

# 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.

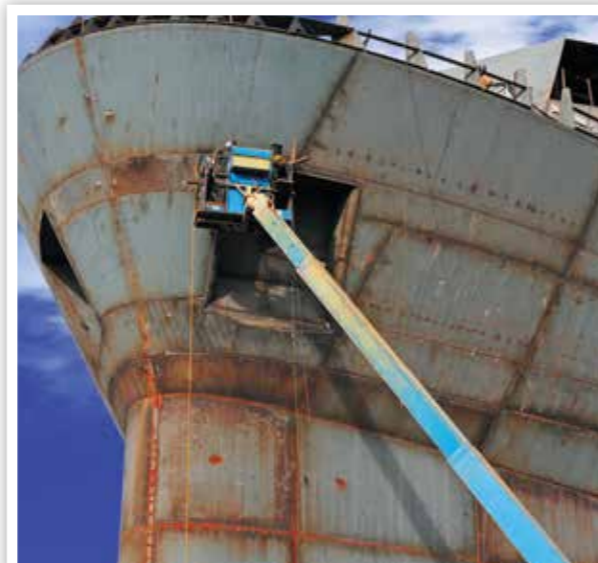
JEI's own key brands of MagBeast® portable magnetic drilling machines and Turbo™ annular broaching cutters are manufactured to the highest standards to meet the demanding challenges of a heavily industrial market. This is further complimented by the SteelBeast® range of metal fabricating equipment and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



# 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



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	½" 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.



## Minibeast Auto



The worlds smallest automatic magnetic drilling machine.

**NEW**  
Market Exclusive



Compact automatic



### 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	1000 Watts	1000 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.



13mm twist drill capacity with optional attachment



User-friendly control panel



Maximum stroke 120mm

### Features / Benefits:

- Powerful 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.

**NEW**



23mm 2MT twist drill capacity



Packed in a durable case



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	MAGBEAST HM50	
	Metric	Imperial
Spindle	MT2	MT2
Weight	13kg	28.6lbs
Max Stroke	150mm	5- 29/32"
Cutter Capacity	50mm Ø x 4" depth of cut	2" Ø x 4" depth of cut
Twist Drill Capacity	13mm with 2MT chuck 23mm with 2MT twist drill	33/64" with 2MT chuck 29/32" with 2MT twist drill
Countersink Capacity	40mm	1-37/64"
Motor	1150 watts	1150 watts
RPM	2 Fixed Speeds No load 465/270RPM Loaded 250/450RPM	2 Fixed Speeds No load 465/270RPM Loaded 250/450RPM
Height	410mm / 560mm	16-9/64" / 22-3/64"
Length	280mm	11-1/32"
Width	120mm	4-23/32"
Magnetic Base Dimensions	85 x 180mm	3-11/32" x 7-3/30"
Magnet Deadlift	1250kg (on 25mm plate)	2750lbs (on 1" plate)
Noise Level	Does not exceed 90db	Does not exceed 90db
Vibration Level	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-HM50 240V Part No' DRILL-HM50/2

## LP45



Designed to fit into the most height restrictive areas.

**NEW**



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.
  - 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 JEI Part no. JEITD-SET	1/2" with 3/4" Shank JEI Part no. JEITD-SET
Countersink	30mm	1-3/16"
Weight	11kg	24.20 lbs
Stroke	63mm	2-1/2"
Height	178mm Fixed	7" Fixed
Overall Width (including spoke Handle)	125mm	5"
Overall Length	310mm	12-1/4"
Motor Power	1150 watts	1150 watts
No of speeds	1	1
RPM Free running	500 RPM	500 RPM
RPM Under Load	290 RPM	290 RPM
Magnet Deadlift	1200kg (on 25mm plate)	2640lbs (on 1" plate)
Magnetic Base Dimensions	1180 x 85mm	7-1/8" x 3-1/3"
Noise Level	does not exceed 95dB	does not exceed 95dB
Voltage / Part No.	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.



HM100T tapping option



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



HM100S swivel base



- 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
Weight	21kg	21kg
Max. Stroke	250mm	280mm
Cutter Capacity	100mm Ø x 6" depth of cut	100mm Ø x 6" depth of cut
Tapping Capacity	M30	n/a
Twist Drill Capacity	19mm with 3MT chuck 32mm with 3MT twist drill	19mm with 3MT chuck 32mm with 3MT twist drill
Countersink Capacity	55mm	55mm
Motor	1800 watts	1700 watts
RPM	2 variable speeds 60-140 200-470	4 fixed speeds 110 175 245 385
Height	480mm	480mm
Length	340mm	360mm
Width	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"
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 pressurised 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	M50	2"
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"
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



### Airforce 35



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

**NEW**  
ATEX version available



With coolant bottle



Only 180mm high



Compact & portable

#### 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	13kg	28.6 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 DRILL-AIR35A/ATEX	DRILL-AIR35A 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

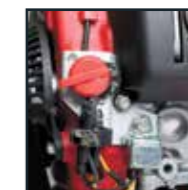
### Rail Petrol



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

