch
JEITAPM8	M8 x 1,25
JEITAPM10	M10 x 1,5
JEITAPM12	M12 x 1,75
JEITAPM14	M14 x 2
JEITAPM16	M16 x 2
JEITAPM18	M18 x 2,5
JEITAPM20	M20 x 2,5
JEITAPM24	M24 x 3
JEITAPM27	M27 x 3
JEITAPM30	M30 x 3,5
JEITAP-SETS	5 PC Set of Turbo Taps, consisting of 1 x M8, M10, M12, M16 & M20 plus 1 x JEIHEXL and JEIHEXS sockets supplied in a sturdy plastic case. *Other set options available - ask for details*
Part Number	Drive
JEIHEXS	Turbo Hex Drive Socket, to suit 1/2" Drive
JEIHEXL	Turbo Hex Drive Socket, to suit 3/4" Drive



Drill and Tap in One.

A one piece drilling and tapping solutions. Requires a pilot hole.



Tap Holders

(19mm Shank)



Tapped Hole Size Cutter Solutions

Part Number	Tap Size x Thread Pitch	Max Drilling / Tapping Depth
JEIDT-08	M8 x 1,25	17 mm
JEIDT-10	M10 x 1,5	20 mm
JEIDT-12	M12 x 1,75	20 mm
JEIDT-14	M14 x 2,0	18 mm
JEIDT-16	M16 x 2,0	18 mm
JEIDT-18	M18 x 2,5	20 mm
JEIDT-20	M20 x 2,5	25 mm
JEIDT-22	M22 x 2,5	24 mm
JEIDT-24	M24 x 3,0	26 mm
JEIDT-27	M27 x 3,0	29 mm
JEIDT-30	M30 x 3,5	31 mm

Part Number	Tap size	Shank size (round)
JEITH-M8	M8	Ø 6 mm
JEITH-M10	M10	Ø 7 mm
JEITH-M12	M12	Ø 9 mm
JEITH-M14	M14	Ø 11 mm
JEITH-M16	M16	Ø 12 mm
JEITH-M18	M18	Ø 14 mm
JEITH-M20	M20	Ø 16 mm
JEITH-M22/24	M22-24	Ø 18 mm
JEITH-M27	M27	Ø 18 mm
JEITH-M30	M30	Ø 22 mm

Part Number	Description	To Suit JEI M-TAP
JEIDT-6.8	6.8 mm Twist Drill	JEITAPM8
JEIDT-8.5	8.2 mm Twist Drill	JEITAPM10
JEIDT-10.3	10.3 mm Twist Drill	JEITAPM12
JEICS12	12 mm x 1" Cutter	JEITAPM14
JEICS14	14 mm x 1" Cutter	JEITAPM16
JEICS15.5	15.5 mm x 1" Cutter	JEITAPM18
JEICS17.5	17.5 mm x 1" Cutter	JEITAPM20
JEICS21	21 mm x 1" Cutter	JEITAPM24
JEICS24	24 mm x 1" Cutter	JEITAPM27
JEICS26.5	26.5 mm x 1" Cutter	JEITAPM30



turbo™ TOUGH CARBIDE BURRS

DOUBLE CUT CARBIDE ROTA-BURRS

For cutting, shaping, grinding and removal of sharp edges, burrs and excess material.

- ✓ Designed for rapid stock removal.
- ✓ For deburring and polishing edges.
- ✓ Suitable for cleaning weld seams.
- ✓ Suitable for mild steel, cast iron, stainless and wear plates.
- ✓ Multiple shapes and profiles available for all applications.



Size Range:
6-16mm Ø



Cutter Type:
Carbide



Shank Size:
6mm Ø



Perfect for:
Mild steel, cast iron, stainless & wear plates



5 PIECE CARBIDE BURR SET

Part Number - JEITCB-SET5

- Ball Nose Cylinder 8 x 10 mm (JEITCB-C0820)
- Ball Nose Cylinder 10 x 20 mm (JEITCB-C1020)
- Ball Nose Tree 10 x 20 mm (JEITCB-F1020)
- Ball Nose Cone 12 x 28 mm (JEITCB-L1228)
- Standard Tree 12 x 25 mm (JEITCB-G1225)



10 PIECE CARBIDE BURR SET

Part Number - JEITCB-SET10

- | | |
|--|--|
| Straight Cylinder 10 x 20 mm (JEITCB-A1020) | Ball Nose Tree 12 x 25 mm (JEITCB-F1225) |
| Straight Cylinder 12 x 25 mm (JEITCB-A1225) | Standard Tree 10 x 20 mm (JEITCB-G1020) |
| Ball Nose Cylinder 10 x 20 mm (JEITCB-C1020) | Flame 10 x 25 mm (JEITCB-H1025) |
| Cylinder Ball 10 x 9 mm (JEITCB-D1009) | Flame 12 x 32 mm (JEITCB-H1232) |
| Oval Burr 12 x 20 mm (JEITCB-E1220) | Ball Nose Cone 12 x 28 mm (JEITCB-L122) |





Arc Pointed Tree Double Cut Carbide Burr

Use for rounding off edges and making concave cuts. Use the pointed end for cutting in hard to reach areas and acute angled contours.

Burr Size	Part Number
6 x 18 mm	JEITCB-G0618
12 x 25 mm	JEITCB-G1225



Ball Nose Cone Double Cut Carbide Burr

Ideal for rounded edges and surface finishing in areas of restricted access.

Burr Size	Part Number
12 x 28 mm	JEITCB-L1228



Ball Nose Double Cut Carbide Burr

Cylindrical burr with ball end for working on surfaces, contours and radiuses.

Burr Size	Part Number
6 x 16 mm	JEITCB-C0616
8 x 20 mm	JEITCB-C0820
10 x 20 mm	JEITCB-C1020
12 x 25 mm	JEITCB-C1225



Ball Nose Tree Double Cut Carbide Burr

Ideal for rounding off edges and making concave cuts on narrow contours

Burr Size	Part Number
6 x 18 mm	JEITCB-F0618
10 x 20 mm	JEITCB-F1020
12 x 25 mm	JEITCB-F1225



Cylinder Ball Double Cut Carbide Burr

Use to create concave cuts or to shape and hollow out an area.

Burr Size	Part Number
6 x 5 mm	JEITCB-D0605
10 x 9 mm	JEITCB-D1009
12 x 10 mm	JEITCB-D1210



Flame Double Cut Carbide Burr

Ideal for channel work and shaping.

Burr Size	Part Number
10 x 25 mm	JEITCB-H1025
12 x 32 mm	JEITCB-H1232



Straight Cylinder Double Cut Carbide Burr, without end cut

Ideal for contour finishing and right angled corners.

