

► METAL

**FEIN. Unverwüsthche  
Elektrowerkzeuge.**



**The new FEIN cordless drill/drivers. Unbeatable in metal.**

**Noticeably improved drilling, tapping and screwdriving applications.**





## Real metalworkers can feel the difference.

The new FEIN cordless drill/drivers impress from the minute you start working with them. After all, it's results that count. Professionals in the metal sector can feel the difference instantly. Experience it for yourself today!

The extremely powerful range of FEIN cordless drill/drivers offer real metalworkers maximum quality, a very long service life and uncompromising output they can rely on day after day.



### Metalworking tools are a passion for FEIN.

The range of FEIN cordless drill/drivers continues a long tradition of perfect solutions for metal. FEIN has packed all its expertise and experience into the cordless drill/drivers and cordless impact wrench/drivers, because users are the focus of product development at FEIN. This gives real professionals in metalworking professional power

tools, which guarantee outstanding quality, uncompromising output and absolute reliability. In a nutshell: MADE FOR METAL. The FEIN cordless drill/drivers are specially developed for metalworking: from drilling, tapping and screwdriving applications to securing and loosening metric screw connections.



## Tailored performance – perfectly matched to all your needs.

In order to provide the perfect tool for all your needs, the FEIN cordless drill/drivers and cordless impact wrench/drivers are available in various voltage classes.

### FEIN cordless drill/drivers with 12 and 18V.

The perfect interplay of battery, electronics and motor make the FEIN cordless drill/drivers extremely powerful. The outstanding service lives of the brushless FEIN PowerDrive motors are impressive. 30% more efficiency preserves the battery and ensures a longer battery life. High speeds with optimum work progress enable rapid and precise drilling in metal. The QuickIN accessories allow users to switch quickly between the various applications.



Brushless FEIN PowerDrive motors



Optimum cutting speeds



Quick change between applications



Can be operated with all FEIN Li-Ion batteries



Long service life



## FEIN cordless impact wrench/drivers with 12 and 18 V.

The FEIN cordless impact wrench/drivers are ideally suited to securing and loosening metric screws. The high efficiency of the brushless FEIN PowerDrive motors provides torque of up to 290 Nm. Using the electronic torque adjustment, the torque can be adjusted in 6 stages to the tightening torque to match the screw size. 10% more torque in reverse running allows tightened screws to be released with ease even after mechanical loading or when subject to corrosion.



Brushless FEIN PowerDrive motors



Torque adjustable to screw size



Extremely tight screws can be released with ease



Can be operated with all FEIN Li-Ion batteries



Long service life





# FEIN cordless drill/drivers: Noticeably improved drilling, tapping and screwdriving applications in metal.

The optimal cutting speed for every hole diameter. 4 speed settings offer the correct speed for the hole diameter and material every time. And the right speed for the desired hole diameter is determined in just two steps.



## 1. Determine the cutting speed based on material and drill.

Material	Drill	
	<b>HSS drill</b> The standard drill for metalworking. Wear- and deformation-resistant up to around 600°C. 	<b>HSS TiN coated</b> Less friction and greater hardness. The drills have a longer service life and higher cutting speed. 
<b>Construction steel</b> Strength < 500 N/mm <sup>2</sup>	30-40 m/min	40-50 m/min
<b>Stainless steel</b> Strength < 800 N/mm <sup>2</sup>	7-12 m/min	10-15 m/min

## 2. Determine the tool speed based on cutting speed and hole diameter.

### 4-speed drill/driver (ASCM 18QM)

Hole diameter	Cutting speed (m/min)			
	15	30	40	50
mm				
2	Speed 3	Speed 4	Speed 4	Speed 4
4	Speed 2	Speed 3	Speed 4	Speed 4
6	Speed 2	Speed 3	Speed 3	Speed 3
8	Speed 1	Speed 2	Speed 3	Speed 3
10	Speed 1	Speed 2	Speed 2	Speed 3
12	Speed 1	Speed 2	Speed 2	Speed 2

