



Certified Company

# JEI Solutions

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## Built for Industry

### MAGBEAST®

Premium Portable  
Magnetic Drilling  
Systems

### turbo™

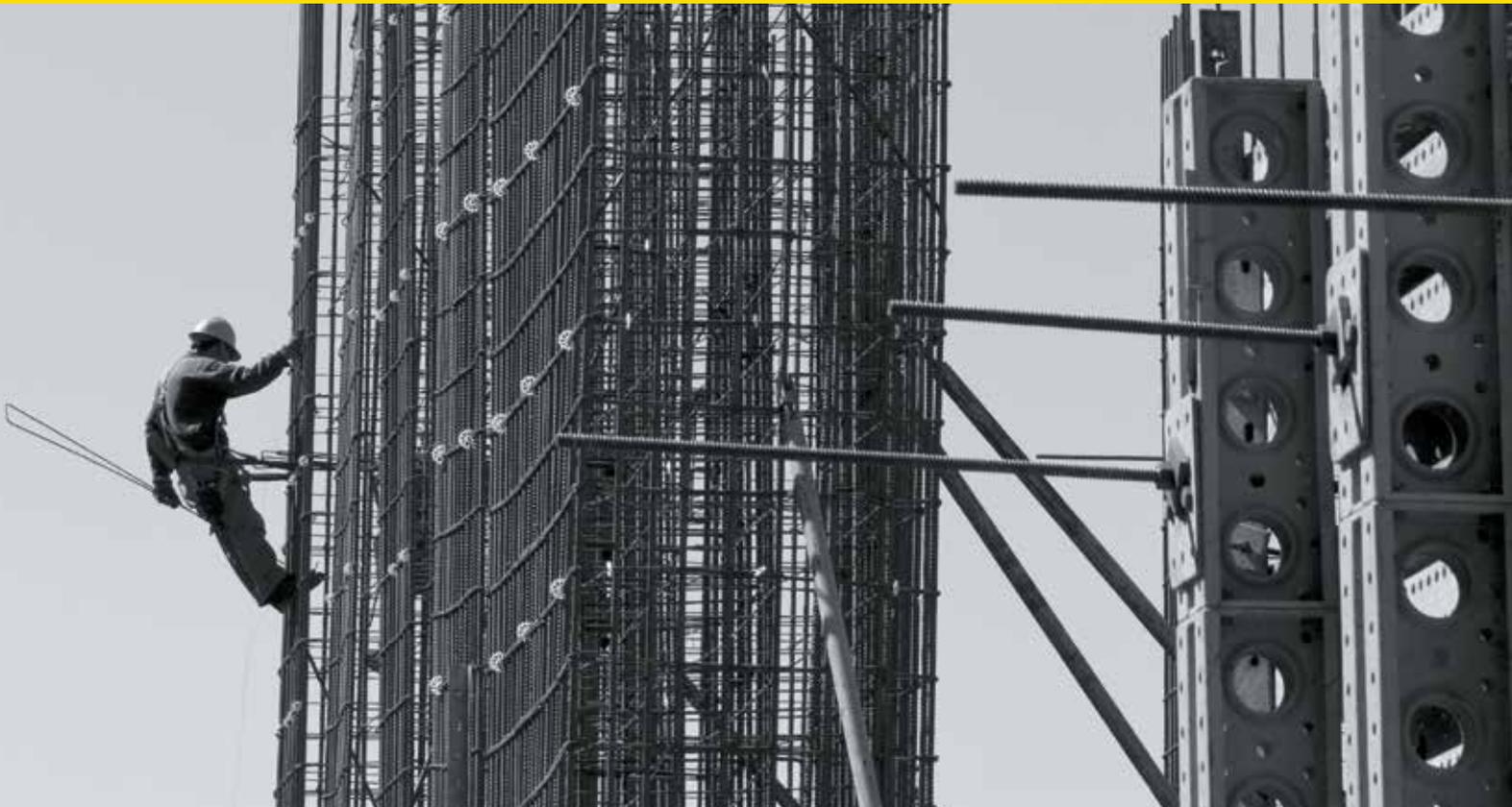
High Performance  
Annular  
Broaching Cutters

### STEELBEAST®

Distinctive Metal  
Fabricating Equipment

### AIRBEAST™

Portable Pneumatic  
Drilling Systems



JEI Solutions



# About Us

**JEI Solutions** is a British company which has evolved from Jancy Engineering Industrial, originally formed in 1993. The business now boasts a high calibre of excellence as a one stop solutions provider, supporting diverse metal drilling and fabricating industries.

JEI's own key brands of MagBeast® portable magnetic drilling machines and Turbo™ annular broaching cutters are manufactured to the highest standards to meet the demanding challenges of a heavily industrial market. This is further complimented by the SteelBeast® range of metal fabricating equipment and AirBeast™ portable pneumatic drilling systems.

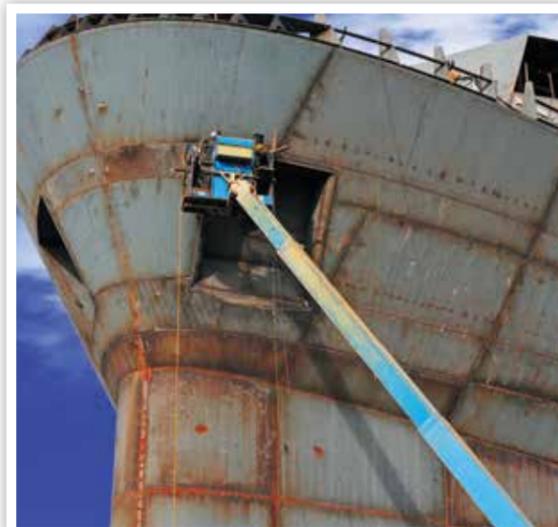
JEI's customers are supported by highly knowledgeable and experienced sales, technical and service personnel.

JEI's products are now used in over 30 countries 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,
- Defense Systems,
- Power Regeneration Plants and
- Precision Engineering.