Burr Size	Part Number
6 x 16 mm	JEITCB-A0616
10 x 20 mm	JEITCB-A1020
12 x 25 mm	JEITCB-A1225

POINT-OF-SALE AND DISPLAYS

CONFIGURABLE, EFFECTIVE DISPLAY STANDS AND PACKS AVAILABLE TO ALL JEI DISTRIBUTORS

Designed for our stocking distributors to create a better JEI Product presence in their showrooms and trade counters. The JEI Range of cutting tools, drilling machines and accessories can be displayed through a wide choice of POS and display stands. All stands are available to order by calling us direct on 01706 229 490 or ordering through our order facility.

JEI Point-of-Sale & Displays

WANT TO ORDER WITH A SPECIFIC PRODUCT SET? JUST ASK

When ordering our stands and displays, you can choose between just the stand itself with no products, a pre-configured product selection / arrangement or you can choose to have your own selection of products. To find out more about any of our stands and displays, please email our team on sales@jeisolutions.co.uk.



LARGE ADAPTABLE DISPLAY STAND

Size of assembled stand
202cm x 60cm x 50cm



COUNTER DISPLAY STAND

Size of assembled stand
102cm x 60cm x 50cm



COUNTER CUTTER DISPLAY

Size of assembled stand
35cm x 29cm x 28cm



OIL & LUBRICANT DISPLAY SET

Our oil and lubricant display is only available as pre-selected set

Part Number	Product	#
JEIOL-SOL	1 Litre Oil Soluble	4 of
JEIOL-NEAT	1 Litre Oil Neat	4 of
JEIOL-TTP	Turbo Tough Spray	3 of
JEIOL-TTA	Turbo Endurance Spray	3 of



SMALL CUTTER DISPLAY KIT

Size of assembled stand 15cm x 20cm x 8cm

Part Number	Product	#
JEI-MSTAND/S	Small Metal Display	1 of
JEICS22	Turbo Steel Cutter 22mm x 1"	1 of
JEICL22	Turbo Steel Cutter 22mm x 2"	1 of
JEIECS22	Turbo Endurance Cutter 2mm x 1"	1 of
JEIECL22	Turbo Endurance Cutter 22m x 2"	1 of
JEITCS22	Turbo Tough Cutter 22mm x 1"	1 of

Part Number	Product	#
JEIETCS14	Turbo Endurance+ Cutter 14mm x 35mm D.O.C	1 of
JEIETCS18	Turbo Endurance+ Cutter 18mm x 35mm D.O.C	1 of
JEIETCS22	Turbo Endurance+ Cutter 22mm x 35mm D.O.C	1 of
JEITCS14	Turbo Tough (TCT) Cutter 14mm x 35mm D.O.C	1 of
JEITCS16	Turbo Tough (TCT) Cutter 16mm x 35mm D.O.C	1 of
JEITCS18	Turbo Tough (TCT) Cutter 18mm x 35mm D.O.C	1 of
JEITCS20	Turbo Tough (TCT) Cutter 20mm x 35mm D.O.C	1 of
JEITCS22	Turbo Tough (TCT) Cutter 22mm x 35mm D.O.C	1 of
JEITCS26	Turbo Tough (TCT) Cutter 26mm x 35mm D.O.C	1 of
JEIPILOT1/TCTS	JEI 6mm Pilot Pin (12-17mm TCS/ETCS Cutters)	1 of
JEIPI-LOT1/8MM	JEI 8mm Pilot Pin (18mm+ TCS/ETCS Cutters)	1 of
JEICSK-25	Turbo Steel (HSS) 4-25mm Countersink 90 deg	1 of
JEICSK-50	Turbo Steel (HSS) 10-50mm Countersink 90 deg	1 of
JEITAPM14	Turbo M-TAP M14 x 2 (19mm Shank)	1 of
JEIHS-22	Turbo Tough (TCT) Hole Saw 22mm x 1"	1 of
JEITD-06	Turbo Steel 6mm Twist Drill (Detachable 19mm Shank)	1 of

Part Number	Product	#
JEITCL22	Turbo Tough Cutter 22mm x 2"	1 of
JEITCS22	Turbo Endurance+ Cutter 22mm x 1"	1 of
JEITCL22	Turbo Endurance+ Cutter 22mm x 2"	1 of
JEIPILOT1	Pilot 1" 6mm Dia	1 of
JEIPILOT1/8MM	Pilot 1" 8mm Dia	1 of
JEIPILOT2	Pilot 2" 6mm Dia	1 of
JEIPILOT2/8MM	Pilot 2" 8mm Dia	1 of



Have any questions? Feel free to get in touch or contact your local distributor.

JEI Solutions



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STEELBEAST®

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PORTABLE HYDRAULIC PUNCHING MACHINES

HP60 & HP110

DOUBLE-ACTION, FULLY AUTOMATED PROCESS

The SteelBeast® HP110 and HP60 punching machines offers a fully automated process of punching and return through it's intelligent control system with inching and automatic load detection.

- ✓ **2 Models available - covering up to 27mm diameter holes through 16mm thickness.**
- ✓ **Intelligent control system and automatic load system - ensures safe and fast hole punching.**
- ✓ **Mode indicator light - protection from accidental start up.**
- ✓ **Supplied with portable hydraulic power pack - ready to operate.**
- ✓ **Full range of optional accessories - enhance the performance and production of your investment.**



Check out our puncher machines online and enquire today!



SteelBeast® HP60 & HP110

WHY CHOOSE THE STEELBEAST® PORTABLE HYDRAULIC PUNCHERS?

Featuring a 27 mm diameter capacity, through up to 16 mm thickness of steel, with a 110 mm/60 mm maximum throat depth allowing the puncher to sit further onto the workpiece to punch.

Customise your punching machine with our optional accessories to unlock further capabilities, such as punching in both horizontal and vertical position or punching hands free, improving your punching efficiency.

Want to make sure the Steelbeast Hydraulic Punchers are right for you? Speak to our specialist solutions team today.

Model	HP-60	HP-110
Weight	20 kg	35 kg
Motor	1500w	1500w
Max. Thickness	13 mm	16 mm
Max. Throat Depth	60 mm	110 mm
Max. Oblong Hole	25 x 18 mm	25 x 18 mm
Punching Time	5 Seconds	8 Seconds
Punching Power	35 ton	47 ton
Pump Output	1.5l/min	1.5l/min
Oil Capacity	10l	10l
Working Pressure	700 bar	700 bar
Voltage/ Part No. (includes hydraulic powerpack)	110v/ part no JEIHP60C/1 - 240v/ part no JEIHP60C/2	110v/ part no JEIHP110C/1 - 240v/ part no JEIHP110C/2



Supplied complete with hydraulic power pack



Quick and simple operation



Works in any position



Range of special shaped punches and dies available

Have any questions? Feel free to get in touch or contact your local distributor.

