

# CUTTING TOOL SOLUTIONS

**JEI**  
Solutions  
.....  
Built for Industry

**TRUSTED BY THE BEST, WORLDWIDE.**



*turbo* **STEEL** *turbo* **TOUGH** *turbo* **ENDURANCE** *turbo* **ENDURANCE+** *turbo* **RAIL** *turbo* **RAIL+**

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# GUIDE TO OUR ANNULAR CUTTERS WHEN ONLY THE BEST WILL DO.

STRUCTURAL STEEL  
MILD STEEL  
ALUMINIUM

CAST IRON  
STAINLESS STEEL

RAIL TRACK

HARDOX  
WELDOX  
ARMOUR & ABRO PLATE

## turboSTEEL

High quality, fully CNC ground HSS cutter that provides the very best, optimum performance.



## turboTOUGH

Features triple tooth cutting geometry for the highest performance standards.



## turboENDURANCE

Fully CNC ground M2-AL cutter with an innovative coating for extensive tool life.



## turboENDURANCE+

Designed and engineered to tackle the world's toughest materials.



## turboRAIL

Manufactured specifically for delivering accuracy and efficiency for cutting rail track.



## turboRAIL+

For the most challenging rail track, featuring Endurance coating for unrivalled tool life.



< 900 RM

MAXIMUM TENSILE STRENGTH (N/MM<sup>2</sup>)

< 1600 RM





# turbo<sup>TM</sup> STEEL

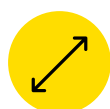
## HSS M2-AL



Steel Fabrication

### ULTIMATE IN PRECISION, QUALITY, AND LONGEVITY.

INCREASED HARDNESS AT THE CUTTING POINT REDUCES TOOL WEAR, ENABLING THE CREATION OF MORE HOLES COMPARED TO THE STANDARD M2 HSS.



**Size Range**  
10 mm - 65 mm Ø



**Cutting Depths**  
25 mm / 50 mm



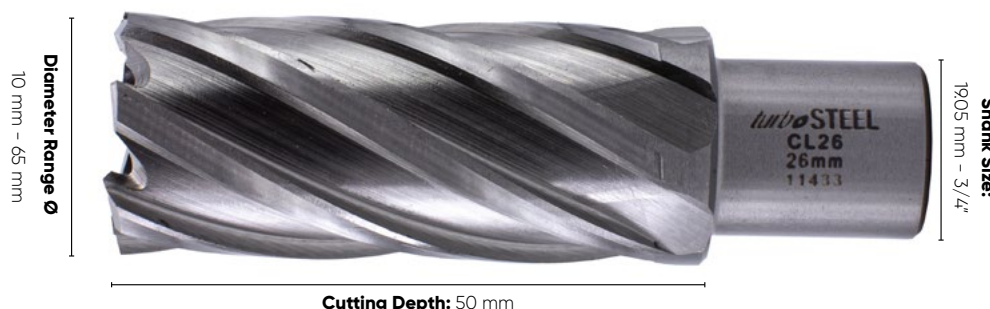
**Cutter Type**  
M2-AL (HSS)



**Perfect For**  
Aluminium, most mild,  
and structural steel



**For use with**  
Magnetic drilling  
machines



JEI's Turbo<sup>TM</sup> Steel features 2-step geometry.



Increased cutting power.



Reducing resistance.



Produces a finer nest of chips for improved swarf removal.



Increased tool life = more holes per cutter.



Reduced tool wear = produces a quality burr-free hole.

PART CODE	DEPTH OF CUT	AVAILABLE Ø IN 1MM INCREMENTS
JEICS**	1"	10-65 mm
JEICL**	2"	11-65 mm

\*\*Denotes diameter

Other sizes available on request.

### 3 PIECE FABRICATOR CUTTER SET

Part Number: JEICS-SET 3

**Includes:**

- 1 of each: 14, 18, & 22 mm X 25mm cutting depth.
- 1 Pilot pin.



### 5 PIECE HSS CUTTER SET

Part Number: JEICS-SET 5

**Includes:**

- 1 of each: 14, 16, 18, 20, & 22 mm X 25 mm cutting depth.
- 1 Pilot pin.



### 11 PIECE HSS CUTTER SET

Part Number: JEICS-SET 11

**Includes:**

- 1 of each: 12, 13, 14, 15, 16, 18, 20 & 22, 24, 25, & 26 mm X 25 mm cutting depth.
- 1 Pilot Pin





# turbo<sup>TM</sup> ENDURANCE

## M2-AL HSS COATED CUTTERS

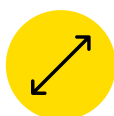
### 25MM & 50MM CUTTING DEPTH



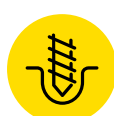
M2-AL HSS COATED

**UP TO 3 X MORE CUTTING LIFE THAN A STANDARD HSS CUTTER.**

A HIGH-QUALITY, CNC-GROUND M2-AL CUTTER FEATURES AN INNOVATIVE COATING THAT DELIVERS EXCEPTIONAL TOOL LIFE.



**Size Range**  
10 mm - 65 mm Ø



**Cutting Depths**  
25 mm / 50 mm



**Cutter Type**  
M2-AL Coated (HSS)



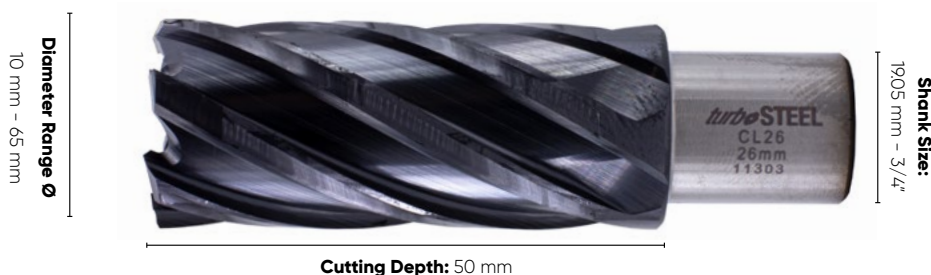
**Max. Tensile Strength**  
<1000RM (N/mm<sup>2</sup>)



**Perfect For**  
Aluminium, most mild, and structural steel with extended tool life



**For use with**  
Magnetic drilling machines



- ✓ 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.

PART CODE	DEPTH OF CUT	AVAILABLE Ø IN 1MM INCREMENTS
JEIECS**	1"	12-65 mm
JEIECL**	2"	12-65 mm

**\*\*Denotes diameter**

Other sizes available on request.



### 5 PIECE 25 MM ENDURANCE SET

**Part Number: JEIECS-SET 5**

**Includes:**

- 1 of each: 14, 16, 18, 20, & 22 mm X 25 mm cutting depth.
- Pilot pin to suit.



### 5 PIECE 50 MM ENDURANCE SET

**Part Number: JEIECL-SET 5**

**Includes:**

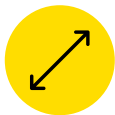
- 1 of each: 14, 16, 18, 20, & 22 mm X 50 mm cutting depth.
- Pilot pin to suit.

turbo<sup>TM</sup> ENDURANCE

# TUNGSTEN CARBIDE TIPPED CUTTERS

## ULTIMATE IN PRECISION, QUALITY, AND LONGEVITY.

ENGINEERED AND PRODUCED TO THE HIGHEST QUALITY STANDARDS, THIS TOOL DELIVERS MAXIMUM CUTTING PERFORMANCE ACROSS A WIDE RANGE OF MATERIALS, FROM STRUCTURAL STEEL TO CAST IRON.



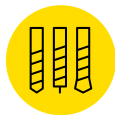
### Size Range

12 mm – 200 mm Ø



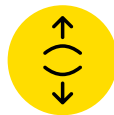
### Cutting Depths

40, 55, 80, 110, 150, & 200 mm



### Cutter Type

TCT



### Max. Tensile Strength

<1200RM (N/mm²)



### Perfect For

Mild, structural, and stainless steel, and cast iron.



### For use with

Magnetic drilling machines



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



### Hints and Tips!

When using a cutter above 65 mm diameter, the size of the shank increases. Ensure that you have the correct arbor. See JEI's Adaptor (Ref JEI-ADPT19/32) to adapt a standard 19 mm shank arbor to suit.