JEI continues to invest in hole making and metal fabricating technology. Whether this is achieved in-house or in conjunction with close trading partners, JEI strives for the very best solutions to meet the distinct challenges of the metal working industry.

JEI is now a certified  company.



# Premium Portable Magnetic Drilling Solutions



## MiniBeast

Compact and powerful, ideal for site or workshop use.



Internal coolant



Self-adjusting slide system



Compact design



Twist drill provides 12mm capacity (see page 16)

MODEL	MINIBEAST	
	Metric	Imperial
Weight	10kg	22 lbs
Cutter Capacity	35mm Ø x 2" depth of cut	1-3/8" Ø x 2" Depth of Cut
Twist Drill Capacity	12mm Ø with twist drill set	1/2" Ø with Twist Drill Set
Motor	1010 watts	1010 watts
Height Min/Max	Min 307 / Max 377	Min 12" / Max 14-7/8"
Length	240mm	9-1/2"
Width	166mm	6-1/2"
RPM	Single Speed 350	Single Speed 350
Magnetic Base Dimensions	80mm x 160mm	3-3/16" x 6-3/8"
Magnet Deadlift	980kg (on 25mm plate)	2156lbs on 1" Plate
Noise Level	Does not exceed 95dB	Does not exceed 95dB
Vibration Level	Does not exceed 2,5m/s2	Does not exceed 2,5m/s2
Voltage / Part No.	110V Part No' DRILL-19041 240V Part No' DRILL-19042	110V Part No' DRILL-19041 240V Part No' DRILL-19042

### Features / Benefits:

- JEI's flagship machine now with a new 1010 watt motor providing an updated capacity of 35mm.
- Light-weight – only 10kg.
- Internal coolant reservoir – ensuring maximum cutter life.
- Self correcting slide rails – for maintenance free operation.
- Hidden motor cable – for added protection.
- Now with new fixed guard.



## Minibeast Auto



The worlds smallest automatic magnetic drilling machine.

**NEW**  
Market Exclusive



Compact automatic

CE

### With all the Features of the MiniBeast

- Compact size and weight - ideal for site work.
- Internal coolant reservoir - ensuring maximum cutter life.
- Self correcting slide rails - for maintenance free operation.
- Light-weight - only 13kg

### ...Plus Much More

- Easier operation – lets the machine control the task.
- Increased productivity – one operator can control several machines at one time.
- Improved tool life – let the machine do the cutting. More holes per tool with better hole results.
- Protects against misuse of machine and wearing parts – no manual overloading of the motor.
- Longer overall life of the machine.

SPECIFICATIONS		
MODEL	MINIBEAST AUTO	
	Metric	Imperial
Weight	13kg	28.6 lbs
Cutter Capacity	36mm Ø x2" depth of cut	1-3/8" Ø x 2" depth of cut
Twist Drill Capacity	12mm with twist drill set	1/2" with Twist Drill Set
Motor	1010 Watts	1010 Watts
Height Min/Max	Min 307 / Max 377	Min 12" / Max 14-3/4"
Length	291mm	11-1/2"
Width	221mm	8-11/16"
RPM	Single Speed 350 RPM (loaded)	Single Speed 350 RPM (loaded)
Magnetic Base Dimensions	80mm x 160mm	3-1/8" X 6-5/16"
Magnet dead lift	980kg (on 25mm plate)	2156 lbs (on 1" plate)
Noise Level	Does not exceed 95dB	Does not exceed 95dB
Vibration Level	Does not exceed 2.5m/s2	Does not exceed 2.5m/s2
Voltage / Part No.	110V Part No' DRILL-19041/A 240V Part No' DRILL-19042/A	110V Part No' DRILL-19041/A 240V Part No' DRILL-19042/A

## HM40



Lightweight and powerful for maximum performance.



CE



13mm twist drill capacity with optional attachment (see page 16)



User-friendly control panel



Maximum stroke 120mm

### Features / Benefits:

- Powerfull 1100 watt motor delivering 40mm cutting capacity.
- Easily adapts for a 13mm chuck for use on twist drill applications.
- External coolant system for extended tool life.

SPECIFICATIONS		
MODEL	MAGBEAST HM40	
	Metric	Imperial
Spindle	19mm	3/4"
Weight	12.7kg	28 lbs
Cutter Capacity	40mm Ø x2" depth of cut	1-5/8" Ø x 2" depth of cut
Twist Drill Capacity	13mm Ø with optional attachment	1/2" Ø with optional attachment
Countersink Capacity	40mm Ø	1-5/8" Ø
Motor	1100 watts	1100 watts
Height	Min 385mm Max 505mm	Min 15-1/32" Max 19-7/8"
Length	260mm	10-1/4"
Width	190mm (with handles)	7-1/2"
RPM	440	440
Magnetic Base Dimensions	140 x 295mm	5-1/2" x 11-5/8"
Magnet Deadlift	1066kg (on 25mm plate)	2345 lbs (on 1" plate)
Vibration Level	Does not exceed 2.5m/s2	Does not exceed 2.5m/s2
Voltage / Part No.	110v Part No' DRILL-HM40 240V Part No' DRILL-HM40/2	110v Part No' DRILL-HM40 240V Part No' DRILL-HM40/2

## HM50



A durable, heavy duty 2 morse taper drilling machine.

**NOW AVAILABLE**  
HM50T TAPPING



23mm 2MT twist drill capacity



Packed in a durable case

**NOW AVAILABLE**  
HM50S SWIVEL BASE



CE

Also available with a 360 degree swivel base - ideal for special projects.

### Features / Benefits:

- Heavy duty 1150 watt motor - Enables larger cutting capacity.
- Weighs only 13kgs with a 50mm cutter capacity - Unrivalled weight to cutting capacity ratio.
- 150mm total drill travel - Facility to use Extra-long cutters.
- Maintenance friendly twin slide rails - No wearing parts and adjustment free operation.

