

## Turbo Steel

Turbo Steel is JEI's leading high quality fully CNC ground M2 cutter. With a geometry designed to give you fast accurate holes with the benefit of great tool life. A low vibration cutting edge provides stable free cutting action which reduces tool wear. Each tool is hardened to 62-63 ROC so it is able to drill up to 750N/mm<sup>2</sup>.

In tests, our Turbo annular broaching cutters proved to be the most cost effective available to the market today.

Size Range	10.5mm - 115mm Ø
Cutting Depths	1", 2", 3", 4", 6"
Max. Tensile Strength	<750RM (N/mm <sup>2</sup> )
Ideal for	Most mild and structural steel



Also available as a countersinking tool

### Turbo Steel Advantages

- Cuts 3 time quicker than a conventional twist drill
- Increases machine capacity
- Produces a quality burr free hole
- Eliminates time consuming pilot holes and step drilling
- Resharpenable cutting edges

## Turbo Tough

The JEI Turbo Tough (TCT) cutter is designed to drill a variety of materials from mild steel to cast iron. Made from micro grain carbide powder combined with a cobalt binding agent, its teeth have a super strong structure which provides exceptional tool life. The special Turbo Tough geometry gives even tooth loading for a vibration free cut. This special geometry allows holes up to 200mm achieving the best drilling experience with our MagBeast 4 & 5 portable magnetic drilling machines.

Size Range	12mm - 200mm Ø
Cutting Depths	1", 2", 3", 4", 6"
Max. Tensile Strength	<1200RM (N/mm <sup>2</sup> )
Ideal for	Mild steel, cast iron and structural steel



Also available as a countersinking tool

### Turbo Tough Advantages

- Heavy duty carbide tips and multiple edge geometry improves production time
- Added reliability for challenging on site drilling applications
- Ideal for bridge construction and refits
- Resharpenable cutting edges

## Turbo Endurance

Turbo Endurance has an innovative coating offering extensive tool life, allowing you to drill a wide range of challenging materials.



Size Range	10.5mm - 52mm Ø
Cutting Depths	1", 2"
Max. Tensile Strength	<1000RM (N/mm <sup>2</sup> )
Ideal for	Mild steel, stainless steel, some cast iron and exotic materials

## Turbo Rail

Turbo Rail is specifically manufactured for cutting rail track. Using the latest ENDURANCE coating technology this rail cutter provides unrivalled tool life. With increased surface hardness, Turbo Rail can tackle the world's toughest rail material. In tests with Balfour Beatty Rail, the JEI Turbo Rail, consistently tripled their current tool life.



Size Range	13.5mm - 36mm Ø
Cutting Depths	1"
Max. Tensile Strength	<1600RM (N/mm <sup>2</sup> )
Ideal for	All types of rail track drilling

## Turbo Endurance+

### The World's Toughest Cutter!

Turbo Endurance+ cutters are designed and manufactured by JEI to drill holes in the world's toughest materials. The super tough PVD (physical vapour desposition) coating provides unrivaled surface hardness, friction free cutting face and better heat transfer at the surface. These great benefits allow the Turbo Endurance+ to drill through Hardox, Weldox, Abro, Armour Plate and Duplex as if was mild steel. With fantastic tool life, the Turbo Endurance+ saves time and money for the user on every occasion.

Size Range	12mm - 200mm Ø
Cutting Depths	1", 2", 3", 4", 6"
Max. Tensile Strength	<1600RM (N/mm <sup>2</sup> )
Ideal for	The toughest materials

#### Turbo Endurance+ Advantages

- Cuts where no cutter has cut before!
- Specifically designed to cut through difficult and questionable materials
- Reduces down time
- Increased productivity
- A must for every site worker's tool box



Also available as a countersinking tool



## Cutter Sets



### Turbo Steel Annular Cutter Sets

PART NUMBER	DESCRIPTION
JEICS-SET5	5 Pc Cutter Set, consisting of 1 of each 14mm,16mm,18mm,20mm, 22mm Short series Turbo Steel Cutters plus Pilot Pin in a Plastic Case
JEICL-SET5	5 Pc Cutter Set, consisting of 1 of each 14mm,16mm,18mm,20mm, 22mm Long series Turbo Steel Cutters plus Pilot Pin in a Plastic Case
JEICS-SET15	5 Pc Cutter Set, consisting of 1 of each 9/16",11/16",13/16",15/16", 1-1/16" Short series Turbo Steel Cutters plus Pilot Pin in a Plastic Case
JEICL-SET15	5 Pc Cutter Set, consisting of 1 of each 9/16",11/16",13/16",15/16", 1-1/16" Long series Turbo Steel Cutters plus Pilot Pin in a Plastic Case



### 11 piece Turbo Steel Annular Cutter Sets

PART NUMBER	DESCRIPTION
JEICS-SET11	11 Pc Cutter Set, consisting of 1 of each 12mm,13mm,14mm,15mm, 16mm,18mm,20mm,22mm,24mm,25mm and 26mm Short Series Turbo Steel Cutters plus Pilot Pin in a Plastic Case
JEICL-SET11	11 Pc Cutter Set, consisting of 1 of each 12mm,13mm,14mm,15mm, 16mm,18mm,20mm,22mm,24mm,25mm and 26mm Long Series Turbo Steel Cutters plus Pilot Pin in a Plastic Case