FOR THE BEST RESULTS, USE JEI'S RANGE OF CUTTING OILS AND LUBRICANTS. SEE PAGE 13.



## CUTTING OILS & LUBRICANTS

Part Number: JEIOIL-NEAT & JEIOIL-TTA

### Includes:

- Neat cutting oil.
- Cutting spray.

PART CODE	DEPTH OF CUT	Ø RANGE
JEITCS**	40 mm	12-70 mm
JEITCL**	55 mm	12-200 mm
JEITCX**	80 mm	12-120 mm
JEITCXL**	110 mm	18-120 mm
JEITCXXL**	150 mm	18-100 mm
JEITCXXXL**	200 mm	20-50 mm

\*\*Denotes diameter

Other sizes available on request.

\*\*\*Full range of Imperial sizes available

# THE FEATURES AND BENEFITS OF JEI'S 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 in reducing cutting resistance = less power required. Even tooth load = vibration-free cut. Smooth cutting action = increased cutting efficiency.



## Consistent, High-Quality Brazing of Tips

Providing each cutting edge with maximum support to prevent breakage.



## 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.



## CNC Machines 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 Machine.



## Hints and Tips!

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



## PILOT PINS

For more information and a full break down of pilot pins, please see page 12.



## 3 PIECE FABRICATOR CUTTER SET



**Part Number: JEITCS-SET 3**

### Includes:

- 1 of each: 14, 18, & 22 mm X 40 mm cutting depth.
- 2 Pilot pins.

## 5 PIECE TCT CUTTER SET



**Part Number: JEITCS-SET 5**

### Includes:

- 1 of each: 14, 16, 18, 20, & 22 mm X 40 mm cutting depth.
- 2 Pilot pins to suit.

## 11 PIECE TCT CUTTER SET



**Part Number: JEITCS-SET 11**

### Includes:

- 1 of each: 12, 13, 14, 15, 16, 18, 20, 22, 24, 25, & 26 mm X 40 mm cutting depth.
- 2 Pilot pins to suit.



turbo™ **ENDURANCE+**

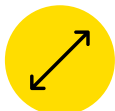
Heavy Plant



Mining

**ABRO, HARDOX, ARMOURED PLATE, & VRN 400.  
THE SUPER-COATED TCT CUTTER**

THE SUPER TOUGH COATING ON THE TURBO ENDURANCE+ CUTTER ENHANCES SURFACE HARDNESS, REDUCES FRICTION ON THE CUTTING FACE, AND IMPROVES HEAT TRANSFER. THESE PERFORMANCE ADVANTAGES ENABLE THE CUTTER TO EFFORTLESSLY TACKLE CHALLENGING MATERIALS LIKE HARDOX, WELDOX, ABRO, ARMORED PLATE, AND DUPLEX.



**Size Range**  
12 mm – 65 mm Ø



**Cutting Depths**  
40, 55 mm



**Cutter Type**  
Super Coated TCT



**Max. Tensile Strength**  
<1600RM (N/mm<sup>2</sup>)

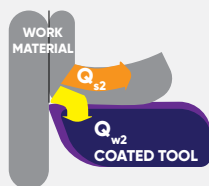


**Perfect For**  
Hardox, Weldox, Armoured Plate, Super Duplex, Aircraft Steel, and Abro Plate.



**For use with**  
Magnetic drilling machines

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



**HEAT FLOW, CHIP**  $Q_{s2} > Q_{s1}$   
**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.



PART CODE	DEPTH OF CUT	AVAILABLE Ø
JEIETCS**	40 mm	12–65 mm
JEIETCL**	55 mm	12–65 mm

**\*\*Denotes diameter**

Sizes up to 200 mm available on request.

**5 PIECE  
ENDURANCE+  
CUTTER SET**

**Part Number: JEIETCS-SET 5**

**Includes:**

- 1 of each: 14, 16, 18, 20, & 22 mm X 40 mm cutting depth.
- 2 Pilot pins to suit.

**Part Number: JEIETCL-SET 5**

**Includes:**

- 1 of each: 14, 16, 18, 20, & 22 mm X 55 mm cutting depth.
- 2 Pilot pins to suit.

# ANNULAR CUTTER SETS

EXPLORE EVEN MORE OF THE PREMIUM TCT AND HSS CUTTER RANGE AND SAVE MONEY WITH OUR FLEXIBLE CUTTER SETS. CHOOSE FROM OUR OFF-THE-SHELF CUTTER SETS OR CREATE YOUR OWN BY GETTING IN TOUCH WITH OUR TEAM TODAY.

## TURBO™ STEEL M2AL HSS CUTTER SETS

ITEM	INCLUDES	1" CUTTING DEPTH	2" CUTTING DEPTH
3 Piece HSS Starter Kit	14, 18, 22 mm & 1 pilot pin.	JEICS-SET3	JEICL-SET 3
5 Piece HSS Cutter Set	14, 16, 18, 20, 22 mm & 1 Pilot Pin.	JEICS-SET5	JEICL-SET 5
11 Piece HSS Cutter Set	12, 13, 14, 15, 16, 18, 20, 22, 24, 25, 26 mm & 1 pilot pin.	JEICS-SET11	JEICL-SET11

## TURBO™ ENDURANCE CUTTER SETS

ITEM	INCLUDES	1" CUTTING DEPTH	2" CUTTING DEPTH
3 Piece HSS Coated Starter Kit	14, 18, 22 mm & 1 pilot pin.	JEIECS-SET3	JEIECL-SET 3
5 Piece HSS Coated Set	14, 16, 18, 20, 22 mm & 1 Pilot Pin.	JEIECS-SET5	JEIECL-SET 5
11 Piece HSS Coated Set	12, 13, 14, 15, 16, 18, 20, 22, 24, 25, 26 mm & 1 pilot pin.	JEIECS-SET11	JEIECL-SET11

## TURBO™ TOUGH TCT CUTTER SETS

ITEM	INCLUDES	40mm CUTTING DEPTH	55mm CUTTING DEPTH
3 Piece TCT Starter Kit	14, 18, 22 mm & 2 pilot pins	JEITCS-SET3	JEITCL-SET 3
5 Piece TCT Cutter Set	14, 16, 18, 20, 22 mm & 2 Pilot Pins	JEITCS-SET5	JEITCL-SET 5
11 Piece TCT Cutter Set	12, 13, 14, 15, 16, 18, 20, 22, 24, 25, 26 mm & 2 pilot pins	JEITCS-SET11	JEITCL-SET11

## TURBO™ ENDURANCE+ CUTTER SETS

ITEM	INCLUDES	40mm CUTTING DEPTH	55mm CUTTING DEPTH
3 Piece TCT Hard Coated Starter Kit	14, 18, 22 mm & 2 pilot pins	JEIETCS-SET3	JEIETCL-SET 3
5 Piece TCT Hard Coated Cutter Set	14, 16, 18, 20, 22 mm & 2 Pilot Pins	JEIETCS-SET5	JEIETCL-SET 5
11 Piece TCT Hard Coated Cutter Set	12, 13, 14, 15, 16, 18, 20, 22, 24, 25, 26 mm & 2 pilot pins	JEIETCS-SET11	JEIETCL-SET11

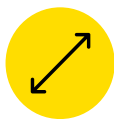
## TURBO™ TOUGH TCT HOLE SAW SETS

ITEM	INCLUDES	1" CUTTING DEPTH	2" CUTTING DEPTH
6 Piece TCT Holesaw Set	16, 18, 19, 20, 22, & 25 mm	JEIHS-SET6	JEIHL-SET 6



SPECIFICALLY MANUFACTURED FOR CUTTING RAIL TRACK QUICKLY AND EFFICIENTLY.

## HSS M2-AL



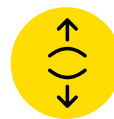
**Size Range**  
14 mm – 38 mm Ø



**Cutting Depth**  
25 mm



**Cutter Type**  
HSS M2-AL



**Max. Tensile Strength**  
<1900RM (N/mm<sup>2</sup>)

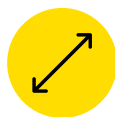


**Perfect For**  
Rail Track

- ✓ Designed for cutting holes in all types of Rail Track.
- ✓ Specially manufactured using high quality M2-AL 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.



