▸ METAL

FEIN. Unverwüstliche
Elektrowerkzeuge.

Precise, cost-effective – durable.

The FEIN core drilling system

User-oriented solutions from the specialist.

FEIN is the specialist when it comes to durable power tools and user-oriented solutions that prove themselves in the toughest continuous use in industry and trade.

In 1895, FEIN revolutionized the world of work with the invention of the first electric hand drill. Today, FEIN core drill units incorporate the same spirit of innovation. FEIN makes your choice of core drilling easy, because FEIN core drilling units impress with their user orientation, accuracy, and outstanding reliability. On the construction site and in the workshop, FEIN core drilling units master the most varied work situations.

With more than 25 years of continuous development, FEIN's core drilling technology has achieved a peak of excellence.

FEIN offers you a core drilling system for metal in which machine, core bits, and accessories are precisely matched to each other. Everything in premium quality – from a single source. First class materials and excellent workmanship make FEIN core drilling units durable in the truest sense of the word. From the robust drill motor in a barrel casing to the die-cast aluminum gear head – from the drill stand to the electronics. All the components come from FEIN! That is "Made in Germany" quality.

No matter whether 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.

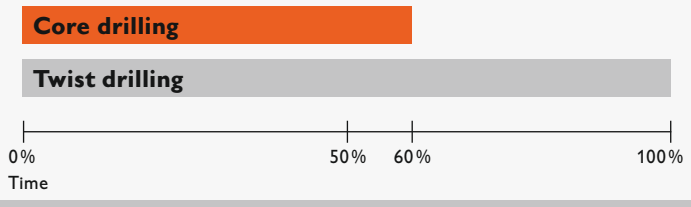
The FEIN core drilling system will revolutionize your work!

Drill better.
Work more efficiently.

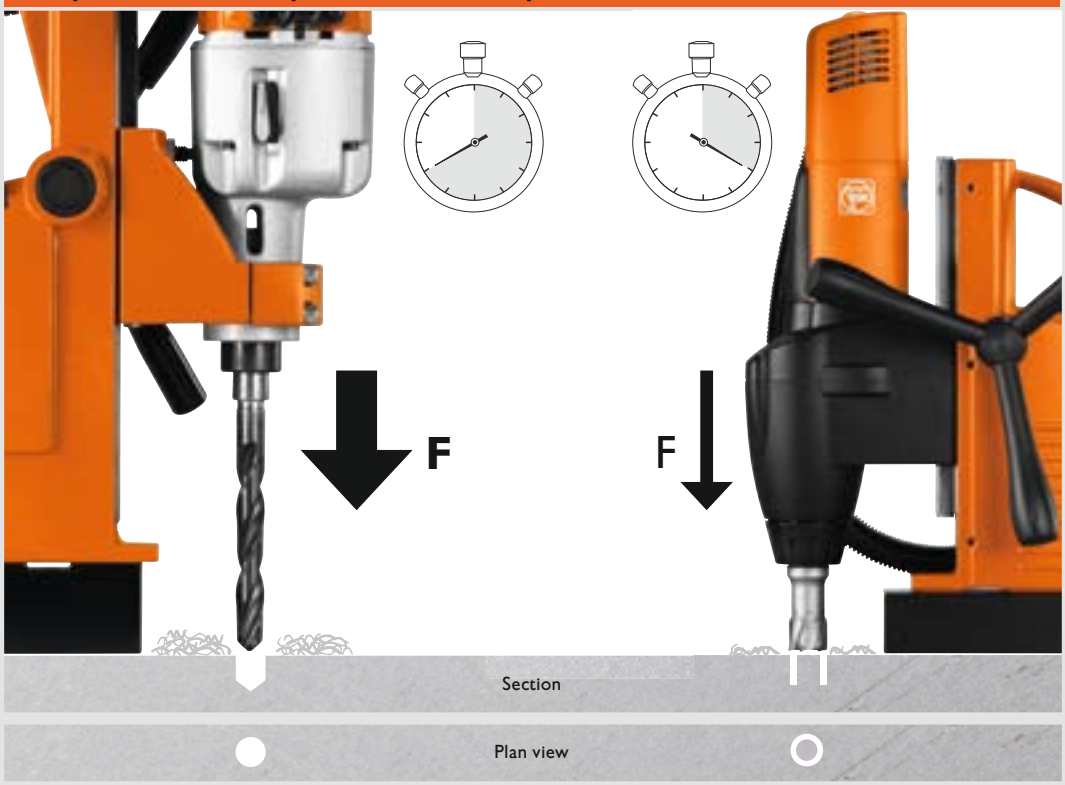
Core drillling with the FEIN core drilling system gives you precise drilling results in considerably less time and the cost per hole is significantly less than with conventional methods. Core drilling with FEIN brings you important economic advantages:

- ▶ Fast work progress for quick drilling
- ▶ No pre-drilling or tool changes: Up to 40 % reduction in work time
- ▶ The smaller cutting area reduces power usage and the feed effort required

Up to 40 % faster



Less power and time expenditure, fewer chips

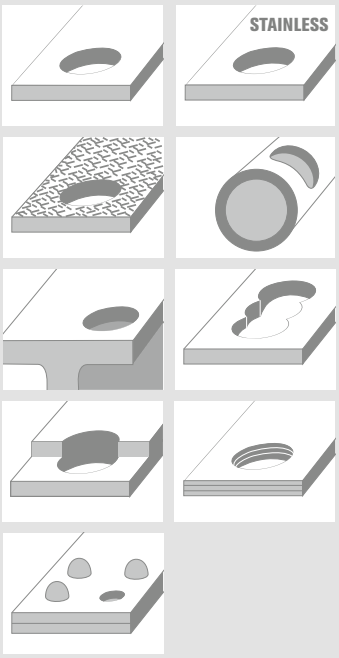


Centering, pre-drilling, finish drilling – a FEIN core bit completes all these steps in a single work cycle.

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 a reduced power consumption. That protects user, core bit, and machine. The combination centering and ejection pin automatically ejects the core after penetration of the material. Core holes up to 3 ⅛" (80 mm) diameter in material up to 2" (50 mm) thickness can be executed in a single step. 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.

Core drilling applications



The FEIN clamping devices that are available as accessories also ensure efficient and cost-effective work when drilling tubes, non-magnetic material or textured surfaces.

Profit from FEIN system expertise.

Hardly any power tool manufacturer offers you as much experience in the core drilling field. FEIN knowledge has been built up over decades, and built into in every FEIN core drilling unit. Whether metal fabrication, structural steel, bridge building, machinery manufacturing, or container production: with FEIN core drilling units you'll always achieve the best drilling results! Because you benefit from a perfect interaction between the core drilling unit and core bit in a single system. Result: dimensionally accurate hole formation, practically burr free, and impressive speed!

All the components come from FEIN.
From drill stands to motors and gearboxes to electronics, everything comes from FEIN – using the finest materials and workmanship. The same is true of FEIN core bits: high quality carbide and HSS steel with cobalt content as well as sophisticated cutter geometry ensure the best cutting performance and longest service life. But FEIN core drilling units can do more: they are also ideal for mobile twist drilling, tapping, countersinking, and reaming.

You'll be faster – in every material

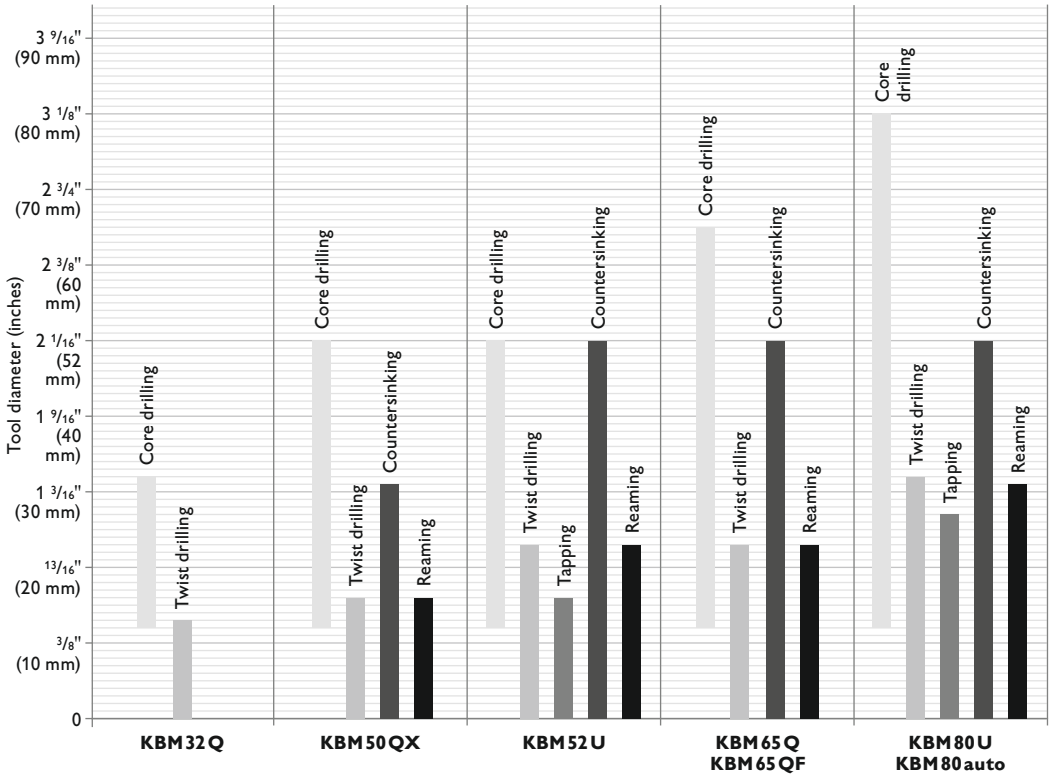
With a cutting speed of up to 148 ft/min (45 m/min), FEIN core drilling units* provide fast work progress and high cost effectiveness – in almost every material.

*Core drilling unit combined with carbide-tipped core bit.

Multiple applications – in one system

FEIN core drilling units are versatile. The machine tool mount enables use of the most varied tools for drilling, tapping, reaming, and countersinking.

Not just for core drilling – but all popular application fields



Core drilling, twist drilling, tapping, countersinking, reaming – FEIN core drilling units cover all popular application fields.

There are many good reasons for core drilling units. Ours last a lifetime.

From the KBM 32 Q to the KBM 80 auto: FEIN core drilling units stand by their promise – for the life of the tool. This is as true for durability and reliability, as it is for easy handling, excellent safety and effective economical use with first class drilling results. FEIN core drilling units offer you everything that you need for core drilling on the construction site or in the workshop.

Beyond that, a comprehensive accessory range specially matched to FEIN core drilling units ensures that you always have the right solution on hand – for drilling, tapping, and, of course, for countersinking and reaming.

FEIN durability

FEIN core drilling units are built for the toughest continuous operation in industry and trades. To meet these demands, they possess several special design features: Barrel motor casing, gear housing and drill stand in robust metal – and not least, a high performance motor designed for outstanding service life and performance.

Best operability

FEIN core drilling units are simple and mistake-free in operation – an example is the new “Viseo Touch Pad” control concept. The FEIN QuickIN quick change system permits tool changes in seconds – without a key or movement away from the drilling position. For large drilling tools the stroke can simply be increased.

High magnetic holding force

The machine needs a solid footing in order to transform its full power into work performance. With FEIN core drilling units the already high magnetic holding force of the electromagnet is automatically increased when drilling begins. Even with high torque on the drilling shaft this ensures that the drill stand is held firmly.

Optimal power to weight ratio

FEIN core drilling units are extremely light and are especially suitable for installation work on site. But even as workshop machines they are noted for their optimal power to weight ratio. It is the result of compact design, aluminum components in the drill stand, dovetail guides, and gear housing as well their compact high performance motor.

Speed-controlled tacho electronics

The speed-controlled tacho electronics provide uniform, fast work progress, even under heavy load.

FEIN high performance motor

The high torque FEIN high performance motor means outstanding reliability and efficient, cost-effective drilling. The compact arrangement of armature and field ensure an optimal, practically loss-free transfer of power.

Extra long stroke

The extra long stroke combined with a robust and precise double dovetail guide allows the use of the largest tools – without having to remove the machine from the work piece.

Safe handling

Separate placement of drill motor and magnet switches ensures especially simple handling and significantly reduces the risk of a mistake.

Mechanical gears

The mechanical gearing with perfectly matched speed settings for optimal cutting speed: its high degree of efficiency makes sure that motor power is transferred to the core bit with practically no loss.

QuickIN fast change system

The FEIN QuickIN system allows tool changes in seconds: one click, and the tool is perfectly seated. Without keys, without moving from the drilling position, and without recentering.

