

FEIN. Unverwüstliche  
Elektrowerkzeuge.



# FEIN METAL CORE DRILLING

User-oriented solutions from the specialist



**FEIN • SLUGGER**

**NOVEMBER 2015**

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## Profit from FEIN system expertise.

No other power tool manufacturer offers you as much experience in the core drilling field. FEIN knowledge has been built up over decades, and built into every aspect of FEIN core drilling.

FEIN offers you a core drilling system for metal in which machine, core bits, and accessories are precisely matched to each other. Premium quality, first class materials and excellent workmanship make FEIN core drilling units durable in the truest sense of the word.

Whether you are drilling steel, stainless steel, or aluminum: with our extensive range of core bits and system accessories, we are ready with the correct solution for every application.

The FEIN core drilling system will revolutionize your work!



## History and Innovation

For over 140 years, the FEIN brand has stood for application solutions and premium quality. FEIN continues to manufacture the highest quality drills and electric power tools; products specifically designed for intensive daily use in industry and skilled trades. Each and every FEIN high performance power tool meets the challenge of solving an application with an operator-oriented approach, and lives up to the FEIN reputation for durability and performance.

C. & E. FEIN GmbH was founded by Wilhelm Emil Fein in 1867, who invented the first power tool – the electric hand drill – in 1895. Today this long-established German manufacturer develops and produces application solutions for the metalworking, interior construction, and automotive sectors and is the specialist for professional and extremely reliable power tools for industry and trades.

FEIN holds more than 800 active property rights including approximately 500 patents and patent applications. FEIN products are distributed worldwide through 17 international subsidiaries and more than 50 agents.



### FEIN, the core drilling specialists

FEIN offers you a core drilling system for metal in which machine, core bits, and accessories are precisely matched to each other. Robust and durable core drills, with an extensive range of cutters and system accessories, to provide the correct solution for every application.

### FEIN, proven in metalworking

Grinders, nibblers, shears, hacksaws, drills, screwdrivers, balancers and more. With a constantly growing range of industry-specific solutions for metalworking, our industrial and trade customers achieve the maximum in efficiency and productivity.

### FEIN, high performance abrasives

State-of-the-art quality, high performance products made for serious industrial applications yet competitively priced. Specially developed product line based on expertise gained from numerous years of extensive industry experience.

### FEIN, belt grinding systems for professionals

GRIT, the modular belt grinder brand from FEIN, is a system based on the building block principle. Offering flexibility in grinding and notching pipe, square and rectangular tubing, bar stock and profiles, and efficient finishing of round stock. Tough, flexible and cost-effective.

### FEIN, the leader in finishing expertise

FEIN polishers are the most powerful on the market and feature electronic speed control for constant speed and torque over the entire setting range. Whether inline finishing, stainless steel satin finishing, or mirror finish preparation; achieve excellent results with the FEIN range of polishing tools and wide selection of polishing accessories.

### FEIN, revolutionizing the renovation industry

Over 40 years of oscillating technology makes FEIN world leaders in oscillation. Application-oriented, versatile and powerful systems for construction and renovation are offered with an extensive selection of accessories. FEIN oscillators, dust extractors, and sanding systems are the choice for professionals.

### FEIN, tried and true specialty products

High-Frequency Systems, Pipemilling Tools, Balancers, and Build-On Motors are some of the specialty products offered by FEIN as solutions for specialized applications.

## Outstanding performance, quality and technology.

### Functions and applications at a glance.

	KBM series	KBB series
<b>Application</b>		
Speed optimized for	Carbide cutter	HSS cutter
Cutting speed in steel (A 36)	SFM 145	SFM 85
Cutter tool mounting	QuickIN / 3/4" Weldon	3/4" Weldon
Magnetic base drilling	▲▲	▲▲
Twist drilling	▲▲	▲
Tapping / reaming / countersinking	▲▲*	
<b>Technical features</b>		
Magnetic holding force	▲▲	▲
Quick bit change system	▲▲	
Extra-large stroke range	▲▲	
Weight / compact design	▲▲	▲

	KBM series	KBB series
<b>Equipment</b>		
Forward / reverse operation	▲	
MT holder	▲	
Electronic speed setting	▲	
Integrated cooling lubricant unit	▲	▲▲
Fully-automatic drilling	▲**	
<b>Quality</b>		
Continuous / intensive use	▲▲	▲
Material quality and workmanship	▲▲	▲
Coordinated system components	▲▲	▲

\* KBM 125 taps only  
\*\* only with KBM Auto

▲ good / well suited    ▲▲ very good / very well suited

## Drill better. Work more economically and efficiently.



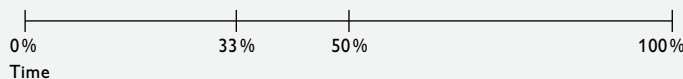
Magnetic base drilling with the FEIN mag drilling system gives you precise drilling results in considerably less time, and the cost per hole is significantly less than with conventional methods. Mag drilling with FEIN brings you important economic advantages:

- ▶ Fast work progress for quick drilling.
- ▶ No pre-drilling or tool changes: up to 3 times faster.
- ▶ The smaller cutting area reduces power usage and the feed effort required.

### Up to three times faster

Core drilling

Twist drilling



### The FEIN KBM Series:

- ▶ Universal use, high-quality tools.
- ▶ Long-life construction.
- ▶ Maximum quality.
- ▶ With optimized speed for carbide annular cutters.
- ▶ Optimum power-to-weight ratio.

### The FEIN KBB Series:

- ▶ Offers basic functionality for Slugger cutter applications.
- ▶ Durable construction, developed especially for tough applications.
- ▶ Renowned Slugger by FEIN quality.
- ▶ With optimized speed for HSS annular cutters.

## Applications



Core drilling



Twist drilling with chuck or MT 3 holder



Tapping with fast change tapping chuck



Countersinking



Reaming

KBM Overview	KBM 32 Q	KBM 50 Q	KBM 50 U	KBM 65 U	KBM 50 Auto	KBM 80 Auto
Magnetic base drilling in metal, up to 1 1/4" (32mm) dia.	▲▲	▲▲	▲▲	▲▲	▲▲	▲▲
Magnetic base drilling in metal, up to 2" (50mm) dia.		▲▲	▲▲	▲▲	▲▲	▲▲
Magnetic base drilling in metal, up to 2 9/16" (65mm) dia.				▲▲		▲▲
Magnetic base drilling in metal, up to 3 1/8" (80mm) dia.						▲▲
Use of carbide annular cutters	▲▲	▲▲	▲▲	▲▲	▲▲	▲▲
Use of HSS annular cutters	▲	▲	▲	▲		
Twist drilling with drill chuck (DIN 338)	▲▲	▲▲	▲▲	▲▲	▲▲	▲▲
Twist drilling with MT holder (DIN 345)			▲▲	▲▲	▲▲	▲▲
Tapping		▲▲	▲▲	▲▲	▲▲	▲▲
Countersinking		▲▲	▲▲	▲▲	▲▲	▲▲
Reaming		▲▲	▲▲	▲▲	▲▲	▲▲
Fully-automatic drilling					▲▲	▲▲
Working overhead	▲▲	▲▲	▲▲	▲▲	▲▲	▲
Installation work	▲▲	▲▲	▲▲	▲▲	▲▲	▲
Workshop jobs	▲▲	▲▲	▲▲	▲▲	▲▲	▲▲

▲ well suited    ▲▲ very well suited





## FEIN KBM Core Drills

<b>Model</b>	<b>KBM 32 Q</b>	<b>KBM 50 U</b>
Includes	Carrying case, safety strap, chip hook, chip guard, 2 QuickIN Weldon adaptors, 1/2" 3-jaw chuck, coolant pump, centering pins	Carrying case, coolant tank, safety strap, chip hook, chip guard, drift, centering pins
<b>Model</b>	<b>KBM 50 Q</b>	<b>KBM 65 U</b>
Includes	Carrying case, safety strap, coolant tank, chip hook, chip guard, centering pins	Carrying case, coolant tank, safety strap, chip hook, chip guard, drift, centering pins

### KBM 32 Q – Compact core drilling unit with high mobility for installation work.

CORE DRILLING UNIT UP TO 1 1/4" (32 mm)

#### FEIN Advantages

Small, extremely light core drill with outstanding handling for vertical and overhead use. Use of full length twist drills without removal of the machine from the work piece due to flexible stroke range.

- FEIN QuickIN mount
- High torque, high performance motor
- Powerful electromagnet
- Weighs only 23 lbs (10.5 kg)
- Cooling lubrication device
- Electronic overload protection
- Self-start lock



### KBM 50 Q – Lightweight core drilling unit with two-speed gear box for efficient drilling on-site.

CORE DRILLING UNIT UP TO 2" (50 mm)

#### FEIN Advantages

Lightweight, reversible magnetic core drill with two-speed gearbox for easy operation and efficient drilling in the workshop or on the construction site. Compact with high functionality for universal use, as well as simple and error-proof control concept in the operator's field of view. Double drill motor guides enable use of the largest core bits.

- QuickIN 3/4 Weldon tool holder
- High torque, high performance motor
- Powerful electromagnet
- Electronic speed control
- Magnetic holding force gauge
- Clearly visible controls
- Extra-large stroke range
- Clockwise / counterclockwise rotation
- Integrated cooling lubrication device
- Electronic overload protection
- Self-start lock



## FEIN KBM Series: for versatile applications and optimum speed

### Features & Benefits

FEIN QuickIN rapid attachment system, change tools in seconds

Robust and precise double dovetail guide with extra large stroke range

High torque, high performance motors

High magnetic holding force

Precision drilling results

Flexible stroke range

Compact lightweight design

Magnet monitoring system

Work safely in every position

Fully adjustable stroke, tool-free change

QuickIN tapping attachment (optional)



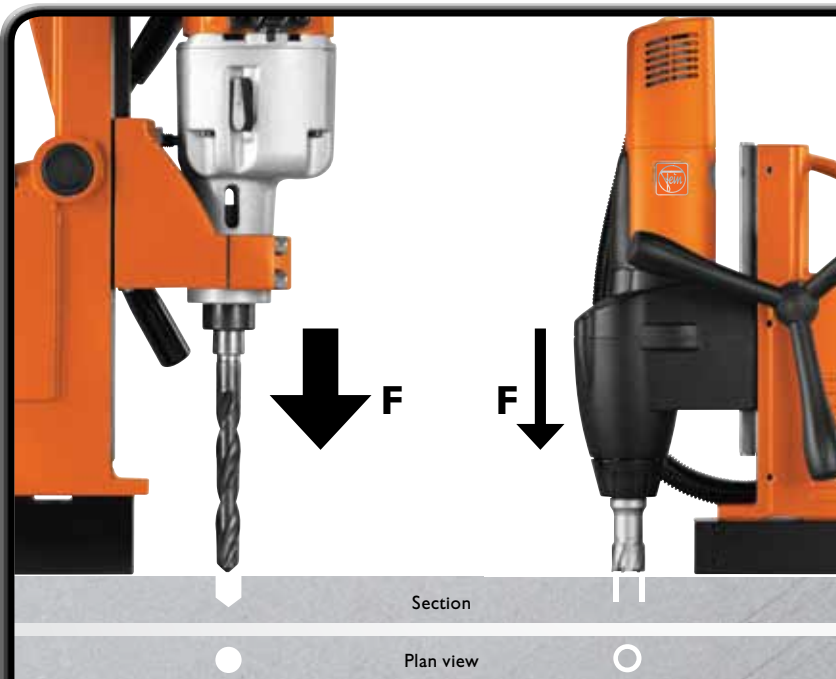
## KBM 50 U & KBM 65 U Universal two-speed reversible core drills.

