

► METAL

FEIN. Unverwüstliche  
Elektrowerkzeuge.



## FEIN cordless drill/drivers. Unbeatable in metal.

Better drilling, tapping, screwdriving and fastening that you can feel.









## Metalworkers can tell the difference.

FEIN cordless drill/drivers impress from the first moment you work with them. What really counts is the results. Metalworking professionals can tell the difference immediately. Try it out for yourself today!

The extremely powerful FEIN cordless drill/driver product range offers those who have a passion for metal work the highest quality, durability and uncompromising performance that proves itself in your work day after day.



### Tools for metalworking are a passion for FEIN.

The FEIN product line of cordless drill/drivers continues the long tradition of perfected solutions for metal. FEIN has invested its entire expertise and experience into the cordless drill/drivers and cordless impact wrenches. At FEIN, users are in the center of product development. Real metalworking professionals receive professional

power tools that guarantee the highest quality, uncompromising performance and reliability, in short: **MADE FOR METAL**. The FEIN cordless drill/drivers are specially developed for metalworking: from drilling, tapping and screwdriving to fastening and unfastening threaded connections.





## Tailored performance – perfectly matched to every need.

To offer the perfect tool for every need, the FEIN cordless drill/drivers and cordless impact wrenches are available in different voltage classes.

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

The battery, electronics and motor interact perfectly, making FEIN cordless drill/drivers extremely powerful. The brushless FEIN PowerDrive motors feature an outstanding long service life. The 30% higher efficiency preserves the battery and ensures longer battery life. High speeds with optimum cutting speeds enable fast and precise drilling in metal. Switch between the various applications quickly with the QuickIN accessories.



Brushless FEIN PowerDrive motors



Perfect working speeds



Fast change between applications



Can be operated with FEIN li-ion batteries



Long service life





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

FEIN cordless impact wrenches are ideally suited for fastening and unscrewing screws. The high efficiency of the brushless FEIN PowerDrive motors provides torque up to 2,566 in/lb (290 Nm). The electronic torque adjustment enables the torque to be adjusted to the desired tightening torque in 6 steps per screw size. Tightened screws can be unscrewed easily, even after mechanical loading or the effects of corrosion, thanks to the 10% higher reverse torque.



Brushless FEIN PowerDrive motors



Adjustable torque per screw size



Unscrew extremely tight screws



Can be operated with all FEIN li-ion batteries



Long service life





# FEIN cordless drill/drivers: Significantly better drilling, tapping, screwdriving and fastening in metal.

The optimal cutting speed for each drilling diameter. 4 gears always provide the correct speed for the hole diameter and material. It takes just two steps to determine the correct speed for the desired drilling diameter.



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

Material	Drill	
	<b>HSS drill</b> The standard drill for metalworking. Wear-resistant and dimensionally stable to approx. 600°C. 	<b>TiN coated HSS</b> Lower friction and greater hardness. The drills have a longer service life and higher cutting speed. 
<b>Structural 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 speed based on the cutting speed and drilling diameter.

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

Hole dia.	Cutting speed (m/min)			
	15	30	40	50
in				
5/64	3rd gear	4th gear	4th gear	4th gear
5/32	2nd gear	3rd gear	4th gear	4th gear
1/4	2nd gear	3rd gear	3rd gear	3rd gear
5/16	1st gear	2nd gear	3rd gear	3rd gear
3/8	1st gear	2nd gear	2nd gear	3rd gear
1/2	1st gear	2nd gear	2nd gear	2nd gear

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

Hole dia.	Cutting speed (m/min)			
	15	30	40	50
in				
5/64	4th gear	4th gear	4th gear	4th gear
5/32	3rd gear	4th gear	4th gear	4th gear
1/4	2nd gear	3rd gear	4th gear	4th gear
5/16	1st gear	3rd gear	3rd gear	3rd gear
-	-	-	-	-
-	-	-	-	-

## FEIN MultiVolt interface



FEIN cordless drill/drivers with this interface can be operated with all FEIN li-ion batteries from 12 to 18V. The tools reach maximum output with 18V. When using batteries with lower output, the output is adapted to the cordless tool.