### 4-speed drill/driver (ASCM 12QC)

Hole diameter	Cutting speed (m/min)			
	15	30	40	50
mm				
2	Speed 4	Speed 4	Speed 4	Speed 4
4	Speed 3	Speed 4	Speed 4	Speed 4
6	Speed 2	Speed 3	Speed 4	Speed 4
8	Speed 1	Speed 3	Speed 3	Speed 3
10	-	-	-	-
12	-	-	-	-

## FEIN MultiVolt interface



FEIN cordless drill/drivers with this interface can be operated with all FEIN Li-Ion batteries between 12 and 18V. The tools achieve maximum performance with 18 V. When using batteries with a lower voltage, the performance of the cordless tool changes accordingly.

### FEIN tools with MultiVolt interface:

- ▶ ABS 18QC cordless drill/driver
- ▶ ASCD 18-300 W2/ 18-200 W4 cordless impact wrench/driver
- ▶ ABLK 18 1.6E cordless nibbler
- ▶ ABLs 18 1.6E cordless sheet metal shears
- ▶ ABSS 18 1.6E cordless throatless shears
- ▶ Cordless SUPERCUT AFSC 18 QSL

## Optimum cutting speeds

thanks to 4-speed gearbox.

## Brushless FEIN PowerDrive motor

- ▶ Complete dust-proof protection.
- ▶ 30% higher efficiency.
- ▶ Very long service life.
- ▶ 2200 screw connections with one battery charge (5 Ah).

## Change quickly between drilling, tapping and screwdriving applications

QuickIN (MAX) interface for accessories.

## Drill large diameters

- ▶ 12 mm twist drilling.
- ▶ M12 tapping.
- ▶ 25 mm carbide hole sawing.

## User protection

should the tool suddenly block thanks to the electronic torque shut-off.

## Drill slip is minimised

thanks to carbide-tipped clamping jaws.

## Long service life

FEIN SafetyCell Technology protects the battery and tool from overloading, overheating and total discharge.



## Extensive QuickIN accessories.

The FEIN QuickIN accessories permit a rapid, tool-free change between drilling, tapping and screwdriving applications in metal. The attachments are optimally designed for the relevant task and offer more reliability and precision than conventional solutions.



### QuickIN tapping adapter

With 2 collets for shank diameter of 4.5 mm and 6 mm for thread sizes M4/M5/M6/M8. Power is transmitted via the square of the thread drill. This prevents the tool from slipping.

Order no. 6 42 03 003 01 0



### 120 Nm QuickIN drill chuck

Solid metal drill chuck with carbide-tipped clamping jaws and high clamping forces. Optimum for all hole diameters.

Order no. 6 32 08 005 01 0



### QuickIN 1/4 in bit holder

Bit holder with convenient one-handed operation and powerful neodymium magnet. Use of this tool makes the screwdriver lighter and shorter.

Order no. 6 05 10 222 01 0



### 60 Nm QuickIN drill chuck

Small solid metal drill chuck with high concentricity. Optimum for hole diameters up to 8 mm.

Order no. 6 32 08 002 01 0



### QuickIN 1/2 in socket adapter

Socket adapter to hold sockets on 1/2 in square.

Order no. 6 42 03 002 01 0



Accessories compatible with all FEIN cordless drill/drivers with a QuickIN (MAX) interface



### FEIN ALED 12 - 18 V cordless LED lamp

Compact and durable cordless LED lamp with swivel-mounted lamp head. Compatible with all 12 - 18 V FEIN Li-Ion batteries, includes hook for hanging the lamp. Extremely lightweight at 130 g and very bright at 900 lux. Colour temperature is the equivalent of daylight. The brightness can be set to 2 levels.