KBM 50 U - UP TO 2" (50 mm)  
KBM 65 U - UP TO 2 9/16" (65 mm)

### FEIN Advantages

Two-speed reversible magnetic core drill for easy operation and efficient drilling in the workshop or on the construction site. Compact with high functionality for universal use, as well as simple and error-proof control concept in the operator's field of view. Double drill motor guides enable use of the largest core bits.

- QuickIN 3/4 Weldon tool holder
- MT3 mount
- Two-speed, reversible
- Electronic speed control
- Magnetic holding force gauge
- Clearly visible controls
- Extra-large stroke range
- Clockwise / counterclockwise rotation
- Cooling system integrated in the drill jig
- Electronic overload protection
- Self-start lock



## FEINOLGY

**Less power and time expenditure, fewer chips**

Unlike twist drilling, core drilling only removes material from a narrow ring instead of the entire hole area, resulting in a significantly reduced feed force requirement. This gives you reduced power consumption that protects user, cutter, and machine. The combination pilot and ejection pin automatically ejects the slug after penetration of the material. Overlapping holes – for example, for slots – and even offset holes can be made.

All this makes core drilling an enormously cost-effective drilling technique – faster, more energy efficient, and more accurate than twist drilling.

Centering, pre-drilling, finish drilling – a FEIN cutter completes all these steps in a single work cycle.



## FEIN KBM AUTO Core Drills

- Robust and precise double dovetail guide with extra large stroke range
- High torque, high performance motors
- High magnetic holding force
- Fully adjustable stroke, tool-free change
- Magnet monitoring system
- Work safely in every position

<b>Model</b>	<b>KBM 50 Auto</b>
Includes	Case, safety strap, coolant tank, chip hook, chip guard, drift, centering pins
<b>Model</b>	<b>KBM 80 Auto</b>
Includes	Case, safety strap, coolant tank, chip hook, chip guard, drift, centering pins, 1/2" chuck, QuickIN adapter for M18 x 6 P 1.5

## KBM 50 AUTO – Fully automatic two-speed reversible magnetic drill.

**CORE DRILLING UNIT  
UP TO 2" (50 mm)**

### FEIN Advantages

With a fully automatic digitally-controlled drill feed, the FEIN KBM 50 Auto is incredibly efficient yet totally mobile. Capable of drilling holes up to 2", the auto-feed provides repetitive drilling times and constant work progress, saving time and money with its unrivalled efficiency. A double drill motor guide gives this tool the largest stroke range on the market for even more versatility.

- MT 3 mount
- QuickIN 3/4 Weldon tool holder
- Extra long stroke
- Reversible
- Two speeds with electronic speed control
- Powerful electromagnet
- intuitive easy-to-see operating panel
- Integrated gravity-fed lubrication system
- Electronic overload protection

FULLY AUTOMATIC  
FEED - SPEED - REVERSE



## KBM 80 AUTO – Fully automatic core drilling unit for outstanding efficiency in the workshop.

**CORE DRILLING UNIT  
UP TO 3 1/8" (80 mm)**

### FEIN Advantages

Time and cost savings during large volume drilling due to a digitally controlled auto drill feed that provides uniform work progress in all materials combined with low tool wear.

Predictable work times on contract and serial work due to repeatable and consistent drilling times.

Excellent job safety due to an extensive safety package with torque slip clutch, visual magnet holding power gauge, and "Viseo Touch Pad" controls.

- MT 3 mount
- QuickIN MAX / FEIN QuickIN rapid change system
- Extra long stroke
- Reversible
- 3 speeds with electronic speed control
- Powerful electromagnet
- Electronic magnet holding force increases when drilling begins
- Fine drill spindle adjustment
- Automatic coolant supply
- Speed setting memory
- Electronic overload protection

FULLY AUTOMATIC  
FEED - SPEED - REVERSE



*Note: Model KBM 80 U (without auto-feed) available by special order*



## KBM Core Drills - Technical Information

Technical Specifications						
Model / Item #		KBM 32 Q	KBM 50 Q	KBM 50 U	KBM 50 Auto	KBM 65 U
Core bit max. dia.	in (mm)	1 1/4" (32)	2" (50)	2" (50)	2" (50)	2 9/16" (65)
Core drill max. drilling depth	in (mm)	2" (50)	2" (50) *	2" (50) *	2" (50) *	2" (50) *
Twist drill max. dia.	in (mm)	1/2" (13)	5/8" (16)	7/8" (22)	7/8" (22) **	1" (25)
Tapping max.	in (mm)	-	5/8" (16)	5/8" (16)	5/8" (16)	13/16" (20)
Countersinking max. dia.	in (mm)	-	1 1/4" (32)	2" (50)	2" (50)	2" (50)
Reaming max. dia.	in (mm)	-	5/8" (16)	7/8" (22)	7/8" (22)	1" (32)
Power consumption	Watts	700	1,200	1,200	1,200	1,300
Output	Watts	450	640	610	610	730
Load speed : 1st gear	rpm	440	130 / 260	130 to 260	130 to 260	120 to 240
2nd gear	rpm	-	360 / 520	260 to 520	260 to 520	260 to 520
Core bit holder		FEIN QuickIN	QuickIN 3/4" Weldon	QuickIN 3/4" Weldon	QuickIN 3/4" Weldon	QuickIN 3/4" Weldon
Tool holder		-	-	MT 3	MT 3	MT 3
Stroke	in (mm)	5 5/16" (135)	5 11/16" (145)	5 11/16" (145)	5 11/16" (145)	5 11/16" (145)
Total stroke range	in (mm)	10 1/4" (260)	12 3/8" (314)	12 3/8" (314)	12 3/8" (314)	12 3/8" (314)
Magnetic holding force	lbs	2,025	2,800	2,800	2,800	3,150
Magnetic base dimensions	in (mm)	6 5/16 x 3 1/8" (160 x 80)	7 11/16 x 3 9/16" (195 x 90)	7 11/16 x 3 9/16" (195 x 90)	7 11/16 x 3 9/16" (195 x 90)	8 1/16 x 3 3/4" (205 x 95)
Cable with plug	ft (m)	13 (3.8)	13 (3.8)	13 (3.8)	13 (3.8)	13 (3.8)
Weight according to EPTA	lbs (kg)	23 (10.5)	29.1 (12.8)	30.6 (14.2)	35.7 (16.2)	35.5 (16.1)

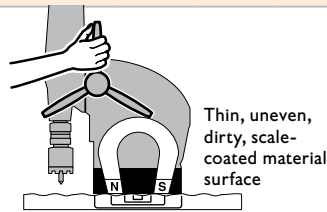
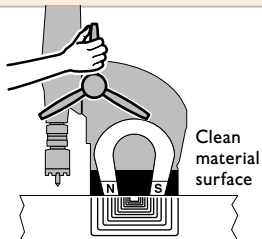
\* 3" (75mm) with optional adaptor \*\* Manual tool mode recommended



## FEINOLOGY

### Clean area – safe hold

A basic requirement for successful core drilling is secure positioning of the core drilling unit. This can only be achieved if the magnetic base is placed on a level, clean work piece that is at least 7/16" (12mm) thick. If this is not the case, there is a risk of significant loss of magnetic holding force.



Distance of magnet from setup position (workpiece)	-	1/85" (0.2 mm)	1/64" (0.4 mm)	1/32" (0.6 mm)
Magnet holding power	100%	80%	66%	43%

### Technical Specifications

Model / Item #		KBM 80 Auto
Carbide-tipped core bit max. dia.	in (mm)	3 1/8" (80)
Core drill max. drilling depth	in (mm)	2" (50)
Twist drill max. dia.	in (mm)	1 1/4" (32)
Tapping max.	in (mm)	1 1/8" (27)
Countersinking max. dia.	in (mm)	2" (50)
Reaming max. dia.	in (mm)	1 3/16" (31)
Power consumption	Watts	2,000
Output	Watts	900
Load speed: 1st gear	rpm	110 to 180
2nd gear	rpm	160 to 260
3rd gear	rpm	350 to 580
Core bit holder		QuickIN / QuickIN MAX
Tool holder		MT 3
Stroke	in (mm)	5 11/16" (145)
Total stroke range	in (mm)	11 3/16" (285)
Drill stand fine adjustment range	in (mm)	± 5/32" (4.25)
Drill stand angular adj. range		± 11°
Magnetic holding force	lbs (N)	4050 (18000)
Magnetic base dimensions	in (mm)	10 11/16" x 3 9/16" (270 x 90)
Cable with plug	ft (m)	13 (3.8)
Weight according to EPTA	lbs (kg)	58.2 (26.4)

## For instant accessory changes - QUICKIN, simple and fast

Change tools quickly and easily; a click is enough with FEIN QuickIN – and the tool is perfectly seated in the holder. The advantage for you: efficient, cost-effective work and precise results. Without keys, without moving from the drilling position, and without re-centering. With it, your core bit change will be 4 times faster than it would be, for example, with a Weldon holder. In addition, FEIN QuickIN offers you even more advantages: existing core bits and accessories with a M 18 x 6 or a Weldon mount that can be used with an adaptor. The perfect system for tool changes in a flash.

### Adaptors/chucks

#### Adaptor with QuickIN

For M 18 x 6 P 1.5 drive



Item number 6 39 01 020 00 6

#### 3/4" Weldon adaptor



Item number 6 39 01 021 01 4

#### 3/4" Weldon adaptor

Specially for competitors' core bits with a pilot hole larger than 1/4" (6.4 mm) - ringed.



Item number 6 39 01 024 01 9

#### QuickIN adaptor 1/2"-20 UNF

For threaded chucks



Item number 6 39 01 022 00 8

#### QuickIN B16 drive

For FEIN chucks



Item number 6 39 01 023 00 2

#### Adaptor with QuickIN Max to QuickIN Drive



Item number 6 39 01 045 01 0

#### Adaptor with Weldon shank

For conversion to QuickIN shank (competitors).



Item number 6 39 01 027 01 0

### Adaptor Weldon 3/4" to B16

For use with drill chuck.



Item number 6 39 01 061 00 0

### 3-jaw chuck with QuickIN shank



Capacity in. (mm) Item number  
1/16" - 1/2" (1.5 - 13) 6 39 01 023 02 0



Capacity in. (mm) Item number  
3/64" - 5/8" (1 - 16) 6 39 01 023 01 1

### Mounting Shafts \*

#### FEIN QuickIN adaptor shaft

For using FEIN core bits on bench and column drilling machines as well as all other core drilling units with MT fitting. Includes hand pump and centering pin for external cooling lubricant supply.



Taper Ø in (mm) Item number  
MT3 7/16" - 2 9/16" (12 - 65) 6 39 01 019 01 3  
MT2 7/16" - 1 3/8" (12 - 35) 6 39 01 018 01 9

\* Note:

**MT3 mounting shafts can be adapted for HSS annular cutters.**

### MT 3 Mounting Shafts \*

#### MT3 FEIN QuickIN drive

To retrofit KBM 80 Auto with integrated cooling lubricant supply. For all QuickIN core bits 7/16" to 2 9/16" (12 - 65 mm) dia.



Item number 6 39 01 039 02 0

#### QuickIN Weldon MT3

For using drills on bench and radial drilling machines and all other core drilling units with MT3 fitting. No pump or pin.



Item number 6 39 01 055 02 0

#### MT3 FEIN QuickIN MAX drive

For retrofitting all FEIN QuickIN MAX carbide core bits. 2 - 3 1/8" (50 - 80mm) dia.



Item number 6 39 01 038 02 0

#### MT3 1 1/4" Weldon standard drive

Especially for core bits with screw flats offset by 90°. Maximum drilling depth 2" (50 mm).