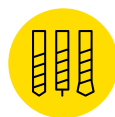
## TCT TOUGH



**Size Range**  
14 mm – 38 mm Ø



**Cutting Depth**  
25 mm



**Cutter Type**  
TCT Rail (Uncoated)

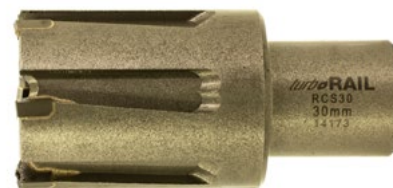


**Max. Tensile Strength**  
<1200RM (N/mm<sup>2</sup>)

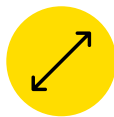


**Perfect For**  
Rail Track

- ✓ Cuts through the most challenging materials.
- ✓ Premium grade tungsten carbide teeth.
- ✓ Fewer tool changes = less down time.
- ✓ Low cost per hole ratio.



## TCT SUPER TOUGH



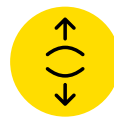
**Size Range**  
14 mm – 38 mm Ø



**Cutting Depth**  
25 mm



**Cutter Type**  
TCT Super Rail  
(Coated)



**Max. Tensile Strength**  
<1600RM (N/mm<sup>2</sup>)



**Perfect For**  
All types of Rail Track

- ✓ Cuts through the most challenging materials.
- ✓ Greater protection from heat build and surface softening.
- ✓ Super tough coating for unrivalled performance.
- ✓ Fewer tool changes = less down time.
- ✓ Low cost per hole ratio.



TYPE	PART CODE	DEPTH OF CUT	AVAILABLE Ø
HSS M2-AL	JEIRCSH**	25 mm	14–38 mm
TCT RAIL	JEIRCS**	25 mm	14–38 mm
TCT SUPER TOUGH	JEIRCSE**	25 mm	14–38 mm

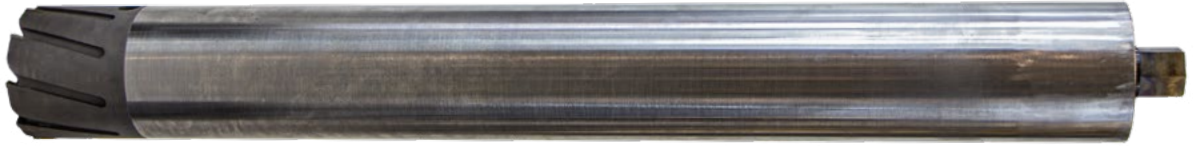
\*\*Denotes diameter



# BESPOKE CUTTING TOOL SOLUTIONS

## TAILOR MADE HOLE CUTTING SOLUTIONS

TURBO<sup>TM</sup> TAILORED IS JEI SOLUTIONS' UNIQUE IN-HOUSE CUTTING TOOL DESIGN AND MANUFACTURING SERVICE.



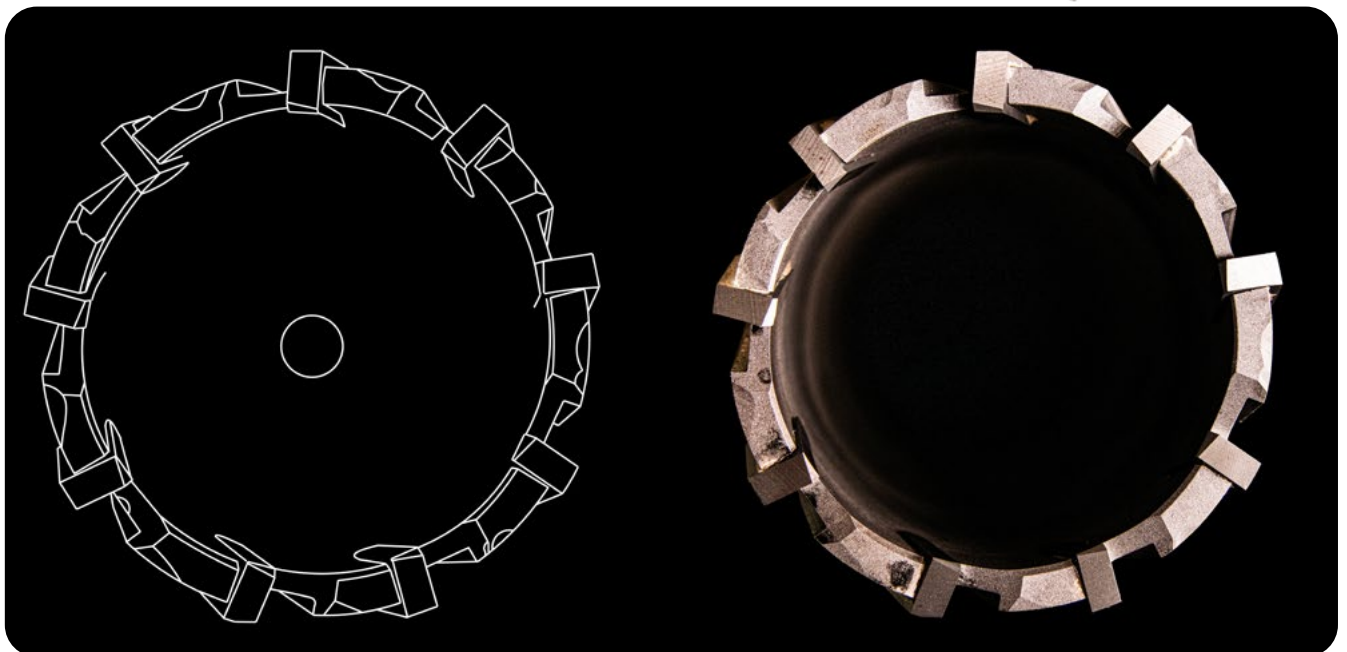
JEI Solutions provides customised cutting tool solutions for a diverse range of specialised applications across various industries. Our comprehensive Turbo<sup>TM</sup> cutter manufacturing service can be tailored to meet the unique requirements of our clients.

With our specialised design and production team, we can manufacture cutting tools that seamlessly integrate with our clients' existing drilling equipment or complement the JEI drilling range.

JEI Solutions has a proven track record of delivering expert hole cutting tool solutions for specialised projects in:

- Mining
- Nuclear
- Offshore
- Wind farm sectors

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

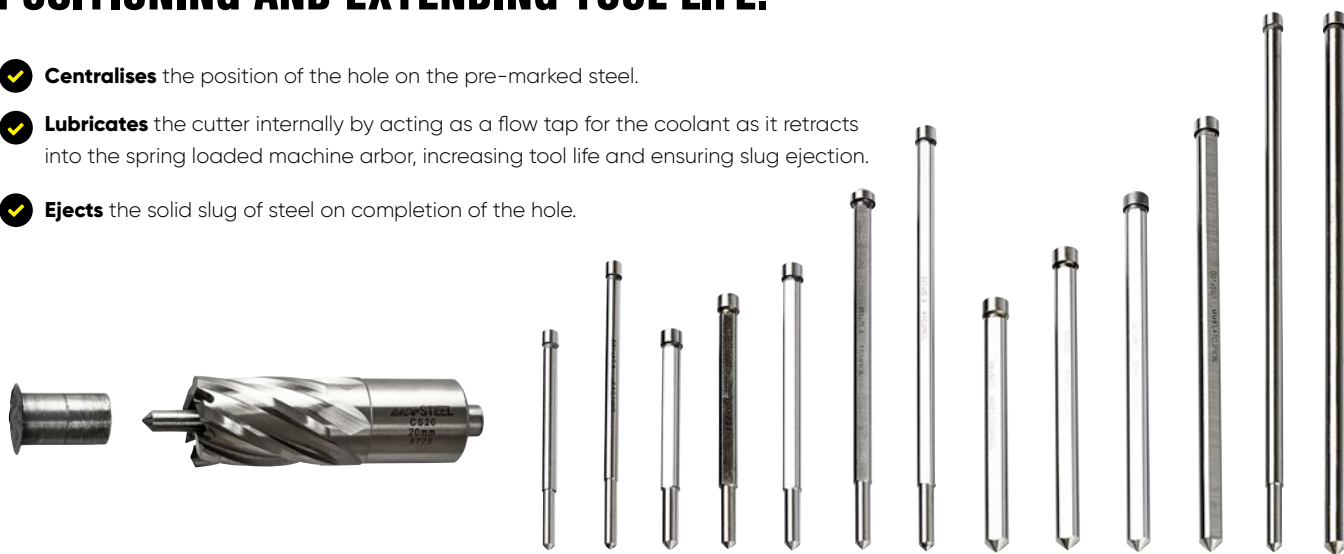


# PILOT PINS

**FULLY CNC GROUND TO ENSURE A PERFECT FIT AND POSITIVE SLUG EJECTION.**

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

- ✓ **Centralises** the position of the hole on the pre-marked steel.
- ✓ **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.
- ✓ **Ejects** the solid slug of steel on completion of the hole.