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STEELBEAST®

14" METAL CUTTING SAW

A ROBUST, PORTABLE METAL CUTTING SAW BUILT FOR INDUSTRY

Featuring a heavy-duty construction and powerful motor, making it a popular choice for the steel fabricator. Unlike lighter models on the market, the Steelbeast 14 is manufactured with a heavy-duty construction and equally powerful motor.



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- ✓ 14" (355mm) blade diameter.
- ✓ Low speed, high torque, long-life motor.
- ✓ Fast and safety conscious cut-off saw action.
- ✓ Dry cut with no coolant required.
- ✓ Weighs 25 kilograms.
- ✓ Cuts 0 - 45 degrees.
- ✓ Cuts through mild steel and stainless steel.
- ✓ 12 month limited warranty.
- ✓ Available in 110v or 240v options.

Check out the SteelBeast® 14 online and enquire today!



SteelBeast® 14

WHY CHOOSE THE STEELBEAST® 14 CUTTING SAW?

The SteelBeast 14" metal cutting saw is a high-demand tool for industrial cutting needs.

With the ability to cut through mild steel and stainless steel and at 0 to 45-degree angles, this saw is the quintessential cutting tool for a variety of projects. Portable with all-important safety features, it is ideal for bringing on-site.

Want to make sure the '14" Metal Cutting Saw' is right for you? Speak to our specialist solutions team today.

Height	623mm	
Width	330mm	
Length	635mm	
Weight	25kg	
Motor	2200 watt (115V/60Hz/15a)	
RPM	1300	
Capacity	45°	90°
Round	105mm	130mm
Square	90x90mm	120x120mm
Rectangle	80x110mm	95x185mm



Ergonomic pull down handle



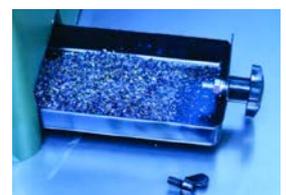
Quick acting vice handle clip



Portable, ideal to carry on site



Retracting lower safety guard



In built swarf collection draw

RADIUS BEVELLING SOLUTIONS

STEELBEAST® 4 EASY SOLUTIONS

Directives EN1090 and EN-ISO12944 (part 2 applications) are demanding a soft (Radius) edge on steel prior to painting, to deter from paint flaking or rust being formed from a sharp edge. SteelBeast® offers a 4 machine program of operator friendly and highly effective solutions.



EASY-RAD
SYSTEM

A quick and easy system for paint ready edge preparation



BM-2A

Pneumatic
Radius Range: r1.5



BEFORE

Without a radius



COATED

Flaking and rust



BM-5A

Pneumatic
Radius Range: r2, r3



BM-18A

Pneumatic
Radius Range: r2,r3,r4,r5



AFTER

With a radius



AFTER

Perfect finish



BM-18R

Electric
Radius Range: r2,r3,r4,r5

STEELBEAST® STEELBEAST® BM-2A

This pocket rocket is designed for cleaning edges of workpieces, by deburring sharp edges or creating a paint ready radius edge. Ideal for mild and stainless steel, aluminium and other materials. Can also deburr internal holes from a minimum 6.8mm diameter.

FEATURES AND BENEFITS:

- ✓ Very compact design – Weighs only 400g; fits in the hand.
- ✓ Practical – One milling head suits inserts for both deburring (beveling) and creating a paint ready radius edge.
- ✓ Highly reliable pneumatic motor – Designed for production use.
- ✓ Easy precision set up – Dial scale allows precise adjustment size of deburring.
- ✓ Supplied ready to go – With milling head and 4 cutting inserts fitted.

Check out the SteelBeast® BM-2A online and enquire today!



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SPECIFICATIONS

Model	BM2A
Spindle Speed (w/o load)	23000 RPM
Deburring Width	2mm
Bevel Angle	45°
Radius Sizes	r1.5
Weight	400g
Air Pressure	320l/min

TOOLINGS

Part Numbers	Descriptions
BMB2IR-2.5	Radius Carbide inserts, r1.5 (pack of 10)
BMB2IS	Milling Carbide inserts, 45 degree (pack of 10)
BMB2IS-C	Milling Carbide inserts, 45 degree (pack of 10) Coated for stainless steel and tough materials



STEELBEAST® PLATE BEVELLING SOLUTIONS

STEELBEAST® STEELBEAST® BM-5A

Pneumatic bevelling & radius machine.

Check out the SteelBeast® BM-5A online and enquire today!



Works great for all metal fabricating including shipyards.

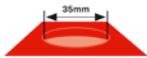
SPECIFICATION

Model	BM5A
Chamfering Capacity	3.5R
Max. Speed	7,500 RPM
Height	130mm
Net Weight	2.8kg



Cuts 2-3R radius chamfers.

MACHINES CHAMFERING CAPABILITIES



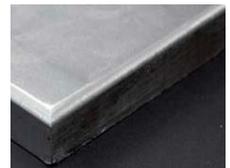
Cuts inside circles with a 35mm diameter or more.



Cuts materials with a minimum of 6mm thickness.



Will make blind cuts with a minimum of 11mm depth.



Cuts 2-3R straight chamfers.

STEELBEAST® STEELBEAST® BM-18A

The new SteelBeast® BM-18A pneumatic plate beveller features a powerful pneumatic motor that allows machining up to an 18mm bevel.

Check out the SteelBeast® BM-18 online and enquire today!



FEATURES AND BENEFITS:

- ✓ Powerful pneumatic motor.
- ✓ Maximum 18 mm bevel width (more than one pass could be required).
- ✓ New more durable milling heads with hexagonal fixing.
- ✓ Bevelling milling head is equipped with 5 pcs of 2-sided indexable cutting inserts.
- ✓ Milling head for rounding is equipped with 4 pcs of 4-sided indexable inserts up to R5.
- ✓ Easy replacement of milling heads.
- ✓ Creates the perfect radius on both straight and curved edges.
- ✓ Bevel on holes from 40 mm in diameter.

Model	BM-18A
Weight	9.3kg
Spindle Speed (Without Load)	6,000 RPM
Maximum Bevel Width	b=18 mm (Fig.1)
Bevel Angle (Depending on milling head in use)	$\beta = 22.5^\circ, 30^\circ, 37.5^\circ, 45^\circ, 50^\circ, 55^\circ, 60^\circ$ (Fig.1)
Minimal Diameter of Countersinking	ca 40 mm (1.57")
Rounding Edges (Option)	R2, R3, R4, R5 (Fig.2)
Minimal Plate Thickness	2 mm
Air Requirement	6 bar (0,6MPa) (87 PSI)
Air Consumption	1800 L/min, (64 CFM)
Pneumatic Drive	2,800 W
Minimum Required Diameter of Supply Hose	19 mm (3/4")
Product Code	BM-18A



STEELBEAST®

STEELBEAST® BM-18

THE NEW GENERATION OF POWERFUL, PORTABLE PLATE BEVELLING

Features new more durable milling heads with hexagonal fixing for easy replacement. The BM18 is a new generation, portable, multitask plate and pipe beveller is driven by a powerful electric motor and ideal for plate beveling, pipe beveling, radius edge beveling and countersinking. Designed for beveling edges of steel, aluminium, alloys, brass or plastic. Also available as a radius edge plate beveling solution.