Integrated cooling lubrication

The internal cooling lubrication ensures coolant supply direct to the drill bit – and thus long tool service life and a clean cut.

High magnetic holding force

When drilling begins the already high holding force of the electromagnet is automatically increased. A basic precondition for the full power of the machine to be converted to performance while working.

Compact design

Their compact design and optimal power to weight ratio make FEIN core drilling units the ideal tool for mobile twist drilling, tapping, countersinking, and reaming.

This much is certain: Core drilling with FEIN.

FEIN core drilling units are not only extremely durable, high performance, precise and cost effective: they are among the safest machines on the market, due to their comprehensive approach to safety. From unmistakable switch controls, electronic magnetic holding force, increase visual holding force gauge, “Viseo Touch Pad” operation, robust touch guards, electronic overload protection – to torque slip clutch and automatic drilling feed – all the safety systems serve a single purpose: to make work with FEIN core drilling units as safe as possible. On every job – everywhere.

Clean area – safe hold

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

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" (12 mm) thick. If this is not the case, there is a risk of significant loss of magnetic holding force.

	KBM 32 Q	KBM 50 QX	KBM 52 U	KBM 65 Q KBM 65 QF	KBM 80 U	KBM 80 auto	Operator	Core drilling unit and tool
Self-start lock	●	●	●	●	●	●	Prevents unexpected self start in the event of sudden return of power.	
Electronic magnetic holding force increase	●	●	●		●	●	Electronic magnetic holding force increase when drilling begins – for even greater safety.	Reduced voltage when the motor is idle prevents coil overheating.
Soft start	●	●	●	●	●	●	Enough reaction time to respond to the core drilling unit. No surprise caused by starting under full power.	Drill motor is protected from electrical surges when it is turned on.
Electronic overload protection	●	●	●	●	●	●		No damage due to overloading and overheating. Unit is immediately ready for use.
Visual magnetic holding force gauge					●	●	Shows whether the magnetic holding force is adequate	
Tilt sensor					●	●	Stops the drill motor if the core drilling unit starts to tilt.	
Locked magnet switch when the drill motor is running					●	●	No unintended deactivation of the magnetic base. With motor running: 1. Tipping: Motor off/2. Tipping: Magnet off.	
Automatic drill feed						●	No direct contact with moving machine parts. Operator only performs control function.	Reduced drill wear due to uniform spindle feed force.
Safety strap	●	●	●	●	●	●	Strap prevents fall of the machine if power is inadvertently cut off.	No damage to the core drilling unit due to a fall from the steel beam. No damage to the core bit due to a fall from the steel beam.
Separate placement of drill motor and magnet switches	●	●	●	●	●	●	Reduced risk of incorrect operation due to separated switches.	
Touch guard	●	●	●	●	●	●	No unintended contact with rotating machine parts.	
MT shaft protected with sleeve nut			●	●	●	●	No pullout of the MT tool holder from the spindle under excessive load.	
Torque slip clutch					●	●	Prevents separation of the core drilling unit from the work area.	Drive spindle protection under excessive load. No impact or shock loading of the cutting teeth.
Viseo Touch Pad controls					●	●	Controls always visible: at the top of the drill motor. Risk of mistakes is minimized.	
Storage case	●	●	●	●	●	●		Plastic case provides secure storage and transport. Secure storage of accessories in a separate compartment of the case.

Tool changes in a flash: the FEIN QuickIN system.

Change tools quickly and easily – that pays off. 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 recentering. 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 × 6 or a Weldon mount can be used by means of an adapter. The perfect system for tool changes in a flash.

Perfect for fast tool changes – the FEIN QuickIN system for all holders

Decisive time advantage

Core bit change

FEIN QuickIN:	5 – 7 sec.	
Weldon:	20 – 30 sec.	

In a direct comparison, the FEIN QuickIN system shows how fast and application-oriented today's core bit changes can be.

Six core drilling units – in first class FEIN quality.

With the FEIN core drilling family, you are ideally equipped for all trade and industry jobs, because you get first class quality and the finest hole results. The FEIN core drilling family contains six different models: three installation machines and three workshop machines that are designed for specific application areas, jobs, and working methods. From the compact KBM 32 Q machine to the fully automatic KBM 80 auto workshop machine, FEIN core drilling units impress due to optimal results and outstanding characteristics.

KBM 32 Q
Compact core drilling unit with high mobility for on-site work

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KBM 50 QX
Core drilling unit with 2 speed gearbox for efficient drilling on-site

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KBM 52 U
Universal core drilling unit for versatile work on-site

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KBM 65 Q / KBM 65 QF
High performance core drilling unit with 2 speed gear box for the workshop

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KBM 80 U
Universal core drilling unit with outstanding performance for the workshop

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KBM 80 auto
Fully automatic core drilling unit for outstanding efficiency in the workshop

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	KBM 32 Q	KBM 50 QX	KBM 52 U	KBM 65 Q KBM 65 QF	KBM 80 U	KBM 80 auto
Core drilling metal up to 1 ¼" (32 mm) dia.	▲▲	▲▲	▲▲	▲▲	▲▲	▲▲
Core drilling metal up to 2 1/16" (52 mm) dia.		▲▲	▲▲	▲▲	▲▲	▲▲
Core drilling metal up to 2 9/16" (65 mm) dia.				▲▲	▲▲	▲▲
Core drilling metal up to 3 ⅛" (80 mm) dia.					▲▲	▲▲
Twist drilling with chuck	▲▲	▲▲	▲▲	▲▲	▲▲	▲▲
Twist drilling with MT mount			▲▲	▲▲	▲▲	▲▲
Tapping			▲▲		▲▲	▲▲
Countersinking		▲	▲▲	▲▲	▲▲	▲▲
Reaming		▲	▲▲	▲▲	▲▲	▲▲
Fully automatic drilling						▲▲
One-handed operation			▲▲		▲▲	▲▲
Overhead work	▲▲	▲▲	▲▲	▲	▲	▲
On-site use	▲▲	▲▲	▲▲	▲	▲	▲
Workshop use	▲▲	▲▲	▲▲	▲▲	▲▲	▲▲

▲ suitable ▲▲ very suitable

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

Core holes from 7/16" (12 mm) to 1 ¼" (32 mm) diameter can be made with the KBM 32 Q. The KBM 32 Q is ideal for installation work on site due to its compact dimensions and low weight of only 23.1 lbs (10.5 kg). It is simply carried to the work-piece and enables reliable work throughout the entire operation – even vertically or overhead. In addition to its high mobility, the machine is noted for high accuracy and easy handling.

FEIN advantages

- Small, extremely light core drilling unit with outstanding handling for vertical and overhead use
- QuickIN system for fast, keyless tool changes
- Use of long drilling tools without removal of the machine from the work piece due to double dovetail guides

- High torque, high performance motor
- Powerful electromagnet
- Electronic magnetic holding force increase
- Integrated cooling lubrication device
- Electronic overload protection
- Self-start lock

Technical specifications

Model		**KBM 32 Q**
Core bit max. dia.	in (mm)	1 ¼" (32)
Core bit max. drilling depth	in (mm)	2" (50)
Twist drill max. dia.	in (mm)	½" (13)
Power consumption	Watts	700
Output	Watts	450
No load speed	rpm	550
Load speed	rpm	440
Core bit holder		QuickIN
Stroke	in (mm)	5 5/16" (135)
Total stroke range	in (mm)	10 ¼" (260)
Magnet holding force	lbs (N)	1,980 (9,000)
Magnetic base dimensions	in (mm)	6 5/16" × 3 ⅛" (160 × 80)
Cable with plug	ft (m)	13' (4)
Weight according to EPTA	lbs (kg)	23.1 (10.5)
Part number	**KBM 32 Q**	**7 270 27**

Price includes: 1 case; 1 coolant pump; 1 safety strap; 1 chip hook; 1 3-jaw chuck ½" (13 mm) dia.; 1 QuickIN adapter for Weldon; 1 QuickIN adapter for Weldon Special; 1 QuickIN adapter for M 18 × 6 P 1.5; 4 centering pins; 1 touch guard

Comprehensive accessories: from page 20
Machine dimensions: page 35

Applications

Core drilling

Twist drilling with chuck

KBM 50 QX – Core drilling unit with 2 speed gear box for efficient drilling on-site.

The FEIN KBM 50 QX covers an expanded range of uses and applications: the mechanical two-speed gear box delivers sufficient torque for core holes up to 2 1/16" (52 mm) diameter. Two electronic speed settings permit countersinking and reaming and also serve to start holes in hard materials. In addition, the KBM 50 QX is one of the lightest machines in its class – so it can also be easily used vertically or overhead.

FEIN advantages

- Expanded applications and possibilities for uses such as countersinking and reaming due to 2 speed mechanical gear box with two electronic speed settings
- QuickIN system for fast, keyless tool changes
- Use of long drilling tools without removal of the machine from the work piece due to double dovetail guides
- Compact design and ideal power to weight ratio
- High torque high performance motor
- Speed-controlled tacho electronics
- Powerful electromagnet
- Electronic magnetic hold increase
- Integrated cooling lubrication device
- Electronic overload protection
- Self-start lock

Technical specifications

Model		KBM 50 QX
Core bit max. dia.	in (mm)	2 1/16" (52)
Core bit max. drilling depth	in (mm)	2" (50)
Twist drill max. dia.	in (mm)	5/8" (16)
Countersinking max. dia.	in (mm)	1 3/16" (31)
Reaming max. dia.	in (mm)	5/8" (16)
Power consumption	Watts	1,200
Output	Watts	680
Load speed		
1st gear – slow	rpm	160
1st gear – fast	rpm	260
2nd gear – slow	rpm	320
2nd gear – fast	rpm	520
Core bit holder		QuickIN
Stroke	in (mm)	5 5/16" (135)
Total stroke range	in (mm)	12 3/16" (310)
Magnet holding force	lbs (N)	2,420 (11,000)
Magnetic base dimensions	in (mm)	7 3/32" × 3 9/16" (180 × 90)
Cable with plug	ft (m)	13' (4)
Weight according to EPTA	lbs (kg)	28.2 (12,8)
Part number	**KBM 50 QX**	**7 270 33**

Applications

Core drilling

Twist drilling with chuck

Countersinking

Reaming

Price includes: 1 case; 1 coolant pump; 1 safety strap; 1 chip hook; 1 3-jaw chuck 5/8" (16 mm) dia.; 1 QuickIN adapter B16; 1 QuickIN adapter Weldon; 1 QuickIN adapter Weldon Special; 4 centering pins; 1 touch guard

Comprehensive accessories: from page 20
Machine dimensions: page 35

KBM 52 U – Universal core drilling unit for versatile work on-site.

The KBM 52 U is the first choice for users who demand universal capabilities and high flexibility in a core drilling unit. This lightweight 2 speed machine with MT 3 mount, forward and reverse rotation, and electronic speed reduction allows tapping up to 5/8" (M 16). The last speed used is automatically stored and can be recalled during the next drilling operation. This also makes the machine one of the most cost effective solutions for core drilling up to 2 1/16" (52mm) diameter. The KBM 52 U – a universal talent for every purpose.

FEIN advantages

- Optimal speed when drilling, tapping, reaming and countersinking due to mechanical 2 speed gear box and variable speed reduction
- Flexible tool insertion and highly accurate concentricity using a combination of QuickIN and MT 3 mount
- Use of long drilling tools without removal of the machine from the work piece due to double dovetail guides
- Compact design and ideal power to weight ratio
- Forward and reverse rotation
- High torque, high performance motor
- Speed-controlled tacho electronics
- Powerful electromagnet
- Electronic magnetic hold increase
- "Memory Function" speed storage
- Integrated gravity cooling lubrication device
- One handed ease of use
- Electronic overload protection
- Self-start lock

Applications


Core drilling


Twist drilling with chuck or MT 3 mount


Fast change tapping chuck


Countersinking


Reaming

Technical specifications

Model		KBM 52 U
Core bit max. dia.	in (mm)	2 1/16" (52)
Core bit max. drilling depth	in (mm)	2" (50)
Twist drill max. dia.	in (mm)	7/8" (23)
Tapping max.	in (M)	5/8" (16)
Countersinking max. dia.	in (mm)	2" (50)
Reaming max. dia.	in (mm)	7/8" (23)
Power consumption	Watts	1,200
Output	Watts	640
Load speed		
1st gear	rpm	130 – 260
2nd gear	rpm	260 – 520
Core bit holder		QuickIN
Tool holder	MT	3
Stroke	in (mm)	5 5/16" (135)
Total stroke range	in (mm)	12 3/16" (310)
Magnet holding force	lbs (N)	2,420 (11,000)
Magnetic base dimensions	in (mm)	7 3/32 " × 3 9/16" (180 × 90)
Cable with plug	ft (m)	13' (4)
Weight according to EPTA	lbs (kg)	31.3(14.2)
Part number	**KBM 52 U**	**7 270 31**

Price includes: 1 case; 1 coolant container; 1 safety strap; 1 QuickIN adapter B16; 1 QuickIN adapter Weldon; 1 QuickIN adapter Weldon Special; 1 chip hook; 1 3-jaw chuck 5/8" (16 mm) dia.; 4 centering pins; 1 drift; 1 touch guard

Comprehensive accessories: from page 20
Machine dimensions: page 35

KBM 65 Q / KBM 65 QF – High performance core drilling unit with 2 speed gear box for the workshop.