### Turbo Tough Annular Cutter Sets

PART NUMBER	DESCRIPTION
JEITCS-SET5	5 Pc Cutter Set, consisting of 1 of each 14mm,16mm,18mm,20mm 22mm Short series Turbo Tough Cutters plus 2 x Pilot Pins in a Plastic Case
JEITCL-SET5	5 Pc Cutter Set, consisting of 1 of each 14mm,16mm,18mm,20mm 22mm Long series Turbo Tough Cutters plus 2 x Pilot Pins in a Plastic Case



### Turbo Endurance Annular Cutter Sets

PART NUMBER	DESCRIPTION
JEIECS-SET5	5 Pc Cutter Set, consisting of 1 of each 14mm,16mm,18mm,20mm, 22mm Short series Turbo Steel Cutters plus Pilot Pin in a Plastic Case
JEIECL-SET5	5 Pc Cutter Set, consisting of 1 of each 14mm,16mm,18mm,20mm, 22mm Long series Turbo Steel Cutters plus Pilot Pin in a Plastic Case



### Turbo Endurance+ Annular Cutter Sets

PART NUMBER	DESCRIPTION
JEIETCS-SET5	5 Pc Cutter Set, consisting of 1 of each 14mm,16mm,18mm,20mm 22mm Short series Endurance Plus Cutters plus 2 x Pilot Pins in a Plastic Case
JEIETCL-SET5	5 Pc Cutter Set, consisting of 1 of each 14mm,16mm,18mm,20mm 22mm Long series Endurance Plus Cutters plus 2 x Pilot Pins in a Plastic Case



### 50 piece Cutter Display Set

PART NUMBER	DESCRIPTION
JEICS-SET50	50 Pc Cutter Display Including 6 x 12mm 6 x 14mm, 6 x 16mm, 6 x 18mm, 6 x 20mm, 6 x 22mm, 6 x 24mm, 4 x 26mm, 2 x 28mm, 2 x 30mm Turbo Steel Short Cutters plus 20 x Short Pilot Pins
JEICL-SET50	50 Pc Cutter Display Including 6 x 12mm 6 x 14mm, 6 x 16mm, 6 x 18mm, 6 x 20mm, 6 x 22mm, 6 x 24mm, 4 x 26mm, 2 x 28mm, 2 x 30mm Turbo Steel Long Cutters plus 20 x Long Pilot Pins

A convenient and informative Point of Sale Display Set, Designed to hold 50 Cutters



## Twist Drills

For drilling smaller diameter holes as an extension to the JEI cutter range. Ideal for MiniBeast.

PART NUMBER	TWIST DRILL SIZE (On a standard 19mm shank) Set includes 6, 8, 10 & 12mm
JEITD-SET	
JEITD-06	6mm
JEITD-07	7mm
JEITD-08	8mm
JEITD-09	9mm
JEITD-10	10mm
JEITD-11	11mm
JEITD-12	12mm



## Pilot Pins (Centre Pins)



PART NUMBER	DESCRIPTION/SIZE
JEIPIN1213S	1" depth (4mm dia)
JEIPILOT1	1" depth (6mm dia)
JEIPILOT1/8MM	35mm depth (8mm dia)
JEIPIN1213L	2" depth (4mm dia)
JEIPILOT2	2" depth (6mm dia)
JEIPILOT2/8MM	2" depth (8mm dia)
JEIPILOT3	3" depth (6mm dia)
JEIPILOT3/8MM	3" depth (8mm dia)
JEIPILOT4	4" depth (6mm dia)
JEIPILOT4/8MM	4" depth (8mm dia)
JEIPILOT6	6" depth (6mm dia)
JEIPILOT6/8MM	6" depth (8mm dia)

Pilot Pins are used as a central focal point when positioning a mag drill on pre-marked steel. Also used for ejecting the slug from the centre of the cutter when hole is drill. The pilot pin also retracts into the arbor allowing the coolant to flow to the inside of the cutting teeth, extending tool life.

## Vacuum Pad

Allows magnetic drilling machines to operate on non-ferrous material to effectively drill on non-magnetic, or thin surfaces.

- Requires compressed air pressure.
- Suits all models of JEI drilling machines.



PART NUMBER	TO SUIT
JEIENPAD	Flat surfaces

## Industrial Arbors

Easily converts a drill press, milling machine, lathe or CNC machine to accept cutters.



PART NUMBER	DESCRIPTION
JEIARBOR-2MT	2 morse taper arbor without coolant ring (19mm)
JEIARBOR-2MTC	2 morse taper arbor with coolant ring (19mm)
JEIARBOR-3MT	3 morse taper arbor without coolant ring (19mm)
JEIARBOR-3MTC	3 morse taper arbor with coolant ring (19mm)
JEIARBOR-3MT/32	3 morse taper arbor without coolant (1 1/4")
JEIARBOR-3MT/32C	3 morse taper arbor with coolant (1 1/4")
JEIARBOR-4MT	4 morse taper arbor without coolant ring (19mm)
JEIARBOR-4MTC	4 morse taper arbor with coolant ring (19mm)
JEIARBOR-4MT/32	4 morse taper arbor without coolant (1 1/4")
JEIARBOR-5MT/32	5 morse taper arbor without coolant (1 1/4")

N.B. Contact JEI for recommended feed speeds when using cutters with vertical drilling machines.