### FEIN 18 V tools with MultiVolt interface:

- ▶ Cordless (impact) drills/drivers
- ▶ Cordless impact wrench
- ▶ Cordless angle grinder
- ▶ Cordless die grinder
- ▶ Cordless nibbler
- ▶ Cordless sheet metal shears
- ▶ Cordless sheet metal slitting shears
- ▶ Cordless SUPERCUT



## Perfect working speeds

Thanks to 4-speed gearbox.

## Brushless FEIN PowerDrive motor

- ▶ Completely dustproof.
- ▶ 30% more efficient.
- ▶ Maximum durability.
- ▶ 2,200 screw connections with one battery charge (5 Ah).

## Quick changeover between drilling, tapping, screwdriving and fastening

QuickIN (MAX) interface for accessories.

## Protection of the user

In case of sudden blockage of the tool through electronic torque controlled shut-off.

## Drilling large diameters

- ▶ 1/2 in (12 mm) twist drilling.
- ▶ 1/2 in (M12) tapping.
- ▶ 1 in (25 mm) carbide hole saws.



## Drill bit slipping is minimized

With carbide-equipped clamping jaws.

## Long service life

Protection of battery and tool from overload, overheating and deep discharge with FEIN SafetyCell Technology.





## Extensive QuickIN accessories.

The FEIN QuickIN accessories enable fast, tool-free changeover between drilling, tapping, screwdriving and fastening in metal. The attachments are matched optimally to the respective task and work more reliably and practically than conventional solutions.



**NEW**



### Hole saw adaptor

For drilling large holes in metal. Suitable for all FEIN carbide hole saws and carbide core bits with QuickIN PLUS fitting. Perfect for diameters up to 40 mm. Scope of delivery including pilot bit without hole saw.

Order No. 6 42 03 007 01 0

**NEW**



### SKE drill chuck

Automatically re-tightening flat-jaw drill chuck made of solid metal from Röhmm. Prevents spinning of twist drills and tappers. Capacity 1.5-13 mm. Precise work thanks to high concentricity accuracy of up to 0.35 mm.

Order No. 6 42 03 006 01 0



### Tap adaptor

With 2 collets for 4.5 and 6 mm shaft diameters for cutting M4 / M5 / M6 / M8 threads. Reliable grip of the square end of the tap prevents slipping.

Order No. 6 42 03 003 01 0



### Drill chuck 1062 in/lbs (120 Nm)

Solid metal drill chuck, made by Röhmm, with carbide jaws and high clamping force. Maximum torque 1062 in/lbs (120 Nm). Optimal for all drill diameters. Capacity 1.5-13 mm.

Order No. 6 32 08 005 01 0



### Bit holder 1/4 in

1/4 in hexagon socket bit holder with practical one-handed operation and powerful neodym magnet. Using the bit holder makes the drill/driver lighter and shorter.

Order No. 6 05 10 222 01 0



### Drill chuck 530 in/lbs (60 Nm)

Small, solid metal drill chuck, made by Röhmm, maximum torque 530 in/lbs (60 Nm). Optimal for drilling diameters up to 8 mm. Capacity 1.5-13 mm.

Order No. 6 32 08 002 01 0



### Socket adapter 1/2 in

Socket adapter for mounting impact sockets with 1/2 in square fitting.