The FEIN KBM 65 Q and KBM 65 QF 2 speed machines are as durable as they are high performance and are the entry into workshop-class machines. Both machines provide optimal speed for heavy use in core drilling up to 2 9/16" (65 mm) diameter. Their extremely long stroke makes them ideal solutions for special applications such as deep drilling. Their built-in tool spindle enables flexible use of MT 3 tools with high-precision concentricity. The KBM 65 QF is also equipped with a fine adjustment. This guarantees excellent work results.

FEIN advantages

- High performance, even in tough applications such as core drilling up to 2 9/16" (65 mm) diameter
- Flexible tool use and high-precision concentricity using a combination of QuickIN and MT 3 holder
- Use of long drilling tools without removal of the machine from the work piece due to double dovetail guides
- KBM 65 QF: Fine adjustment of the drill spindle for easy machine setup without time-consuming placement and removal of the machine

- Optimal power to weight ratio
- Mechanical 2-speed gearing
- 2 electronic speed settings in each gear
- Speed-controlled tacho electronics
- Powerful electromagnet
- Integrated cooling lubrication device
- Electronic overload protection
- Self-start lock

Applications


Core drilling


Twist drilling with chuck or MT 3 mount


Countersinking


Reaming

Technical specifications

Model		KBM 65 Q	KBM 65 QF
Core bit max. dia.	in (mm)	2 9/16" (65)	2 9/16" (65)
Core bit max. Hole drilling depth	in (mm)	2" (50)	2" (50)
Twist drill max. dia.	in (mm)	7/8" (23)	7/8" (23)
Countersinking max. dia.	in (mm)	2" (50)	2" (50)
Reaming max. dia.	in (mm)	7/8" (23)	7/8" (23)
Power consumption	Watts	1,460	1,460
Output	Watts	650	650
Load speed			
1st gear – slow	rpm	125	125
1st gear – fast	rpm	250	250
2nd gear – slow	rpm	255	255
2nd gear – fast	rpm	510	510
Core bit holder		QuickIN	QuickIN
Tool holder	MT	3	3
Stroke	in (mm)	5 11/16" (145)	5 11/16" (145)
Total stroke range	in (mm)	13" (330)	13" (330)
Drill stand adjustment range	in (mm)		± 4/16 " (6)
Drill stand angular adjustment range	in (mm)		± 8°
Magnet holding power	lbs (N)	(2,700)12,000	(2,700) 12,000
Magnetic base dimensions	in (mm)	7 1/4" × 3 10/16" (184 × 92)	7 1/4" × 3 10/16" (184 × 92)
Cable with plug	ft (m)	13' (4)	13' (4)
Weight according to EPTA	lbs (kg)	41.9 (19.0)	45.4 (20.6)
Part number		**KBM 65 Q 7 270 29**	**KBM 65 QF 7 270 28**

Price includes: 1 case; 1 coolant pump; 1 safety strap; 1 chip hook; 1 3-jaw chuck – 1/2" (13 mm) dia.; 1 QuickIN adapter for M 18 × 6 P 1.5; 2 centering pins; 1 drift; 1 touch guard

Comprehensive accessories: from page 20
Machine dimensions: page 35

KBM 80 U – Universal core drilling unit with outstanding performance for the workshop.

The KBM 80 U workshop machine is the ideal machine for everyone who wants to use the full capabilities of a core drill unit: core drilling, drilling, tapping, countersinking, and reaming. Everything you need for professional work in incorporated into the KBM 80 U: high performance motor with powerful 3 speed gear box, forward and reverse rotation, MT 3 holder as well as electronic speed reduction and Memory Function for speed storage during repetitive drilling.

FEIN advantages

- Optimal cutting speed when core drilling, drilling, tapping, countersinking, and reaming, due to mechanical three-speed gear box and continuously-variable electronic speed reduction
- Flexible tool use and highly accurate concentricity using a combination of QuickIN and MT 3 holder
- High torque, high-performance motor for efficient core drilling up to 3 1/8" (80 mm) and tapping up to 1 1/8" (M 27)

- QuickIN MAX fast tool change system
- Extra long stroke
- Forward and reverse rotation
- Speed-controlled tacho electronics
- Powerful electromagnet
- Electronic magnetic hold increase
- Visual magnetic holding force gauge
- Fine drill spindle adjustment
- Automatic coolant supply
- Torque slip clutch
- Viseo Touch Pad controls
- "Memory Function" speed storage
- Electronic overload protection

Applications

Core drilling

Twist drilling with chuck or MT 3 mount

Tapping with fast change tapping chuck

Countersinking

Reaming

Technical specifications

Model		KBM 80 U
Carbide-tipped core bit max. dia.	in (mm)	3 1/8" (80)
HSS core bit max. dia.	in (mm)	2 9/16" (65)
Core drill max. hole depth	in (mm)	2" (50)
Twist drill max. dia.	in (mm)	1 1/4" (32)
Tapping max.	in (M)	1 1/8" (27)
Max. countersinking dia.	in (mm)	2" (50)
Reaming max. dia.	in (mm)	1 3/16" (31)
Input current	A	15
Load speed		
1st gear	rpm.	110 – 180
2nd gear	rpm.	160 – 260
3rd gear	rpm.	350 – 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 adjustment range		± 11°
Magnet holding force	lbs (N)	4,050 (18,000)
Magnetic base dimensions	in (mm)	10 11/16" × 3 9/16" (270 × 90)
Cable with plug	ft (m)	13' (4)
Weight according to EPTA	lbs (kg)	55.9 (25.4)
Part number	**KBM 80 U**	**7 270 34**

Price includes: 1 case; 1 coolant container; 1 safety strap; 1 chip hook; 1 3-jaw chuck 1/2" (13 mm) dia.; 1 QuickIN adapter for M 18 × 6 P 1.5; 2 centering pins; 1 drift; 1 touch guard

Comprehensive accessories: from page 20
QuickIN MAX accessories: page 25
Machine dimensions: page 35

KBM 80 auto – fully automatic core drilling unit for outstanding efficiency in the workshop.

The KBM 80 auto workshop machine sets new standards in the areas of productivity, flexibility, and job safety for core drilling diameters up to 3 1/8" (80 mm). Its automatic drill feed ensures reproducible drilling times and uniform work progress in all materials. You save a lot of time and expense, especially with high volume drilling. Work safety is significantly increased with the KBM 80 auto because it is not necessary to interfere in the drilling operation. As the first fully automatic core drill unit with digitally controlled drill feed, the KBM 80 auto offers new levels of efficiency in the workshop.

FEIN advantages

- Time and cost savings during large volume drilling due to a digitally controlled 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

- High torque, high performance motor
- MT 3 mount
- QuickIN MAX fast change system
- QuickIN fast change system
- Extra long stroke
- Forward and reverse rotation
- Speed-controlled tacho electronics
- Powerful electromagnet
- Electronic magnet holding force increase
- Fine drill spindle adjustment
- Automatic coolant supply
- "Memory Function" speed storage
- Electronic overload protection

Applications

Core drilling

Twist drilling with chuck or MT 3 holder

Tapping with fast change tapping chuck

Countersinking

Reaming

Technical specifications

Model		KBM 80 auto
Carbide-tipped core bit max. dia.	in (mm)	3 1/8" (80)
HSS core bit max. dia.	in (mm)	2 9/16" (65)
Core drill max. drilling depth	in (mm)	2" (50)
Twist drill max. dia.	in (mm)	1 1/4" (32)
Tapping max.	in (M)	1 1/8" (27)
Countersinking max. dia.	in (mm)	2" (50)
Reaming max. dia.	in (mm)	1 3/16" (31)
Input current	A	15
Load speed		
1st gear	rpm	110 – 180
2nd gear	rpm	160 – 260
3rd gear	rpm	350 – 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 adjustment range		± 11°
Magnet holding force	lbs (N)	4,050 (18,000)
Magnetic base dimensions	in (mm)	10 11/16" × 3 9/16" (270 × 90)
Cable with plug	ft (m)	13' (4)
Weight according to EPTA	lbs (kg)	58.2 (26.4)
Part number	**KBM 80 auto**	**7 270 32**

Price includes: 1 case; 1 coolant container; 1 safety strap; 1 chip hook; 1 3-jaw chuck 1/2" (13 mm) dia.; 1 QuickIN adapter for M 18 × 6 P 1.5; 2 centering pins; 1 drift; 1 touch guard

Comprehensive accessories: from page 20
QuickIN MAX accessories: page 25
Machine dimensions: page 35

Tough work demands a tough tool.

Alongside our user-oriented core drilling unit range, FEIN also offers you a comprehensive range of core drill bits. It includes not only long-lived and high performance carbide core bits, but also extremely shock and impact resistant HSS core bits with a 5 % cobalt content. FEIN carbide-tipped core bits are primarily used in continuous operations. For example, serial drilling jobs in industry, workshop and trades.

With proper handling, they have a service life of up to twice that of HSS core bits and are therefore the most cost-effective solution for this area. On the construction site and for on-site installation work, mostly FEIN HSS core bits are used – especially when the core bit is subject to shock and impact loading.

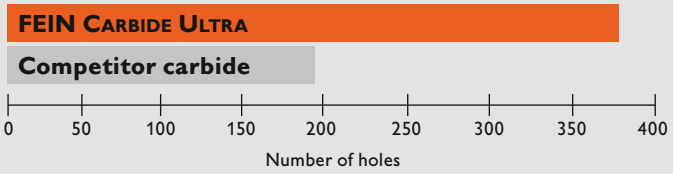
	FEIN Carbide Ultra	**FEIN HSS Dura**	**FEIN HSS Prima**	**FEIN HSS Nova**
	Longest service life due to high quality carbide tips and outstanding cutting performance in all materials. **See p. 20 / p. 25** 	Outstanding service life due to 5% cobalt content and TiALN coating for optimal results in steel, stainless steel, and grey cast iron. **See p. 23** Metric only 	Long service life due to 5% cobalt content for first class results in steel and metal construction. **See p. 22** 	Industry standard with Weldon shank. **See p. 23** 
Material				
Aluminum < 10 % Si < 87.000 lbf/in² (600 N/mm²)	▲▲	▲	▲▲	▲▲
Aluminum > 10 % Si < 87.000 lbf/in² (600 N/mm²)	▲▲	▲	▲	▲
Steel < 73.000 lbf/in² (500 N/mm²)	▲▲▲	▲▲▲	▲▲▲	▲▲▲
Steel < 110.000 lbf/in² (750 N/mm²)	▲▲▲	▲▲▲	▲▲	▲
Steel < 130.000 lbf/in² (900 N/mm²)	▲▲▲	▲▲	▲	
Steel < 160.000 lbf/in² (1100 N/mm²)	▲▲	▲		
Steel < 200.000 lbf/in² (1400 N/mm²)	▲▲			
Stainless steel < 100.000 lbf/in² (700 N/mm²)	▲▲	▲▲	▲	
Stainless steel > 100.000 lbf/in² (700 N/mm²)	▲▲	▲		
Cast iron (gray, ductile) < 44.000 lbf/in² (300 N/mm²)	▲▲▲	▲▲	▲	▲
Brass (CuZn) < 73.000 lbf/in² (500 N/mm²)	▲▲			
Hard-to-cut materials	▲▲	▲		
Surface				
Flat surfaces	▲▲▲	▲▲▲	▲▲▲	▲▲▲
Textured surfaces	▲	▲▲	▲▲	▲
Tube surface	▲▲	▲▲	▲▲	▲
Curved surfaces	▲▲	▲▲	▲▲	▲
Uneven surfaces	▲	▲▲	▲▲	▲
Special applications				
Dry drilling	▲▲▲	▲▲▲	▲	
Stepped drilling	▲	▲▲	▲▲	▲
Multi-layer drilling	▲	▲	▲	▲
Overlap drilling	▲▲	▲▲	▲▲	▲

▲ suitable ▲▲ very suitable ▲▲▲ ideal

Carbide core bits

FEIN Ultra carbide tipped core bits are exceptionally suitable for continuous use in industry, workshop and trades. Due to high-quality carbide tips and a special cutting geometry, they achieve long service life and outstanding cutting performance. At the same time, they offer you enormous flexibility in terms of material capability: from aluminum and standard structural steel to hard-to-cut material.