## Chuck & Adaptors

Easily converts JEI magnetic drilling machines to accept twist drills.



PART NUMBER	DESCRIPTION	TO SUIT
JEICA-13MM	Chuck & adaptor 13mm	HM40
JEICA-13MM/19	Chuck 13mm, complete with 19mm shank (expect MiniBeast*)	All JEI drills
JEICA-2MT	Chuck & adaptor 13mm, 2MT	MagBeast 2
JEICA-3MT	Chuck & adaptor 19mm 3MT	HM100, Max-3, Max-4 & MagBeast 4
JEIMTS-2-3	Morse taper sleeve 2-3	HM100/T/S
JEIMTS-3-4	Morse taper sleeve 3-4	MagBeast 4
JEIMTS-4-5	Morse taper sleeve 4-5	MagBeast 5

\*For MiniBeast please refer to Twist Drill Sets.

## Countersinks

Provide the ability to precision chamfer holes when using a magnetic drilling machine, supplied on a 19mm shank.



PART NUMBER	DESCRIPTION/SIZE
JEICSK-25	Turbo Steel Countersink, 25mm 90 degree
JEICSK-38.10	Turbo Steel Countersink, 38.10mm 82 degree
JEICSK-40	Turbo Steel Countersink, 40mm 90 degree
JEICSK-50	Turbo Steel Countersink, 50mm 90 degree
JEICSK-55	Turbo Steel Countersink, 55mm 60 degree
JEITCSK-50	Turbo Tough Countersink, 50mm 90 degree
JEIETCSK-50	Turbo Endurance+, 50mm 90 degree

## Cutter Extensions

Specifically designed to increase the overall cutting reach of cutter and magnetic drilling machines.



PART NUMBER	CUTTER EXTENSION SIZE
JEICE-25	25mm
JEICE-50	50mm
JEICE-75	75mm
JEICE-100	100mm
JEICE-150	150mm

Can be used individually or combined to achieve a greater length.

## Chain Base Kit

Enables your JEI machine to drill tube and pipes.

PART NUMBER	TO SUIT
JEICB-S (small)	Max-2, MagBeast 2, HM40
JEICB-L (large)	Max-4, MagBeast 4, HM100



## Mag Brushes

JEI Mag Brushes (magnetic brushes) are the quick and easy way to tidy up after drilling. Steel swarf is magnetised to the brush and a simple pull of the handle releases the swarf. Ideal for use in confined areas in workshops, site and on rail track ballast.



PART NUMBER	DESCRIPTION	DIMENSIONS (length x diameter x working length)
JEIMB-S	Mag Brush Mini (small)	240mm x Ø 16 x 102mm
JEIMB-M	Mag Brush Midi (medium)	385mm x Ø 25 x 175mm
JEIMB-L	Mag Brush Maxi (large)	1008mm x Ø 25 x 175mm

## Tapping Heads

Enables magnetic drilling machines to tap pre-drilled holes.



PART NUMBER	DESCRIPTION	TO SUIT
JEITAP-19	3 morse taper, premium reversing tapping head (up to 19mm)	Max-4
JEITAP-19/4	4 morse taper, reversing tapping head (up to 19mm)	MagBeast 4
JEITAP-24N	3 morse taper, non reversing tapping head (up to 24mm)	Max-3, HM100T
JEITAP-30R	3 morse taper, premium reversing tapping head (up to 30mm)	Max-4, HM100
JEITAP-30R /4	4 morse taper, premium reversing tapping head (up to 30mm)	MagBeast 4
JEITAP-50	5 morse taper, non reversing tapping head (up to 50mm)	MagBeast 5

## Turbo Tough

Magnetic Drill Performance Spray - 500ml

- for cutting, drilling, countersinking, tapping & reaming
- clean cut
- improved finish
- maximises tool life
- high results on tough material
- Includes an extra 100ml, previously sold as 400ml aerosol

Part No' JEIOIL-TTA



## Endurance+

Magnetic Drilling Paste for Overhead and Vertical Drilling - 500ml

- non drip
- functional
- maximum performance
- clean
- simple to use
- Includes an extra 100ml, previously sold as 400ml aerosol

Part No' JEIOIL-TEP



## Turbo Tough

Neat Cutting Oil - 1ltr

- use with TCT or M2 annular cutter
- increase performance when drilling tough materials
- ideal for drilling and tapping
- ensures positive slug ejection
- maximises productivity
- other sizes available

Part No' JEIOIL-NEAT



## Turbo Steel

Soluble Cutting Oil - 1ltr

- use with M2 annular cutter
- increases tool life
- ensures positive slug ejection
- maximises productivity
- reduces heat build up
- other sizes available

Part No' JEIOIL-SOL