SPECIFICATIONS				
MODEL	HM50	HM50T	HM50S	
	Metric	Metric	Imperial	Imperial
Spindle	MT2	MT2	MT2	MT2
Weight	13kg	13kg	13kg	13kg
Max Stroke	150mm	150mm	150mm	150mm
Cutter Capacity	50mm Ø x 4" depth of cut	50mm Ø x 4" depth of cut	50mm Ø x 4" depth of cut	50mm Ø x 4" depth of cut
Twist Drill Capacity	13mm with 2MT chuck	13mm with 2MT chuck	13mm with 2MT chuck	13mm with 2MT chuck
Countersink Capacity	23mm with 2MT twist drill	23mm with 2MT twist drill	23mm with 2MT twist drill	23mm with 2MT twist drill
Countersink Capacity	40mm	40mm	40mm	40mm
Tapping Capacity	n/a	M20	n/a	n/a
Motor	1150 watts	1150 watts (110v) 1250w (240v)	1150 watts	1150 watts
RPM	2 Fixed Speeds No load 450/220RPM Loaded 250/450RPM	2 Variable speeds 180-450, 100-250 RPM	2 Fixed Speeds	2 Fixed Speeds No load 450/220RPM Loaded 250/450RPM
Height min/max	410mm / 560mm	410mm / 560mm	410mm / 560mm	410mm / 560mm
Length	280mm	280mm	280mm	280mm
Width	120mm	120mm	120mm	120mm
Swivel Base	n/a	n/a	360 degree	n/a
Magnetic Base Dimensions	85 x 180mm	85 x 180mm	85 x 180mm	85 x 180mm
Magnet Deadlift	1250kg (on 25mm plate)	1250kg (on 25mm plate)	1250kg (on 25mm plate)	1250kg (on 25mm plate)
Noise Level	Does not exceed 90db	Does not exceed 90db	Does not exceed 90db	Does not exceed 90db
Vibration Level	Does not exceed 2.5m/s2	Does not exceed 2.5m/s2	Does not exceed 2.5m/s2	Does not exceed 2.5m/s2
Voltage / Part No.	110V Part No' DRILL-HM50 240V Part No' DRILL-HM50/2	110V Part No' DRILL-HM50T 240V Part No' DRILL-HM50T/2	110V Part No' DRILL-HM50S 240V Part No' DRILL-LP45/1	110V Part No' DRILL-HM50S 240V Part No' DRILL-LP45/2

## LP45



Designed to fit into the most height restrictive areas.

**NEW**



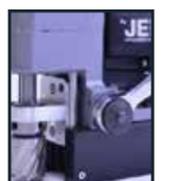
CE



Compact height



Ratchet handle



Positive quill assembly

### Features / Benefits:

- Compact Design – Only 180mm High.
- Big Capacity – Will handle up to 45mm diameter holes through 50mm plate.
- Convenient ratchet handle can be used in either a left or right hand position.
- 12mm twist drill capacity
- Maintenance Free – No adjustable slides, no exposed motor cord.
- Ideal for - Bridge Maintenance Work & Repairs - Platform Drilling - Steel Construction

SPECIFICATIONS		
MODEL	LP45	
	Metric	Imperial
Core Drilling	12 - 45mm	1/2" to 1-3/4"
Maximum Cutting Depth	55mm	2"
Twist Drill Capacity	3 - 12mm with 19mm Shank	1/2" with 3/4" Shank JEI
Countersink	JEI Part no. JEITD-SET	Part no. JEITD-SET
Weight	30mm	1-3/16"
Stroke	11kg	24.20 lbs
Height	63mm	2-1/2"
Overall Width (including spoke Handle)	178mm Fixed	7" Fixed
Overall Length	125mm	5"
Motor Power	310mm	12-1/4"
No of speeds	1150 watts	1150 watts
RPM Free running	1	1
RPM Under Load	500 RPM	500 RPM
Magnet Deadlift	290 RPM	290 RPM
Magnetic Base Dimensions	1200kg (on 25mm plate)	2640lbs (on 1" plate)
Noise Level	1180 x 85mm	7-1/8" x 3-1/3"
Voltage / Part No.	does not exceed 95dB	does not exceed 95dB
	110V Part no. DRILL-LP45/1 240V Part no. DRILL-LP45/2	110V Part no. DRILL-LP45/1 240V Part no. DRILL-LP45/2



## HM100



A durable, heavy duty, 3 morse taper drilling machine



250mm drill travel



Simple operating panel



Maintenance free slide rails



### Features / Benefits

- Heavy duty 1800 watt motor  
Enables large cutting capacity
- Weighs only 20kg and 100mm cutter capacity  
Unrivalled weight to cutting capacity ratio
- 4 Speed gearbox  
Ideal for a wide selection of cutting operations
- 250mm total drill travel  
Facility to use 150mm (6") long cutters
- Maintenance friendly twin slide rails  
No wearing parts and adjustment free operation

SPECIFICATIONS	
MODEL	HM100
Spindle	MT3
Weight	20kg
Max. Stroke	250mm
Cutter Capacity	100mm Ø x 6" depth of cut
Tapping Capacity	n/a
Twist Drill Capacity	19mm with 3MT chuck 32mm with 3MT twist drill
Countersink Capacity	55mm
Motor	1700 watts
RPM	4 fixed speeds 110 175 245 385
Height	480mm
Length	340mm
Width	130mm
Magnetic Base	Fixed
Magnetic Base Dimensions	102mm x 212mm
Magnet Deadlift (on 25mm plate)	2050kg
Noise Level	Does not exceed 90dB
Vibration Level	Does not exceed 2,5m/s <sup>2</sup>
Voltage / Part No.	110V Part No' DRILL-HM100 240V Part No' DRILL-HM100/2

## HM100T & HM100S



With all the same features of the HM100\* with tapping or swivel base options.