Carbide service life comparison



Test conditions: Compared with the average result for competitors' carbide products of 190 holes per core bit, the FEIN Carbide Ultra core bit completed 380 holes. Material: C 45-Steel, 1 3/16" (30 mm) thick; 11/16" (18 mm) diameter.

Carbide Ultra 2" core bits with QuickIN

Long service life and outstanding cutting performance. Inch sizes, drilling depth 2"/50 mm

dia. in	dia. mm	Part number
1/2"	12,70	6 31 27 383 01 0
9/16"	14,29	6 31 27 384 01 0
5/8"	15,88	6 31 27 385 01 0
11/16"	17,46	6 31 27 386 01 0
3/4"	19,05	6 31 27 387 01 0
13/16"	20,64	6 31 27 388 01 0
7/8"	22,23	6 31 27 389 01 0
15/16"	23,81	6 31 27 390 01 0
1"	25,40	6 31 27 391 01 0
1 1/16"	26,99	6 31 27 392 01 0
1 1/5"	28,58	6 31 27 393 01 0
1 3/16"	30,16	6 31 27 394 01 0
1 1/4"	31,75	6 31 27 395 01 0
1 5/16"	33,34	6 31 27 396 01 0
1 3/8"	34,93	6 31 27 397 01 0
1 7/16"	36,51	6 31 27 398 01 0
1 1/2"	38,10	6 31 27 399 01 0
1 9/16"	39,19	6 31 27 400 01 0
1 5/8"	41,28	6 31 27 401 01 0
1 11/16"	42,86	6 31 27 402 01 0
1 13/16"	44,45	6 31 27 403 01 0
1 13/16"	46,04	6 31 27 404 01 0
1 7/8"	47,63	6 31 27 405 01 0
1 15/16"	49,21	6 31 27 406 01 0
2"	50,80	6 31 27 407 01 0
2 1/16"	52,39	6 31 27 408 01 0

Set model

Consisting of 4 core bits, 9/16", 11/16", 13/16", 15/16" diameter, (drilling depth 2"/50 mm), and 1 centering pin 4 1/8"/105 mm) in a plastic carrying case.

Part number	6 31 27 384 02 0

Carbide Ultra core bits with QuickIN

Long service life and outstanding cutting performance. Metric dimensions, drilling depth 1 3/8" (35 mm)

dia. mm	Part number
12	6 31 27 086 01 9
13	6 31 27 087 01 3
14	6 31 27 088 01 1
15	6 31 27 089 01 5
15,5	6 31 27 238 01 1
16	6 31 27 090 01 7
17	6 31 27 091 01 6
17,5	6 31 27 239 01 5
18	6 31 27 092 01 9
19	6 31 27 093 01 3
19,5	6 31 27 240 01 7
20	6 31 27 094 01 1
21	6 31 27 095 01 5
22	6 31 27 096 01 8
23	6 31 27 097 01 2
24	6 31 27 098 01 0
25	6 31 27 099 01 4
26	6 31 27 100 01 5
26,5	6 31 27 241 01 6
27	6 31 27 101 01 4
28	6 31 27 102 01 7
29	6 31 27 103 01 1
30	6 31 27 104 01 9
31	6 31 27 105 01 3
32	6 31 27 106 01 6
33	6 31 27 107 01 0
34	6 31 27 108 01 8
35	6 31 27 109 01 2
36	6 31 27 110 01 4
37	6 31 27 111 01 3
38	6 31 27 112 01 6
39	6 31 27 113 01 0
40	6 31 27 114 01 8
41	6 31 27 115 01 2
42	6 31 27 116 01 5
43	6 31 27 117 01 9
44	6 31 27 118 01 7
45	6 31 27 119 01 1
46	6 31 27 120 01 3
47	6 31 27 121 01 2
48	6 31 27 122 01 5
49	6 31 27 123 01 9
50	6 31 27 124 01 7
51	6 31 27 125 01 1
52	6 31 27 126 01 4
53	6 31 27 127 01 8
54	6 31 27 128 01 6
55	6 31 27 129 01 0
56	6 31 27 130 01 2
57	6 31 27 131 01 1
58	6 31 27 132 01 4
59	6 31 27 133 01 8
60	6 31 27 134 01 6
61	6 31 27 135 01 0
62	6 31 27 136 01 3
63	6 31 27 137 01 7
64	6 31 27 138 01 5
65	6 31 27 139 01 9

Set model

Consists of 4 core bits, 14, 18, 22, and 32 mm diameter, drilling depth 1 3/8" (35 mm), and 1 centering pin 4 1/8" (105 mm) in a plast ic carrying case.

Part number	6 31 27 088 03 0

Carbide-tipped core bits with M 18 × 6 P 1.5 FEIN thread

Long service life and outstanding cutting performance. Metric dimensions, drilling depth 2" (50 mm)

dia. mm	Part number
12	6 31 27 042 01 4
13	6 31 27 043 01 8
14	6 31 27 044 01 6
15	6 31 27 045 01 0
16	6 31 27 046 01 3
17	6 31 27 047 01 7
18	6 31 27 001 01 5
19	6 31 27 019 01 2
20	6 31 27 002 01 8
21	6 31 27 020 01 4
22	6 31 27 003 01 2
23	6 31 27 021 01 3
24	6 31 27 022 01 6
25	6 31 27 004 01 0
26	6 31 27 005 01 4
27	6 31 27 023 01 0
28	6 31 27 006 01 7
29	6 31 27 024 01 8
30	6 31 27 007 01 1
31	6 31 27 025 01 2
32	6 31 27 008 01 9
33	6 31 27 026 01 5
34	6 31 27 009 01 3
35	6 31 27 010 01 5
36	6 31 27 027 01 9
37	6 31 27 028 01 7
38	6 31 27 011 01 4
39	6 31 27 029 01 1
40	6 31 27 012 01 7
41	6 31 27 030 01 3
42	6 31 27 013 01 1
43	6 31 27 014 01 9
44	6 31 27 031 01 2
45	6 31 27 015 01 3
46	6 31 27 032 01 5
47	6 31 27 033 01 9
48	6 31 27 016 01 6
49	6 31 27 034 01 7
50	6 31 27 017 01 0
51	6 31 27 035 01 1
52	6 31 27 018 01 8
53	6 31 27 036 01 4
54	6 31 27 037 01 8
55	6 31 27 038 01 6
56	6 31 27 039 01 0
57	6 31 27 040 01 2
58	6 31 27 041 01 1
59	6 31 27 049 01 9
60	6 31 27 050 01 1
61	6 31 27 051 01 0
62	6 31 27 052 01 3
63	6 31 27 053 01 7
64	6 31 27 054 01 5
65	6 31 27 055 01 9

Carbide-tipped "S" core bits with M 18 × 6 P 1.5 FEIN thread

Developed specially for use in track and rail construction: Extremely hard carbide cutting teeth and optimized cutting geometry ensure excellent results. Metric dimensions, Drilling depth 2" (50 mm)

dia. mm	Part number
24	6 31 27 056 01 2
26	6 31 27 057 01 6
30	6 31 27 058 01 4
32	6 31 27 059 01 8
33	6 31 27 048 01 5
36	6 31 27 060 01 0
40	6 31 27 436 01 0

Carbide Ultra 50 core bits with Weldon shank

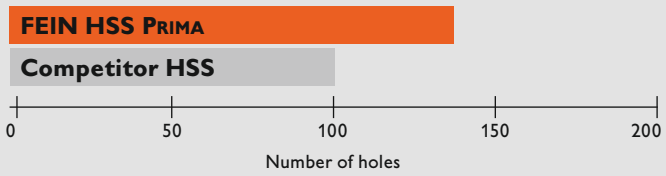
Long service life and outstanding cutting performance. Metric dimensions, drilling depth 2" (50 mm)

dia. mm	Part number
12	6 31 27 276 01 0
13	6 31 27 277 01 0
14	6 31 27 278 01 0
15	6 31 27 279 01 0
16	6 31 27 280 01 0
17	6 31 27 281 01 0
18	6 31 27 282 01 0
19	6 31 27 283 01 0
20	6 31 27 284 01 0
21	6 31 27 285 01 0
22	6 31 27 286 01 0
23	6 31 27 287 01 0
24	6 31 27 288 01 0
25	6 31 27 289 01 0
26	6 31 27 290 01 0
27	6 31 27 291 01 0
28	6 31 27 292 01 0
29	6 31 27 293 01 0
30	6 31 27 294 01 0
31	6 31 27 295 01 0
32	6 31 27 296 01 0
33	6 31 27 297 01 0
34	6 31 27 298 01 0
35	6 31 27 299 01 0
36	6 31 27 300 01 0
37	6 31 27 301 01 0
38	6 31 27 302 01 0
39	6 31 27 303 01 0
40	6 31 27 304 01 0
41	6 31 27 305 01 0
42	6 31 27 306 01 0
43	6 31 27 307 01 0
44	6 31 27 308 01 0
45	6 31 27 309 01 0
46	6 31 27 310 01 0
47	6 31 27 311 01 0
48	6 31 27 312 01 0
49	6 31 27 313 01 0
50	6 31 27 314 01 0
51	6 31 27 315 01 0
52	6 31 27 316 01 0
53	6 31 27 317 01 0
54	6 31 27 318 01 0
55	6 31 27 319 01 0
56	6 31 27 320 01 0
57	6 31 27 321 01 0
58	6 31 27 322 01 0
59	6 31 27 323 01 0
60	6 31 27 324 01 0
61	6 31 27 325 01 0
62	6 31 27 326 01 0
63	6 31 27 327 01 0
64	6 31 27 328 01 0
65	6 31 27 329 01 0

HSS core bits

FEIN HSS PRIMA core bits are made from extremely high-quality high speed steel: 5% cobalt content ensures long service life and increases shock and impact resistance. FEIN HSS PRIMA core bits achieve first class drilling results in steel and metal construction and provide you with extremely cost effective drilling on installation work.

HSS service life comparison



Test conditions: Compared with the average result for competitors' carbide products of 100 holes per core bit, the FEIN Carbide ULTRA core bit completed 140 holes. Material: C 45-Steel, 1 3/16" (30 mm) thick; 11/16" (18 mm) diameter

HSS PRIMA 1" core bits with QuickIN

5% cobalt alloy for long service life, inch dimensions, drilling depth 1" / 25 mm

dia. in	dia. mm	Part number
7/16"	11,11	6 31 27 409 01 0
1/2"	12,70	6 31 27 410 01 0
9/16"	14,29	6 31 27 411 01 0
5/8"	15,88	6 31 27 412 01 0
11/16"	17,46	6 31 27 413 01 0
3/4"	19,05	6 31 27 414 01 0
13/16"	23,81	6 31 27 415 01 0
7/8"	22,23	6 31 27 416 01 0
15/16"	23,81	6 31 27 417 01 0
1"	25,40	6 31 27 418 01 0
1 1/16"	26,99	6 31 27 419 01 0
1 1/5"	28,58	6 31 27 420 01 0
1 3/16"	30,16	6 31 27 421 01 0
1 1/4"	31,75	6 31 27 422 01 0
1 5/16"	33,34	6 31 27 423 01 0
1 3/8"	34,93	6 31 27 424 01 0
1 7/16"	36,51	6 31 27 425 01 0
1 1/2"	38,10	6 31 27 426 01 0
1 9/16"	39,19	6 31 27 427 01 0
1 5/8"	41,28	6 31 27 428 01 0
1 11/16"	42,86	6 31 27 429 01 0
1 3/4"	44,45	6 31 27 430 01 0
1 13/16"	48,04	6 31 27 431 01 0
1 7/8"	47,63	6 31 27 432 01 0
1 15/16"	49,21	6 31 27 433 01 0
2	50,80	6 31 27 434 01 0
2 1/16"	52,39	6 31 27 435 01 0

Set model

Consisting of 4 core bits, 9/16", 11/16", 13/16", 15/16", diameter, (drilling depth 1" / 25 mm), and 1 centering pin 4 1/8"/ 105 mm) in a plastic carrying case.