Item number 6 39 01 041 01 0

#### MT3 1 1/4" Weldon drive

Screw flats in line. Max. drilling depth 3" (75 mm). Especially for core bits by:



Item number Hougen 6 39 01 042 01 0  
Jancy 6 39 01 040 01 0

#### MT 3 adaptor shaft extension to MT 3 drive

Especially for countersinking.



Item number 6 33 04 005 00 0

### Centering Pins

#### Length: 4 1/8" (105 mm)

Core bits	Holder	Drilling depth
Carbide		
HM Ultra 2"	QuickIN	2"
HSS Nova 1"	Weldon	1"
Item number	3 02 17 332 00 9	

#### Length: 4 11/16" (125 mm)

Core bits	Holder	Drilling depth
Carbide	QuickIN	
HM Ultra 2"	MAX	2"
Competitor	Weldon	1"
(with adaptor 6 39 01 021 01 4)		
Item number	3 02 17 333 00 3	

#### Length: 5 5/16" (135 mm)

Core bits	Holder	Drilling depth
Carbide		
HM Ultra 2"	QuickIN	2"
(with adaptor 6 39 01 045 01 0)		
Competitor	Weldon	2"
(with adaptor 6 39 01 021 01 4)		
Item number	3 02 17 355 00 0	

#### Length: 3 3/8" (85 mm)

Core bits	Holder	Drilling depth
HSS Nova 1"	QuickIN	1"
7/16" dia.		
Item number	3 02 17 338 00 0	

#### Length: 4-15/16" (125 mm)

Core bits	Holder	Drilling depth
Competitor	Weldon	2"
7/16" dia.		
(with adaptor 6 39 01 021 01 4)		
Item number	3 02 17 337 00 2	

Note:

Competitors' Weldon core bits with a pilot hole > 1/4" (6.4 mm) require adaptor number: 6 39 01 024 01 0

## General Accessories

### Extension

For use on confined, deep, or layered surfaces. Through holes 1 7/16" (36 mm) dia. or larger are possible. QuickIN, length 4" (100 mm), incl. centering pin.



Item number 6 31 06 016 01 0

### Suction plate

For non-magnetizable materials, 9 3/16 x 13 x 4 5/16" (250 x 330 x 110 mm)



Not useable with KBM 80

Item number 9 26 02 054 01 6

### Pipe drilling device

Including clamping strap, allows drilling of tubes from 2 3/8" to 11 13/16" (60 to 300 mm) diameter, 8 11/16" x 5 1/8" (220 x 130 mm).



Item number 9 26 02 055 01 0

### Gravity cooling lubricant unit

Capacity approximately 16 1/2 fl.oz. (500 ml). Exact flow control using the ball valve. Suitable for KBM 32 Q, KBM 50 QX, and KBM 52 U built after 2006.



Item number 6 39 01 036 01 0

### Hand pump

15 fl.oz. (450 ml) capacity. Suitable for KBM 32 Q, KBM 50 QX, KBM 52 U.



Item number 3 21 32 022 00 7

### Contact & chip guard

Prevents unintended contact with rotating parts. Increases passive safety.



Item number 6 39 01 037 01 0

## FEIN QUICKIN MAX CUTTERS

### FOR FEIN KBM 80 Auto (U)

FEIN Carbide Ultra 2" core bits with QUICKIN MAX, long service life and outstanding cutting performance.



### CARBIDE - 2" DEPTH (50 mm)

Size Inch	Item Number	Size Inch	Item Number
2"	6 31 27 437 01 0	2 5/8"	6 31 27 447 01 0
2 1/16"	6 31 27 438 01 0	2 11/16"	6 31 27 448 01 0
2 1/8"	6 31 27 439 01 0	2 3/4"	6 31 27 449 01 0
2 3/16"	6 31 27 440 01 0	2 13/16"	6 31 27 450 01 0
2 1/4"	6 31 27 441 01 0	2 7/8"	6 31 27 451 01 0
2 5/16"	6 31 27 442 01 0	2 15/16"	6 31 27 452 01 0
2 3/8"	6 31 27 443 01 0	3"	6 31 27 453 01 0
2 7/16"	6 31 27 444 01 0	3 1/16"	6 31 27 454 01 0
2 1/2"	6 31 27 445 01 0	3 1/8"	6 31 27 455 01 0
2 9/16"	6 31 27 446 01 0		

Also available in metric sizes.

Electric tapping is not only faster and physically less demanding than tapping by hand. It also offers clear advantages in terms of precision. FEIN offers you an extensive accessory selection: from tapping equipment and fast-change chucks to collets for blind and through holes.



## FEINOLOGY

**Want to tap your holes?**

FEIN is your expert partner, when it comes to tapping.

Order a FEIN tapping chuck to fit your core drill or use a FEIN "Tapper" designed specifically for tapping holes.

## Tapping

### Fast-change tapping chuck For drills with 3/4" Weldon

A very cost efficient tapping chuck with Bilz Type 2 collet mount.



Item number 9 26 02 089 01 0

### For KBM 80

Only useable on core drilling units with reverse rotation. Size 3, with QuickIN MAX shaft, for taps, in combination with collets with or without safety clutch, from 3/4" to 1 1/8" (M22 to M27).

Item number 9 26 02 082 01 0

### Reducing collet 3/2

For KBM 80 to accept size 2 Bilz type collets 5/16" to 11/16" (M6 to M20) in the size 3 tapping chuck (9 26 02 082 01 0).



Item number 6 32 06 125 01 0

## FEIN QUICKIN Cutters change core bits, in seconds

- The most cost-effective solution for all drilling applications.
- Specially designed to optimize cutting performance and life.
- Extremely long-lasting and ultra-efficient.
- Range of sizes and types provides versatility and range.
- FEIN QUICKIN is the fastest way to change core bits, in seconds. Needs no key or adaptor.
- Also for use with QUICKIN Morse taper mounting shafts on core drills, conventional magnetic or stationary drill presses with Morse taper mount.

FEIN QUICKIN Cutters are only suitable for the KBM 32 Q and old-style core drill models with a FEIN QUICKIN mount:

KBM 32 Q  
KBM 50 QX  
KBM 52 U

### QUICKIN CUTTERS

FEIN HM CARBIDE-TIPPED  
QUICKIN CUTTERS - 2" DEPTH



Cutter Set



6 31 27 384 02 0

Exceptionally suitable for continuous use in industry, workshop and trades.

High quality carbide tips and a special cutting geometry allow for long service life and outstanding cutting performance.

### FOR FEIN KBM 32 Q, KBM 50 QX, KBM 52 U

Size Inch	Item #	2" Depth
1/2"	6 31 27 472 01 0	6 31 27 383 01 0
9/16"	6 31 27 473 01 0	6 31 27 384 01 0
5/8"	6 31 27 474 01 0	6 31 27 385 01 0
11/16"	6 31 27 475 01 0	6 31 27 386 01 0
3/4"	6 31 27 476 01 0	6 31 27 387 01 0
13/16"	6 31 27 477 01 0	6 31 27 388 01 0
7/8"	6 31 27 478 01 0	6 31 27 389 01 0
15/16"	6 31 27 479 01 0	6 31 27 390 01 0
1"	6 31 27 480 01 0	6 31 27 391 01 0
1 1/16"	6 31 27 481 01 0	6 31 27 392 01 0
1 1/8"	6 31 27 482 01 0	6 31 27 393 01 0
1 3/16"	6 31 27 483 01 0	6 31 27 394 01 0
1 1/4"	6 31 27 484 01 0	6 31 27 395 01 0
1 5/16"	6 31 27 485 01 0	6 31 27 396 01 0
1 3/8"	6 31 27 486 01 0	6 31 27 397 01 0
1 7/16"	6 31 27 487 01 0	6 31 27 398 01 0
1 1/2"	6 31 27 488 01 0	6 31 27 399 01 0
1 9/16"	6 31 27 489 01 0	6 31 27 400 01 0
1 5/8"	6 31 27 490 01 0	6 31 27 401 01 0
1 11/16"	6 31 27 491 01 0	6 31 27 402 01 0
1 3/4"	6 31 27 492 01 0	6 31 27 403 01 0
1 13/16"	6 31 27 493 01 0	6 31 27 404 01 0
1 7/8"	6 31 27 494 01 0	6 31 27 405 01 0
1 15/16"	6 31 27 495 01 0	6 31 27 406 01 0
2"	6 31 27 496 01 0	6 31 27 407 01 0
2 1/16"	6 31 27 497 01 0	6 31 27 408 01 0
<b>CUTTER SET:</b> 4 cutters 2" depth - 9/16", 11/16", 13/16", 15/16", centering pin, case		6 31 27 384 02 0

FEIN QUICKIN Cutters are also available in metric sizes.



## FEINOLOGY

**How many times have you heard "Time is money" ?**

With FEIN QUICKIN cutters and accessories, you can save both. FEIN QUICKIN cutters change 4 times faster than conventional Weldon shank cutters.

## KBH 25 – Hand-held core drill, new drilling technology for fast, flexible operation

**CORE DRILLING  
UP TO 1" (25 mm)**

The world's first hand-held core drilling system for metal, the FEIN KBH 25 combines the advantages of high performance power drills and carbide-tipped core bits in a single system. The new drilling technology enables rapid work progress with considerably less effort and allows you to work up to five times faster when core drilling. Even in tight, difficult-to-reach locations, the FEIN KBH 25 plays off its strengths, a result of long experience and the enormous development edge that FEIN has as the inventor of the power drill.

### FEIN KBH 25 - Advantages

- Convenient operation that is up to five times faster, due to new drilling technology and specially-developed core bit tooth geometry.
- Hand-held drilling of holes up to 1" (25 mm) diameter in steel up to 3/4" (19 mm) thick using carbide bits.
- Hand-held drilling of holes up to 2 1/8" (54 mm) diameter in steel up to 5/32" (4 mm) thick using carbide hole saws.
- A drilling system with the highest quality materials and workmanship, combined with tungsten carbide bits optimized for long service life.
- Forward and reverse rotation.
- Twist drill capability with optional 3-jaw chuck.
- Tapping with optional tapping attachment.

For core bits, see page 14.



- Includes:**  
 KBH 25 core drilling machine  
 Pilot bit  
 Accessory handle  
 Cutting spray  
 Plastic tool case

### Accessories for KBH 25

#### Cutting spray

10 oz (300 ml) pump spray for long tool service life, optimal cutting and chipping performance and improved chip extraction.



Item number 3 21 32 031 00 0

#### Extension

For use in narrow, deep, or stepped surfaces. QuickIN-PLUS attachment, 4" (100 mm) length, includes adaptor for pilot bits.



Item number 6 31 06 017 01 0

#### Pilot bits



Qty.	Item number
1	6 31 14 038 01 0
5	6 31 14 038 02 0

#### 3-Jaw tapping chuck

For direct tap insertion  
 Range 1/8 - 3/8" (2.8 - 9mm) with key



Item number 6 32 06 018 01 0

Chip guard  
 Prevents contact with hot, sharp edged chips.



Item number 3 21 74 013 01 0

### Technical Specifications

Model / Item #		KBH 25
Power consumption	Watts	1200
Output	Watts	680
Load speed	rpm	0 - 520
Hole Ø steel carbide core bit	in (mm)	9/16 - 1 (14 - 25)
Hole Ø aluminum carbide core bit	in (mm)	9/16 - 1 3/16 (14 - 30)
Hole Ø steel carbide hole saw	in (mm)	9/16 - 2 1/8 (14 - 54)
Corner clearance	in (mm)	1 1/16 (27)
Cable with plug	ft (m)	13 (4)
Weight according to EPTA	lbs (kg)	7.3 (3.3)

#### QuickIN Plus adaptor for B16 mount

Item number 6 39 01 047 00 0

#### Keyed jaw chuck with B16 mount

Capacity 1/16 to 1/2" (1.5 to 13 mm)

Item number 6 32 02 030 01 5

#### Keyless drill chuck with B16 mount

Capacity 1/32 to 1/2" (1 to 13 mm)

Item number 6 32 04 032 00 6

## Carbide core bits with QUICKIN-PLUS attachment

Maximum service life, thanks to carbide teeth. Outstanding cutting performance in all common metals. Inch dimensions, drilling depth  $\frac{3}{4}$ ".