- Built-in forward / reverse operation  
Ability to tap pre-drilled holes up to M30



- 360° Swivel base  
For enhanced drilling precision and increasing versatility
- Even longer total drill travel - 280mm  
Facility to use 150mm (6") long cutters

### TAPPING ACCESSORIES FOR HM100T

Tapping Accessories		Description	
JEITAP224N		3 Morse taper tapping head (non reversing)	
Tapping Collet Part No	Size	Tapping Collet Part No	Size
JEICOLLET8MM	M8	JEICOLLET20MM	M20
JEICOLLET10MM	M10	JEICOLLET22MM	M22
JEICOLLET12MM	M12	JEICOLLET24MM	M24
JEICOLLET14MM	M14	JEICOLLET26MM	M26
JEICOLLET16MM	M16	JEICOLLET28MM	M28
JEICOLLET18MM	M18	JEICOLLET30MM	M30

\* Except 4 speed gearbox, the HM100T features a 2 speed variable - see specifications

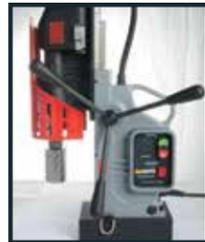
SPECIFICATIONS			
MODEL	HM100T	HM100S	
Spindle	MT3	MT3	MT3
Weight	21kg	21kg	21kg
Max. Stroke	250mm	280mm	280mm
Cutter Capacity	100mm Ø x 6" depth of cut	100mm Ø x 6" depth of cut	100mm Ø x 6" depth of cut
Tapping Capacity	M30	n/a	n/a
Twist Drill Capacity	19mm with 3MT chuck 32mm with 3MT twist drill	19mm with 3MT chuck 32mm with 3MT twist drill	19mm with 3MT chuck 32mm with 3MT twist drill
Countersink Capacity	55mm	55mm	55mm
Motor	1800 watts	1700 watts	1700 watts
RPM	2 variable speeds 60-140 200-470	4 fixed speeds 110 175 245 385	4 fixed speeds 110 175 245 385
Height	480mm	480mm	480mm
Length	340mm	360mm	360mm
Width	130mm	130mm	130mm
Magnetic Base	Fixed	Swivel 360 degrees	
Magnetic Base Dimensions	102mm x 212mm	102mm x 212mm	
Magnet Deadlift (on 25mm plate)	2050kg	2050kg	
Noise Level	Does not exceed 90dB	Does not exceed 90dB	
Vibration Level	Does not exceed 2,5m/s <sup>2</sup>	Does not exceed 2,5m/s <sup>2</sup>	
Voltage / Part No.	110V Part No' DRILL-HM100T 240V Part No' DRILL-HM100T/2	110V Part No' DRILL-HM100S	240V Part No' DRILL-HM100S/2



## MagBeast 4mt



A powerful 4 horse taper, heavy duty magnetic drill.



Maximum stroke 230mm



User-friendly control panel



Speed range and gauge



### Features / Benefits:

- Powerful 1800 watt motor.
- Impressive 4 speed gearbox - increasing flexibility of use.
- Overload protection with L.E.D indicator.
- Integrated gearbox housing with slide.
- Semi-automatic gib backlash adjustment.
- Service friendly.

SPECIFICATIONS		
MODEL	MAGBEAST 4	
	Metric	Imperial
Spindle	MT4	MT4
Weight	31kg	68.2 lbs
Cutter Capacity	110mm Ø x 4" depth of cut	4-3/8" Ø x 4" depth of cut
Twist Drill Capacity	47 Ø mm	1-7/8" Ø
Countersink Capacity	63mm Ø	2-1/2" Ø
Tapping Capacity	M30 (special tapping attachment required)	M30 (special tapping attachment required)
Motor	1800 watts	1800 watts
Height	Min 570mm / Max 800mm	Min 22-7/8" / Max 31-1/2"
Length	460mm	18-1/8"
Width	260mm (with handles)	10-15/64" (with handles)
RPM	4 Fixed Speeds 85 135 160 250	4 Fixed Speeds 85 135 160 250
Magnetic Base Dimensions	120 x 240mm	4-3/4" x 9-1/2"
Magnet Deadlift (on 25mm plate)	2242kg	2242kg
Noise Level	Does not exceed 90dB	Does not exceed 90dB
Vibration Level	Does not exceed 2,5m/s <sup>2</sup>	Does not exceed 2,5m/s <sup>2</sup>
Voltage / Part No.	110V Part No' DRILL-MB4 240V Part No' DRILL-MB4/2	110V Part No' DRILL-MB4 240V Part No' DRILL-MB4/2

## MagBeast 5mt



An exceptional portable magnetic drill which solves the most challenging of applications.



Incredible 52mm tapping capacity



Adjustable frame for extra large cutters



Includes pressurized coolant system

SPECIFICATIONS		
MODEL	MAGBEAST 5	
	Metric	Imperial
Spindle	MT5	MT5
Weight	53kg	116.6 lbs
Cutter Capacity	200mm Ø x 10" depth of cut	7 - 7/8" Ø x 10" depth of cut
Twist Drill Capacity	52mm Ø	2" Ø
Countersink Capacity	110mm Ø	4-3/8" Ø
Tapping Capacity	M52	M52
Motor	3000 watts	3000 watts
Height	Min 710/ Max 975mm	Min 28" / Max 38-3/8"
Length	540mm	21-1/4"
Width	300mm (with handles)	11-13/16"
RPM	4 Variable Speeds: 28-60, 62-130, 100-210, 216-450	4 Variable Speeds: 28-60, 62-130, 100-210, 216-450
Magnetic Base Dimensions	140 x 295mm	5-1/2" x 11-39/64"
Magnet Deadlift (on 25mm plate)	2300kg	2300kg
Noise Level	Does not exceed 90dB	Does not exceed 90dB
Vibration Level	Does not exceed 2,5m/s <sup>2</sup>	Does not exceed 2,5m/s <sup>2</sup>
Voltage / Part No.	240V Part No' DRILL-MB5/2C	240V Part No' DRILL-MB5/2C

### Features / Benefits:

- An incredible 200mm cutter capacity
- M52 tapping capacity
- Commanding 3000 watt motor.
- Remarkable 4 variable speed gear box for enhanced flexibility and handling

**FULL RANGE OF TAPPING COLLETS AVAILABLE**



### Airforce 35



A pneumatic drill specifically designed for space restricted and hazardous environments.