Part number	6 31 27 411 02 0

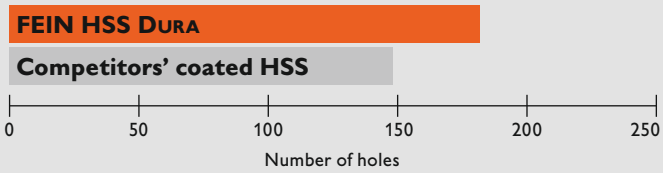
HSS PRIMA core bits with QuickIN

5% cobalt alloy for long service life. Metric dimensions, drilling depth 1 3/8" (35 mm)

dia. mm	Part number
12	6 31 27 194 01 0
13	6 31 27 195 01 4
14	6 31 27 196 01 7
15	6 31 27 197 01 1
16	6 31 27 198 01 9
17	6 31 27 199 01 3
18	6 31 27 200 01 1
19	6 31 27 201 01 0
20	6 31 27 202 01 3
21	6 31 27 203 01 7
22	6 31 27 204 01 5
23	6 31 27 205 01 9
24	6 31 27 206 01 2
25	6 31 27 207 01 6
26	6 31 27 208 01 4
27	6 31 27 209 01 8
28	6 31 27 210 01 0
29	6 31 27 211 01 9
30	6 31 27 212 01 2
31	6 31 27 213 01 6
32	6 31 27 214 01 4

FEIN HSS DURA core bits are used where extended work is required under difficult conditions or where coolant cannot be used. They consist of high-quality high speed steel with 5 % cobalt content. A first class TiAN coating covers the surface. This ensures excellent glide properties, increased heat resistance, and outstanding service life in steel, stainless steel, and gray cast iron (Metric dimensions only).

Coated HSS service life comparison



Test conditions: Compared with the average result for competitors' carbide products of 190 holes per core bit, the FEIN Carbide ULTRA core bit completed 380 holes. Material: C 45 steel, 1 3/16" (30 mm) thick; 11/16" (18 mm) diameter.

HSS DURA core bits with QuickIN

5 % cobalt alloy and surface coating for outstanding service life and excellent glide properties. Metric dimensions, drilling depth1 3/8" (35 mm)

dia. mm	Part number
12	6 31 27 140 01 1
13	6 31 27 141 01 0
14	6 31 27 142 01 3
15	6 31 27 143 01 7
16	6 31 27 144 01 5
17	6 31 27 145 01 9
18	6 31 27 146 01 2
19	6 31 27 147 01 6
20	6 31 27 148 01 4
21	6 31 27 149 01 8
22	6 31 27 150 01 0
23	6 31 27 151 01 9
24	6 31 27 152 01 2
25	6 31 27 153 01 6
26	6 31 27 154 01 4
27	6 31 27 155 01 8
28	6 31 27 156 01 1
29	6 31 27 157 01 5
30	6 31 27 158 01 3
31	6 31 27 159 01 7
32	6 31 27 160 01 9

Set model

Consisting of 6 core bits, 14, 16, 18, 20, 22, 26 mm diameter, (drilling depth 1 3/8" / 35 mm), and a centering pin in a plastic carrying case.

Part number	6 31 27 142 02 9

HSS NOVA 1" core bits with Weldon shank

Industry standard. Inch sizes, drilling depth 1"/25 mm

dia. in	dia. mm	Part number
7/16"	11,11	6 31 27 356 01 5
1/2"	12,70	6 31 27 357 01 0
9/16"	14,29	6 31 27 358 01 0
5/8"	15,88	6 31 27 359 01 0
11/16"	17,46	6 31 27 360 01 0
3/4"	19,05	6 31 27 361 01 0
13/16"	20,64	6 31 27 362 01 0
7/8"	22,23	6 31 27 363 01 0
15/16"	23,81	6 31 27 364 01 0
1"	25,40	6 31 27 365 01 0
1 1/16"	26,99	6 31 27 366 01 0
1 1/8"	28,58	6 31 27 367 01 0
1 3/16"	30,16	6 31 27 368 01 0
1 1/4"	31,75	6 31 27 369 01 0

Centering pins

Length: 4 1/8" (105 mm)

Core bits	Holder	drilling depth
Carbide ULTRA 2"	QuickIN	2"
HSS PRIMA 1"	QuickIN	1"
HSS NOVA 1"	Weldon	1"
Part number		3 02 17 332 00 9

Length: 4 11/16" (125 mm)

Core bits	Holder	drilling depth
Carbide ULTRA 2"	QuickIN MAX	2"
HSS PRIMA 1" (with adapter 6 39 01 045 01 0)	QuickIN	1"
Competitor (with adapter 6 39 01 021 01 4)	Weldon	1", 1 – 3/8"
Part number		3 02 17 333 00 3

Length: 5 5/16" (135mm)

Core bits	Holder	drilling depth
Carbide ULTRA 2" (with adapter 6 39 01 045 01 0)	QuickIN	2"
Competitor (with adapter 6 39 01 021 01 4)	Weldon	2"
Part number		3 02 17 355 00 0

Length: 3 3/8" (85 mm)

Core bits	Holder	drilling depth
HSS PRIMA 1" 7/16" dia.	QuickIN	1"
HSS NOVA 1" 7/16" dia.	QuickIN	1"
Part number		3 02 17 338 00 0

Length: 4 15/16" (125 mm)

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

Competitors' Weldon core bits with an pilot hole > 1/4" (6.4 mm) require adapter 6 39 01 024 01.

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

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.

Adapters/chucks

Adapter with QuickIN
M 18 × 6 P 1.5 drive

Part number	6 39 01 020 00 6

3/4" Weldon drive

Part number	6 39 01 021 01 4

3/4" Weldon special drive. Specially for competitors' core bits with a pilot hole larger than 1/4 (6.4 mm)

Part number	6 39 01 024 01 9

1/2" drive

Part number	6 39 01 022 00 8

B 16 drive

Part number	6 39 01 023 00 2

Adapter with Weldon shank
for conversion of competitors' products to the QuickIN system

Part number	6 39 01 027 01 0

3-jaw chuck with QuickIN shank

Capacity in. (mm)	Part number 1/pack
1/16" – 1/2" (1,5 – 13)	6 39 01 023 02 0
3/64" – 5/8" (1 – 16)	6 39 01 023 01 1

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), including centering pin

Part number	6 31 06 016 01 0

Mounting shafts

QuickIN adapter 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)	Part 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

For retrofitting models KBM 52 U (7 270 31), KBM 65 Q (7 270 26) and KBM 65 QF (7 270 23). Integrated cooling lubricant supply

Taper	Ø in (mm)	Part number
MT 3	7/16" – 2 9/16" (12 – 65)	6 39 01 017 01 1

KBM 80 U / 80 auto accessories see p. 25

Tapping

Fast change tapping chuck for KBM 52 U
only useable on core drilling units with reverse rotation. Size 2, with QuickIN shaft, for taps, in combination with collets with or without safety clutch, from 5/16" to 5/8" (M 6 – M 16)

Part number	9 26 02 079 01 0

Collets, size 2

Thread	Part number
5/16"-24	6 32 06 117 99 9
3/8"-16	6 32 06 095 99 9
7/16"-14	6 32 06 096 99 9
1/2"-12	6 32 06 097 99 9
9/16"-12	6 32 06 098 99 9
5/8"-11	6 32 06 099 99 9
11/16"-24	6 32 06 121 99 9

with safety clutch for blind holes

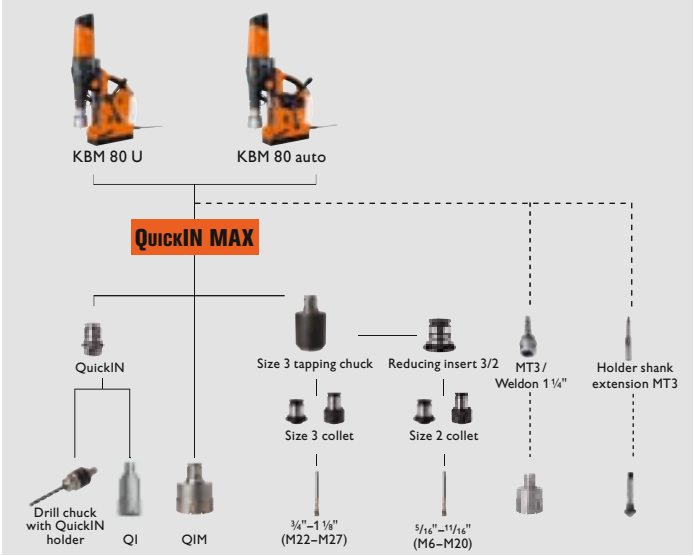
Thread	Part number
5/16"-24	6 32 06 118 99 9
3/8"-16	6 32 06 102 99 9
7/16"-14	6 32 06 103 99 9
1/2"-12	6 32 06 104 99 9
9/16"-12	6 32 06 105 99 9
5/8"-11	6 32 06 106 99 9
11/16"-24	6 32 06 122 99 9

Taps are available from specialist dealers

KBM 80 U / 80 auto accessories see p. 26

FEIN KBM 80 QuickIN MAX accessories – what fits together, belongs together.

With a wide range of accessories, from core bits, centering pins, and adapters to special adapter shafts for various drives, FEIN makes sure that everything fits together perfectly when core drilling with the KBM 80. The QuickIN MAX shaft allows carbide Ultra 50 core bits to fit competitor machines with standard Weldon 1 ¼" holders.



Carbide Ultra 2" core bits with QuickIN MAX

Long service life and outstanding cutting performance. Inch sizes, drilling depth 2"/50 mm

Ø in	Ø mm	Part number
2"	50,80	6 31 27 437 01 0
2 1/16"	52,39	6 31 27 438 01 0
2 ⅛"	53,98	6 31 27 439 01 0
2 3/16"	55,56	6 31 27 440 01 0
2 ¼"	57,15	6 31 27 441 01 0
2 5/16"	58,74	6 31 27 442 01 0
2 ⅜"	60,33	6 31 27 443 01 0
2 7/16"	61,91	6 31 27 444 01 0
2 ½"	63,50	6 31 27 445 01 0
2 9/16"	65,09	6 31 27 446 01 0
2 ⅝"	66,68	6 31 27 447 01 0
2 11/16"	68,26	6 31 27 448 01 0
2 ¾"	69,85	6 31 27 449 01 0
2 13/16	71,44	6 31 27 450 01 0
2 ⅞"	73,03	6 31 27 451 01 0
2 15/16"	74,61	6 31 27 452 01 0
3"	76,20	6 31 27 453 01 0
3 1/16"	77,79	6 31 27 454 01 0
3 ⅛"	79,38	6 31 27 455 01 0

Centering pin

Centering pin for QuickIN MAX core bits

L/in (mm)	Part number
4 11/16" (125)	3 02 17 333 00 3

Carbide Ultra 50 core bits with QuickIN MAX

Long service life and outstanding cutting performance. Metric dimensions, drilling depth 2" (50 mm)

Ø mm	Part number
50	6 31 27 330 01 0
51	6 31 27 331 01 0
52	6 31 27 332 01 0
53	6 31 27 333 01 0
54	6 31 27 334 01 0
55	6 31 27 335 01 0
56	6 31 27 336 01 0
57	6 31 27 337 01 0
58	6 31 27 338 01 0
59	6 31 27 339 01 0
60	6 31 27 340 01 0
61	6 31 27 341 01 0
62	6 31 27 342 01 0
63	6 31 27 343 01 0
64	6 31 27 344 01 0
65	6 31 27 345 01 0
66	6 31 27 346 01 0
67	6 31 27 347 01 0
68	6 31 27 348 01 0
69	6 31 27 349 01 0
70	6 31 27 350 01 0
71	6 31 27 351 01 0
72	6 31 27 352 01 0
73	6 31 27 353 01 0
74	6 31 27 354 01 0
75	6 31 27 355 01 0
76	6 31 27 456 01 0
77	6 31 27 457 01 0
78	6 31 27 458 01 0
79	6 31 27 459 01 0
80	6 31 27 460 01 0

Adapters/chucks

Adapter with QuickIN MAX QuickIN drive

Part number	6 39 01 045 01 0

3 jaw chuck with QuickIN shank

Capacity in (mm)	Part number
1/16" – ½" (1.5–13mm)	6 39 01 023 02 0

Capacity in (mm)	Part number
3/64" – 5/8" (1–16mm)	6 39 01 023 01 1

MT 3 mounting shafts

QuickIN drive

For retrofitting KBM 80 U / KBM80 auto. With integrated cooling lubricant supply. For all QuickIN core bits 7/16" – 2 9/16" (12–65mm) dia.

Part number	6 39 01 039 02 0

QuickIN MAX drive

For retrofitting KBM 80 U / KBM80 auto. With integrated cooling lubricant supply. For all FEIN QuickIN MAX core bits 2" – 3 ⅛" (50–80 mm) dia.