### CARBIDE CUTTERS

Size Inch	Item Number
$\frac{9}{16}$ "	6 31 30 200 01 0
$\frac{5}{8}$ "	6 31 30 201 01 0
$1\frac{1}{16}$ "	6 31 30 202 01 0
$\frac{3}{4}$ "	6 31 30 203 01 0
$1\frac{3}{16}$ "	6 31 30 204 01 0
$\frac{7}{8}$ "	6 31 30 205 01 0
$1\frac{5}{16}$ "	6 31 30 206 01 0
1"	6 31 30 207 01 0
$1\frac{1}{16}$ "	6 31 30 208 01 0
$1\frac{1}{8}$ "	6 31 30 209 01 0
$1\frac{3}{16}$ "	6 31 30 210 01 0

## Carbide core bits, TiAlN coated, with QUICKIN-PLUS attachment

Maximum service life, thanks to carbide teeth. Outstanding cutting performance in all common metals, 20% faster work progress, reduced cutting and feed force due to TiAlN coating. Inch dimensions, drilling depth  $\frac{3}{4}$ ".



### CARBIDE CUTTERS - TiAlN COATED

Size Inch	Item Number
$\frac{9}{16}$ "	6 31 30 300 01 0
$\frac{5}{8}$ "	6 31 30 301 01 0
$1\frac{1}{16}$ "	6 31 30 302 01 0
$\frac{3}{4}$ "	6 31 30 303 01 0
$1\frac{3}{16}$ "	6 31 30 304 01 0
$\frac{7}{8}$ "	6 31 30 305 01 0
$1\frac{5}{16}$ "	6 31 30 306 01 0
1"	6 31 30 307 01 0
$1\frac{1}{16}$ "	6 31 30 308 01 0
$1\frac{1}{8}$ "	6 31 30 309 01 0
$1\frac{3}{16}$ "	6 31 30 310 01 0



## Carbide hole saw with QuickIN-PLUS attachment

Carbide-tipped with optimal service life for cost-effective drilling work in sheet metal up to  $\frac{5}{32}$ " (4 mm) in thickness. Inch dimensions, drilling depth  $\frac{5}{32}$ " (4 mm).



### CARBIDE HOLE SAW

#### $\frac{5}{32}$ " DEPTH (4 mm)

Size Inch	Item Number
$\frac{9}{16}$ "	6 31 31 200 01 0
$\frac{5}{8}$ "	6 31 31 201 01 0
$1\frac{1}{16}$ "	6 31 31 202 01 0
$\frac{3}{4}$ "	6 31 31 203 01 0
$1\frac{3}{16}$ "	6 31 31 204 01 0
$\frac{7}{8}$ "	6 31 31 205 01 0
$1\frac{5}{16}$ "	6 31 31 206 01 0
1"	6 31 31 207 01 0
$1\frac{1}{16}$ "	6 31 31 208 01 0
$1\frac{1}{8}$ "	6 31 31 209 01 0
$1\frac{3}{16}$ "	6 31 31 210 01 0
$1\frac{1}{4}$ "	6 31 31 211 01 0
$1\frac{5}{16}$ "	6 31 31 212 01 0
$1\frac{3}{8}$ "	6 31 31 213 01 0
$1\frac{7}{16}$ "	6 31 31 214 01 0
$1\frac{1}{2}$ "	6 31 31 215 01 0
$1\frac{9}{16}$ "	6 31 31 216 01 0
$1\frac{5}{8}$ "	6 31 31 217 01 0
$1\frac{11}{16}$ "	6 31 31 218 01 0
$1\frac{3}{4}$ "	6 31 31 219 01 0
$1\frac{13}{16}$ "	6 31 31 220 01 0
$1\frac{7}{8}$ "	6 31 31 221 01 0
$1\frac{15}{16}$ "	6 31 31 222 01 0
2"	6 31 31 223 01 0
$2\frac{1}{16}$ "	6 31 31 224 01 0
$2\frac{1}{8}$ "	6 31 31 225 01 0

## Carbide hole saw for pipes with QuickIN-PLUS attachment

Carbide teeth with optimal service life when used on pipe materials and arched surfaces with up to  $\frac{5}{32}$ " (4 mm) wall thickness. Inch dimensions, drilling depth  $\frac{5}{32}$ " (4 mm).



### CARBIDE HOLE SAW FOR PIPES

#### $\frac{5}{32}$ " DEPTH (4 mm)

Size Inch	Item Number
$\frac{7}{8}$ "	6 31 31 605 01 0
$1\frac{5}{16}$ "	6 31 31 606 01 0
1"	6 31 31 607 01 0
$1\frac{1}{16}$ "	6 31 31 608 01 0
$1\frac{1}{8}$ "	6 31 31 609 01 0
$1\frac{3}{16}$ "	6 31 31 610 01 0
$1\frac{1}{4}$ "	6 31 31 611 01 0
$1\frac{5}{16}$ "	6 31 31 612 01 0
$1\frac{3}{8}$ "	6 31 31 613 01 0
$1\frac{7}{16}$ "	6 31 31 614 01 0
$1\frac{1}{2}$ "	6 31 31 615 01 0
$1\frac{9}{16}$ "	6 31 31 616 01 0
$1\frac{5}{8}$ "	6 31 31 617 01 0
$1\frac{11}{16}$ "	6 31 31 618 01 0
$1\frac{3}{4}$ "	6 31 31 619 01 0
$1\frac{13}{16}$ "	6 31 31 620 01 0
$1\frac{7}{8}$ "	6 31 31 621 01 0
$1\frac{15}{16}$ "	6 31 31 622 01 0
2"	6 31 31 623 01 0
$2\frac{1}{16}$ "	6 31 31 624 01 0
$2\frac{1}{8}$ "	6 31 31 625 01 0

**Metric sizes also available**





## FEINOLOGY

### KBB38 X MAG DRILL

A customer required a mag drill that could be set up to repeatedly drill 2 holes 4 inches apart. Since the handles on the KBB38 X Mag Drill are reversible it could be quickly and easily positioned to do the job faster and more efficiently.





## FEIN KBB Core Drills

### Includes:

- Tool case
- Coolant tank
- Safety strap
- Chip hook
- Guard
- 2 centering pins
- 5mm hex key



## KBB30 X – Core drilling unit Very compact core drilling unit for drilling on-site

CORE DRILLING UNIT  
UP TO 1<sup>3</sup>/<sub>16</sub>" (30 mm)

### FEIN Advantages

A powerful small drill, the KBB30 X packs an unexpected punch in a compact 22 pound (10 kg) package.

- Thru spindle coolant
- Spring ejection arbor for 3/4" Slugger shank cutters
- Safety guard / chip breaker
- "Smart Magnet®" circuitry
- 1.75 HP motor
- Control panel w/ illuminated switches
- Patented internal motor cord
- Integrated MagBot™ magnetic coolant bottle
- Rail Slide system
- All metal construction



## KBB38 X – Core drilling unit Durable, dependable workhorse for on-site drilling

CORE DRILLING UNIT  
UP TO 1<sup>1</sup>/<sub>2</sub>" (38 mm)

### FEIN Advantages

Effective on-site or in the shop, the KBB38 X is an upgrade of one of the true workhorse core drills available over the last 20 years – the JM101. The KBB38 X has made a truly good core drill even better.

- Thru spindle coolant
- Positive slug ejection for 3/4" Slugger shank cutters
- Redesigned safety guard / chip breaker
- "Smart Magnet®" circuitry
- Dovetail guide system
- 1.75 HP Motor
- Control panel w/ illuminated switches
- Patented internal motor cord
- Integrated MagBot™ magnetic coolant bottle
- 1/2" tapping capacity with attachment
- Reversible handle





## FEIN KBB Series: the right tool for every job!

### Features & Benefits

Basic core drilling function

Speed-optimised for HSS core drill bits

Concealed motor wiring and integrated gravity-fed cooling lubrication system in drill jig

Positive slug ejection allows the “slug” to be removed easily eliminating costly downtime

Sturdy construction for tough applications

Thru spindle coolant improves cutter efficiency by providing cutting fluid to the entire cutting surface, not just the outside of the cutting area

### KBB40 X – Compact core drilling unit For drilling operations in tight spaces

CORE DRILLING UNIT  
UP TO 1<sup>5</sup>/<sub>8</sub>” (40 mm)

#### FEIN Advantages

The FEIN KBB40 X is the industry’s best solution any time drilling when space constraints are a problem. Since the KBB40 X uses a unique quill system, the drill height never changes.

- Ultra compact 11<sup>3</sup>/<sub>8</sub>” working height
- Adjustable cutter guard with built in chip breaker
- Through spindle coolant system with removable reservoir
- Permanent quill system requires no adjustments
- Stationary motor
- Lightweight - only 29 pounds
- “Smart Magnet®” circuitry
- Positive slug ejection arbor for 3/4” Slugger shank cutters
- 3/4” Weldon twist drill set available



### KBB60 – Core drilling unit With two-speed gear box for workshop jobs

CORE DRILLING UNIT  
UP TO 2<sup>3</sup>/<sub>8</sub>” (60 mm)

#### FEIN Advantages

The rugged KBB60 for use in the workshop, has some big capabilities for a drill that stands just 23” tall and weighs in at 53 lbs (24 kg). Capable of drilling holes up to 2 <sup>3</sup>/<sub>8</sub>” diameter through material up to 3” thick, the rugged KBB60 will handle the most challenging hole cutting situations.

- Two-speed gear box
- 2 <sup>3</sup>/<sub>8</sub>” diameter through 3” material
- 3/4” twist drill capacity and tapping options
- Patented Internal Motor Cord (Pat# 5,415,503)
- Internal coolant system
- Positive slug ejection
- “Smart Magnet®” circuitry



## KBB Core Drills - Technical Information

### Technical Specifications

Model / Item #		KBB 30 X	KBB 38 X	KBB 40 X	KBB 60
Weight according to EPTA	lbs (kg)	23.1 (10)	32 (14.4)	27.8 (13.1)	52.7 (24)
Power consumption	Watts	750	1,050	1,100	1,400
Power output	Watts	430	530	610	770
Speed - Load	rpm	430	330	280	180/340
Speed - No load	rpm	740	480	450	330/660
Stroke	in (mm)	2 9/16" (65)	2 9/16" (65)	2 9/16" (65)	3 5/8" (92)
Core bit holder		Weldon	Weldon	Weldon	Weldon
Magnet base dimensions	in (mm)	3 3/4 x 7" (95 x 178)	3 x 6 1/4" (75 x 159)	4 x 6 1/2" (102 x 165)	4 x 7 1/2" (102 x 191)
Magnetic holding force	lbs (N)	2,025 (8,000)	2,025 (9,000)	2,025 (9,000)	2,475 (11,000)
Sluggler cutter dia. (max.)	in (mm)	1 3/16" (30)	1 1/2" (38)	1 9/16" (41)	2 3/8" (60)
Sluggler cutter D.O.C. (max.)	in (mm)	2" (50)	2" (50)	2" (50)	3" (75)
Twist drill capacity	in (mm)	-	1/2"	-	3/4"
Cable with plug	ft (m)	12.5 (3.8)	12.5 (3.8)	12.5 (3.8)	12.5 (3.8)

## FEINOLOGY



Are space constraints too tight to allow you to turn the handle of your FEIN mag drill?