PART NUMBER	DESCRIPTION	USE WITH	WITH 32 MM ADAAPTOR
JEIPILOT1	77 mm Length 6.35 mm Ø	CS 10 to 65 mm Ø	N/A
JEIPILOT1/TCTS	90 mm Length 6.35 mm Ø	TCS up to 17 mm Ø	N/A
JEIPILOT1/8MM	90 mm Length 7.98 mm Ø	TCS from 18 mm to 65 mm Ø	N/A
JEIPILOT2	103 mm Length 6.35 mm Ø	CL up to 12 mm to 65mm TCL up to 17mm Ø	N/A
JEIPILOT2/8MM	103 mm Length 7.98 mm Ø	TCL from 18mm to 65mm Ø	N/A
JEIPILOT3	130 mm Length 6.35 mm Ø	TCX up to 17mm Ø	N/A
JEIPILOT3/8MM	130 mm Length 7.98 mm Ø	TCX from 18 mm to 65 mm Ø TCL from 66mm Ø without adaptor	N/A
JEIPILOT4/8MM	160 mm Length 7.98 mm Ø	TCXL from 18 mm to 65 mm Ø TCX from 66 mm Ø without adaptor	TCL from 66mm with Adaptor
JEIPILOT6/8MM	205 mm Length 7.98 mm Ø	TCXXL from 18 mm to 65 mm Ø TCXL from 66 mm Ø without adaptor	TCX & TCXL from 66 mm with Adaptor
JEIPILOT8/8MM	255 mm Length X 7.98 mm Ø	TCXXL up to 65 mm Ø	N/A

## DETACHABLE PILOT PINS

**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)	Ø	USE WITH JEI CUTTERS
JEIPILOT3/8MMD	130 / 80	7.98	Turbo Tough 80 mm D.O.C 20mm-66 mm Ø
JEIPILOT4/8MMD	157 / 107	7.98	Turbo Tough 110 mm D.O.C 20mm-66 mm Ø
JEIPILOT6/8MMD	221.5 / 174	7.98	Turbo Tough 150 mm D.O.C 20mm-66 mm Ø



# 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 CUTTING TOOLS.



## **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	Soluble Cutting Oil (dilutes 20:1, 1L)
JEIOIL-SOL/5	Soluble Cutting Oil (dilutes 20:1, 5L)
JEIOIL-SOL/25	Soluble Cutting Oil (dilutes 20:1, 25L)



## **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	Neat Cutting Oil (1L)
JEIOIL-NEAT/5	Neat Cutting Oil (5L)
JEIOIL-NEAT/25	Neat Cutting Oil (25L)



## **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



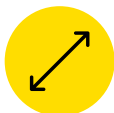


# turbo™ TOUGH

## HEAVY DUTY TCT HOLE SAWS

### 10 X MORE LIFE THAN BI-METAL HOLE SAWS.

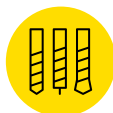
OUR PREMIUM HOLE SAWS FEATURE SOLID CARBIDE TIPS FOR EXCEPTIONAL STRENGTH AND DURABILITY, OUTLASTING STANDARD HIGH-SPEED STEEL (HSS) HOLE SAWS.



**Size Range**  
14 mm – 150 mm



**Cutting Depths**  
5, 25, & 50 mm



**Cutter Type**  
TCT



**Max. Tensile Strength**  
<1400RM (N/mm<sup>2</sup>)



**Perfect For**  
Structural steel, stainless steel, plastic, brass, and copper.



**For use with**  
Battery, corded, and pneumatic hand drills with a chuck

- ✓ 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.
- ✓ Manufactured with premium-grade solid carbide tips for added strength and durability.
- ✓ Up to 5 mm depth of cut with an impact wrench and up to 50 mm with a mag drill.
- ✓ Harder wearing and longer-lasting than HSS hole saws.



### SPARE CENTRE SPRING & DRILL

Replacement Pilot Drill & Spring Assembly

- 5 mm Heavy-duty hole saws – JEIHX-PILOT
- 25 mm Heavy-duty hole saws – JEIHS-PILOT
- 50 mm Heavy-duty hole saws – JEIHL-PILOT



TURBO™ TOUGH

### 6 PIECE TCT HOLE SAW SET

**Part Number: JEIHX-SET 6**

**Includes:**

- 14, 16, 18, 20, 22, & 25 mm Ø X 5 mm.
- Pilot pins to suit.



TURBO™ TOUGH

### 6 PIECE TCT HOLE SAW SET

**Part Number: JEIHS-SET 6**

**Includes:**

- 16, 18, 19, 20, 22, & 25 mm Ø X 25 mm.
- Pilot pins to suit.

PART NUMBER	DEPTH OF CUT	AVAILABLE Ø
JEIHX**	5 mm	14-150 mm
JEIHS**	25 mm	14-120 mm
JEIHL**	50 mm	14-100 mm

**\*\*Denotes diameter**

Other sizes available on request.



# THE FEATURES AND BENEFITS OF JEI'S TCT HOLE SAWS.



Steel Fabrication



Vehicle Manufacturing & Maintenance Shops



Plumbing & Heating Engineers



Electrical Engineers



## Centre Pilot Pin

To guide the tool into position, reducing slippage.

## Ejector Spring

To provide positive slug ejection.

## Hard Wearing Tungsten Carbide Teeth

Featuring premium-grade, hard-wearing tungsten carbide teeth, this tool is designed for exceptional strength and longevity.

## Safety Collar

Stops the tool from over penetrating the material, preventing breakage.

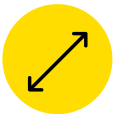


Now available in PG Sizes making them perfect for electrical installations.



CUTTER Ø	PART NUMBER (5 mm D.O.C)	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
28.5.30	JEIHXS-28.3	PG 21

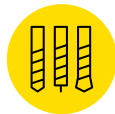
## TURBO™ TCT - LIGHT DUTY HOLE SAWS.



**Size Range**  
14 mm - 40 mm Ø



**Cutting Depth**  
2 mm



**Cutter Type**  
TCT



**Shank Size**  
1/4" impact



**Perfect For**  
Thin materials up to 2 mm thick: Mild steel, stainless steel, brass, aluminium, and copper.



**For use with**  
Battery, corded, and pneumatic impact drivers.

**Designed specifically for use with an impact driver.**



PART NUMBER	DEPTH OF CUT	AVAILABLE Ø
JEIHHXX**	2 mm	14-40 mm

\*\*Denotes diameter

2 mm Light Holesaws - JEIHXXS-PILOT

# COUNTERSINKS FOR MAGNETIC DRILLS

## DESIGNED TO PRODUCE A CHAMFER ON PRE-DRILLED HOLES.

✓ Unequal pitch for a high quality, smooth finish.

✓ Minimises cutting force for extended tooling life.

✓ The 3-flat shank design provides a firm hold in the chuck, resulting in excellent cutting performance.

✓ Featuring a 19 mm shank to suit most magnetic drills.