Order No. 6 42 03 002 01 0







## Technical specifications

Model	ASCM 18QM	ABS 18QC	ASB 18QC	ASCM 12QC	ABSU 12C	ABSU 12W4C
						
Battery voltage (capacity)	18V	18V	18V	12V	12V	12V
Battery compatibility	Li-ion / High Power Li-ion*	Li-ion / High Power Li-ion*	Li-ion / High Power Li-ion*	Li-ion	Li-ion	Li-ion
Battery interface	18V	MultiVolt	MultiVolt	12V	12V	12V
Motor	Brushless	Brushless	Brushless	Brushless	2-pin DC	2-pin DC
Gearbox	4-speed	2-speed	2-speed	4-speed	2-speed	2-speed
Accessory interface	QuickIN MAX	QuickIN	QuickIN	QuickIN	-	-
No-load speed	rpm 400/800/ 1,950/3,850	450/2,000	450/2,000	rpm 400/700/ 1,400/2,500	400/1,300	400/1,300
Impacts	rpm -	-	7,360/32,000	-	-	-
Max. torque (hard/soft)	in/lbs (Nm) 796 / 398 (90/45)	530 / 283 (60/32)	530 / 283 (60/32)	354 / 177 (40/20)	177 / 124 (20/14)	177 / 124 (20/14)
Torque steps	15 + 1	22 + 1	22 + 1	20 + 1	17 + 1	17 + 1
Max. hole diameter in steel	in (mm) 1 (25)	1/2 (13)	1/2 (13)	1/2 (13)	3/8 (10)	-
Max. hole Ø in wood	in (mm) 2 (50)	2 (50)	2 (50)	1½ (40)	1¼ (30)	-
Max. hole Ø in stone	in (mm) -	-	½ (13)	-	-	-
Tapping	in 1/2	3/8	3/8	5/16	1/4	-
Tool life of battery pack*	2,200 (5.0Ah)	750 (2.5Ah)	750 (2.5 Ah)	400 (2.5 Ah)	350 (2.5 Ah)	350 (2.5 Ah)
Weight with battery	lbs (kg) 4.8 (2.2)	3.7 (1.7)	2.8 (1.3)	2.8 (1.3)	2.6 (1.2)	2.4 (1.1)
<b>Order No. SELECT</b>	<b>7 116 11 64 00 0</b>	<b>7 113 22 64 00 0</b>	<b>7 113 23 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. Basic Set</b>	<b>7 116 11 61 09 0</b>	<b>7 113 22 62 09 0</b>	<b>7 113 23 62 09 0</b>	<b>7 116 10 61 09 0</b>	<b>7 113 20 61 09 0</b>	<b>7 113 21 61 09 0</b>

\* 3/16 x 1-9/16 in (5x40mm) in wood

## Versions available

### SELECT



Tool without batteries and without charger in plastic carrying case

### Basic Set



Tool with 2 batteries, rapid charger with plastic carrying case



## FEIN cordless impact wrench: controllable power packs 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 cordless impact wrenches can be operated with all FEIN li-ion batteries of different voltages.



### Tightening and unscrewing screws up to size 3/4 in (M18)

2,566 in/lb (290 Nm) torque.

### Unscrew extremely tight screws

Through 10% higher reverse torque.

### Optimal torques per screw size

Through electronic torque adjustment in 6 levels.

### Brushless FEIN PowerDrive motor

- ▶ 30% more efficient.
- ▶ Long service life.
- ▶ Drives 500 screws with one battery charge (5 Ah).

### Long service life

Protection of battery and tool from overload, overheating and deep discharge with FEIN SafetyCell Technology.

### Can be use with all FEIN li-ion batteries

FEIN MultiVolt interface (12–18 V).



## Adjustable torques.

The adjustable torques make controlling the impact wrenches noticeably better. The tightening torques for metric screws are defined in DIN standards and through static calculations. With the FEIN cordless impact wrench, the maximum torque can be preset in six increments. The specified values apply for the hard torque-rate joint and are accurate to a tolerance of +/- 10%. This improves control of the screw application and smaller torque-rate joints are protected from damage.

### Recommended torque setting per screw height

#### Impact wrench ASCD 18-300 W2

Step	in/lbs	Screw
6	max. 2,566	≥M18 (8.8)
5	max. 1,903	≥M16 (8.8)
4	max. 1,239	≥M14 (8.8)
3	max. 752	≥M12 (8.8)
2	max. 442	≥M10 (8.8)
1	max. 221	≥M8 (8.8)