- ✓ Maximum 18 mm bevel width (more than one pass could be required).
- ✓ Continuous bevel width adjustment.
- ✓ New more durable milling heads with hexagonal fixing for easy replacement.
- ✓ Electronic speed control between 1800–5850 rpm for use on a variety of materials.
- ✓ Overload protection.
- ✓ Beveling milling head is equipped with 5 pcs of 2-sided indexable cutting inserts.
- ✓ Milling head for radius is equipped with 4 pcs of 4-sided indexable inserts up to R5.

Check out the SteelBeast® BM-18 online and enquire today!



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SteelBeast® BM-18

WHY CHOOSE THE STEELBEAST® BM-18?

The new EN 1090 & EN-ISO 12944 Part 2 applications directive, demands a soft or radius edge applying to all steel sections before painting, to prevent rust build up on sharp edges. This quick, simple-to-use system with a 4-tip cutting head, creates a perfect radius in just one pass, saving time and money over conventional grinding methods.

Want to make sure the 'BM-18' is right for you? Speak to our specialist solutions team today.

Model	BM-18
Weight	10 kg (22 lbs)
Power Supply	1~ 220-240 V, 50-60 Hz - 1~ 110-120 V, 50-60 Hz
Power	2200 W
Spindle Speed (Without Load)	1800–5850 rpm
Maximum Bevel (b)	18 mm
Bevel Angle	$\beta = 22.5^\circ, 30^\circ, 37.5^\circ, 45^\circ, 50^\circ, 55^\circ, 60^\circ$ (Fig. 1)
Minimum workpiece thickness	2 mm (0.08")
Minimal diameter of countersinking	ca 40 mm (1.57")
Rounding edges	R2, R3, R4, R5 (Fig. 2)
Dimensions (L x W x H)	585 mm (23.0") x 156 mm (6.1") x 238 mm (9.4")
Product code 220-240 V, 50-60 Hz	BM18/2
Product code 110-120 V, 50-60 Hz	BM18/1



Have any questions? Feel free to get in touch or contact your local distributor.

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STEELBEAST®

STEELBEAST® BM-21 AND BM-21S

2 new generation models designed to create a perfect weld ready bevel on both plate and pipe with ease and efficiency.

BM-21 FEATURES AND BENEFITS:

- ✓ Single milling head equipped with 10 square inserts, simplifying the machining process.
- ✓ Fast and easy exchange of insert with no need for special adjustments.
- ✓ Extended work range from 0 to 60 degrees with continuous angle adjustment.
- ✓ Easy setting of bevel angle and width.
- ✓ Vibration insulation providing added protection for both user and machine.
- ✓ One universal guide plate for bevelling both plates and pipes.
- ✓ Bevells pipe 150mm to 300mm as standard.
- ✓ Optional attachment available for larger pipe up to 600mm diameter.

BM-21S FEATURES AND BENEFITS:

- ✓ Hard wearing Stainless Steel roller plate and parts designed to withstand tough use.
- ✓ Single milling head equipped with 10 square inserts, simplifying the machining process.
- ✓ Quick and simple tool change with no special adjustments.
- ✓ Extended work range from 0 to 60 degrees with continuous angle adjustment.
- ✓ Vibration insulation designed to provide added protection for both user and machine.
- ✓ Easy setting of bevel angle and width.
- ✓ One universal guide plate for bevelling both plates and pipes.
- ✓ Bevells pipe from 150mm to 300mm diameter as standard.
- ✓ Optional attachment available for larger pipe up to 600mm.

Model	BM-21	BM-21S
Motor	1.1 kw	1.6 kw
Maximum Bevel Width	21 mm	21 mm
Pipe Diameter	150 - 300 mm as standard 600 mm with optional attachment	150 - 300 mm as standard 600 mm with optional attachment
Motor Speed	2800 RPM	1560 RPM
Angle Range	0-60° (Infinatley Variable)	0-60° (Infinatley Variable)
Tooling (Included)	Milling Head with 10 (4 Sided) Inserts	Milling Head with 10 (4 Sided) Inserts
Weight	20 kg	23 kg
Voltage	110v / Part no. BM-21 240v / Part no. BM-21/2	110v / Part no. BM-21S 240v / Part no. BM-21S/2

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Check out the SteelBeast®
BM-21 online and enquire today!



Check out the SteelBeast®
BM-21S online and enquire today!



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STEELBEAST® BM-25

A BRAND-NEW PLATE BEVELLING INNOVATION

The BM-25 is an all-new, easy-to-use, portable heavy-duty machine designed for bevelling steel plates prior to welding.

- ✓ **Comfort and ergonomics of work.**
- ✓ **Continuously adjustable bevel angle between 0 and 90 degrees.**
- ✓ **Single head operates with face milling method.**
- ✓ **Maximum 25 mm bevel width (more than one pass could be required).**
- ✓ **Continuous bevel width adjustment.**
- ✓ **Powerful electric motor.**
- ✓ **Milling head is equipped with 5 pcs of 2-sided indexable cutting inserts.**
- ✓ **Electronic speed control between 1800–5850 rpm.**
- ✓ **Overload protection.**

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Check out the SteelBeast® BM-25 online and enquire today!



SteelBeast® BM-25

WHY CHOOSE THE STEELBEAST® BM-25?

The beveller is equipped with powerful motor and fitted with face milling bevelling head, allowing smooth operation and exceptional efficiency.

BM-25 enables milling straight edges up to 25 mm bevel width, whereas variable spindle speed facilitates optimizing cutting conditions. Continuously adjustable milling depth and bevel angle between 0 and 90 require no tooling to change. BM-25 has got a state-of-the-art electronic motor overload module protecting the operator, the machine and the tooling.

Voltage	110 V / 220-240 V, 50-60 Hz
Power	2200 W
Spindle speed (without load)	1800-5850 rpm
Maximum bevel width (b, Fig. 1)	25 mm (1")
Maximum depth of cut (d, Fig. 1)	12,5 mm (1/2")
Bevel angle (β , Fig. 1)	0°-90° 15°-75° (recommended)
Minimum workpiece thickness	2 mm (0.08")
Weight	12,5 kg (27 lb)
Required ambient temperature	0-40°C (34-104°F)
Product Code	110 V - BM25 / 220 V - BM25/2



Have any questions? Feel free to get in touch or contact your local distributor.