With the FEIN KBB30 X, KBB38 X or KBB40 X, you can remove the handle and drill using a ratchet with a 9/16" socket to feed the cutter.

### FEIN KBB Core Drills at a Glance



**KBB 30 X**

Very compact core drilling unit for drilling on-site



**KBB 38 X**

Durable, dependable workhorse for on-site drilling



**KBB 40 X**

Compact core drilling unit for drilling operations in tight spaces



**KBB 60**

Core drilling unit with two-speed gear box for workshop jobs, cutting depth up to 3" (75mm)

	KBB 30 X	KBB 38 X	KBB 40 X	KBB 60
Core drilling in metal, up to 30mm diameter	▲▲	▲▲	▲▲	▲▲
Core drilling in metal, up to 40mm diameter			▲▲	▲▲
Core drilling in metal, up to 60mm diameter				▲▲
Use of HSS core drill bits	▲▲	▲▲	▲▲	▲▲
Use of carbide core drill bits	▲	▲	▲	▲
Working in tight spaces	▲▲		▲▲	
Working overhead	▲▲	▲▲	▲▲	▲
Installation work	▲▲	▲▲	▲▲	▲
Workshop jobs	▲▲	▲▲	▲▲	▲▲

▲ Suitable    ▲▲ Very suitable

## SLUGGER Cutters

For SLUGGER accessories, see page 27

### HSS WELDON: High Speed Steel Cutters

High Speed Steel (M2) is the standard material used in Slugger cutters. 3/4" Weldon shank. Long service life.

P20

### HSS: Titanium Nitride (TiN) Cutters

TiN coatings improve tool life by increasing surface hardness of the tool and providing greater lubricity. TiN coated cutters are ideal for applications where the material being cut is difficult to machine, or when extended tool life is desired.

P22

### HM: Carbide Cutters

Carbide tipped cutters for cutting materials that are hard to machine and for drilling at higher RPM rates when increased hole making production is desired.

P23

### TAP SIZE CUTTERS

For tapping your holes after you drill, Slugger cutters are available in various tap size configurations.

P24

### TRUCK FRAME CUTTERS

Truck frames are usually multi-layered and manufactured to retain extraordinary strength and durability. Frame materials are more difficult to drill so an effective way to combat this problem is an ID-style cutter that is also TiN coated. This combined cutter simultaneously permits continuous drilling through layers and enhances cutting performance.

P24

### SHEET METAL CUTTERS

Thin metal cutters for sheet metal, light tubing, rubber, fiber materials and select plastics. Designed for use with hand-held drilling equipment. In HSS and carbide.

P25



## Cutter Coatings and Specialty Cutters

Additional options for Slugger Cutters to increase efficiency when cutting specific materials.

### Titanium Carbonitride (TiCN)

TiCN coated cutters are practical in drilling highly abrasive or gummy materials such as brass and aluminum alloys.

### M42 Cobalt Steel

Cobalt cutters are effective when drilling material with inconsistent composition. Also valuable when increased feed rates are necessary and extending tool life between sharpenings is desirable.

### ID Sharpened for Stack Drilling

ID-style cutters are convenient when drilling through multiple layers.

### Short Sluggers

Cutters capable of drilling materials up to 3/4" thick.

### Pipe-Style Geometry - For Pipe and Tube Drilling Applications

Cutters with pipe-style geometry are advantageous when drilling holes on curved or uneven surfaces.

### Rail Cutters

Specifically designed for rail drilling. Their unique design and specially developed coating allow for faster drilling and longer life, even in the toughest rail.

### Industrial Arbors

Industrial arbors quickly and easily adapt Slugger cutters to most types of conventional drill press and CNC machinery.

To order specialty cutters or coatings, please contact the FEIN order desk or your local FEIN representative.

CUTTER DIAMETER	Decimal Equiv.	1" DEPTH Item #	2" DEPTH Item #	3" DEPTH Item #	4" DEPTH Item #
7/16"	0.4375	6 31 34 111 00 1	6 31 34 110 00 2	—	—
1/2"	0.5000	6 31 34 127 00 1	6 31 34 127 00 2	—	—
13mm	0.5118	6 31 34 129 00 1	6 31 34 129 00 2	—	—
14mm	0.5512	6 31 34 140 00 1	6 31 34 139 00 2	—	—
9/16"	0.5625	6 31 34 142 00 1	6 31 34 142 00 2	—	—
15mm	0.5906	6 31 34 150 00 1	6 31 34 149 00 2	—	—
5/8"	0.6250	6 31 34 158 00 1	6 31 34 158 00 2	—	—
16mm	0.6299	6 31 34 159 00 1	6 31 34 159 00 2	—	—
17mm	0.6693	6 31 34 170 00 1	6 31 34 169 00 2	—	—
11/16"	0.6875	6 31 34 174 00 1	6 31 34 174 00 2	—	—
18mm	0.7087	6 31 34 180 00 1	6 31 34 179 00 2	—	—
19mm	0.7480	6 31 34 189 00 1	6 31 34 189 00 2	—	—
3/4"	0.7500	6 31 34 190 00 1	6 31 34 190 00 2	6 31 34 190 00 3	—
20mm	0.7874	6 31 34 199 00 1	6 31 34 199 00 2	6 31 34 199 00 3	—
13/16"	0.8125	6 31 34 206 00 1	6 31 34 206 00 2	6 31 34 206 00 3	6 31 34 206 00 4
21mm	0.8268	6 31 34 210 00 1	6 31 34 209 00 2	6 31 34 210 00 3	—
22mm	0.8661	6 31 34 219 00 1	6 31 34 219 00 2	6 31 34 219 00 3	6 31 34 219 00 4
7/8"	0.8750	6 31 34 222 00 1	6 31 34 222 00 2	6 31 34 222 00 3	6 31 34 222 00 4
23mm	0.9055	6 31 34 229 00 1	6 31 34 229 00 2	6 31 34 229 00 3	—
15/16"	0.9375	6 31 34 238 00 1	6 31 34 237 00 2	6 31 34 238 00 3	6 31 34 237 00 4
24mm	0.9449	6 31 34 240 00 1	6 31 34 239 00 2	6 31 34 240 00 3	6 31 34 240 00 4
25mm	0.9843	6 31 34 250 00 1	6 31 34 249 00 2	6 31 34 250 00 3	6 31 34 249 00 4
1"	1.0000	6 31 34 254 00 1	6 31 34 254 00 2	6 31 34 254 00 3	6 31 34 254 00 4
26mm	1.0230	6 31 34 259 00 1	6 31 34 259 00 2	6 31 34 259 00 3	6 31 34 259 00 4
1-1/16"	1.0620	6 31 34 269 00 1	6 31 34 269 00 2	6 31 34 269 00 3	6 31 34 269 00 4
27mm	1.0630	6 31 34 270 00 1	6 31 34 270 00 2	6 31 34 270 00 3	6 31 34 270 00 4
28mm	1.1020	6 31 34 279 00 1	6 31 34 279 00 2	6 31 34 279 00 3	6 31 34 279 00 4
1-1/8"	1.1250	6 31 34 285 00 1	6 31 34 285 00 2	6 31 34 285 00 3	6 31 34 285 00 4
29mm	1.1410	6 31 34 289 00 1	6 31 34 289 00 2	6 31 34 289 00 3	—
30mm	1.1810	6 31 34 299 00 1	6 31 34 299 00 2	6 31 34 299 00 3	6 31 34 299 00 4
1-3/16"	1.1870	6 31 34 301 00 1	6 31 34 301 00 2	6 31 34 301 00 3	6 31 34 301 00 4
31mm	1.2200	6 31 34 309 00 1	6 31 34 310 00 2	6 31 34 309 00 3	6 31 34 309 00 4
1-1/4"	1.2500	6 31 34 317 00 1	6 31 34 317 00 2	6 31 34 317 00 3	6 31 34 317 00 4
32mm	1.2590	6 31 34 319 00 1	6 31 34 319 00 2	6 31 34 319 00 3	6 31 34 319 00 4
33mm	1.2990	6 31 34 329 00 1	6 31 34 329 00 2	6 31 34 329 00 3	6 31 34 329 00 4
1-5/16"	1.3120	6 31 34 333 00 1	6 31 34 333 00 2	6 31 34 333 00 3	6 31 34 333 00 4
34mm	1.3380	6 31 34 339 00 1	6 31 34 339 00 2	6 31 34 339 00 3	6 31 34 339 00 4
1-3/8"	1.3750	6 31 34 349 00 1	6 31 34 349 00 2	6 31 34 349 00 3	6 31 34 349 00 4
35mm	1.3770	6 31 34 350 00 1	6 31 34 350 00 2	6 31 34 350 00 3	6 31 34 350 00 4
36mm	1.4170	6 31 34 359 00 1	6 31 34 359 00 2	6 31 34 359 00 3	6 31 34 359 00 4
1-7/16"	1.4370	6 31 34 364 00 1	6 31 34 364 00 2	6 31 34 364 00 3	6 31 34 364 00 4
37mm	1.4560	6 31 34 369 00 1	6 31 34 369 00 2	—	—
38mm	1.4960	6 31 34 379 00 1	6 31 34 379 00 2	6 31 34 379 00 3	6 31 34 379 00 4
1-1/2"	1.5000	6 31 34 381 00 1	6 31 34 381 00 2	6 31 34 381 00 3	6 31 34 381 00 4
39mm	1.5350	6 31 34 389 00 1	6 31 34 389 00 2	6 31 34 389 00 3	—
1-9/16"	1.5620	6 31 34 396 00 1	6 31 34 396 00 2	6 31 34 396 00 3	6 31 34 396 00 4

## 3/4" SHANK CUTTERS

Core bits with Weldon holder.  
Long service life. Imperial and metric dimensions.

### SETS: 1" depth, 3/4" shank

Item #: 6 31 34 999 01 0

Cutter Diameter	Decimal Equivalent
9/16"	.5625
11/16"	.6875
13/16"	.8125
15/16"	.9375
1-1/16"	1.062
1" pilot 9/16" to 1-1/16"	
Cutter Case	

Item #: 6 31 34 999 02 0

Cutter Diameter	Decimal Equivalent
7/16"	.4375
1/2"	.5000
9/16"	.5625
5/8"	.6250
11/16"	.6875
3/4"	.7500
13/16"	.8125
7/8"	.8750
15/16"	.9375
1"	1.000
1-1/16"	1.062
1" pilot 7/16" to 1/2"	
1" pilot 9/16" to 1-1/16"	
Cutter Case	