Now conforms to ATEX II 2 G/D c 11C T6/T4 Standard For Equipment Used in Hazardous Environments

#### Features / Benefits:

- Pneumatic drive and permanent magnetic base eliminates the need for electric power.
- Compact - only 180mm high.
- Light-weight.
- Great safety features.
- Strong permanent magnet base.
- Ideal for hazardous environments such as oil drilling platforms, mining industry, shipbuilding or petrochemical industry.

#### SPECIFICATIONS

MODEL	AIRFORCE 35	
	Metric	Imperial
Weight	17kg	37.40 lbs
Cutter Capacity	35mm Ø x 1" depth of cut	1-3/8" Ø x 1" depth of cut
Air consumption	1400 l/min	1400 l/min
Arbor bore	19mm Weldon	3/4" Weldon
Height	180mm	7-5/16"
Length	480mm	18-7/8"
Width	168mm	6-5/8"
Magnetic Base Dimensions	180 x 80 x 36.5mm	7-5/16" x 3-9/16" x 1-7/16"
Magnet dead lift	6500 N (on 25mm plate)	1433lbs (on 1" plate)
Pneumatic Part No'	DRILL-AIR35A/ATEX	DRILL-AIR35A/ATEX

### Airforce 45



A pioneering 2 morse taper pneumatic drilling machine.



#### Features / Benefits:

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

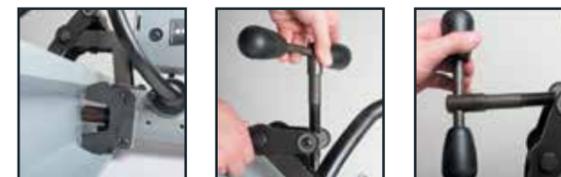
#### SPECIFICATIONS

MODEL	AIRFORCE 45	
	Metric	Imperial
Weight	19kg	41lbs
Spindle	MT2	MT2
Cutter Capacity	45mm x 2" depth of cut	1-3/4" x 2" depth of cut
Twist Drill Capacity	24mm	15/16"
Air consumption	1400 l/min	1400 l/min
Stroke	150mm	5-7/8"
Height	540 max 680mm	21-1/4" max 26-3/4"
Length	363mm	14-5/16"
Width	262mm	10-5/16"
Magnetic Base Dimensions	160 x 80 x 80	6-5/16" x 3-1/8" x 3-1/8"
Magnet dead lift	8000 N (on 25mm plate)	1798lbs (on 1" plate)
Pneumatic Part No'	DRILL-AIR45A	DRILL-AIR45A

### Rail Electric



Powerful yet compact, light-weight machine specifically designed for drilling in rail tracks.



Featuring clamp and Turbo Rail Cutter  
Simple handle to clamp drill to rail  
Quick release system to disengage clamp

#### Features / Benefits:

- 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.
- Rail templates (formers) available which are suitable for any rail profile.

#### SPECIFICATIONS

MODEL	RAIL ELECTRIC	
	Metric	Imperial
Weight	15.3kg	33.66 lbs
Drilling Capacity -	16mm Ø	5/8" Ø
Cutter Capacity - max	36mm Ø	1-7/16" Ø
Depth of cut	30mm	1-3/16"
Stroke	40mm	1-9/16"
Motor	1200W	1200W
RPM	250	250
Arbor bore	19mm Weldon Shank	3/4" Weldon Shank
Voltage / Part No'	110V Part No' DRILL-RAIL/E 240V Part No' DRILL-RAIL/E2	110V Part No' DRILL-RAIL/E 240V Part No' DRILL-RAIL/E2

### Rail Petrol



Equipped with a Honda 4 stroke engine, powered for rail track drilling.



For best results use Turbo Rail  
Powerful 4 stroke engine  
Petrol gauge

#### Features / Benefits:

- 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.
- Rail templates (formers) available which are suitable for any rail profile.

#### SPECIFICATIONS

MODEL	RAIL PETROL	
	Metric	Imperial
Power Supply	Honda Engine GXH50	Honda Engine GXH50
Engine	2HP (1.5kW)	2HP (1.5kW)
Max. Torque	3.04 Nm at 4500 rpm	3.04 Nm at 4500 rpm
Weight	23kg	50 lbs
Cutter Capacity	36mm Ø	1-7/16" Ø
Depth of cut	30mm	1-3/16"
Twist Drill Capacity	16mm Ø	5/8" Ø
Stroke	40mm	1-9/16"
Arbor Speed	Min 150 rpm Max 225 rpm	Min 150 rpm Max 225 rpm
Arbor Bore	19mm shank	3/4" Shank
Part No'	DRILL-RAIL/P	DRILL-RAIL/P



## 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 HRA so it is able to drill up to 750N/mm2.

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

Cutter Type	M2
Size Range	10.5mm - 115mm Ø
Cutting Depths	1", 2"
Max. Tensile Strength	<750RM (N/mm2)
Ideal for	Most mild and structural steel



### 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

Also available as a countersinking tool

## 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.

Cutter Type	TCT
Size Range	12mm - 200mm Ø
Cutting Depths	1", 2", 3", 4", 6"
Max. Tensile Strength	<1200RM (N/mm2)
Ideal for	Mild steel, cast iron and structural steel



### 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

Also available as a countersinking tool

## Turbo Endurance

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



Cutter Type	Coated
Size Range	12mm - 52mm Ø
Cutting Depths	1", 2"
Max. Tensile Strength	<1000RM (N/mm2)
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.