Part number	6 39 01 038 02 0

1 ¼" Weldon Standard drive

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

Part number	6 39 01 041 01 0

1 ¼" Weldon drive

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

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

MT 3 adapter shaft extension

MT 3 drive. Especially for countersinking

Part number	6 33 04 005 00 0

KBM 80 tapping

Fast change tapping chuck 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–M27)

Part number	9 26 02 082 01 0

Collets, size 3

Thread	Part number
3/4"-10	6 32 06 126 01 0
13/16"-24	6 32 06 127 01 0
7/8"-14	6 32 06 128 01 0
15/16"-20	6 32 06 129 01 0
1"-8	6 32 06 130 01 0
1 1/8"-12	6 32 06 131 01 0

with safety clutch for blind holes

Thread	Part number
3/4"-10	6 32 06 132 01 0
13/16"-24	6 32 06 133 01 0
7/8"-14	6 32 06 134 01 0
15/16"-20	6 32 06 135 01 0
1"-8	6 32 06 136 01 0
1 1/8"-12	6 32 06 137 01 0

Reducing insert (3/2)
Reducing insert to accept size 2 collets 5/16" – 11/16" (M 6 – M 20) in the size 3 fast-change tapping chuck.
(9 26 02 082 01 0)

Part number	6 32 06 125 01 0

Magnetic or not: FEIN clamping devices for every purpose.

For materials and work pieces where the core drilling unit electromagnets cannot be used, FEIN offers you alternative clamping devices. There is a suction plate for non-magnetic materials such as stainless steel or aluminum, a vacuum plate that works together with a vacuum pump for checker plate, and a device for drilling tube from 2 3/8" to 11 13/16" (60 – 300 mm) diameter.

Clamping devices

Vacuum plate
for non-magnetic materials and textured surfaces, such as checkered plate. Vacuum pump with suction capacity of 0.55 cfm, -11.6 psi is required.

Vacuum plate 15 9/16" × 7 7/8" × 3 3/4" (396 × 200 × 95 mm) for KBM 32 Q, 50 QX, 52 U, 65 Q, 65 QF

Part number	9 26 02 057 01 7

Vacuum plate 15 9/16" × 13 25/32" × 3 3/4" (396 × 350 × 95 mm) for KBM 80 U, 80 auto

Part number	9 26 02 085 01 0

Suction plate
for non-magnetizable materials, 9 3/16" × 13" × 4 5/16" (250 × 330 × 110 mm)

Not useable with KBM 80

Part number	9 26 02 054 01 6

Tube drilling device
including clamping strap, allows drilling of tubes from 2 3/8" to 11 13/16" (60 bis 300 mm) diameter, 8 11/16" × 5 1/8" (220 × 130 mm)

Part number	9 26 02 055 01 0

General accessories

Touch guard
prevents unintended contact with rotating parts. Increases passive safety. Also suitable for retrofitting KBM 32 Q, 50 Q, 50 QX and KBM 52 U

Part number	6 39 01 037 01 0

Long service life – perfect drilling results.

Adequate and reliable cooling extends tool service life and guarantees better work progress. On FEIN core drilling units the coolant is supplied by an integrated internal cooling lubrication. The cooling and lubricating liquid is delivered directly to the teeth of the core bit. When working overhead, however – external cooling will be necessary. A coolant spray is recommended.

The internal cooling lubrication on FEIN core drilling units allows fast, efficient work and long tool service life.

Long service life with the correct lubricant

Material	Lubricant
Aluminum < 10% Si < 87.000 lbf/in² (600 N/mm²)	Emulsion, kerosene*
Aluminum > 10% Si < 87.000 lbf/in² (600 N/mm²)	Emulsion, kerosene*
Steel < 73.000 lbf/in² (500 N/mm²)	Emulsion
Steel < 110.000 lbf/in² (750 N/mm²)	Emulsion
Steel < 130.000 lbf/in² (900 N/mm²)	Emulsion, high-performance cutting oil
Steel < 160.000 lbf/in² (1100 N/mm²)	Emulsion, high-performance cutting oil
Steel < 200.000 lbf/in² (1400 N/mm²)	Emulsion, high-performance cutting oil
Stainless steel < 100.000 lbf/in² (700 N/mm²)	Emulsion
Stainless steel > 100.000 lbf/in² (700 N/mm²)	Emulsion, high-performance cutting oil
Brass < 44.000 lbf/in² (300 N/mm²)	Emulsion, dry
Brass (CuZn) < 73.000 lbf/in² (500 N/mm²)	Emulsion
Hard-to-cut materials	Emulsion, high-performance cutting oil
Rails	Emulsion, high-performance cutting oil

* do not use with the KBM 80 coolant container!

To obtain optimal service life and long-lasting tools, the cooling and lubricating liquid must be correctly matched to the material being worked on.

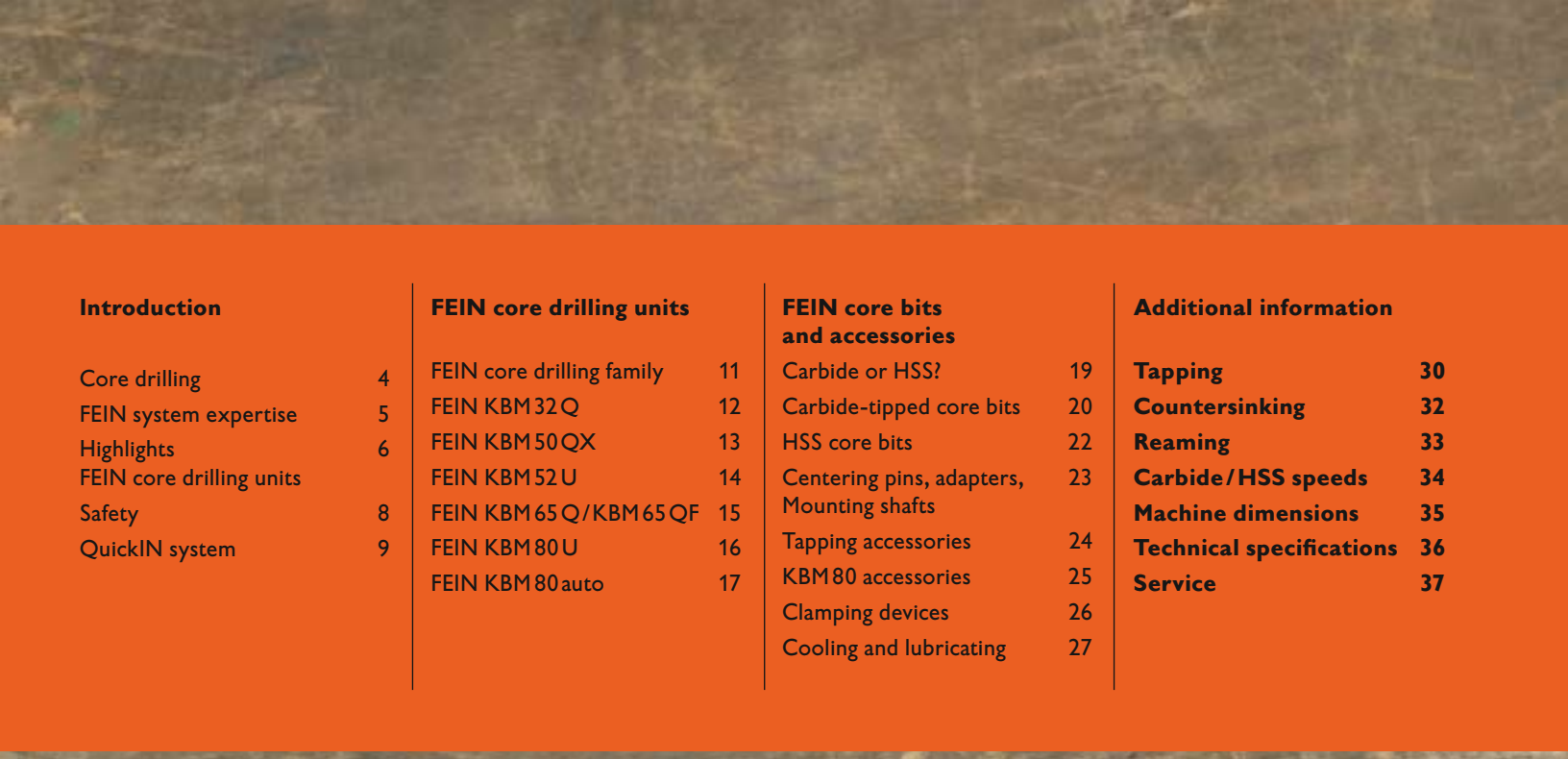
Cooling

Hand pump
Approximately 15 fl.oz. (450 ml) capacity. Suitable for FEIN core drilling units KBM 32 Q, KBM 50 QX, KBM 52 U, KBM 65 Q, KBM 65 QF

Part number	3 21 32 022 00 7

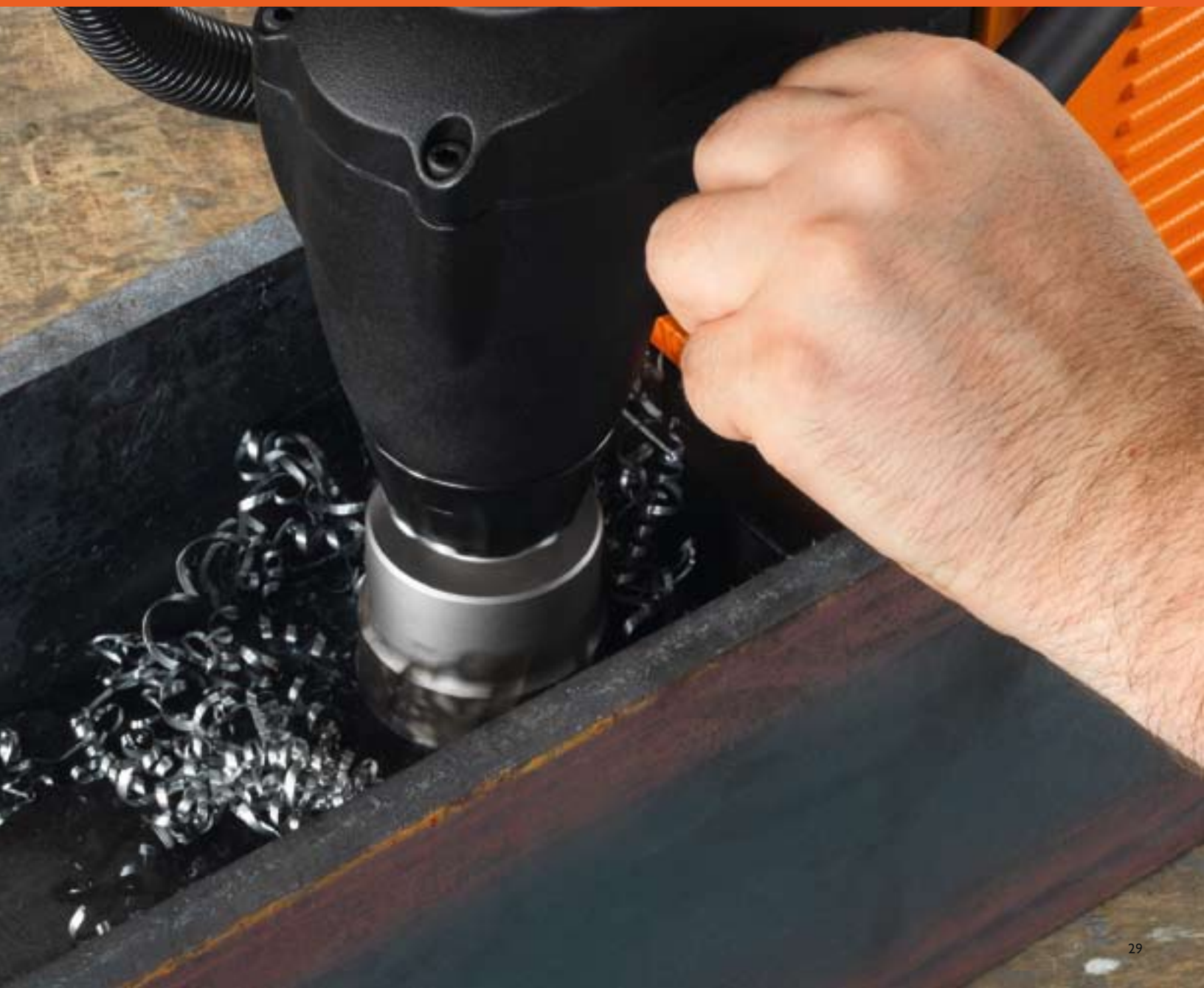
Gravity cooling lubricant equipment
Capacity approximately 16 ½ fl.oz. (500 ml). Exact flow control using the ball valve. Suitable for FEIN core drilling units KBM 32 Q, KBM 50 QX as well as KBM 52 U built after 2006

Part number	6 39 01 036 01 0



Additional information

For more than 25 years FEIN has meant sound professional knowledge, comprehensive know-how, and system expertise: for core drilling units, for core bits – and for accessories. Experience that covers not only use of the correct speeds and suitable cooling and lubricating liquids, but also all the questions related to tapping, reaming, and countersinking. Because core drilling units from FEIN also offer considerable advantages in these applications. Let the following pages convince you. Your FEIN specialist dealer is always at your service for additional questions or a complete consultation. And if your core drilling unit should ever stop, your FEIN service partner will quickly get it running again. You can count on that! Because FEIN also stands for absolute reliability and long-lasting quality when it comes to service.