Set # 6 31 34 999 02 0

6" DEPTH AVAILABLE ON REQUEST

1 1/4" SHANK CUTTERS AVAILABLE ON REQUEST

CUTTER DIAMETER	Decimal Equiv.	1" DEPTH Item #	2" DEPTH Item #	3" DEPTH Item #	4" DEPTH Item #
40mm	1.5740	6 31 34 399 00 1	6 31 34 399 00 2	6 31 34 399 00 3	6 31 34 399 00 4
41mm	1.6140	6 31 34 409 00 1	6 31 34 409 00 2		
1-5/8"	1.6250	6 31 34 412 00 1	6 31 34 412 00 2	6 31 34 412 00 3	6 31 34 412 00 4
42mm	1.6540	6 31 34 420 00 1	6 31 34 420 00 2	6 31 34 420 00 3	6 31 34 420 00 4
1-11/16"	1.6870	6 31 34 428 00 1	6 31 34 428 00 2	6 31 34 428 00 3	6 31 34 428 00 4
43mm	1.6920	6 31 34 429 00 1	6 31 34 429 00 2	6 31 34 429 00 3	
44mm	1.7320	6 31 34 439 00 1	6 31 34 439 00 2	6 31 34 439 00 3	6 31 34 439 00 4
1-3/4"	1.7500	6 31 34 444 00 1	6 31 34 444 00 2	6 31 34 444 00 3	6 31 34 444 00 4
45mm	1.7710	6 31 34 449 00 1	6 31 34 449 00 2	6 31 34 449 00 3	6 31 34 449 00 4
46mm	1.8110	6 31 34 459 00 1	6 31 34 459 00 2	6 31 34 459 00 3	6 31 34 459 00 4
1-13/16"	1.8120	6 31 34 461 00 1	6 31 34 461 00 2	6 31 34 461 00 3	6 31 34 461 00 4
47mm	1.8500	6 31 34 469 00 1	6 31 34 469 00 2		
1-7/8"	1.8750	6 31 34 476 00 1	6 31 34 476 00 2	6 31 34 476 00 3	6 31 34 476 00 4
48mm	1.8890	6 31 34 479 00 1	6 31 34 479 00 2	6 31 34 479 00 3	6 31 34 479 00 4
49mm	1.9290	6 31 34 489 00 1	6 31 34 489 00 2		
1-15/16"	1.9370	6 31 34 491 00 1	6 31 34 491 00 2	6 31 34 491 00 3	6 31 34 492 00 4
50mm	1.968	6 31 34 499 00 1	6 31 34 499 00 2	6 31 34 499 00 3	6 31 34 499 00 4
2"	2.000	6 31 34 508 00 1	6 31 34 508 00 2	6 31 34 508 00 3	6 31 34 508 00 4
51mm	2.007	6 31 34 509 00 1	6 31 34 509 00 2	6 31 34 510 00 3	6 31 34 509 00 4
52mm	2.047	6 31 34 519 00 1	6 31 34 519 00 2	6 31 34 519 00 3	6 31 34 519 00 4
2-1/16"	2.062	6 31 34 523 00 1	6 31 34 523 00 2	6 31 34 523 00 3	6 31 34 523 00 4
2-1/8"	2.125	6 31 34 539 00 1	6 31 34 539 00 2	6 31 34 539 00 3	6 31 34 539 00 4
2-3/16"	2.187	6 31 34 555 00 1	6 31 34 555 00 2	6 31 34 555 00 3	6 31 34 555 00 4
2-1/4"	2.250	6 31 34 571 00 1	6 31 34 571 00 2	6 31 34 571 00 3	6 31 34 571 00 4
2-5/16"	2.312	6 31 34 587 00 1	6 31 34 587 00 2	6 31 34 587 00 3	6 31 34 587 00 4
2-3/8"	2.375	6 31 34 603 00 1	6 31 34 603 00 2	6 31 34 603 00 3	6 31 34 603 00 4
2-7/16"	2.437	6 31 34 618 00 1	6 31 34 618 00 2	6 31 34 618 00 3	6 31 34 618 00 4
2-1/2"	2.500	6 31 34 635 00 1	6 31 34 635 00 2	6 31 34 635 00 3	6 31 34 635 00 4
2-9/16"	2.562	6 31 34 650 00 1	6 31 34 651 00 2	6 31 34 650 00 3	
2-5/8"	2.625	6 31 34 666 00 1	6 31 34 666 00 2	6 31 34 666 00 3	6 31 34 666 00 4
2-11/16"	2.687	6 31 34 682 00 1	6 31 34 682 00 2	6 31 34 682 00 3	
2-3/4"	2.750	6 31 34 698 00 1	6 31 34 698 00 2	6 31 34 698 00 3	6 31 34 698 00 4
2-13/16"	2.812	6 31 34 714 00 1	6 31 34 714 00 2	6 31 34 714 00 3	
2-7/8"	2.875	6 31 34 731 00 1	6 31 34 731 00 2	6 31 34 731 00 3	6 31 34 731 00 4
2-15/16"	2.937	6 31 34 745 00 1	6 31 34 745 00 2	6 31 34 745 00 3	
3"	3.000	6 31 34 762 00 1	6 31 34 762 00 2	6 31 34 762 00 3	6 31 34 762 00 4

## 3/4" SHANK CUTTERS

Core bits with Weldon holder. Long service life. Imperial and metric dimensions.

### SETS: 2" depth, 3/4" shank

Item #: 6 31 34 999 01 5

Cutter Diameter	Decimal Equivalent
9/16"	.5625
11/16"	.6875
13/16"	.8125
15/16"	.9375
1-1/16"	1.062
2" pilot 9/16" to 1-1/16"	
Cutter Case	

Item #: 6 31 34 999 02 6

Cutter Diameter	Decimal Equivalent
7/16"	.4375
1/2"	.5000
9/16"	.5625
5/8"	.6250
11/16"	.6875
3/4"	.7500
13/16"	.8125
7/8"	.8750
15/16"	.9375
1"	1.000
1-1/16"	1.062
2" pilot 7/16" to 1/2"	
2" pilot 9/16" to 1-1/16"	
Cutter Case	



## PILOT PIN FUNCTIONS

- Allow coolant flow to center of cutter during drilling cycle.
- Eject slug from center of cutter after the drilling cycle.
- Align Sluggger cutters to desired drilling position.

Item #	Pilot Pin Description
6 31 34 998 00 1	1" depth of cut, 1/2" diameter and smaller (including 13mm & 14mm)
6 31 34 998 00 2	2" depth of cut, 1/2" diameter and smaller (including 13mm & 14mm)
6 31 34 998 00 3	1" depth of cut, 9/16" diameter and larger
6 31 34 998 00 4	2" depth of cut, 9/16" diameter and larger
6 31 34 998 00 5	All standard 3" depth of cut, 3/4" diameter and larger
6 31 34 998 01 0	4" depth of cut
6 31 34 998 01 2	6" depth of cut

## TiN-COATED CUTTERS

3/4" Weldon shank

CUTTER DIAMETER	Decimal Equiv.	1" DEPTH Item #	2" DEPTH Item #
7/16"	0.4375	6 31 34 111 11 3	6 31 34 110 10 6
1/2"	0.5000	6 31 34 127 10 8	6 31 34 127 11 3
9/16"	0.5625	6 31 34 142 11 5	6 31 34 142 10 7
5/8"	0.6250	6 31 34 158 10 8	6 31 34 158 11 4
11/16"	0.6875	6 31 34 174 12 0	6 31 34 174 10 5
3/4"	0.7500	6 31 34 190 11 1	6 31 34 190 11 7
13/16"	0.8125	6 31 34 206 11 5	6 31 34 206 12 0
7/8"	0.8750	6 31 34 222 11 0	6 31 34 222 11 7
15/16"	0.9375	6 31 34 238 11 7	6 31 34 237 10 4
1"	1.0000	6 31 34 254 11 1	6 31 34 254 11 7
1-1/16"	1.0620	6 31 34 269 11 1	6 31 34 269 11 7
1-1/8"	1.1250	6 31 34 285 10 9	6 31 34 285 11 4
1-3/16"	1.1870	6 31 34 301 11 0	6 31 34 301 11 4
1-1/4"	1.2500	6 31 34 317 11 3	6 31 34 317 11 9
1-5/16"	1.3120	6 31 34 333 10 5	6 31 34 333 11 1
1-3/8"	1.3750	6 31 34 349 10 9	6 31 34 349 11 5
1-7/16"	1.4370	6 31 34 364 10 3	6 31 34 364 10 7
1-1/2"	1.5000	6 31 34 381 11 1	6 31 34 381 11 7
1-9/16"	1.5620	6 31 34 396 10 4	6 31 34 396 10 7
1-5/8"	1.6250	6 31 34 412 10 9	6 31 34 412 11 2
1-11/16"	1.6870	6 31 34 428 10 5	6 31 34 428 10 8
1-3/4"	1.7500	6 31 34 444 10 7	6 31 34 444 11 1
1-13/16"	1.8120	6 31 34 461 10 4	6 31 34 461 10 6
1-7/8"	1.8750	6 31 34 476 10 4	6 31 34 476 10 6
1-15/16"	1.9370	6 31 34 491 10 5	6 31 34 491 10 8
2"	2.000	6 31 34 508 11 2	6 31 34 508 11 7
2-1/16"	2.062	6 31 34 523 10 5	6 31 34 523 10 9
2-1/8"	2.125	6 31 34 539 10 2	6 31 34 539 10 3
2-3/16"	2.187	6 31 34 555 10 2	6 31 34 555 10 4
2-1/4"	2.250	6 31 34 565 10 2	6 31 34 571 11 0
2-5/16"	2.312	6 31 34 587 10 6	
2-3/8"	2.375	6 31 34 603 10 4	6 31 34 603 10 3
2-7/16"	2.437	6 31 34 618 10 2	
2-1/2"	2.500	6 31 34 635 10 1	6 31 34 635 10 4
2-9/16"	2.562	6 31 34 650 10 1	6 31 34 650 10 3
2-5/8"	2.625	6 31 34 666 10 3	6 31 34 666 10 6
2-11/16"	2.687	6 31 34 682 10 1	
2-3/4"	2.750	6 31 34 698 10 2	6 31 34 698 10 6
2-13/16"	2.812	6 31 34 714 10 1	
2-7/8"	2.875	6 31 34 731 10 1	
2-15/16"	2.937	6 31 34 745 10 1	
3"	3.000	6 31 34 762 10 2	6 31 34 762 10 4

### TITANIUM NITRIDE (TiN)

TiN coatings improve tool life by increasing surface hardness of the tool and providing greater lubricity. TiN coated cutters are generally used in applications where the material being cut is difficult to machine, or when extended tool life is desired.

METRIC SIZES AVAILABLE ON REQUEST



### KBB40 X and ID CUTTERS

Nothing is quite as demanding and costly as trying to drill holes on truck and trailer frames, dealing with hi-tensile steels, laminated layers of steel and space constraints. If the required holes are located behind the rear wheels of the truck, the process is even more costly and time consuming. Often, the wheels must be completely removed before any work can be done. Even then, cutters often snap as they go through the laminated layers of steel.

The shop foreman of a truck repair centre contacted FEIN looking for a cost-saving time-reduction solution to these problems.

The lightweight, ultra-compact FEIN KBB40 X Mag Drill used in conjunction with ID sharpened, Titanium-Nitride Coated Annular Cutters provided the efficiency boosting solution the shop foreman was looking for.

## CARBIDE-TIPPED CUTTERS

3/4" Weldon shank and threaded drives

### CARBIDE-TIPPED CUTTER FEATURES

- Produces accurate holes without pilot drilling.
- Ideal for select drilling applications.
- Multiple cutting edge geometry increases productivity.
- Adapts quickly to most drill presses or magnetic based drills.
- Low cost with increased hole drilling productivity.

3 INCH & 4 INCH DEPTH AVAILABLE ON REQUEST

Cutters smaller than 2 1/2" diameter have 3/4" Weldon shank drives.

Cutters 2 1/2" diameter and larger have M18 x 1.5 threaded drives.



Not available in TiN, TC or Cobalt.

## FEIN TECHNOLOGY



• Only 12" in height, the FEIN KBB40 X operates using a quill style cutter feed system, so it can easily fit between the wheels and frame allowing the holes to be cut without costly time being wasted removing wheels.

• Titanium Nitride coating on IDTN cutters increases the lubricity of the cutter, allowing chips and filings to exit the cutting area more easily thus increasing the likelihood that the cutters will not break.

• ID sharpening of the cutters allowed the user to cut through multiple layers of steel without damaging or breaking the cutters.

The truck repair centre was able to all but eliminate the need to remove wheels in order to drill a hole in truck frames, resulting in considerable savings in labour costs. The shop foreman was thrilled with the fact that the truck repair centre was able to drill holes in 50% of the time that it previously took, and broken cutters are now a thing of the past. This substantial reduction in labour cost accompanied by the savings in equipment costs allowed the truck repair centre to improve it's competitiveness in a very price driven market.