Order no. 9 26 04 200 02 0







## Technical data

Model	ASCM 18QM	ABS 18QC	ASCM 12QC	ABSU 12C	ABSU 12W4C
Battery voltage (capacity)	18V (5 Ah)	18V (2.5 Ah)	12V (2.5 Ah)	12V (2.5 Ah)	12V (2.5 Ah)
Motor	brushless	brushless	brushless	2-pole DC	2-pole DC
Gearbox	4-speed	2-speed	4-speed	2-speed	2-speed
Accessory interface	QuickIN MAX	QuickIN	QuickIN	–	–
Battery interface	18V	MultiVolt	12V	12V	12V
Idling speed	per min 400/800/1950/3850	450/2000	400 / 700 / 1400 / 2500	400 / 1300	400 / 1300
Max. torque (hard/soft)	Nm 90/45	60/32	40/20	20/14	20/14
Torque levels	15 + 1	22 + 1	20 + 1	17 + 1	17 + 1
Max. hole diameter in steel	mm 25 mm	13 mm	13 mm	10 mm	–
Tapping	M12	M10	M8	M6	–
Battery pack service life*	2200 (5.0 Ah)	750 (2.5 Ah)	400 (2.5 Ah)	350 (2.5 Ah)	350 (2.5 Ah)
Weight with battery	kg 2.2	1.7	1.3	1.2	1.1
<b>Order no. for SELECT</b>	<b>7 116 11 64 00 0</b>	<b>7 113 22 64 00 0</b>	<b>7 116 10 64 00 0</b>	<b>7 113 20 64 00 0</b>	<b>7 113 21 64 00 0</b>
<b>Order no. for basic set</b>	<b>7 116 11 61 00 0</b>	<b>7 113 22 62 00 0</b>	<b>7 116 10 61 00 0</b>	<b>7 113 20 61 00 0</b>	<b>7 113 21 61 00 0</b>
<b>Order no. for professional set</b>	<b>7 116 11 63 00 0</b>	<b>7 113 22 63 00 0</b>	<b>7 116 10 62 00 0</b>	–	–

\*5 x 40 mm in timber

## Various equipment variants

### SELECT



Tool without battery or charger in plastic tool case

### Basic set



Tool with 2 batteries and rapid charger in plastic tool case

### Professional set



As with the basic set plus extra accessories in plastic tool case

## FEIN cordless impact wrench/drivers: controllable raw power with adjustable torque.

Depending on the screw size, the torque can be adjusted to the desired tightening torque. Thanks to the innovative FEIN MultiVolt interface, the 18 V impact wrench/drivers can be operated with all FEIN Li-Ion batteries of different voltages.



### Optimum torques to suit screw size

thanks to electronic 6-level torque setting.

### Tightening and loosening screws up to M18

Torque of 290 Nm.

### Extremely tight screws can be released with ease

thanks to 10% more torque in  
reverse running.

### Brushless FEIN PowerDrive motor

- ▶ 30 % higher efficiency.
- ▶ Long service life.
- ▶ 500 screw connections with one battery charge (5 Ah).

### Long service life

FEIN SafetyCell Technology  
protects the battery and tool from  
overloading, overheating and total  
discharge.

### Drill/driver can be operated with all FEIN Li-Ion batteries

FEIN MultiVolt interface (12 – 18 V).

## Adjustable torques.

The adjustable torques deliver a noticeable improvement in impact wrench/driver control. The tightening torques for metric screws are specified in various DIN standards and using structural calculations. With the FEIN cordless impact wrench/drivers, the maximum torque can be preset in six levels. The values stated apply to the hard torque-rate joint and are accurate to a tolerance of +/- 10%. This improves control of the screwdriving application and protects smaller torque-rate joints from damage.