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STEELBEAST®

STEELBEAST® ABM-14

PORTABLE AUTOMATIC BEVELLING MACHINE

In just one single run the machine can bevel up to 2.6 m/min. (8.5 ft/min.) to a width of 12 mm (1/2") in workpieces with tensile strength of $R_m \leq 392$ MPa (57,000 psi). Maximum bevel width is 14 mm (9/16"). Depending on materials two or more runs are needed. Bevel angles include 30° (standard) and with optional angle variation devices also 22.5°, 25°, 35°, 37.5° or 45°.

- ✓ **Fast and efficient.**
- ✓ **Bevels both small and large pieces to cover most of the common applications for its type.**
- ✓ **Auto feed on large plates with optional trolley.**
- ✓ **Beveling of lower edge in inverted position.**
- ✓ **2 optional shearing cutters dedicated to carbon steel and to aluminum.**
- ✓ **Standard shearing cutter for machining stainless/alloied steel.**
- ✓ **Reversible spindle against stuck milling tool.**
- ✓ **Versatile and transportable on its own trolley.**
- ✓ **Low noise.**



Check out the
SteelBeast® ABM-14
online and enquire today!



SteelBeast® ABM-14

WHY CHOOSE THE STEELBEAST® ABM-14?

Fast, efficient and quiet. There is no need to wear acoustic protection equipment because the noise produced by the machine does not exceed 70 dB. In the case of the cutting tool getting stuck in the material and beveling cannot be continued the direction of rotation of the tool can be reversed to release the machine from the workpiece.

Want to make sure the 'ABM-14 Plate and Pipe Beveller' is right for you? Speak to our specialist solutions team today.

Model	ABM-14
Weight	65 kg (144 lbs)
Voltage	3 - 400 V + PE, 50-60 Hz
Spindle Speed	9 RPM (for 50 Hz); 11 RPM (for 60 Hz)
Bevel angle Range	30°. 22.5°, 25°, 35°, 37.5°, 45° (options)
Bevel Width	Up to 14 mm (9/16")
Maximum Bevel in one single run	12 mm (In 40 kg/ 392 MPa carbon steel)
Minimum plate thickness	6 mm (1/4")
Maximum plate thickness	40 mm (1-9/16")
Minimum plate width	55 mm (2-3/16")
Bevel length per minute	2.6 m (8.5 ft) for 50 Hz; 3.1 m (10.2 ft) for 60 Hz
Minimum Pipe ID	100 mm (4")
Product Code:	ABM14

STEELBEAST®

STEELBEAST® ABM-30

AUTO FEED TRACKLESS BEVELLER

The ABM-30 features an infinitely adjustable bevel angle between -70 and +70 degrees and is capable of producing bevels up to 30 mm wide. This also allows for facing in both directions with the milling head depth of 1 mm.

- ✓ Needs no track to travel in both directions with feed speed up to 2 m/min .
- ✓ Edge to Edge working range.
- ✓ Bevel width up to 30 mm (1-3/16").
- ✓ Innovative, robust chip protection solution.
- ✓ 4 wheels feed drive eliminates hard physical work of the operator.
- ✓ Semi-automatic feed stop at end of the metal sheet.
- ✓ Variable angle (-70°+70)°.
- ✓ Produces double-side bevels without having to flip the plate enhancing safety and reducing material handling time and expense.
- ✓ Variable spindle speed.
- ✓ Max. plate thickness up to 60 mm.



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Check out the
SteelBeast® ABM-30
online and enquire today!



SteelBeast® ABM-30

WHY CHOOSE THE STEELBEAST® ABM-30?

The ABM-30 portable beveling machine from SteelBeast performs auto-feed beveling on steel plates on the top, face and bottom edges. This beveller doesn't need a track to move along the steel plate yet still produces accurate high-quality, double-sided bevels without thermal distortion or heat-affected zones on plate thicknesses ranging from 8-60 mm.

Want to make sure the 'ABM-30' is right for you? Speak to our specialist solutions team today.

Voltage	1- 200-240 V, 50/60 Hz 1- 110-120 V, 50/60 Hz
Power	2200 W
Spindle Rotational Speed (without load)	1800-5650 rpm
Feed Speed	0-2 m/min (0-6.5 ft/min)
Bevel Angle (β, Fig. 1)	From -70° to 70°
Maximum Bevel Width (b, Fig.1)	30mm (1.18")
Sheet Thickness	8-60mm (0.3-2.3")
Required Ambient Temperature	5-40°C
Weight	53kg (116.8 lbs)



Have any questions? Feel free to get in touch or contact your local distributor.

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STEELBEAST®

STEELBEAST® ABM-50

ABM50 produces accurate high-quality, double-sided bevels without thermal distortion or creation of a heat-affected zone on plate thickness range 8-80 mm (5/16" - 3 1/8"), using a purpose-designed bevelling head with eight 4-sided indexable cutting inserts. Continuously adjustable bevel angle between 15 and 60 degrees (for both top and bottom beveling) requires no tooling to change.

- ✓ Versatile and transportable on its own trolley.
- ✓ Equipped with milling head including 8 replaceable inserts.
- ✓ Feedback-controlled overload system.
- ✓ Auto-feed portable beveling.
- ✓ Heavy duty auto feed bevelling machine.

- ✓ 180° inversion allows for creation of a double-sided bevel - no need to rotate or flip heavy materials reduces material handling costs and improves shop safety.

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Check out the
SteelBeast® ABM-50
online and enquire today!



SteelBeast® ABM-50

WHY CHOOSE THE STEELBEAST® ABM-50?

With unique remote control with lcd display the ABM-50 shows exact bevel geometry as well as enables precise adjustment of spindle speed and feed speed to optimize them depending on material grade incl. stainless steel, aluminum etc. The ABM-50 can perform beveling along steel plate's edge eliminating hard physical work of the operator. The maximum bevel at 45 degrees is up to 50 mm (2").

Want to make sure the 'ABM-50 AUTO FEED DOUBLE SIDED BEVELLER' is right for you? Speak to our specialist solutions team today.

Model	ABM50
Weight	320 kg (700 lbs)
Power	6.5 kW
Spindle Speed (No Load)	300-800 RPM
Feed Speed	0 - 1.2 m/min (47" /min)
Bevel Angle	15 - 60°
Maximum Bevel Width	50 mm (2")
Maximum Depth of Cut	6 mm (1.4")
Plate Thickness	8-80 mm (5/16" - 3 1/8")
Required Ambient Temp	0-40°C (34 - 104°F)
Voltage	3- 400 V + PE, 50/60 Hz 3- 480 V + PE, 50/60 Hz



STEELBEAST®

STEELBEAST® SBM-500

STATIONARY BEVELLING MACHINE

Stationary beveller for machining straight edges of different size workpieces.