CUTTER DIAMETER	Decimal Equiv.	1" DEPTH Item #	2" DEPTH Item #
11/16"	.6875	6 31 27 563 11 0	6 31 27 509 11 0
3/4"	.7500	6 31 27 564 11 0	6 31 27 510 11 0
13/16"	.8125	6 31 27 565 11 0	6 31 27 511 11 0
7/8"	.8750	6 31 27 566 11 0	6 31 34 221 03 0
15/16"	.9375	6 31 27 567 11 0	6 31 27 513 11 0
1"	1.000	6 31 27 568 11 0	6 31 27 514 11 0
1-1/16"	1.062	6 31 34 267 03 0	6 31 27 515 11 0
1-1/8"	1.125	6 31 27 570 11 0	6 31 27 516 11 0
1-3/16"	1.187	6 31 34 300 03 0	6 31 34 302 03 0
1-1/4"	1.250	6 31 27 572 11 0	6 31 27 518 11 0
1-5/16"	1.312	6 31 27 573 11 0	6 31 27 519 11 0
1-3/8"	1.375	6 31 27 574 11 0	6 31 34 347 03 0
1-7/16"	1.437	6 31 34 365 03 0	6 31 34 363 03 0
1-1/2"	1.500	6 31 34 380 03 0	6 31 27 522 11 0
1-9/16"	1.562	6 31 34 396 03 0	6 31 34 395 03 0
1-5/8"	1.625	6 31 34 412 03 0	6 31 34 411 03 0
1-11/16"	1.687	6 31 34 428 03 0	6 31 34 427 03 0
1-3/4"	1.750	6 31 27 580 11 0	6 31 27 526 11 0
1-13/16"	1.812	6 31 34 460 03 0	6 31 27 527 11 0
1-7/8"	1.875	6 31 34 476 03 0	6 31 34 475 03 0
1-15/16"	1.937	6 31 34 491 03 0	6 31 34 492 03 0
2"	2.000	6 31 34 507 03 0	6 31 27 530 11 0
2-1/16"	2.062	6 31 34 523 03 0	6 31 34 522 03 0
2-1/8"	2.125	6 31 34 539 03 0	6 31 27 532 11 0
2-3/16"	2.187	6 31 34 556 03 0	6 31 34 555 02 7
2-1/4"	2.250	6 31 34 571 03 0	6 31 34 570 03 0
2-1/2" *	2.500	6 31 34 635 02 7	6 31 34 636 03 3
2-3/4" *	2.750	6 31 34 697 03 3	6 31 34 699 03 3
3" *	3.000	6 31 34 762 03 3	6 31 34 764 03 3
3-1/4" *	3.250	6 31 34 824 03 3	6 31 34 826 03 3
3-1/2" *	3.500	6 31 34 889 03 3	6 31 34 890 03 3
3-3/4" *	3.750		6 31 34 953 03 3
4" *	4.000	6 31 34 004 03 3	6 31 34 006 03 3

Item #	Pilot Pin Description
6 31 34 998 10 0	Pilot pin for 1" cutters
6 31 34 998 00 4	Pilot pin for 2" cutters

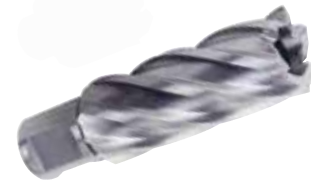
\* Note: Cutter shanks have internal thread system. 3MT threaded drive arbor options are also available.

Pilot pins come with the "EW" arbors for cutters 2 1/2" diameter and larger.

## TAP SIZE CUTTERS

TAP SIZE	PITCH	FORM	CUTTER DIAMETER	Decimal Equiv.	1" DEPTH Item #	2" DEPTH Item #
1/2"	13	NC	27/64"	.4219	6 31 34 107 00 1	6 31 34 106 00 2
1/2"	20	NF	29/64"	.4531	6 31 34 115 00 1	6 31 34 115 00 2
9/16"	12	NC	31/64"	.4843	6 31 34 123 00 1	6 31 34 122 00 2
9/16"	18	NF	1/2"	.5000	6 31 34 127 00 1	6 31 34 127 00 2
5/8"	11	NC	17/32"	.5312	6 31 34 134 00 1	6 31 34 134 00 2
5/8"	18	NF	9/16"	.5625	6 31 34 142 00 1	6 31 34 142 00 2
11/16"	11	NS	19/32"	.5938	6 31 34 151 00 1	6 31 34 150 00 2
11/16"	16	NS	5/8"	.6250	6 31 34 158 00 1	6 31 34 158 00 2
3/4"	10	NC	21/32"	.6562	6 31 34 166 00 1	6 31 34 166 00 2
3/4"	16	NF	11/16"	.6875	6 31 34 174 00 1	6 31 34 174 00 2
7/8"	9	NC	49/64"	.7656	6 31 34 194 00 1	6 31 34 194 00 2
7/8"	14	NF	51/64"	.7969		6 31 34 202 00 2
1"	8	NC	7/8"	.8750	6 31 34 222 00 1	6 31 34 222 00 2
1"	12	NF	59/64"	.9219	6 31 34 234 00 1	6 31 34 233 00 2
1"	14	NS	59/64"	.9219	6 31 34 234 00 1	6 31 34 233 00 2
1-1/8"	7	NC	25mm	.9843	6 31 34 250 00 1	6 31 34 249 00 2
1-1/8"	12	NF	1-1/32"	1.032	6 31 34 261 00 1	6 31 34 261 00 2
1-1/4"	7	NC	1-7/64"	1.109		6 31 34 279 00 2
1-1/4"	12	NF	1-11/64"	1.171		6 31 34 297 00 2
1-1/2"	6	NC	1-11/32"	1.343		6 31 34 341 00 2
1-1/2"	12	NF	1-27/64"	1.421		6 31 34 361 00 2
1-3/4"	5	NC	1-9/16"	1.562	6 31 34 396 00 1	6 31 34 396 00 2
2"	4-1/2	NC	1-25/32"	1.781		6 31 34 452 00 2

3/4" Weldon shank



If you are tapping your holes after you drill, Slugger cutters are available in various tap size configurations.

Note: If you are tapping many holes, look to FEIN "Tappers". Drills designed specifically to tap holes, available in either 5/16" or 1/2" capacity.

See FEIN Power Tool catalogue or [www.fein.ca](http://www.fein.ca).

## TRUCK FRAME CUTTERS

CUTTER DIAMETER	Decimal Equiv.	1" DEPTH Item #	2" DEPTH Item #
7/16"	0.4375	6 31 34 111 11 1	6 31 34 110 10 4
1/2"	0.5000	6 31 34 127 10 6	6 31 34 127 11 1
9/16"	0.5625	6 31 34 142 11 3	6 31 34 142 10 5
5/8"	0.6250	6 31 34 158 10 6	6 31 34 158 11 2
11/16"	0.6875	6 31 34 174 11 9	6 31 34 174 10 3
3/4"	0.7500	6 31 34 190 10 9	6 31 34 190 11 5
13/16"	0.8125	6 31 34 206 11 3	6 31 34 206 11 8
7/8"	0.8750	6 31 34 222 10 7	6 31 34 222 11 4
15/16"	0.9375	6 31 34 238 11 5	6 31 34 238 12 4
1"	1.0000	6 31 34 254 10 8	6 31 34 254 11 4
1-1/16"	1.0620	6 31 34 269 10 8	6 31 34 269 11 5
1-3/16"	1.1870	6 31 34 301 10 9	6 31 34 301 11 3
1-1/4"	1.2500	6 31 34 317 11 0	6 31 34 317 11 7
1-5/16"	1.3120	-	6 31 34 333 10 8
1-1/2"	1.5000	6 31 34 381 10 9	6 31 34 381 11 4

Truck frames are usually multi-layered and manufactured to retain extraordinary strength and durability.

Frame materials are more difficult to drill so an effective way to combat this problem is to use an ID-style cutter that is also TiN coated. The resulting cutter simultaneously permits continuous drilling through layers, enhances cutting performance and extends tool life.





## SHEET METAL SLUGGER CUTTERS

### Compare thin metal Sluggger cutters to holesaws:

- Three times faster
- Superior tool life
- Accurate hole finish
- Precision ground
- Reduced grabbing and tearing
- Minimum material deformation



Not available in cobalt. For available coatings, call the FEIN order desk.

Sluggger thin metal cutters are capable of accurately producing holes up to 3" diameter in sheet metal, light tubing, rubber, fiber materials and select plastics. Designed for use with hand-held drilling equipment, Sluggger thin metal cutters drill up to three times faster than hole saws and have superior tool life. Center-free design eliminates deflection and leaves a smooth bore in work pieces. Provided arbor system quickly installs to most hand drills, accepting full range of cutters. Cutters lock securely into arbor, replacing inaccurate older style thread-on tools. Thin metal cutters are available individually from 6mm to 3" or in convenient sets. Cutters are ideal for HVAC, PHCC, electrical and maintenance contractors. The 3/8" dia. is the perfect size for cutting sheet metal spotwelds.



## SHEET METAL ARBOR ASSEMBLIES

Item #	Contents	Description
6 31 34 161 34 0 Arbor fits 6mm cutters and 3/8" and larger drills	6 31 34 124 42 0 6 31 34 998 03 0 3 09 98 744 26 0 4 30 98 706 00 0 4 30 98 705 00 0	Arbor body only Pilot pin Spring SSS, M6 x 1.0 x 6 SSS, M5 x .8 x 5 DIN 916
6 31 34 161 36 0 Arbor fits 5/16" to 13/16" cutters and 3/8" and larger drills	6 31 34 124 42 0 6 31 34 998 03 4 3 09 98 744 26 0 4 30 98 706 00 0	Arbor body only Pilot pin Spring SSS, M6 x 1.0 x 6
3 34 98 294 64 0 Arbor fits 7/8" to 1-3/8" cutters and 3/8" and larger drills	3 34 98 223 56 0 6 31 34 998 04 4 3 34 98 220 20 0 4 30 98 706 00 0 3 13 42 621 16 3	Arbor body only 1/4" pilot pin Cinch nut "LH thread" SSS, M6 x 1.0 x 6 Compression spring
3 34 98 294 62 0 Arbor fits 1-7/16" to 3" cutters and 1/2" and larger drills	3 34 98 223 54 0 6 31 34 998 04 4 3 34 98 220 18 0 4 30 98 706 00 0 3 13 42 621 16 3	Arbor body only 1/4" pilot pin Cinch nut "LH thread" SSS, M6 x 1.0 x 6 Compression spring

## SETS: 1" depth of cut

Item #: 6 31 34 999 04 4

Cutter Diameter	Decimal Equivalent
5/16"	.3125
3/8"	.3750
7/16"	.4375
1/2"	.5000
9/16"	.5625
5/8"	.6250
3/4"	.7500
Arbor assembly	
Pilot pin	
3mm hex key	
Carrying case	

Item #: 6 31 34 999 05 6

### "ELECTRICIAN'S KIT"

Cutter Diameter	Decimal Equivalent
7/8"	.8750
1-1/8"	1.125
1-3/8"	1.375
1-3/4"	1.750
2"	2.000
2-1/2"	2.500
Pilot pin	
3mm hex key	
3/8" arbor assembly	
1/2" arbor assembly	
Carrying case	

Item #: 6 31 34 999 05 8

Cutter Diameter	Decimal Equivalent
7/8"	.8750
1"	1.000
1-1/4"	1.250
1-3/8"	1.375
1-5/8"	1.625
2-1/8"	2.125
3/8" arbor assembly	
1/2" arbor assembly	
3mm hex key	
Carrying case	