Cutter Type	Rail Coated
Size Range	13.5mm - 36mm Ø
Cutting Depths	1"
Max. Tensile Strength	<1600RM (N/mm2)
Ideal for	All types of rail track drilling

Also available in Turbo Rail - without coating.

## 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.

Cutter Type	TCT Super Coated
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
JEICLSET15	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.
- 2 sizes available to cover the complete JEI range of magnetic drilling machines.



PART NUMBER	PLATE SIZE TO SUIT MAGNETIC BASE (L X W)
JENPAD-S	200mm x 135mm
JENPAD-L	300mm x 250mm

## 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-40	Turbo Steel Countersink, 40mm 90 degree
JEICSK-50	Turbo Steel Countersink, 50mm 90 degree
JEICSK-55	Turbo Steel Countersink, 55mm 90 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



## Regrinding Machine

A simple, easy to use machine, specifically designed for one purpose - regrinding annular cutting tools. Saves time and money in carrying out an effective cutter regrind, particularly if the customer is in urgent need of continued production drilling.

For use with JEI Turbo Steel or other Brands of HSS annular cutters, with a 19mm Shank. Will Regrind Cutters from 12mm Diameter to 50mm Diameter in cutting depths of 1" (25mm) and 2" (50mm).



### Features / Benefits:

- Simple set up 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
- Laser guided cutter alignment - ensure correct positioning of cutting edge to the wheel
- Additional Gullet Reforming Wheel supplied - Get extra life out of the annular cutter
- Will re-sharpen cutters from 12mm diameter to 50mm Diameter in cutting depths of 25mm and 50mm
- Supplied with full range of index plates - to cover most cutter diameters / no. of teeth (HSS type Only)

SPECIFICATIONS	
Dimensions LxWxH	410 x 412 x 390mm (without optics)
Net Weight	29kg
Power supply	230 Volts, 50 / 60 Hz
Motor Power Speed	0.12 kW, 2,800rpm
Noise Emission dBa	<70
Grinding Disk	Diamond grinding disc, Ø125mm, Bore Ø10mm
Annular Cutter Holder Shaft Bore	19mm (weld on shaft) serial 32mm (weld on shaft) optional on request

Please ask about our range of cutter regrinding machine accessories.

## Industrial 14" Metal Cutting Saw

Back by popular demand is the SteelBeast 14" Saw.

### Features / Benefits:

- 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 warranty.
- Available in 110v or 240v options.

SPECIFICATIONS		
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

MILD STEEL	
7" 180mm diameter 20mm bore	Part No' MCBLO7 180mm x 36 teeth
9" 230mm diameter 25.4 bore	Part No' MCBLO9 230mm x 48 teeth
14" 355mm diameter 25.4 bore	Part No' MCBL14 355mm x 66 teeth

## Premium Grade TCT Metal Cutting Saw Blades

### BM16R Plate & Pipe Beveling Machine

For straight edge or radius beveling.



**A quick and easy system for paint ready edge preparation**

A portable, handy solution designed for milling edges of steel, aluminium, alloys, brass or plastic.

With the new EN1090 & EN-ISO12944 Part 2 applications, many clients are demanding a soft or radius edge before painting. 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.



**Features:**

- Minimum bevel thickness of 1.5mm, maximum 16mm
- Countersink holes with a minimum 40mm diameter
- Continuous bevel width adjustment
- Overload protection
- Electronic speed control

SPECIFICATIONS	
MODEL	BM16
Motor	2200W
Spindle Speed (without load)	1800 – 5850 RPM
Minimum diameter of countersinking	ca 40mm
Beveling angles	22.5°, 30°, 37.5°, 45°, 55° or 60°
Length	585mm
Width	156mm
Height	238mm
Weight (without milling head)	10kg
Power Supply	110v or 220v/ 50-60Hz

**BM16 Package Includes:**

- BM16 machine
- Milling Head and inserts of customer's choice
- Metal Box
- 14mm Allen Key
- 5mm Allen Key
- 32mm Flat key
- Operators manual
- Bevel angles

For full list of accessories and consumable parts please visit [www.jeiuk.com](http://www.jeiuk.com)

### BM21 Plate & Pipe Beveling Machine

A new generation portable beveling machine designed for beveling both plate and pipes with ease and accuracy.



Plate beveling



Milling head



Pipe beveling



Angle adjustment

**NEW BM21-S**  
Available for Stainless Steel  
Ask for details



**Features:**

- Single milling head equipped with 10 square inserts, simplifying the machining process.
- Fast and easy exchange of insert with no need to special adjustments.
- Extended work range from 0 to 60 degrees with continuous angle adjustment.
- Easy setting of bevel angel and width.
- Vibration insulation providing added protection for both user and machine.
- One universal guide plate for beveling both plates and pipes which replaces 3 different attachments used with the BM20.
- Optional attachment available for larger pipe.