### Recommendation for torque setting depending on screw size

#### ASCD 18-300 W2 impact wrench/driver

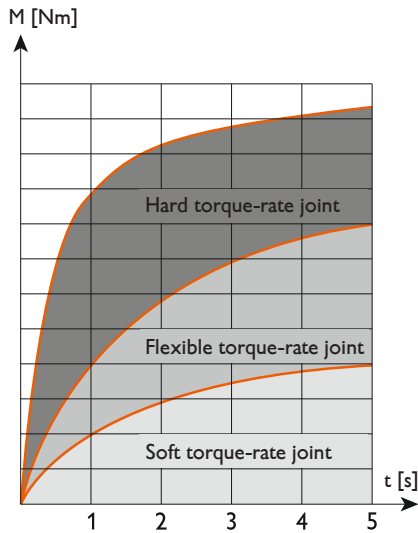
Level	Nm	Screw
6	max. 290 Nm	≥ M18 (8.8)
5	max. 215 Nm	≥ M16 (8.8)
4	max. 140 Nm	≥ M14 (8.8)
3	max. 85 Nm	≥ M12 (8.8)
2	max. 50 Nm	≥ M10 (8.8)
1	max. 25 Nm	≥ M8 (8.8)

#### ASCD 12-150 W8C impact wrench/driver

Level	Nm	Screw
6	max. 135 Nm	≥ M14 (8.8)
5	max. 85 Nm	≥ M12 (8.8)
4	max. 50 Nm	≥ M10 (8.8)
3	max. 25 Nm	≥ M8 (8.8)
2	max. 10 Nm	≥ M6 (8.8)
1	max. 6 Nm	≥ M5 (8.8)



## Torque-rate joints and effect on maximum torque



## Effects on the torque.

If the maximum torque is not reached, this is usually due to external effects. The torque-rate joint itself has the greatest effect. The maximum torque is only ever reached in the hard torque-rate joint. Using spring washers or cup springs and screwdriving applications in timber reduces the maximum achievable torque. Alongside the torque-rate joint, the effect of torsion also impacts on the torque.

### For example:

- ▶ Larger screw diameters transfer higher torques.
- ▶ Longer screws transfer less torque.
- ▶ Screw strength class – the lower the class, the less torque is transferred.

### Hard torque-rate joint

#### Feature:

The torque increases sharply at the end of the screwdriving operation.

#### Example:

- ▶ Metric screws and nuts



### Flexible torque-rate joint

#### Feature:

A flexible intermediate layer prevents the torque from increasing continually just before the head of the screw makes contact.

#### Example:

- ▶ Use of spring washers and cup springs
- ▶ Fitting rims



### Soft torque-rate joint

#### Feature:

The torque increases continuously during the screwdriving operation.

#### Example:

- ▶ Screwdriving application with dowels



## Loosening of extremely tight screws.

Mechanical loading or corrosion may result in the loosening torques being higher than the tightening torques.

### For example:

- ▶ Wheel nuts affected by corrosion.
- ▶ Retaining jaws following shaping.

The new FEIN cordless impact wrench/drivers deliver 10% more torque in reverse running. This means that once tightened, screws can also be reliably released again.



### Technical data

Model	ASCD 18-300 W2	ASCD 18-200 W4	ASCD 12-150 W8C	ASCD 12-150 W4C	ASCD 12-100 W4C	
Battery voltage (capacity)	18V (5 Ah)	18V (5 Ah)	12V (2.5 Ah)	12V (2.5 Ah)	12V (2.5 Ah)	
Motor	brushless	brushless	brushless	brushless	2-pole DC	
Idling speed	rpm	0–1700	0–1500	0–1800	0–1700	0–2700
Number of blows	per min.	0–3400	0–3000	0–3600	0–3400	0–3450
Battery interface	MultiVolt	MultiVolt	12V	12V	12V	
Maximum torque	Nm	290	210	135	135	100
Torque levels		6	6	6	6	1
Tool mounting	1/2 in square head	1/4 in hexagon socket	3/8 in square head	1/4 in hexagon socket	1/4 in hexagon socket	
Max. metric screw	M18 (8.8)	-	M14 (8.8)	-	-	
Battery pack service life*	500 (5 Ah)	500 (5 Ah)	350 (2.5 Ah)	350 (2.5 Ah)	200 (2.5 Ah)	
Weight with battery	kg	1.7	1.7	1.1	1.1	1.1
<b>Order no. for SELECT</b>	<b>7 115 06 64 00 0</b>	<b>7 115 07 64 00 0</b>	<b>7 115 04 64 00 0</b>	<b>7 115 05 64 00 0</b>	<b>7 115 03 64 00 0</b>	
<b>Order no. for basic set</b>	<b>7 115 06 61 00 0</b>	<b>7 115 07 61 00 0</b>	<b>7 115 04 61 00 0</b>	<b>7 115 05 61 00 0</b>	<b>7 115 03 61 00 0</b>	