- ✓ Workpiece height up to 100 mm.
- ✓ Powerful 7500w motor.
- ✓ 3D contact wheel control ensures proper workpiece alignment in relation to milling head.
- ✓ Ergonomic ball roller bench.
- ✓ Swarf drawer.
- ✓ Supplementary tables to accommodate long workpieces.
- ✓ Pipe beveling attachment for pipes 50-150 mm (2-6") OD.

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Check out the
SteelBeast® SBM-500
online and enquire today!



- ✓ Very high surface quality.
- ✓ Continuous adjustment of spindle speed and feed rate make it suitable for different types of steel and aluminium.
- ✓ Precise setting of bevel angle from 15 up to 60 degrees and bevel width up to 30 mm.
- ✓ High speed rotary milling head equipped with 10 inserts.
- ✓ Cutting inserts dedicated to various materials.
- ✓ No heat affected zones or distortion of the workpiece.

SteelBeast® SBM-500

WHY CHOOSE THE STEELBEAST® SBM-500?

Stationary beveller for machining straight edges of different size workpieces. Modern design, numbers of advanced control systems and innovative solutions streamlines workflow to maximize your production efficiency.

Want to make sure the 'SBM-500' is right for you? Speak to our specialist solutions team today.

Model	SBM500
Weight	850 kg
Power	7500 W
Spindle Speed (No Load)	500-2920 RPM
Feed Rate	Up to 3.3m/min
Feed by Contact Wheel	YES
Bevel Angle Range	15 - 60° with continuous angle adjustment
Bevel Width	up to 30 mm
Milling Head with 10 Inserts	YES
Min. Dimensions of a bar	50 x 150 x 3mm
Max. Workpiece Height	Up to 100 mm
Voltage	3- 400 VAC + N+PE, 50/60 Hz



Have any questions? Feel free to get in touch or contact your local distributor.

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STEELBEAST® STEELBEAST® PB2



Check out the SteelBeast® PB2 online and enquire today!



Battery drive

Pneumatic motor

Electric motor

Model	PB2-E	PB2-A
Weight	7.4 kg (16.5 lbs)	7.6 kg (17 lbs)
Air Consumption	- - -	1400 l/min (50 CFM)
Air Requirement	- - -	0.6 MPa (87 psi)
Pipe Dia Range	22 mm ID - 48 mm OD 15.5 mm ID - 30 mm OD 42 mm ID - 60.3 mm OD	22 mm ID - 48 mm OD 15.5 mm ID - 30 mm OD 42 mm ID - 60.3 mm OD
Power	1100 W	800 W
Connection	Electrical Plug	CEJN 410 DN 10.4 R 1/2" BSPT Fitting for quick-coupling
Rotational Speed	10-134 RPM (gear 1) 30-377 RPM (gear 2)	150 RPM
Maximum pipe wall thickness	8 mm 3.5 mm	8 mm 3.5 mm
Voltage	1 - 200-240 V, 50-60 Hz	- - -

STEELBEAST® STEELBEAST® PB5A/PB5E



Check out the SteelBeast® PB5A/PB5E online and enquire today!



FEATURES AND BENEFITS:

- ✓ 32mm ID to 114mm OD capacity.
- ✓ Carbide tooling available for bevel angles 0°, 10°, 15°, 20°, 30°, 37.5° or 45 and j bevelling.
- ✓ Available with powerful pneumatic motor (model PB5A) or high torque electric motor (model PB5E).
- ✓ Ideal for working in space restricted areas.
- ✓ Optional accessories and full range of tooling available.

Model	PB5/E	PB5/A
Weight	11kg (24lbs)	10kg (22lbs)
Speed (RPM)	Gear 1 - 0 to 90 RPM Gear 2 - 0 to 300 RPM	90
Air Requirement	- - -	0,6 MPa (87 PSI)
Pipe Dia Range	32 ID - 114 OD	32 ID - 144 OD
Max Wall Thickness	12 mm	12 mm
Pneumatic Drive	- - -	800 W
Electric Motor	1100 W	- - -
Voltage	110V / PART NO. PB5E/1 240V / PART NO. PB5E/2	PART NO. PB5/A

STEELBEAST® STEELBEAST® PB10A/PB10E



Check out the SteelBeast® PB10A/PB10E online and enquire today!



FEATURES AND BENEFITS:

- ✓ 84mm ID to 269mm OD standard capacity.
- ✓ Optional attachment to increase capacity to 349mm OD.
- ✓ Carbide tooling available for bevel angles 0°, 10°, 15°, 20°, 30°, 37.5° or 45 and j bevelling.
- ✓ Available with powerful pneumatic motor (Model PB10A) or high torque electric Motor (model PB10E).
- ✓ Optional accessories and full range of tooling available.

Model	PB10-E	PB10-A
Weight	35,9 kg	33 kg
Speed (RPM)	Gear 1 - 12-29 Gear 2 - 41-96	90
Air Requirement	- - -	1750l/Min (87 PSI)
Pipe Dia Range	84 ID - 269 OD Up to 349 mm	84 ID - 269 OD Up to 349 mm
Max Wall Thickness	15 mm	15 mm
Pneumatic Drive	- - -	1800 w
Electric Motor	1800 w	- - -
Voltage	110V / Part no. PB10E/1 240V / part no. PB10E/2	part no. PB10/A



GRINDING AND NOTCHERS

STEEL BEAST®

INDUSTRIAL BELT GRINDERS

**HEAVY DUTY AND DURABLE
WITH EXTRACTION**

For rapid metal removal, GRIMAX Grinding solutions, manufactured in Denmark are up for the job. With built-in options available, these premium grinders are prepared for handling a variety of working environments.

- ✓ Solid cast construction for the industrial environment.
- ✓ Heavy duty contact wheel. Premium rubber coated to absorb pressure to the grinding surface.
- ✓ Built-in motor safety break, motor comes to a complete stop within 5 seconds of stopping the machine.
- ✓ Quick belt change without the need of tooling.
- ✓ Supplied fully assembled.
- ✓ Manufacturers five year warranty.
- ✓ Available with optional dust extraction (see BG75X & BG150X), a built in system to keep work area free of steel.

Check out the
SteelBeast® BG75X
online and enquire today!