**Size Range**  
14 mm - 60 mm Ø



**CSK Type**  
Supercoated  
TCT



**Max. Tensile Strength**  
<1600RM  
(N/ mm<sup>2</sup>)



**Perfect for**  
Hardox, Weldom,  
aircraft steels, &  
Abro plate.



**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 mm - 60 mm Ø



**CSK Type**  
TCT



**Max. Tensile Strength**  
<1200RM  
(N/ mm<sup>2</sup>)



**Perfect for**  
Mild & structural  
steel, cast iron,  
stainless steel.



**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**  
4 mm - 55 mm Ø



**CSK Type**  
M2-AL (HSS)



**Max. Tensile Strength**  
<900RM  
(N/ mm<sup>2</sup>)



**Perfect for**  
Aluminium, most  
mild, and structural  
steels.



**turbo™ STEEL**

A 19mm shank suits most magnetic drills

PART NUMBER	MIN-MAX BODY SIZE / ANGLE
JEICSK-25	4-25 mm Ø, 90°
JEICSK-30	4-30 mm Ø, 90°
JEICSK-40	8-40 mm Ø, 90°
JEICSK-50	10-50 mm Ø, 90°
JEICSK-55	12-55 mm Ø, 90°
JEICSK-55/C	12-55 mm Ø, 60°



**Size Range**  
4 mm - 55 mm Ø



**CSK Type**  
M2-AL Coated  
HSS



**Max. Tensile Strength**  
<1000RM  
(N/ mm<sup>2</sup>)



**Perfect for**  
Aluminium, mild,  
structural steel  
with extended  
tool life.



**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	10-50 mm Ø, 90°
JEIECSK-55	12-55 mm Ø, 90°
JEIECSK-55/C	12-55 mm Ø, 60°

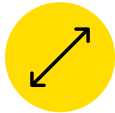
BOLT SIZE	COUNTERSINK
M10-M14	JEICSK-25
M16-M18	JEICSK-30
M20-M24	JEICSK-40
M26-M30	JEICSK-50
M31-M35	JEICSK-55



# turbo™ GOLD COUNTERSINKS

**TIN COATED FOR EXTRA TOOL LIFE.**

THIS CHAMFER TOOL IS DESIGNED WITH AN UNEQUAL PITCH THAT REDUCES VIBRATION DURING THE CUTTING PROCESS. THIS RESULTS IN A HIGH-QUALITY, SMOOTH FINISH, WHICH RESULTS IN LONGER TOOL LIFE. THE UNIQUE DESIGN IS OPTIMISED TO PRODUCE CLEAN CHAMFERS ON PRE-DRILLED HOLES.



**Size Range**  
6.3 mm - 20.5 mm Ø



**For use with**  
Hand drills

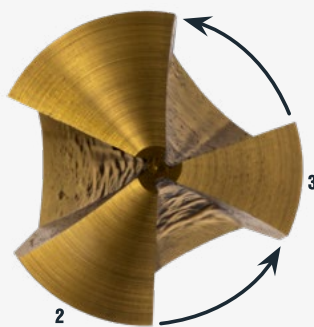


**Perfect for**  
Mild steel, stainless,  
cast iron, & non-ferrous  
materials

## Turbo™ Gold Mini Countersinks

TiN coated HSS Mini Countersinks at 90 degree. Available in six individual sizes.

SIZE Ø	PART NUMBER
6.3 mm	JEICSKM-6.3
8.3 mm	JEICSKM-8.3
10.4 mm	JEICSKM-10.4
12.4 mm	JEICSKM-12.4
16.5 mm	JEICSKM-16.5
20.5 mm	JEICSKM-20.5



TURBO™ GOLD COUNTERSINKS

## UNIQUE UNEQUAL PITCH

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



TURBO™ GOLD

## 6 PIECE MINI COUNTERSINK SET

**Part Number: JEICSKM-SET**

### Includes:

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



turbo™ GOLD

COUNTERSINKS

# turbo™ GOLD STEP DRILLS

## STEP DRILL HSS TIN SPIRAL FLUTED WITH A SPLIT POINT.

MANUFACTURED FROM HIGH-QUALITY TURBO™ GOLD HSS M2-AL MATERIAL WITH ADDED TITANIUM NITRATE (TiN) COATING.



Steel Fabrication



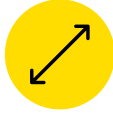
Vehicle Manufacturing  
& Maintenance Shops



Plumbing & Heating Engineers

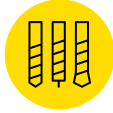


Electrical Engineers



### Size Range

5 steps (4-12),  
9 steps (4-20),  
13 steps (6-30)



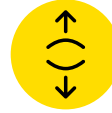
### Cutter Type

M2-AL (HSS) with  
TiN Coating



### Cutting Thickness

4 mm



### Max. Tensile Strength

<1100RM (N/mm<sup>2</sup>)  
on steel



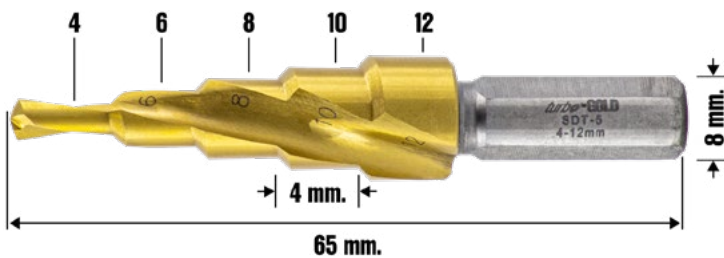
### For use with

Battery, corded,  
and pneumatic  
hand drills with a  
chuck



### Perfect for

Mild and stainless  
steel, alloys, and  
plastics



### Turbo™ Gold Spiral Flute HSS with TiN Coating Step Drill - 5 Steps

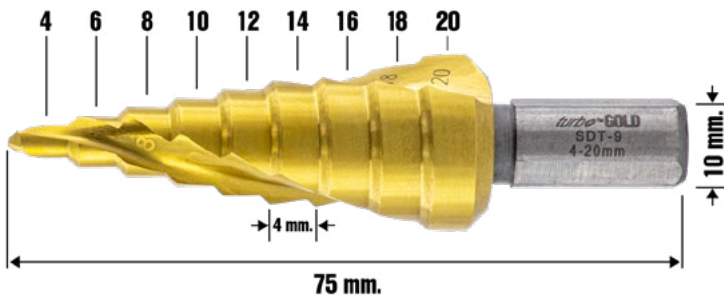
Five Steps - Min 4 mm | Max 12 mm

(4, 6, 8, 10, 12 mm)

Shank size - 8 mm with 3 flats

Overall length 65 mm

**PART NUMBER: JEISDT-5.4.12**



### Turbo™ Gold Spiral Flute HSS with TiN Coating Step Drill - 9 Steps

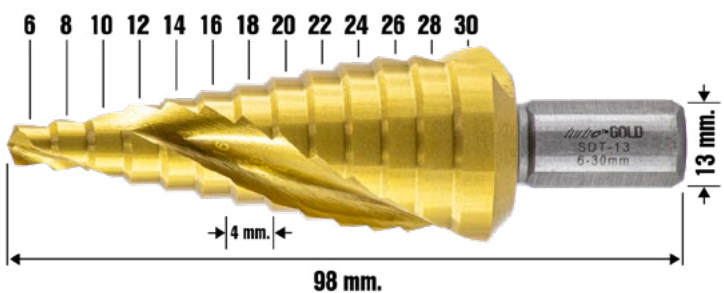
Nine Steps - Min 4 mm | Max 20 mm

(4, 6, 8, 10, 12, 14, 16, 18, 20 mm)

Shank size - 10 mm with 3 flats

Overall length - 75 mm

**PART NUMBER: JEISDT-9.4.20**



### Turbo™ Gold Spiral Flute HSS with TiN Coating Step Drill - 13 Steps

Thirteen Steps - Min 6 mm | Max 30 mm

(6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30 mm)

Shank size - 13 mm with 3 flats

Overall length - 98 mm

**PART NUMBER: JEISDT-13.6.30**



### STEP DRILLS

## TURBO™ GOLD SPIRAL STEP DRILL SET

Available as a 3 piece set with a plastic case

**Part Number: JEISDT-SET3**

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

# turbo<sup>TM</sup> STEEL MINI CUTTERS

## A MINI ANNULAR BROACHING CUTTER.

TURBO<sup>TM</sup> STEEL MINI CUTTERS ARE DESIGNED TO PRODUCE FAST, ACCURATE HOLES IN SHEET METAL MATERIALS, PIPE, AND PLASTICS.