\*with reference to max. metric screw

### Various equipment variants

#### SELECT



Tool without battery or charger in plastic tool case

#### Basic set



Tool with 2 batteries and rapid charger in plastic tool case

# Simple: the new FEIN cordless pricing system. Individual or part of a set – the price is always the same.

You can now flexibly add to your range of FEIN batteries and cordless products at any time. It doesn't matter whether tools or batteries are bought individually or as part of a set, the total price is always the same. So the new FEIN pricing system pays off with its complete cost transparency and absolute freedom of choice – and you don't pay a higher price even if you buy later on.

## The FEIN cordless pricing system for tools and batteries with 18 V.



The diagram illustrates the pricing system for 18V tools and batteries. It shows three components in a row, separated by plus and equals signs:

- ASCM 18QM SELECT:** An image of the tool and its carrying case.
- Starter set:** An image of two 18V/5Ah batteries and an ALG 50 charger. Below the batteries and charger are labels: "18V/5Ah\*", "18V/5Ah\*", and "ALG 50".
- Basic set:** An image of the ASCM 18QM SELECT tool, one 18V/5Ah battery, and the ALG 50 charger, all in their carrying case.

Below each image is a label in an orange box: "ASCM 18QM SELECT", "Starter set", and "Basic set".

\* Also available with 18V/2.5Ah.

## Same pricing system, different performance data – for tools and batteries with 12 V.



The diagram illustrates the pricing system for 12V tools and batteries. It shows three components in a row, separated by plus and equals signs:

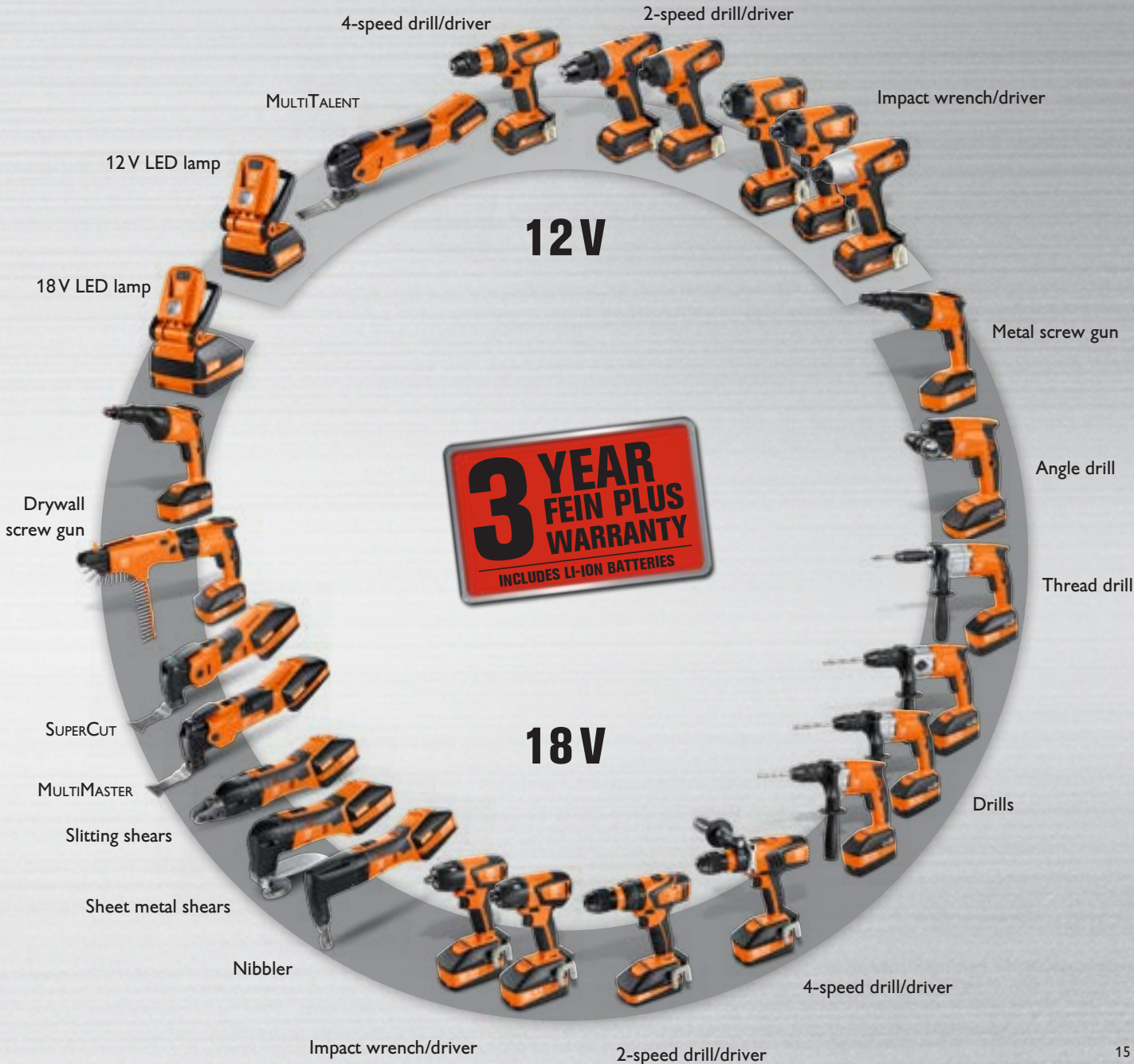
- ASCM 12Q SELECT:** An image of the tool and its carrying case.
- Starter set:** An image of two 12V/2.5Ah batteries and an ALG 50 charger. Below the batteries and charger are labels: "12V / 2.5 Ah", "12V / 2.5 Ah", and "ALG 50".
- Basic set:** An image of the ASCM 12Q SELECT tool, one 12V/2.5Ah battery, and the ALG 50 charger, all in their carrying case.

Below each image is a label in an orange box: "ASCM 12Q SELECT", "Starter set", and "Basic set".

# Brilliant all round: FEIN's range of batteries and cordless products – unique, flexible and simple.

FEIN's range of batteries and cordless products for metal processing and oscillating multi-tools includes powerful tools in 12 V and 18 V. FEIN provides the 3-year FEIN PLUS warranty for all devices – including Li-Ion batteries and chargers.

Simply register the product within 6 weeks of purchase at [www.fein.com/warranty](http://www.fein.com/warranty).



**FEIN. Unverwüstliche  
Elektrowerkzeuge.**



## **FEIN – the specialist for durable power tools.**

FEIN is the specialist for professional and extremely reliable power tools and special application solutions in the metal, timber and composite materials sectors. As the inventor of the electric hand drill, FEIN has been developing innovative and unbeatably efficient solutions for everyday use which can also stand up to the toughest continuous use in industry and trade for over 150 years.



**Short registration process – extended warranty:  
the 3-year FEIN PLUS warranty.**

We offer the 3-year FEIN PLUS warranty for all your FEIN power tools. A new FEIN product simply has to be registered at [www.fein.com/warranty](http://www.fein.com/warranty) within 6 weeks of purchase.

**Test them today and feel the difference for yourself.**

If you want to discover more about the FEIN cordless drill/drivers or want to test one for yourself - please visit [www.fein.com/drills](http://www.fein.com/drills).

**Your specialist dealer will be happy to help:**



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