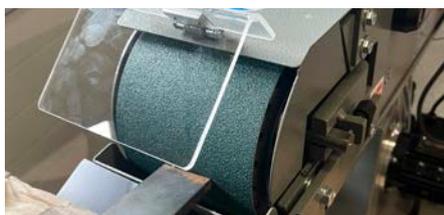
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Model	JEIBG-75	JEIBG-75X	JEIBG-150	JEIBG-150X
Belt Size (mm)	75 x 2000	75 x 2000	150 x 2000	150 x 2000
Motor 3phs x 380-440v 50hz	4.1 hp	4.1 hp	4.8 hp	4.8 hp
RPM	3000	3000	3000	3000
Belt Speed (meters per second)	30	30	30	30
Contact Wheel	Ø200x75	Ø200x75	Ø200x150	Ø200x150
Top Grinding Surface	540mm	540mm	540mm	540mm
Fan Motor (extraction version)	- - -	0.5 hp	- - -	0.5 hp
Weight	85kg	111kg	114kg	140kg
Dimensions (mm)	1000x500x1000	1000x500x1000	1100x550x1055	1100x550x1055



BG75X & BG150X with
extraction



Contact wheel for rapid
stock removal



Top grinding surface

Have any questions? Feel free to get in touch or
contact your local distributor.

JEI Solutions



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STEELBEAST®

INDUSTRIAL FLOOR GRINDER

AN IDEAL PORTABLE SOLUTION FOR LARGE AND HEAVY ITEMS THAT CANNOT BE LIFTED/MOVED TO THE GRINDER

Scantool Industrial floor belt grinders are the ideal portable solution to remove material from large and heavy steel plates which can not be moved from a stationary position. they have proved particularly useful in industries such as shipyards and wind turbine production.

- ✓ Used, among others in shipyards and in the windmill industry for grinding of welds in floor heights.
- ✓ Allows the operator to stand up and grind in floor level. Operating handle is height adjustable and can customize any person.
- ✓ Possible to use the full width of the grinding belt, although the floor is uneven.
- ✓ 2 models available; 75mm and 150mm belt width.



Check out the SteelBeast® Floor Grinders online and enquire today!



SteelBeast® Industrial Floor Grinder

WHY CHOOSE THE STEELBEAST® FLOOR GRINDERS?

On the SteelBeast® Floor Grinders, the operating handle is height adjustable and can be customised for height of person. The pressure from the floor belt grinders are also adjustable and at the same time it is possible to adjust the belt grinding surface, so you can always use the full width of the grinding belt, although the floor is uneven.

Want to make sure the 'Floor Grinders' are right for you? Speak to our specialist solutions team today.

Model	SCANTOOL 75FG	SCANTOOL 150FG
Voltage	3x400V-50 Hz	3x400V-50 Hz
Rpm	3000	3000
Motor (HP)	5,5	7,5
Wheel size, Drive wheel (ø mm)	200x75x28	200x75x28
Wheel size, Contact wheel (ø mm)	200x75x20	200x150x42
Grinder Belt (mm)	75x2000	150x2000
Grinding table (mm)	477	477
Number of spindle speeds	1	1
Length (mm)	2000	365
Width (mm)	710	605
Height (mm)	1000	1965
Net weight (kg)	70	90



STEELBEAST® STEELBEAST® PN100

Notches all steel tubes, pipes and sections from 20mm to 76mm diameter.

Check out the SteelBeast® PN100 online and enquire today!

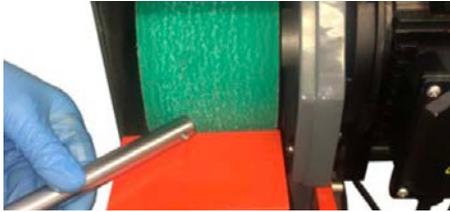


UK
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FEATURES AND BENEFITS:

- ✓ Any diameter from 20mm – 76mm.
- ✓ Angle range 0 to 60 degrees.
- ✓ Dual speed motor, designed to cope with stainless, aluminium or mild steel tubes.
- ✓ Quick roller and belt change without the need of tooling.
- ✓ Additional top grinding surface for light deburring.
- ✓ Rear hatch for additional grinding.
- ✓ Multi positioning stop bar for repetitive notching.
- ✓ Grinder roller height adjustment for off set notching.
- ✓ Complete with handy roller storage rack to hold up to 8 grinding rollers.
- ✓ Supplied as standard with 1 no. 42, 4mm grinding roller plus belt.

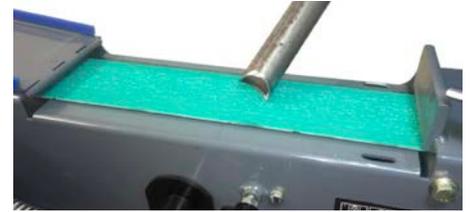
Model	JEI-PN100
Belt Size	100 x 2000mm
Motor	3phs 380-440v
Belt Speed	15/30 mtrs per sec
Tube Capacity	Ø20 - 76mm
Angle Range	0 to 60°
Weight	215kg
Dims L x W x H	1200x650x1070mm



Handy rear hatch for additional grinding



Includes storage for 8 grinding rollers



Top grinding surface for light deburring

STEELBEAST® ALMI HAND NOTCHERS

ALMI pipe notchers offer quick, clean operations for both light and intensive uses. Easy-to-use and durable with rapid output, the ALMI range is the clear-cut choice for use in the workshop or on-site.

Check out the SteelBeast® Hand Notchers online and enquire today!



UK
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FEATURES AND BENEFITS:

- ✓ For joining pipe at 90°.
- ✓ Simple fast operation.
- ✓ Several diameters available.
- ✓ 4mm maximum wall thickness.
- ✓ Also available for V notch (ALU).

Model	ALU	AL1	AL2	AL3
Weight	7kg	8kg	15kg	15kg
Outer Ø of Tube	---	27.9 / 38.4 / 42.8mm	49.0 / 61.0mm	42.8 / 49mm
Outer Ø of Sink Outflow	27 - 61mm Ø	---	---	---



STEELBEAST®

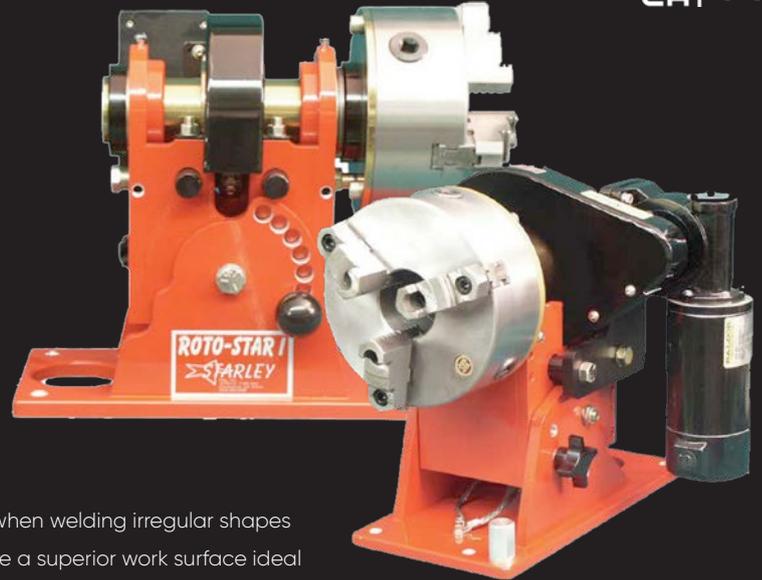
ROTO-STAR WELDING POSITIONERS

DESIGNED TO HOLD TUBE AND PIPE FOR WELDING

Roto-Star machines equipped with surface plates add versatility when welding irregular shapes and materials. Made from solid aluminium, Roto-Star plates provide a superior work surface ideal for most welding applications. All have reference rings for quick part positioning and tapped holes for secure clamping. 12" and 16" diameters are available for ROTO1 & ROTO3 respectively.