Precision tapping from 5/16" to 1 1/8" (M 6 to M 27).

Electric tapping is several times more accurate than hand tapping, goes faster and effortlessly. This is especially true for tapping with FEIN core drilling units. Their large stroke allows tool changes without removing the core drilling unit from the work piece and without repositioning or recentering when the tap is inserted. Their individually settable, electronic speed reduction and feed using the hand wheel enables smooth and precise work. For tapping blind holes, special collets with an integrated safety clutch prevent the tap from jamming at the bottom of the hole and breaking.

FEIN offers you an extensive accessory selection for tapping: from fast change tapping chucks to collets from 5/16" to 1 1/8" (M 6 to M 27). Conclusion: FEIN core drilling units and accessories are also an outstanding choice for tapping.

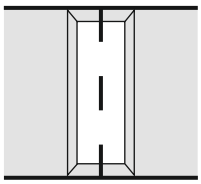
Save time with a fast change tapping chuck

A fast change tapping chuck provides the most cost effective solution for core drilling units with built-in reverse rotation.

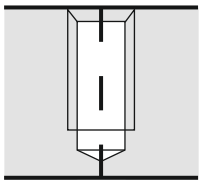
Custom tapping collets

FEIN compliant tapping collets are for use with specific thread types and taps. Each one has a different interior diameter and matches the circular and square shaft of the tap.

Precision results when tapping



Through hole



Blind hole

Through or blind hole makes no difference: with FEIN core drilling units you will also achieve precision results in the shortest time when tapping.

Cutting speed when tapping

Material	Tool	Cutting speed ft/min (m/min)*
Aluminum > 10% Si < 87.000 lbf/in² (600 N/mm²)	HSS HSS coated Carbide	66 (20) 131 (40) 98 (30)
Steel < 73.000 lbf/in² (500 N/mm²)	HSS HSS coated Carbide	66 (20) 82 (25) 82 (25)
Steel > 73.000 lbf/in² (500 N/mm²)	HSS HSS coated Carbide	66 (15) 66 (20) 66 (20)
Stainless steel < 100.000 lbf/in² (700 N/mm²)	HSS HSS coated Carbide	26 (8) 33 (10) 49 (15)
Gray cast iron < 44.000 lbf/in² (300 N/mm²)	HSS HSS coated Carbide	49 (15) 82 (25) 49 (15)
Brass (CuZn) < 73.000 lbf/in² (500 N/mm²)	HSS HSS coated Carbide	66 (20) 131 (40) 115 (35)

*Information not guaranteed

From 5/16" to 1 1/8" (M 6 to M 27) – FEIN is ready with the correct solution for every tap diameter.

	KBM 52 U	KBM 80 U	KBM 80 auto
	 260 rpm	 260 rpm to 3/4" 180 rpm to 1 1/8"	Tapping only in manual mode  260 rpm to 3/4" 180 rpm to 1 1/8"
	+  9 26 02 079 01 0	+  9 26 02 082 01 0	+  9 26 02 082 01 0

	Pre-Drilling			Tapping					
Thread	Pilot hole Ø/in	Through hole	Blind hole	Through hole	Blind hole	Through hole	Blind hole	Through hole	Blind hole
5/16"-24	I	 6 39 01 023 02 0		 6 32 06 117 99 9	 6 32 06 118 99 9	6 32 06 125 01 0 + 6 32 06 117 99 9	6 32 06 125 01 0 + 6 32 06 118 99 9	6 32 06 125 01 0 + 6 32 06 117 99 9	6 32 06 125 01 0 + 6 32 06 118 99 9
3/8"-16	5/16"	 6 39 01 023 02 0		 6 32 06 095 99 9	 6 32 06 102 99 9	6 32 06 125 01 0 + 6 32 06 095 99 9	6 32 06 125 01 0 + 6 32 06 102 99 9	6 32 06 125 01 0 + 6 32 06 095 99 9	6 32 06 125 01 0 + 6 32 06 102 99 9
7/16"-14	U	 6 39 01 023 02 0		 6 32 06 096 99 9	 6 32 06 103 99 9	6 32 06 125 01 0 + 6 32 06 096 99 9	6 32 06 125 01 0 + 6 32 06 103 99 9	6 32 06 125 01 0 + 6 32 06 096 99 9	6 32 06 125 01 0 + 6 32 06 103 99 9
1/2"-12	27/64"	 6 39 01 023 02 0		 6 32 06 097 99 9	 6 32 06 104 99 9	6 32 06 125 01 0 + 6 32 06 097 99 9	6 32 06 125 01 0 + 6 32 06 104 99 9	6 32 06 125 01 0 + 6 32 06 097 99 9	6 32 06 125 01 0 + 6 32 06 104 99 9
9/16"-12	31/64"	 6 39 01 023 02 0		 6 32 06 098 99 9	 6 32 06 105 99 9	6 32 06 125 01 0 + 6 32 06 098 99 9	6 32 06 125 01 0 + 6 32 06 105 99 9	6 32 06 125 01 0 + 6 32 06 098 99 9	6 32 06 125 01 0 + 6 32 06 105 99 9
5/8"-11	17/32"	 6 39 01 023 01 1		 6 32 06 099 99 9	 6 32 06 106 99 9	6 32 06 125 01 0 + 6 32 06 099 99 9	6 32 06 125 01 0 + 6 32 06 106 99 9	6 32 06 125 01 0 + 6 32 06 099 99 9	6 32 06 125 01 0 + 6 32 06 106 99 9
11/16"-24	21/32"					6 32 06 125 01 0 + 6 32 06 121 99 9	6 32 06 125 01 0 + 6 32 06 122 99 9	6 32 06 125 01 0 + 6 32 06 121 99 9	6 32 06 125 01 0 + 6 32 06 122 99 9
3/4"-10	21/32"					 6 32 06 126 01 0	 6 32 06 132 01 0	 6 32 06 126 01 0	 6 32 06 132 01 0
13/16"-24	25/32"					 6 32 06 127 01 0	 6 32 06 133 01 0	 6 32 06 127 01 0	 6 32 06 133 01 0
7/8"-14	13/16"	 6 31 27 388 01 0				 6 32 06 128 01 0	 6 32 06 135 01 0	 6 32 06 128 01 0	 6 32 06 135 01 0
15/16"-20	29/32"					 6 32 06 129 01 0	 6 32 06 135 01 0	 6 32 06 129 01 0	 6 32 06 135 01 0
1"-8	7/8"	 6 31 27 389 01 0				 6 32 06 130 01 0	 6 32 06 136 01 0	 6 32 06 130 01 0	 6 32 06 136 01 0
1 1/8"-12	1 3/64"					 6 32 06 131 01 0	 6 32 06 137 01 0	 6 32 06 131 01 0	 6 32 06 137 01 0

Countersinking – for perfect screw connections.

FEIN core drilling units are especially noted for their universal capabilities. They are ideal for all work on completed holes, such as deburring or the creation of profiled or flat counterbores. Deburring of the hole – and countersinking, when necessary – is recommended, especially with screw and rivet connections. This is the only way to ensure that screw heads, nuts, or rivets lay precisely on the work piece surface. You can put different countersinking tools to use, depending on the core drilling unit. With countersinking tools with taper shafts the tool is inserted directly into the drill shaft. If the countersink has a cylindrical shaft, you can fasten it in a 3-jaw chuck. Whatever you want to connect: FEIN core drilling units allow you to achieve professional work and perfect results on holes.

To ensure that nuts, screwheads and rivet lay flush with the work piece surface – perfect deburring and countersinking with FEIN core drilling units.

Cutting speeds for countersinking

Material	Tool	Cutting speed ft/min (m/min)*
Aluminum > 10 % Si < 87.000 lbf/in² (600 N/mm²)	HSS HSS coated Carbide**	66 (20) 82 (25) 148 (45)
Steel < 73.000 lbf/in² (500 N/mm²)	HSS HSS coated Carbide**	92 (28) 112 (34) 213 (65)
Steel > 73.000 lbf/in² (500 N/mm²)	HSS HSS coated Carbide**	85 (26) 105 (32) 197 (60)
Stainless steel < 100.000 lbf/in² (700 N/mm²)	HSS HSS coated Carbide**	23 (7) 26 (8) 52 (16)
Gray cast iron < 44.000 lbf/in² (300 N/mm²)	HSS HSS coated Carbide**	66 (20) 82 (25) 148 (45)
Brass (CuZn) < 73.000 lbf/in² (500 N/mm²)	HSS HSS coated Carbide**	164 (50) 197 (60) 295 (90)

* Information not guaranteed ** Solid carbide

Model	Countersink max. dia. in (mm)
KBM 50 QX	1 3/16" (31)
KBM 52 U	2" (50)
KBM 65 Q / KBM 65 QF	2" (50)
KBM 80 U	2" (50)
KBM 80 auto	2" (50)

Reaming – precisely fitting holes with excellent surface quality.

Precisely fitting holes with high quality surfaces are produced by reaming. FEIN core drilling units also execute out this application perfectly. They impress due to highly accurate concentricity and the precision dovetail guide that is required for reaming work. This makes it a perfect tool when mobile reaming in metal construction and machinery manufacturing is involved.

Chip thickness in reaming is up to 1/32" (0.8 mm), depending on the material and diameter of the hole. The reamer is either inserted directly into the drill shaft or mounted in a 3-jaw chuck.

With FEIN core drilling units you always have the right machine on hand for every job!

For precisely fitting holes with outstanding surface quality – mechanical reaming with FEIN core drilling units.

Cutting speed for reaming

Material	Tool	Cutting speed ft/min (m/min)*
Aluminum > 10 % Si < 87.000 lbf/in² (600 N/mm²)	HSS HSS coated Carbide	– – 66 (20)
Steel < 73.000 lbf/in² (500 N/mm²)	HSS HSS coated Carbide	36 (11) 49 (15) 43 (13)
Steel > 73.000 lbf/in² (500 N/mm²)	HSS HSS coated Carbide	23 (7) 30 (9) 33 (10)
Stainless steel < 100.000 lbf/in² (700 N/mm²)	HSS HSS coated Carbide	13 (4) 20 (6) 43 (13)
Gray cast iron < 44.000 lbf/in² (300 N/mm²)	HSS HSS coated Carbide	30 (9) 39 (12) 33 (10)
Brass (CuZn) < 73.000 lbf/in² (500 N/mm²)	HSS HSS coated Carbide	36 (11) 49 (15) 66 (20)

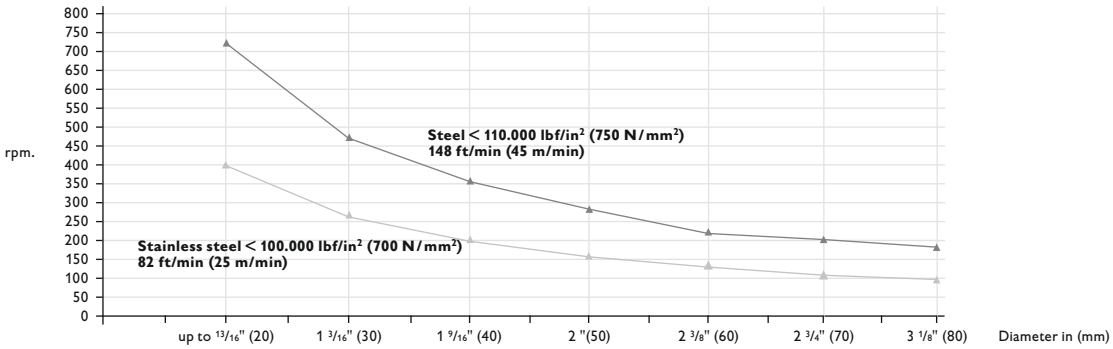
*Information not guaranteed

Model	Reamer dia. max. in (mm)
KBM 50 QX	5/8" (16)
KBM 52 U	7/8" (23)
KBM 65 Q / KBM 65 QF	7/8" (23)
KBM 80 U	1 3/16" (31)
KBM 80 auto	1 3/16" (31)

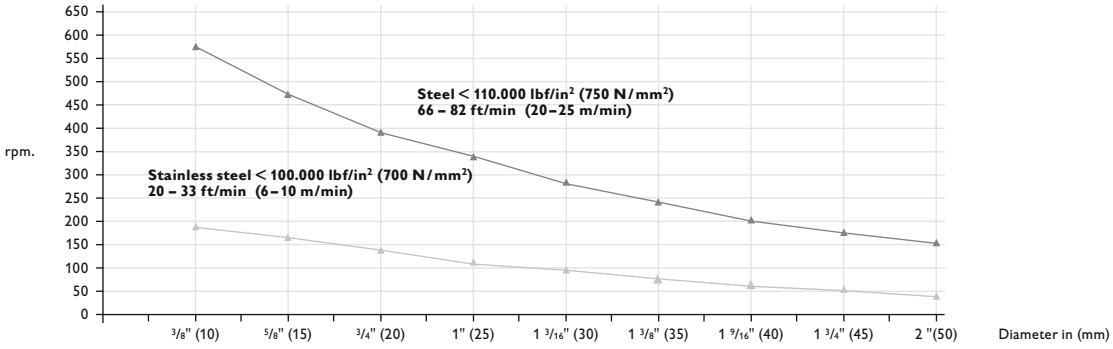
It depends on the correct speed.