Steel Fabrication



Plumbing & Heating Engineers

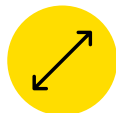


Vehicle Manufacturing  
& Maintenance Shops



Electrical Engineers

MINI CUTTERS



**Size Range**  
8 mm – 25 mm Ø



**Cutting Depths**  
6.4mm (for sizes 8–20 mm)  
12.7mm (for sizes 21–25 mm)



**Max. Tensile Strength**  
<900N/mm<sup>2</sup>



**For use with**  
Battery, corded, and  
pneumatic hand drills  
with a chuck



**Perfect for**  
Sheet metals, pipe, and  
plastics

- ✓ Provides far more efficiency, accuracy, and tooling life than a HSS hole saw.
- ✓ Turbo<sup>TM</sup> Mini Cutters only cut 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 13mm chuck, by using its spring-loaded arbor system (on an 8mm shank with 3 flats).
- ✓ Available to purchase as individual sizes or as a handy kit, a must for every toolbox!

PART NUMBER	DEPTH OF CUT	AVAILABLE Ø
JEISMC**	6.4 mm	8–20 mm
JEISMC**	12.7 mm	21–25 mm

\*\*Denotes diameter

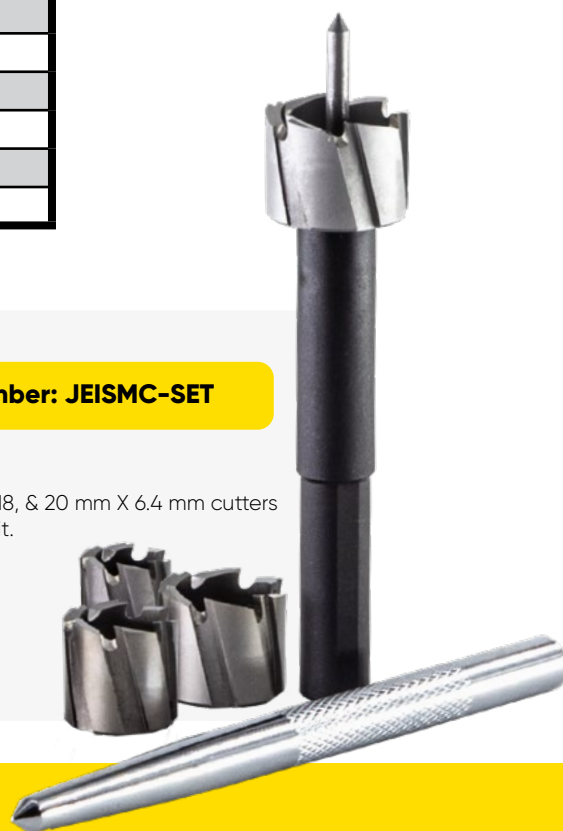
DESCRIPTION	PART NUMBER
Arbor assembly for mini cutters 8–20 mm Ø	JEISMS002
Pilot pin for mini cutters 8–20 mm Ø	JEISMS003
Small washer 14.5 X 1.5 mm to suit JEISMS002 arbor	JEISMSSW
Large washer 22.5 X 1.5 mm to suit JEISMS002 arbor	JEISMSLW
Arbor assembly for mini cutters 21–25 mm Ø	JEISML002
Pilot pin for mini cutters 21–25 mm Ø	JEISML003



**Part Number: JEISMC-SET**

**Includes:**

- 8, 10, 12, 14, 16, 18, & 20 mm X 6.4 mm cutters
- Pilot pins to suit.

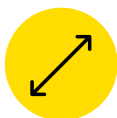




# turbo<sup>TM</sup> STEEL FABRICATION REAMERS

THE PERFECT SOLUTION TO CORRECT THE HOLE WHEN THE BOLT DOESN'T FIT.

## STRAIGHT SHANK (CAR) REAMERS PERFECT FOR POWER DRILLS.



**Size Range**  
14 mm – 26 mm Ø



**Max. Tensile Strength**  
<900N/mm<sup>2</sup>



**Shank Size**  
12.7 mm Ø



**Perfect for**  
Steel construction,  
bridgework



**For use with**  
Battery or corded power drills,  
magnetic drilling machines  
(1/2" chuck)



- ✓ Features a safety collar to avoid slippage of tool.
- ✓ Fits magnetic drilling machines with a morse taper chuck.
- ✓ Versatile for usage with cordless hand drills.
- ✓ Strong, powerful, and clean finish.

SIZE Ø	MAX HOLE DEPTH	START Ø	FLUTE LENGTH	PART NUMBER
14 mm	51 mm	8 mm	102 mm	JEICR14
18 mm	62 mm	9.2 mm	125 mm	JEICR18
22 mm	66 mm	13 mm	132 mm	JEICR22
26 mm	66 mm	17.2 mm	132 mm	JEICR26

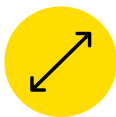
## 3 PIECE TURBO<sup>TM</sup> CAR REAMER KIT

**Part Number - JEICR-SET3**  
**Includes:**

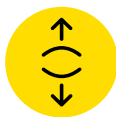
- 14, 18, and 22 mm.
- Carry case.



## HEX BRIDGE REAMERS - READY TO FIT INTO A HEX SOCKET FOR USE WITH AN IMPACT WRENCH.



**Size Range**  
14 mm – 39 mm Ø



**Max. Tensile Strength**  
<900N/mm<sup>2</sup>



**Shank Type**  
Hexagon



**Perfect for**  
Steel construction,  
bridgework



**For use with**  
Impact wrench  
8000Nm rated

SIZE Ø	MAX HOLE DEPTH	START Ø	FLUTE LENGTH	HEX SIZE	PART NUMBER
14 mm	50 mm	7 mm	140 mm	24 mm	JEIHR14
18 mm	58 mm	9.5 2 mm	165 mm	24 mm	JEIHR18
20 mm	58 mm	11 mm	171 mm	36 mm	JEIHR20
22 mm	65 mm	13 mm	171 mm	36 mm	JEIHR22
24 mm	65 mm	14.5 mm	171 mm	41 mm	JEIHR24
26 mm	60 mm	16 mm	171 mm	41 mm	JEIHR26
30 mm	60 mm	20.5 mm	171 mm	41 mm	JEIHR30
32 mm	63 mm	22.5 mm	171 mm	46 mm	JEIHR32
33 mm	57 mm	23.5 mm	171 mm	46 mm	JEIHR33
36 mm	57 mm	26 mm	200 mm	46 mm	JEIHR36
39 mm	57 mm	29 mm	200 mm	50 mm	JEIHR39

## 3 PIECE TURBO<sup>TM</sup> HEX REAMER KIT

**Includes:**

14, 18, & 22 mm.

**PART NUMBER: JEIHR-SET3**



## 5 PIECE TURBO<sup>TM</sup> HEX REAMER KIT

**Includes:**

14, 18, 22, 26, & 32 mm.

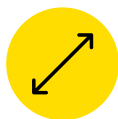
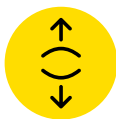
**PART NUMBER: JEIHR-SET5**



### HEX SOCKET ADAPTORS

Ideal for using with an impact wrench for bolting purposes. Can be used to mount Hex Bridge Reamers for aligning holes in steel.