- ✓ Available with a three jaw chuck or surface plate to hold a wide range of parts.
- ✓ Heavy duty construction which supports pieces up to 125kg.
- ✓ Unique through spindle to accommodate any length of material up to 63.5mØ.
- ✓ Dual grounding system ideal for aluminium or stainless steel welding.
- ✓ Variable speed control.
- ✓ Available with optional variable speed foot pedal, for greater control hands free operation.

Check out the
SteelBeast® Roto-Star
online and enquire today!



SteelBeast® Roto-Star

WHY CHOOSE THE ROTO-STAR?

The Roto-Star 1 is a high precision rotary welding positioner with a three jaw chuck designed to hold tubes and pipes for welding.

Featuring a 6" (153mm) 3 jaw chuck with a thro' spindle 1-1/2" diameter to suit any length of tube or pipe.

Want to make sure the 'Roto-Star 1' is right for you? Speak to our specialist solutions team today.

Model	ROTO-STAR I	ROTO-STAR III	ROTO-STAR 1-P (with plate)	ROTO-STAR III-P (with plate)
Shipping Weight	30kg	45kg	22.5kg	32.5kg
Chuck	152mm	203mm	---	---
Swing @ 0° (max)	406mm	508mm	406mm	508mm
Vertical weight capacity	100kg	125kg	100kg	125kg
Horizontal weight capacity	50kg	75kg	50kg	75kg
Thru spindle part capacity	38.1mm	63.5mm	---	---
Spindle rotation	360°	360°	360°	360°
Spindle speed	0-15 RPM	0-8 RPM	0-15 RPM	0-8 RPM
Angle adjustment*	0 - 90°	0 - 90°	0 - 90°	0 - 90°
Grounding capacity	300A	300A	300A	300A
Optional rotary table	304 mm Ø	406 mm Ø	---	---
Fixed rotary table	---	---	304 mm Ø	406 mm Ø
Voltage	110v or 240v	110v or 240v	110v or 240v	110v or 240v



STEEL BEAST®

WELDING AND CUTTING AUTOMATION

A COMPLETE RANGE OF SOLUTIONS TO PRODUCE CONSISTENT HIGH QUALITY WELDS & CUTS



MINI SPIDER

PORTABLE MINI FILLET WELDER

For complete information visit our website.



GECKO

PORTABLE MINI FILLET WELDER

For complete information visit our website.



GECKO BATTERY

BATTERY OPERATED MINI FILLET WELDER

For complete information visit our website.



LIZARD

PORTABLE PROGRAMMABLE WELDING CARRIAGE

For complete information visit our website.



RAIL BULL

WITH OSCILLATION

For complete information visit our website.



DRAGON

CUTTING TRACK CARRIAGE

Available for plasma or oxy-fuel cutting.



RAIL TUG

WELDING & CUTTING CARRIAGE

For complete information visit our website.



OSC-8

DESIGNED TO OSCILLATE MIG/MAG TORCHES

For complete information visit our website.



RAIL TITAN

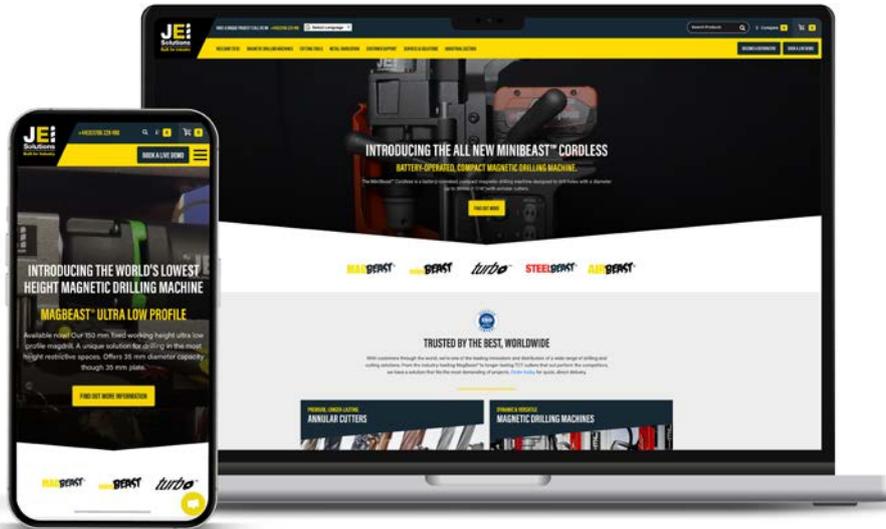
MODULAR TIG-MIG-MAG WELDING & CUTTING

For complete information visit our website.

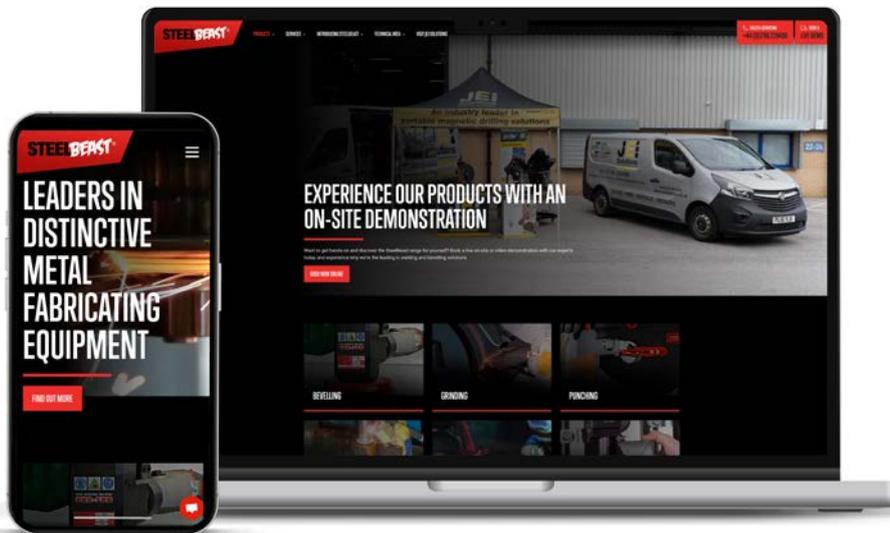


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