Cutting speed is the most important factor in achieving optimal core drilling results. The optimal core bit speed depends on the core bit diameter, the bit type, and the material to be drilled. With their mechanical gearing, FEIN core drilling units allow you to come very close to the ideal cutting speed. You can make even finer speed adjustments on FEIN machines with electronic speed reduction. This way you can complete your volume drilling quickly and have significantly longer core bit service life.

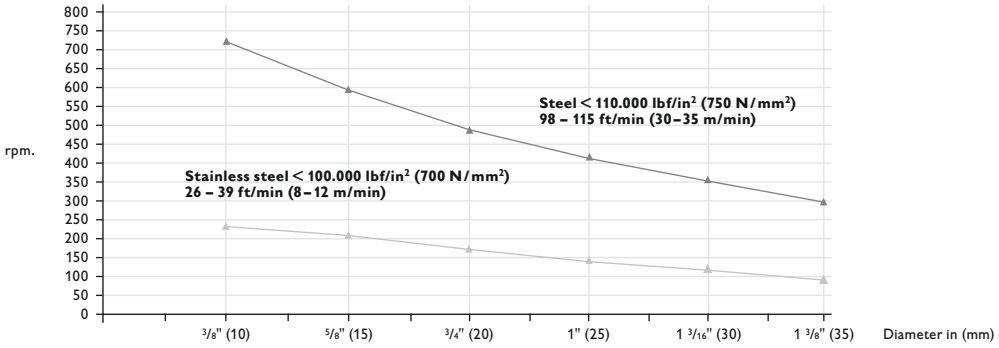
Carbide ULTRA speed guide values



HSS PRIMA & HSS NOVA speed guide values

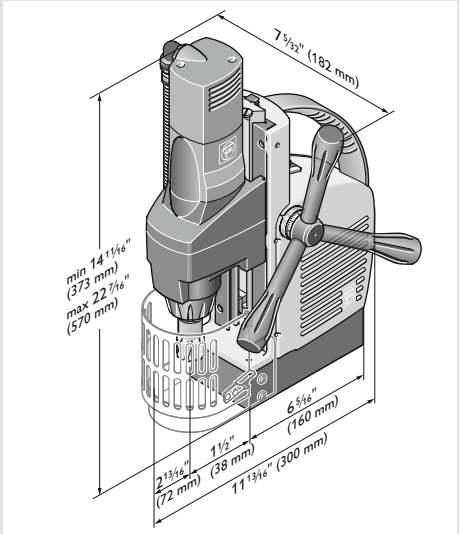


HSS DURA speed guide values

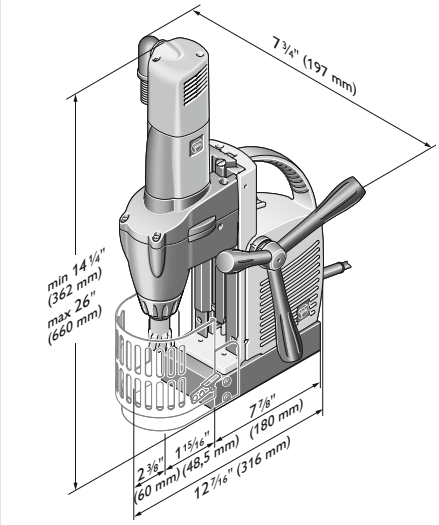


The machines and their dimensions.

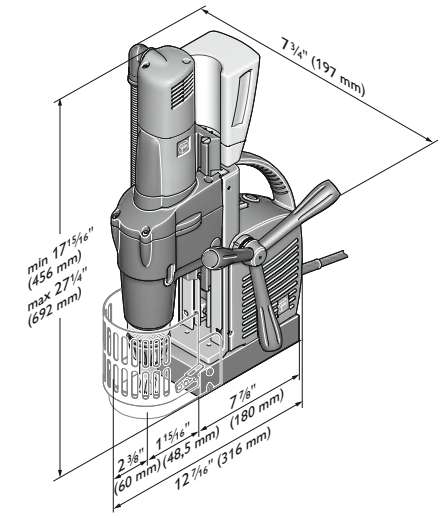
KBM 32 Q



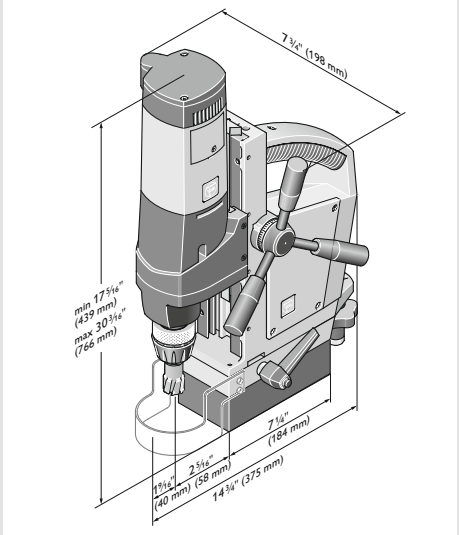
KBM 50 QX



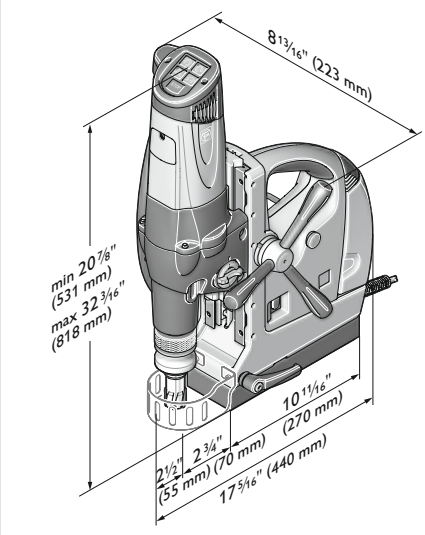
KBM 52 U



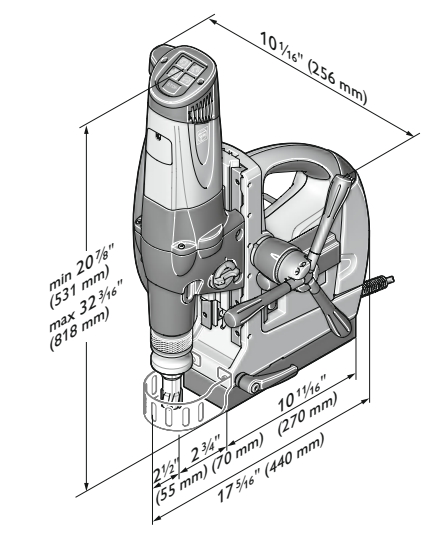
KBM 65 Q / KBM 65 QF



KBM 80 U



KBM 80 auto



FEIN core drilling units – the complete range.

		KBM 32 Q	KBM 50 QX	KBM 52 U	KBM 65 Q	KBM 65 QF	KBM 80 U	KBM 80 auto
Part number		7 270 27	7 270 33	7 270 31	7 270 29	7 270 28	7 270 34	7 270 32
Core drilling metal up to 1 1/4" (32 mm) dia.		▲▲	▲▲	▲▲	▲▲	▲▲	▲▲	▲▲
Core drilling metal up to 2 1/16" (50 mm) dia.			▲▲	▲▲	▲▲	▲▲	▲▲	▲▲
Core drilling metal up to 2 9/16" (65 mm) dia.					▲▲	▲▲	▲▲	▲▲
Core drilling metal up to 3 1/8" (80 mm) dia.							▲▲	▲▲
Twist drilling with drill chuck		▲▲	▲▲	▲▲	▲▲	▲▲	▲▲	▲▲
Twist drilling with MT mount				▲▲	▲▲	▲▲	▲▲	▲▲
Tapping				▲▲			▲▲	▲▲
Countersinking			▲	▲▲	▲▲	▲▲	▲▲	▲▲
Reaming			▲	▲▲	▲▲	▲▲	▲▲	▲▲
Fully automatic drilling								▲▲
One-handed operation				▲▲			▲▲	▲▲
Overhead work		▲▲	▲▲	▲▲	▲	▲	▲	▲
On site work		▲▲	▲▲	▲▲	▲	▲	▲	▲
Workshop jobs		▲▲	▲▲	▲▲	▲▲	▲▲	▲▲	▲▲
Carbide core bit dia.	in (mm)	7/16" – 1 1/4" (12 – 50)	7/16" – 2 1/16" (12 – 50)	7/16" – 2 1/16" (12 – 50)	7/16" – 2 9/16" (12 – 65)	7/16" – 2 9/16" (12 – 65)	7/6" – 3 1/8" (12 – 80)	7/6" – 3 1/8" (12 – 80)
Core drill max. drilling depth	in (mm)	2" (50)	2" (50)	2" (50)	2" (50)	2" (50)	2" (50)	2" (50)
Twist drill max. dia.	in (mm)	7/16" (13)	5/8" (16)	7/8" (23)	7/8" (23)	7/8" (23)	1 1/4" (32)	1 1/4" (32)
Tapping max.dia.	in (M)			5/8" (16)			1 1/8" (27)	1 1/8" (27)
Countersinking max. dia.	in (mm)		1 3/16" (31)	2" (50)	2" (50)	2" (50)	2" (50)	2" (50)
Reaming max. dia.	in (mm)		5/8" (16)	7/8" (23)	7/8" (23)	7/8" (23)	1 3/16" (15)	1 3/16" (15)
Power consumption	Watts	700	1 200	1 200	1 460	1 460		
Output	Watts	450	680	640	650	650		
Input current	A						15	15
No load speed	rpm (1/min)	550						
Load speed								
1st gear	rpm (1/min)	440		130 – 260			110 – 180	110 – 180
2nd gear	rpm (1/min)			260 – 520			160 – 260	160 – 260
3rd gear	rpm (1/min)						350 – 580	350 – 580
1st gear – slow/fast	rpm (1/min)		160/260		125/250	125/250		
2nd gear – slow/fast	rpm (1/min)		320/520		255/510	255/510		
Core bit holder		QuickIN	QuickIN	QuickIN	QuickIN	QuickIN	QuickIN QuickIN MAX	QuickIN QuickIN MAX
Tool holder	MT			3	3	3	3	3
Stroke	in (mm)	5 5/16" (135)	5 5/16" (135)	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 3/16" (310)	12 3/16" (310)	13" (330)	13" (330)	11 3/16" (285)	11 3/16" (285)
Drill stand fine adjustment	in (mm)					+/– 4/16" (6)	+/– 5/32" (4,25)	+/– 5/32" (4,25)
Drill stand angular adjustment						+/– 8°	+/– 11°	+/– 11°
Magnet holding force	lbs (N)	1,980 (9 000)	2,420 (11 000)	2,420 (11 000)	2,700 (12 000)	2,700 (12 000)	4,050 (18 000)	4,050 (18 000)
Electronic magnet holding force increase		●	●	●			●	●
Magnet holding force gauge							●	●
Magnetic base dimensions	in (mm)	6 5/16" × 3 1/8" (160 × 80)	7 7/8" × 3 9/16" (180 × 90)	7 7/8" × 3 9/16" (180 × 90)	7 1/4" × 3 10/16" (184 × 92)	7 1/4 × 3 10/16 (184 × 92)	10 11/16" × 3 9/16" (270 × 90)	10 11/16" × 3 9/16" (270 × 90)
Cable with plug	ft (m)	13' (4)	13' (4)	13' (4)	13' (4)	13' (4)	13' (4)	13' (4)
Weight according to EPTA	lbs (kg)	23.1 (10,5)	28.2 (12,8)	31.3 (14,2)	41.9 (19,0)	45.4 (20,6)	55.9 (25,4)	58.2 (26,4)
Automatic drill feed								●
Forward and reverse rotation				●			●	●
Electronic speed reduction				●			●	●
Memory Function				●			●	●
Speed-controlled tacho electronics			●	●	●	●	●	●
Torque slip clutch							●	●

▲ suitable ▲▲ very well suited ● included

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