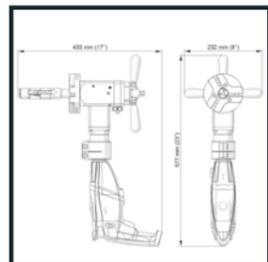
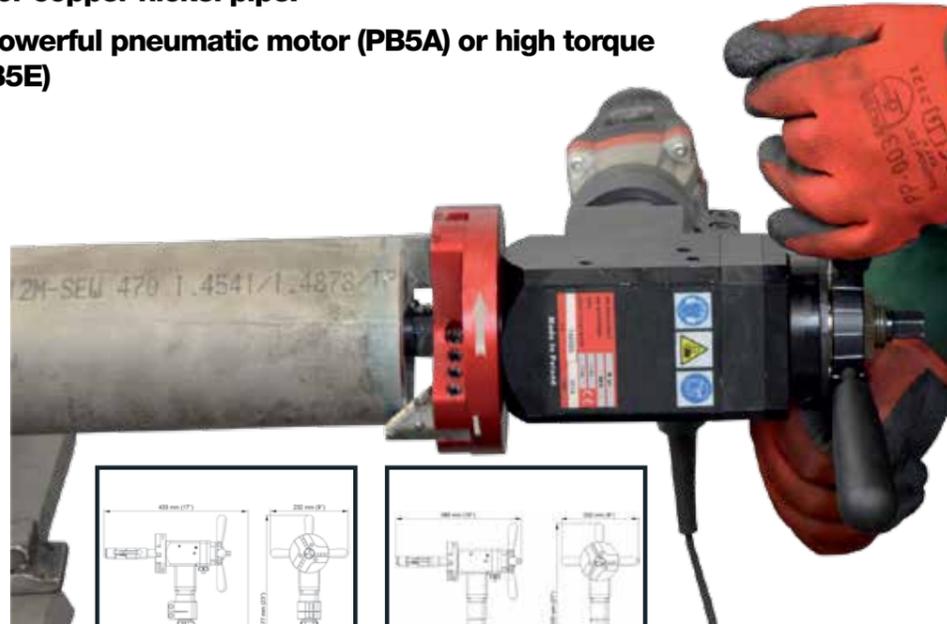
SPECIFICATIONS	
MODEL	BM-21
Motor	1.1kW
Maximum Bevel Width	21mm
Motor Speed	2800 RPM
Angle Range	0-60° with continuous angle adjustment
Tooling	Integrated milling head with 10 square adjustments
Weight	20kg
Power Supply	230VAC/50Hz or 115 VAC/60Hz



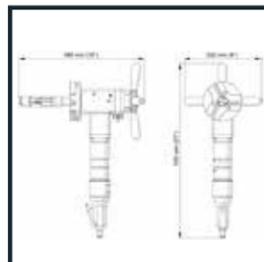
### PB5A/PB5E Portable Pipe Beveling Machine

A portable pipe beveling machine for milling edges of carbon, stainless steel, aluminium alloys or copper nickel pipe.

Available with a powerful pneumatic motor (PB5A) or high torque electric motor (PB5E)



PB5E Electric



PB5A Pneumatic

#### Features/Benefits:

- Can perform external beveling, J-beveling, internal calibration.
- Up to three tool bits can be mounted and work simultaneously.
- Optional small spindle disc and ratchet wrench enable pipe machining in space restricted areas.
- Single operator use.

#### Package Includes:

- PB5 (including either electric PB5E or pneumatic PB5A motor)
- Metal box
- Standard self-centering expandable mandrel for pipe ID Ø 32 - 107mm
- 118mm spindle disc
- Jaw blocks (1,2,3,4,5,6) - 3 sets
- Set of tools
- Coolant container
- 1 set (3) cutting inserts of customers choice

Please ask about our full range of optional accessories



Package contents

#### SPECIFICATIONS

MODEL	PB5E - ELECTRIC	PB5A - PNEUMATIC
Weight (inc. Motor)	11kg	10kg
Rational speed (nominal)	gear 1 - 0 to 90 RPM gear 2 - 0 to 300 PRM	90 RPM
Air Requirements	n/a	0,6 Mpa (87 PSI)
Air Consumption	n/a	1600 l/min (49.4 CFM)
Pipe Diameter	32mm ID to 114mm OD	
Maximum pipe wall thickness for outside diameter:	up to 114mm 12mm 114 - 124mm* 10mm 124 - 132mm 8mm 124 - 132mm 6mm	
Pneumatic drive	n/a	800 Watts
Electric Motor	1.100 watts	n/a
Power Supply	110v or 220v/ 50-60Hz	n/a

\* Available with the optional 140mm spindle disc set.

### ABM28 Autofeed

A new generation auto feed machine with the ability to bevel steel on top, front and bottom edges.



#### Features:

- Simple start up auto feed, which runs without the assistance of an operator.
- Continuous adjustment bevel angles between 60° and -60°, eliminating the need to turn the plate over.
- Maximum bevel width (depending on angle) from 28 up to 35mm.
- Variable feed control for work on a variety of steel grades and thickness (up to 35mm as standard or optionally up to 70mm).
- Beveling in both travel directions.
- Motor overload protection.
- J-groove beveling option available.
- Optional extendable rails.



#### Package Includes:

- Carriage mounted on a guide track.
- Milling unit.
- Milling unit support for beveling at 60° to -60°.
- Additional guide track section.
- Track clamp for 10-35mm plates (3pcs).
- Chip container.
- Set of tools.
- Clamp for 10-35mm thick plates (2pcs).
- Wooden box.
- Operators manual.



### XL15

An innovative variable angle plate bevelling machine capable of producing a double sided weld prep.

**Features / Benefits:**

- Produces a bevel ready for welding on any steel plate or component from 5 to 40mm thickness.
- A minimum width of 70mm and minimum working length of 150mm.
- Simple, variable adjustment bevel angle from between 15 and 50 degrees without replacing any parts.
- Cutters available for mild and stainless steel bevelling.
- Easy setting of material thickness and cut with easily visible graduated scales for simple set up.
- Operator friendly handles for transferring the machine around the workplace or positioning during long machining processes.
- High quality and hard performing working parts.
- Electronic operating system enclosed in a safety conscious, heavy duty control box.



XL15 Shown with optional 3D frame.

SPECIFICATIONS	
Model	XL15
Maximum Bevel Width	15mm
Bevel Angle	15-50 degrees - variable
Material Thickness	6-40mm
Motor Power	1500 Watt
Motor Speed	2800 RPM
Nominal Feed Rate	3.5 metre/min
Weight	94kg
Dimensions	530 x 395 x 860mm

### XL50

A unique double sided bevelling machine.

**Features:**

- Designed to bevel Mild Steel, Stainless, HARDOX, DOMEX and Aluminium.
- 15 to 60 degrees infinitely variable angle – no extra parts required.
- 40mm maximum bevel width.
- Will bevel plate from 7mm to 70mm thickness.
- Use with the unique 3-D Plus bevelling system to create a double bevel, without the use of an overhead crane, in a simple quick operation.