## SHEET METAL SLUGGER CUTTERS

### 1/4" DEPTH OF CUT

CUTTER DIAMETER	Decimal Equivalent	1/4" DEPTH Item #
6mm	.2362	6 31 34 006 02 5
1/4"	.2500	6 31 34 063 02 5
7mm	.2750	6 31 34 070 02 5
9/32"	.2810	6 31 34 071 02 5
5/16"	.3125	6 31 34 079 02 5
8mm	.3149	6 31 34 080 02 5
11/32"	.3438	6 31 34 087 02 5
9mm	.3543	6 31 34 089 02 5
3/8"	.3750	6 31 34 095 02 5
10mm	.3937	6 31 34 100 02 5
13/32"	.4062	6 31 34 103 02 5
27/64"	.4219	6 31 34 107 02 5
11mm	.4330	6 31 34 109 02 5
7/16"	.4375	6 31 34 110 02 5
15/32"	.4688	6 31 34 118 02 5
12mm	.4724	6 31 34 120 02 5
1/2"	.5000	6 31 34 127 02 5
13mm	.5118	6 31 34 129 02 5
17/32"	.5312	6 31 34 134 02 5
14mm	.5518	6 31 34 139 02 5
9/16"	.5625	6 31 34 142 02 5
15mm	.5905	6 31 34 149 02 5
5/8"	.6250	6 31 34 158 02 5
16mm	.6299	6 31 34 159 02 5
17mm	.6692	6 31 34 169 02 5
11/16"	.6875	6 31 34 174 02 5
18mm	.7086	6 31 34 179 02 5
23/32"	.7188	6 31 34 182 02 5
19mm	.7480	6 31 34 189 02 5
3/4"	.7500	6 31 34 190 02 5

CUTTER DIAMETER	Decimal Equivalent	1/4" DEPTH Item #
20mm	.7874	6 31 34 199 02 5
13/16"	.8125	6 31 34 206 02 5
7/8"	.8750	6 31 34 222 02 5
15/16"	.9375	6 31 34 238 02 5
1"	1.000	6 31 34 254 02 5
1-1/16"	1.062	6 31 34 269 02 5
1-1/8"	1.125	6 31 34 285 02 5
1-3/16"	1.187	6 31 34 301 02 5
1-1/4"	1.250	6 31 34 317 02 5
1-5/16"	1.312	6 31 34 333 02 5
1-3/8"	1.375	6 31 34 349 02 5
1-7/16"	1.437	6 31 34 365 02 5
1-1/2"	1.500	6 31 34 381 02 5
1-9/16"	1.562	6 31 34 396 02 5
1-5/8"	1.625	6 31 34 412 02 5
1-3/4"	1.750	6 31 34 444 02 5
1-13/16"	1.812	6 31 34 460 02 5
1-7/8"	1.875	6 31 34 476 02 5
2"	2.000	6 31 34 508 02 5
2-1/16"	2.062	6 31 34 523 02 5
2-1/8"	2.125	6 31 34 539 02 5
2-1/4"	2.250	6 31 34 571 02 5
2-5/16"	2.312	6 31 34 587 02 5
2-3/8"	2.375	6 31 34 603 02 5
2-1/2"	2.500	6 31 34 635 02 5
2-9/16"	2.562	6 31 34 651 02 5
2-5/8"	2.625	6 31 34 666 02 5
2-3/4"	2.750	6 31 34 698 02 5
2-7/8"	2.875	6 31 34 731 02 5
3"	3.000	6 31 34 762 02 5

## CARBIDE-TIPPED SHEET METAL CUTTERS

### 3/16" DEPTH OF CUT

CUTTER DIAMETER	Decimal Equivalent	3/16" DEPTH Item #
5/8"	.6250	6 31 34 159 03 2
11/16"	.6875	6 31 34 175 03 2
3/4"	.7500	6 31 34 191 03 2
13/16"	.8125	6 31 34 206 03 2
7/8"	.8750	6 31 34 222 03 2S
15/16"	.9375	6 31 34 237 03 2
1"	1.000	6 31 34 254 03 2
1-1/16"	1.062	6 31 34 269 03 2
1-1/8"	1.125	6 31 34 286 03 2
1-7/32"	1.218	6 31 34 309 03 2
1-1/4"	1.250	6 31 34 318 03 2
1-5/16"	1.312	6 31 34 333 03 2
1-3/8"	1.375	6 31 34 349 03 2
1-7/16"	1.437	6 31 34 364 03 2
1-1/2"	1.500	6 31 34 381 03 2
1-3/4"	1.750	6 31 34 445 03 2
2"	2.000	6 31 34 508 03 2
2-1/8"	2.125	6 31 34 539 02 9
2-1/4"	2.250	6 31 34 571 02 9
2-3/8"	2.375	6 31 34 603 02 9
2-1/2"	2.500	6 31 34 636 02 9
2-5/8"	2.625	6 31 34 667 02 9
3"	3.000	6 31 34 762 02 9
Use Pilot Pin		6 31 34 998 10 4

### 1" DEPTH OF CUT

CUTTER DIAMETER	Decimal Equivalent	1" DEPTH Item #
11/16"	.6875	6 31 34 175 03 1
3/4"	.7500	6 31 34 191 03 1
13/16"	.8125	6 31 34 206 03 1
7/8"	.8750	6 31 34 222 03 1
15/16"	.9375	6 31 34 237 03 1
1"	1.000	6 31 34 254 03 1
1-1/16"	1.062	6 31 34 270 02 8
1-1/8"	1.125	6 31 34 286 03 1
1-3/16"	1.187	6 31 34 306 03 1
1-1/4"	1.250	6 31 34 318 02 8
1-5/16"	1.312	6 31 34 333 02 8
1-3/8"	1.375	6 31 34 349 02 8
1-7/16"	1.437	6 31 34 364 03 1
1-1/2"	1.500	6 31 34 381 03 1
Use Pilot Pin		6 31 34 998 10 6

### CARBIDE-TIPPED SHEET METAL CUTTERS

- Excellent for hand held or drill press applications.
- Heavy-duty carbide tipped cutter outperforms high speed steel or bi-metal cutters in certain applications.
- Multiple cutting edge geometry increases productivity.
- Great for use in stainless steel, brass or structural steel.
- Easy slug ejection.
- Low cost with increased hole drilling productivity.
- 1/2" shanks with chucking flats for hand-held operations.
- For applications over 1/2" thickness, using a drill press is recommended.



Carbide-tipped sheet metal cutters are not available in TINI, TC or cobalt.

## CHUCK & ADAPTORS

Convert Slugger drilling machines into portable drill presses in seconds. Ideal for small and blind hole applications.



Item #	Description
6 42 98 190 10 0	1/2" chuck and adaptor for KBB 38
6 42 98 102 15 3	3/4" chuck and adaptor for KBB 60

## TWIST DRILL SETS

All twist drills have 3/4" Weldon shanks, 2" depth of cut. Twist drill sets are available to drill holes smaller than an annular cutter will allow.



Item #	Description
6 42 98 050 00 0	Standard: 1/4, 5/16, 3/8, & 7/16"
6 42 98 055 00 0	Metric: 6, 8, 10, & 12mm

## CUTTER EXTENSIONS

Extends the reach of Slugger cutters in drilling applications. Consult the order desk for application information. 1-5/16" arbor body diameter.



Item #	Description
6 31 06 020 98 0	2" arbor extension
6 31 06 021 98 0	3" arbor extension
6 31 06 022 98 0	4" arbor extension
6 31 06 023 98 0	6" arbor extension

## THE MAGBRUSH

Safely remove metal chips and debris from machinery and work areas using magnetic brushes. It features a high grade, rare earth magnet with the most holding power for its size, outperforming similar magnetic pick-up tools.



The Magbrush is a great time saver for both industrial use and the home workshop.

Item #	Description
6 42 01 002 98 0	Magbrush (15 inches long)
6 42 01 003 98 0	Super Magbrush (3 feet long)

## VAC PAD

Ideal for drilling on non-ferrous materials. No special vacuum pump is needed. Only 85 psi required.



Item #	Description
9 26 02 087 98 0	Pneumatic vacuum pad

## COUNTERSINKS

Countersinks to produce a precision chamfer in pre-existing holes. All countersinks are 82°.



Item #	Description
6 42 98 100 82 0	1" countersink - 3/4" Weldon
6 42 98 150 82 0	1 1/2" countersink - 3/4" Weldon
6 42 98 200 82 0	2" countersink - 3/4" Weldon

## CHAIN BASE

Designed for a variety of pipe and tube drilling applications. The chain base is used to attach your KBB magnetic drill to curved surfaces for drilling operations.



Item #	Description
9 07 98 190 20 0	Chain base for KBB38
9 07 98 541 48 0	Chain base for KBB40, KBB60

## CUTTING FLUID & PASTE

Cutting Fluid, used with Slugger cutters, is a water-based fluid designed to extend tool life, improve surface finish and reduce heat build-up when drilling.

Item #	Description
3 21 32 032 98 0	Quart
3 21 32 032 98 2	Case (12) Quarts
6 42 98 102 08 0	Gallon
6 42 98 102 08 4	Case (4) Gallons
6 42 98 102 09 0	5-gallon
6 42 98 102 09 5	55-gallon*

\* Check availability before ordering.



## CUTTING PASTE

Cutting paste lubricates Slugger cutters when drilling in horizontal and inverted positions. The heat that is generated while drilling liquifies the cutting paste, providing coolant and extending cutter life.

Item #	Description
3 21 60 015 98 0	10 oz. tube
3 21 60 015 98 2	Case (12) 10 oz. tubes

## FEINOLOGY



Clean-up woes? Use the Magbrush, a magnetic wand, to pick up shavings and debris from around your work-stations.

Trying to drill a hole on a piece of plate below your mounting surface. Available in 2", 3", 4", and 6" lengths, Cutter Extensions solve this problem.

Need to countersink your holes? Countersinks are available in 82° configurations with a shank specifically designed for mag drills.

**FEIN. Unverwüstliche  
Elektrowerkzeuge.**



## **FEIN Expertise**

FEIN is the specialist when it comes to professional and extremely reliable power tools and special applications solutions in the metalworking, interior construction, and automotive industries. As the inventor of the electric hand drilling machine, FEIN has been developing innovative and unbeatably efficient solutions for practical applications for over 140 years. Time and again, our power tools prove themselves in the hands of professional craftsmen and in industrial settings. Through our close relationships with specialty distributors and intense contacts with the users of our products, we know exactly what matters when it comes to professional tools. The durability, reliability, quality, and precision of our power tools ensures that they can handle the toughest continuous use. In addition, there is an extensive range of special accessories that are precisely matched to pre-defined applications and guarantee the best possible results.

## **FEIN Mobile Training Centres**

FEIN Canada's Mobile Training Centres showcase the FEIN product line and provide training on the fly for busy distributors and end users. FEIN "MTC" vehicles feature diesel powered self-sufficient electrical systems to allow for full demonstration of FEIN Tools and Abrasives. Well organized and well outfitted, the demonstration area is surprisingly roomy despite the large range of products and accessories carried on board. FEIN MTC vehicles travel across Canada highlighting FEIN products and technical expertise. Contact us for more information.



## **FEIN Warranty**



3 year FEIN PLUS guarantee

Register your new core drilling unit online at [www.fein.com](http://www.fein.com) within six weeks of purchase and you will immediately receive a warranty certificate. This, together with the sales receipt, will allow you to enjoy the 3-year FEIN PLUS extended warranty. For warranty details, visit [www.fein.ca](http://www.fein.ca)

**Your specialist distributor will be happy to help.**

### **FEIN Canadian Power Tool Company**

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