**19 MM SHANK BRIDGE REAMERS - IDEAL FOR MAGNETIC DRILLING MACHINES.****Size Range**  
14 mm – 32 mm Ø**Max. Tensile Strength**  
<900N/mm<sup>2</sup>**Shank Size**  
19.05 mm Ø**Perfect for**  
Steel construction,  
bridgework**For use with**  
Magnetic drill, Impact  
reamer (with adaptor)

SIZE Ø	MAX HOLE DEPTH	START Ø	FLUTE LENGTH	PART NUMBER
14 mm	52 mm	7 mm	140 mm	JEITBR14
18 mm	61 mm	9.5 2 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

**IMPACT SOCKET ADAPTORS**

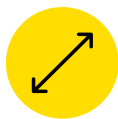
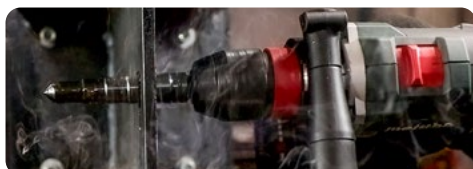
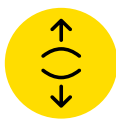
Our 1/2" and 3/4" drive impact socket adaptors for JEI Turbo™ Bridge Reamers. These reamers and taps have a 19 mm shank designed for use with an impact wrench.

**Part Number: 1/2" JEIHEXS****Part Number: 3/4" JEIHEXL****3 PIECE TURBO™ BRIDGE REAMER KIT****Part Number - JEITBR-SET3**

**Includes:** 14, 18, and 22 mm.  
Hex socket adaptors available separately.

**5 PIECE TURBO™ BRIDGE REAMER KIT****Part Number - JEITBR-SET5**

**Includes:** 14, 18, 22, 26 and 32 mm.  
Hex socket adaptors available separately.

**STEP REAMERS - MULTIPLE SIZE HOLE MAKING WITH JUST ONE TOOL.****Size Range**  
8 mm – 28 mm Ø**Max. Tensile Strength**  
<900N/mm<sup>2</sup>**Shank Size**  
10 mm Ø**Perfect for**  
Steel construction,  
bridgework**For use with**  
Battery or corded power drills,  
magnetic drilling machines  
with adaptor.

- ✓ **Create and enlarge holes with minimum power and effort.**
- ✓ **Faster and more versatile than traditional drilling methods.**
- ✓ **Allows a number of popular hole sizes with one cutting tool.**
- ✓ **Adaptable for use with many types of drilling tools.**
- ✓ **Many industrial uses.**

**3 PIECE TURBO™ STEP REAMER KIT****Part Number - JEISR-SET3****Includes:**

- 8-16 mm
- 14-22 mm
- 20-28 mm



SIZE Ø	CUTTING Ø	MAX CUTTING	FLUTE LENGTH	PART NUMBER
8-16 mm	8, 10, 12, 14, 16 mm	12 mm	78 mm	JEISR-8/16MM
14-22 mm	14, 16, 18, 20, 22 mm	12 mm	81 mm	JEISR-14/22MM
20-28 mm	20, 22, 24, 26, 28 mm	12 mm	81 mm	JEISR-20/28MM

**Step Cutter adaptor for use in a mag drill:****Part Number: JEITD-A10**

# turbo<sup>TM</sup> STEEL TWIST DRILLS

## HOLES WITHOUT NEEDING A CHUCK.

THE TURBO<sup>TM</sup> HSS TWIST DRILLS, FEATURING A TWO-PIECE DESIGN WITH A 19MM SHANK, CAN BE USED WITH JEI'S MAGNETIC DRILL RANGE AS WELL AS THOSE OF OTHER MANUFACTURERS. THESE DRILLS MAKE AN IDEAL CHOICE FOR USE WITH JEI'S MINIBEAST<sup>TM</sup>.



- ✓ High quality HSS tool life.
- ✓ Features a special flat to fit into an 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
4 Piece Set (6, 8, 10, and 12 mm)	JEITD-SET
5 Piece Set (6, 7, 8, 10, and 12 mm)	JEITD-SET5

Supplied with 19 mm shank, flute length = 65 mm



Perfect for use in the MiniBeast<sup>TM</sup>

### Spare replacement drills only:

Ø 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

\*To remove the drill from the adaptor, remove both screws with an allen key.



### 4 PIECE TURBO<sup>TM</sup> TWIST DRILL SET

Part Number: JEITD-SET

- Includes:**
- 6, 8, 10, & 12 mm Ø on a 19 mm shank.
  - Black plastic case.



### 5 PIECE TURBO<sup>TM</sup> TWIST DRILL SET

Part Number: JEITD-SET 5

- Includes:**
- 6, 7, 8, 10, & 12 mm Ø on a 19 mm shank.
  - Black plastic case.



### CUTTING OILS & LUBRICANTS

Part Number: JEIOIL-NEAT & JEIOIL-TTA

- Includes:**
- Neat cutting oil.
  - Cutting spray.



# turbo™ TOUGH CARBIDE BURRS

## DOUBLE CUT CARBIDE ROTA-BURRS.

FOR CUTTING, SHAPING, GRINDING, AND REMOVAL OF SHARP EDGES, BURRS, AND EXCESS MATERIAL.

CARBIDE BURRS



**Shank size**  
6 mm Ø



**Cutter Type**  
Carbide



**Perfect for**  
Cast iron, mild and stainless steel, and wear plates

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



### 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 angles contours.



### Ball Nose Cone Double Cut Carbide Burr

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



### Ball Nose Double Cut Carbide Burr

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



### Ball Nose Tree Double Cut Carbide Burr

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



### Cylinder Ball Double Cut Carbide Burr

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



### Flame Double Cut Carbide Burr

Ideal for channel work and shaping.



### Straight Cylinder Double Cut Carbide Burr Without End Cut

Ideal for contour finishing and right angled corners.

BURR SIZE	PART NUMBER
6 mm X 18 mm	JEITCB-G0618
12 mm X 25 mm	JEITCB-G1225

BURR SIZE	PART NUMBER
12 mm X 28 mm	JEITCB-L1228

BURR SIZE	PART NUMBER
6 mm X 16 mm	JEITCB-C0616
8 mm X 20 mm	JEITCB-C0820
10 mm X 20 mm	JEITCB-C1020
12 mm X 25 mm	JEITCB-C1225

BURR SIZE	PART NUMBER
6 mm X 18 mm	JEITCB-F0618
10 mm X 20 mm	JEITCB-F1020
12 mm X 25 mm	JEITCB-F1225

BURR SIZE	PART NUMBER
6 mm X 5 mm	JEITCB-D0605
10 mm X 9 mm	JEITCB-D1009
12 mm X 10 mm	JEITCB-D1210

BURR SIZE	PART NUMBER
10 mm X 25 mm	JEITCB-H1025
12 mm X 32 mm	JEITCB-H1232

BURR SIZE	PART NUMBER
6 mm X 16 mm	JEITCB-A0616
10 mm X 20 mm	JEITCB-A1020
12 mm X 25 mm	JEITCB-A1225

#### 5 PIECE 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)
- Standard Tree 12 x 25 mm (JEITCB-G1225)
- Ball Nose Cone 12 x 28 mm (JEITCB-L1228)

#### 10 PIECE SET

##### Part Number - JEITCB-SET10

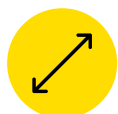
- Straight Cylinder 10 x 20 mm (JEITCB-A1020)
- Straight Cylinder 12 x 25 mm (JEITCB-A1225)
- Ball Nose Cylinder 10 x 20 mm (JEITCB-C1020)
- Cylinder Ball 10 x 9 mm (JEITCB-D1009)
- Oval Burr 12 x 20 mm (JEITCB-E1220)
- Ball Nose Tree 12 x 25 mm (JEITCB-F1225)
- Standard Tree 10 x 20 mm (JEITCB-G1020)
- Flame 10 x 25 mm (JEITCB-H1025)
- Flame 12 x 32 mm (JEITCB-H1232)
- Ball Nose Cone 12 x 28 mm (JEITCB-L1228)

turbo TOUGH

# turbo<sup>TM</sup> STEEL TURBO<sup>TM</sup> M-TAPS

## A BOLT-READY THREAD FOR PRE-EXISTING HOLES.

A VERSATILE, QUICK, EFFECTIVE, AND ECONOMICAL SOLUTION TO PROVIDE A BOLT-READY THREAD TO PRE-EXISTING HOLES.