XL50 with 3D Plus



Optional equipment available for bevelling small components

SPECIFICATIONS	
Model	XL50
Weight	175kg (including 3D Plus)
Maximum Bevel Cut Width	Width 62mm at 15 degrees (recommended in 3 cuts)
Bevel Angle	15-60° infinitely variable
Material Thickness	7 to 70mm
Motor Power	4000 Watt / 400v 3 phase
Cutting Speed	1.8 meter/min

### BG75 & BG150 Industrial Belt Grinders

Heavy duty and durable belt grinders built for every industrial steel grinding and stock removal applicable.



BG75



BG150X with extraction



Contact wheel for rapid stock removal



Top grinding surface

**Features / Benefits:**

- Solid cast construction for the industrial environment.
- Heavy duty contact wheel, premium rubber coated to absorb pressure from 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 5 year warranty.
- Available with optional dust extraction (see BG75X & BG150X)

SPECIFICATIONS				
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	4.1 hp	4.1 hp	4.8 hp	4.8 hp
	3 Phs X 380-440V 50Hz			
Rpm	3000	3000	3000	3000
Belt Speed (metres per second)	30	30	30	30
Contact Wheel	Ø200 X 75	Ø200 X 75	Ø200 X 150	Ø200 X 150
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



### HP110 Portable Hydraulic Puncher Machine

A double action, fully automated process of punching and return, ready to work in both horizontal and vertical positions



**Features / Benefits:**

- Wide range of hole diameters up to 27mm.
- Intelligent control system with inching and automatic load detection.
- Mode indicator light.
- Protection against accidental start up.
- All connection ports located at the back.
- Broad range of special shaped punches and dies.
- Patent pending compact moveable hydraulic power pack.
- Accessible and simple operations for restricted areas.



SPECIFICATIONS	
Model	HP110
Weight	20kg
Motor	1500 watts
Max. Thickness	16mm
Max. Throat Depth	110mm
Max. Hole	27mm
Max. Oblong Hole	25 x 18mm
Punching Time	8 seconds
Height	388mm
Length	479mm
Width	135mm
Punching Power	47 ton
Pump Output	1.5 L/min
Oil Capacity	10L
Double Action Hydraulic Movement	YES
Working Pressure	700 bar
Voltage	115V or 230V

### Roto-Star

High precision range of Rotary Welding Positioners

Roto-Star III with plate



Also available for Roto-Star 1



Roto-Star III



Roto-Star I

**Features & Benefits**

- **Available With A Three Jaw Chuck or Surface Plate**  
Designed to hold a wide range of parts
- **Heavy Duty Construction**  
Supports work pieces up to 125kg
- **Unique Through Spindle Feature**  
Will accommodate any length of material up to 2-1/2" (63.5mm) diameter
- **Dual Grounding System**  
Makes it ideal for Aluminum or Stainless Steel Welding
- **Variable Speed Control Panel**  
With smooth movement forward and reverse from 0 to 15 RPM
- **Work Head Positions 0 to 90 Degrees**  
Increases machine versatility
- **Stop/Start Foot Pedal Operation**  
For hands-free operation
- **Available with Optional Variable Speed Foot Pedal**  
Puts the operator in full control.

SPECIFICATIONS				
	Roto-Star I	Roto-Star III	Roto-Star I - P with plate ROTO1-P	Roto-Star III - P with plate ROTO3-P
Part no.	ROTO1	ROTO3		
Chuck	6" / 152mm	8" / 203mm	-	-
Swing @ 0° (maximum)	16" / 406mm	20" / 508mm	16" / 406mm	20" / 508mm
Vertical weight capacity	100kg	125kg	100kg	125kg
Horizontal weight capacity	50kg	75kg	50kg	75kg
Thru spindle part capacity	1-1/2" 38.1mm	2-1/2" 63.5mm	-	-
Spindle rotation	360°	360°	360°	360°
Spindle speed	0 - 15RPM	0 - 8RPM	0 - 15RPM	0 - 8RPM
Angle adjustment*	0 - 90°	0 - 90°	0 - 90°	0 - 90°
Grounding capacity	300A	300A	300A	300A
Voltage	110v or 240v	110v or 240v	110v or 240v	110v or 240v
Shipping Weight	30kg	45kg	22.5kg	32.5kg
Optional rotary table	12" / 304mm dia	16" / 406mm dia	-	-
Fixed rotary table	-	-	12" / 304mm dia	16" / 406mm dia

\* Adjusts in 15° increments.



# Service & Repair Solutions

**JEI can give your magnetic drilling machine a new lease of life!**

**Energise a tired and well used machine back to pristine working condition with the JEI full maintenance and repair service for ALL models of magnetic drilling machines. Whether it's a service or replacement to damage or worn parts, JEI are on hand to assist, providing a full quote prior to any work being undertaken.**

**To ensure a prompt turn around, JEI hold an extensive range of spare parts, not limited to the JEI range and also include a selection of Jancy Slugger machines.**



## Turbo Tailored

**Turbo Tailored is JEI's own in-house comprehensive cutter design and manufacturing service. From initial design right through to delivery, JEI's team of technical experts are able to create cutters for a varied and wide range of cutting and drilling applications.**

JEI Solutions has a broad experience in difficult and exotic materials and will advise on the correct tool material, geometry and coatings to optimise tool life and performance to achieve the most cost effective production results.

JEI can tailor make the following to specific customer requirements:

- Special annular broaching cutters
- Countersinks
- Endmills
- Slot drills
- Counterbores
- Side and face cutters
- Fur tree cutters
- Insert modification



### Approved JEI Distributor:

**JEI Solutions.**  
Unit 30, New Hall Hey Business Park,  
Rawtenstall, Rossendale,  
Lancashire BB4 6HR. U.K.

**Tel: +44 (0)1706 229490**  
**Fax: +44 (0)1706 830496**

**Email: [sales@jeisolutions.co.uk](mailto:sales@jeisolutions.co.uk)**  
**Web: [www.jeiuk.com](http://www.jeiuk.com)**

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