**Size Range**  
M8 - M20



**Shank size**  
1905 mm



**For use with**  
Magnetic Drill (with reverse function),  
Impact wrench (8000N rated)



- ✓ Versatile for use in any mag drill with reverse and variable speed control.
- ✓ Can be used with an impact wrench (with an adaptor) to tap through 12 mm depth.
- ✓ Available in sizes ranging from M8 - M30.
- ✓ 19mm shank fits into the cutter arbor.
- ✓ Ideal for use with JEI mag drills HM50T and HM100T.
- ✓ For through holes only.

PART NUMBER (TAP)	PART NUMBER (DRILL & TAP)	TAP SIZE X THREAD PITCH	MAX DRILLING/TAPPING DEPTH
JEITAPM8	JEIDT08	M8 X 1,25	17 mm
JEITAPM10	JEIDT10	M10 X 1,5	20 mm
JEITAPM12	JEIDT12	M12 X 1,75	20 mm
JEITAPM14	JEIDT14	M14 X 2	18 mm
JEITAPM16	JEIDT16	M16 X 2	20 mm
JEITAPM18	JEIDT18	M18 X 2,5	20 mm
JEITAPM20	JEIDT20	M20 X 2,5	25 mm
JEITAPM24	JEIDT24	M24 X 3	26 mm
JEITAPM27	JEIDT27	M27 X 3	29 mm
JEITAPM30	JEIDT30	M30 X 3,5	31 mm

**Ideal for use with JEI Mag Drills HM50T & HM100T**



**Available in a handy 5 piece kit.**

**Includes:**

- 1 x M8, M10, M12, M16, and M20.
- 1 X JEIHEXL & JEIHEXS sockets.
- sturdy plastic case.

**PART NUMBER JEITAP-SETS5**



## IMPACT SOCKET ADAPTORS

Our 1/2" and 3/4" drive impact socket adaptors for JEI Turbo<sup>TM</sup> M-TAPS with a 19 mm shank designed for use with an impact wrench.

**PART NUMBER 1/2" JEIHEXS**

**PART NUMBER 3/4" JEIHEXL**



### Tap holders (19mm Shank)

PART NUMBER	TAP SIZE	SHANK SIZE (ROUND)
JEITH-M8	M8	6 mm Ø
JEITH-M10	M10	7 mm Ø
JEITH-M12	M12	9 mm Ø
JEITH-M14	M14	11 mm Ø
JEITH-M16	M16	12 mm Ø
JEITH-M18	M18	14 mm Ø
JEITH-M20	M20	16 mm Ø
JEITH-M22/24	M22-24	18 mm Ø
JEITH-M27	M27	18 mm Ø
JEITH-M30	M30	22 mm Ø

### Tapped hole size cutter solutions

PART NUMBER	DESCRIPTION	TO SUIT JEI M-TAP
JEITD-6.8	6.8 mm Twist Drill	JEITAP-M8
JEITD-8.5	8.2 mm Twist Drill	JEITAP-M10
JEITD-10.3	10.3 mm Twist Drill	JEITAP-M12
JEICS12-P1	12 mm X 1" Cutter	JEITAP-M14
JEICS14-P1	14 mm X 1" Cutter	JEITAP-M16
JEICS15.5	15.5 mm X 1" Cutter	JEITAP-M18
JEICS17.5	17.5 mm X 1" Cutter	JEITAP-M20
JEICS21	21 mm X 1" Cutter	JEITAP-M24
JEICS24	24 mm X 1" Cutter	JEITAP-M27
JEICS26.5	26.5 mm X 1" Cutter	JEITAP-M30



## LARGE ADAPTABLE DISPLAY STAND

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



## COUNTER DISPLAY STAND

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



## COUNTER CUTTER DISPLAY

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

### JEI Cutter Display Unit (JEI-CD)

#### Includes:

#### Turbo™ Steel Cutters (JEICS)

- 1" D.O.C - 1 X 14, 16, 18, 20, 22, & 26 mm Ø
- 2" D.O.C - 1 X 14, 16, 18, 20, 22, & 26 mm Ø

#### Turbo™ Endurance Cutters (JEIECS)

- 1" D.O.C - 1 X 14, 18, & 22mm Ø
- JEI 6 mm Pilot Pin 1" (10-65 mm Cutter CS/ECS)
- JEI 6 mm Pilot Pin 2" (12-65 mm Cutter CL/ECL)

#### Turbo™ Endurance+ Cutters (JEIETCS)

- 40 mm D.O.C 1 X 14, 18, & 22 mm Ø

#### Turbo™ Endurance+ Cutters (JEIETCL)

- 55 mm D.O.C 1 X 22 mm Ø

#### Turbo™ Tough (TCT) Cutter (JEITCS)

- 40 mm D.O.C 1 X 14, 16, 18, 20, 22, & 26 mm Ø

#### Plus one of each of the following:

- JEIPILOT1/TCTS JEI 6 mm Pilot Pin (12-17 mm TCS/ETCS Cutters)
- JEIPILOT1/8MM JEI 8 mm Pilot Pin (18 mm+ TCS/ETCS Cutters)
- JEICSK-25 Turbo Steel (HSS) 4-25 mm Countersink 90 deg
- JEICSK-50 Turbo Steel (HSS) 10-50 mm Countersink 90 deg
- JEITAPM14 Turbo M-TAP M14 X 2 (19 mm Shank)
- JEIHS-22 Turbo Tough (TCT) Hole Saw 22 mm Ø x 1"
- JEITD-06 Turbo Steel 6 mm Twist Drill (detachable 19 mm Shank)



## OIL & LUBRICANT DISPLAY SET

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

PART NUMBER	PRODUCT	#
JEIOIL-SOL	1 Litre Soluble Oil	4 of
JEIOIL-NEAT	1 Litre Neat Oil	4 of
JEIOIL-TTA	Turbo Tough Spray	3 of
JEIOIL-TEP	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 22 mm X 1"	1 of
JEICL22	Turbo Steel Cutter 22 mm X 2"	1 of
JEIECS22	Turbo Endurance Cutter 22 mm X 1"	1 of
JEIECL22	Turbo Endurance Cutter 22 mm X 2"	1 of
JEITCS22	Turbo Tough Cutter 22 mm X 40 mm	1 of



# JEI MAG DRILLS AT A GLANCE

## MINIBEAST™ RANGE

With over 15 years of proven performance, JEI's flagship MiniBeast™ magnetic drilling machine is the leading mini magnetic drill in the UK. Compact and portable, MiniBeast™ models are the essential on-site and workshop drills.



MiniBeast™



MiniBeast™ Cordless



MiniBeast™ Auto



MiniBeast™ Thin



MiniBeast™ Curve



MiniBeast™ RT



MidiBeast™



MiniBeast™ Ultra



MiniBeast™ LP35+



## 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



MagBeast® LP45



MagBeast® HM40EX



MagBeast® HM50



MagBeast® HM50T



MagBeast® HM100



MagBeast® HM100T



MagBeast® HM140T



MagBeast® HM200T



# JEI MAG DRILLS AT A GLANCE

MAG DRILLS

## MAGBEAST® PRO PREMIUM RANGE

The MagBeast® Pro range by JEI is a new generation range of premium portable magnetic drilling and tapping 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



MagBeast® PRO-72T



MagBeast® PRO-122T



MagBeast® PRO-152T



## AIRBEAST® RANGE

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



AirBeast® 40A



AirBeast® 50A



AirBeast® 200A



## 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



RailBeast® RDP-36



Turbo™ 35+



Magslot 20X



A revolutionary portable solution for milling holes in steel, whether on site or in the workplace. Equipped with a horizontal single-axis feed, allowing 90 mm of milling travel per operation. Patented slide rails ensure minimal vibration.



SCAN THE QR CODE FOR OUR FULL CATALOGUE

turbo™ STEEL



A whole world of metal fabrication solutions

Discover our complete range:

**MAGNETIC DRILLING, MILLING,  
PUNCHING, SAWING, &  
GRINDING MACHINES.**



**PLATE AND PIPE BEVELLING**



**WELDING & CUTTING TRACTORS**



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