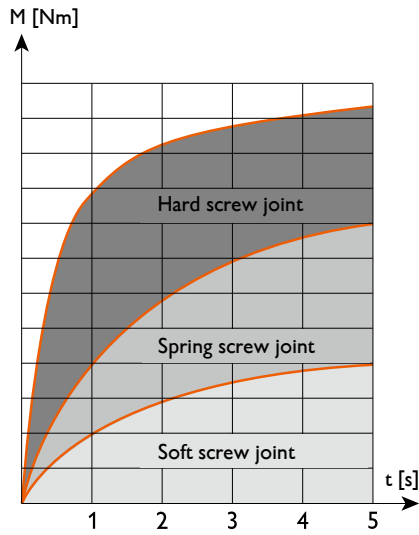
#### Impact wrench ASCD 12-150 W8C

Step	in/lbs	Screw
6	max. 1,195	≥M14 (8.8)
5	max. 752	≥M12 (8.8)
4	max. 442	≥M10 (8.8)
3	max. 221	≥M8 (8.8)
2	max. 88	≥M6 (8.8)
1	max. 33	≥M5 (8.8)





## Torque-rate joints and influence on the maximum torque



## Effect on the torque.

If the maximum torque is not reached, this is usually due to external influences. The greatest effect is the torque-rate joint by itself. The maximum torque is attained in the hard torque-rate joint only. The use of spring washers or disc springs and screw connections in wood reduces the maximum attainable torque. In addition to the torque-rate joint, the torsion effect also has an effect on the torque.

### For example:

- ▶ Larger screw diameters transmit higher torques.
- ▶ Longer screws transmit lower torques.
- ▶ Strength class of the screw – the lower the strength class, the less torque is transmitted.

### Hard screw joint

#### Characteristic:

The torque increases suddenly at the end of the screw application.

#### Example:

- ▶ Screws and nuts



### Spring screw joint

#### Characteristic:

An elastic intermediate layer prevents a steady increase in torque shortly before the head contact.

#### Example:

- ▶ Use of spring washers or disc springs
- ▶ Rim installation



### Soft screw joint

#### Characteristic:

The torque increases continuously during the screw application.

#### Example:

- ▶ Screw application with wallplug





## Unscrew extremely tight screws.

Mechanical load or corrosion can cause the unscrewing torques to be higher than the tightening torques.

### For example:

- ▶ Wheel nuts after the effects of corrosion.
- ▶ Holding jaws after the deformation process.

The FEIN cordless impact wrenches reach 10% higher torque in reverse. This ensures that you can always unscrew screws after they have been tightened.



### Technical specifications

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	18V	12V	12V	12V
Battery compatibility	Li-ion / High Power Li-ion*	Li-ion / High Power Li-ion*	Li-ion	Li-ion	Li-ion
Battery interface	MultiVolt	MultiVolt	12V	12V	12V
Motor	Brushless	Brushless	Brushless	Brushless	2-pin DC
No-load speed	rpm 0-1700	rpm 0-1500	rpm 0-1800	rpm 0-1700	rpm 0-2700
Impacts	rpm 0-3400	rpm 0-3000	rpm 0-3600	rpm 0-3400	rpm 0-3450
Max. torque	in/lbs (Nm) 2,566 (290)	in/lbs (Nm) 1,858 (210)	in/lbs (Nm) 1,195 (135)	in/lbs (Nm) 1,195 (135)	in/lbs (Nm) 885 (100)
Torque steps	6	6	6	6	1
Tool mount	1/2 in external square	1/4 in internal hexagon	3/8 in external square	1/4 in internal hexagon	1/4 in internal hexagon
Max. Ø for bolts	in 3/4	-	in 9/16	-	-
Max. Ø for wood screw	in 5/16 x 12	in 5/16 x 8	in 5/16 x 4	in 5/16 x 4	in 5/16 x 3
Tool life of battery pack*	500 (5 Ah)	500 (5 Ah)	350 (2.5 Ah)	350 (2.5 Ah)	200 (2.5 Ah)
Weight with battery	lbs (kg) 3.7 (1.7)	lbs (kg) 2.4 (1.1)	lbs (kg) 2.4 (1.1)	lbs (kg) 2.4 (1.1)	lbs (kg) 2.4 (1.1)
<b>Order No. 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. Basic Set</b>	<b>7 115 06 61 09 0</b>	<b>7 115 07 61 09 0</b>	<b>7 115 04 61 09 0</b>	<b>7 115 05 61 09 0</b>	<b>7 115 03 61 09 0</b>

\* in regard to the maximum screw

### Versions available

#### SELECT



Tool without batteries and without charger in plastic carrying case

#### Basic Set



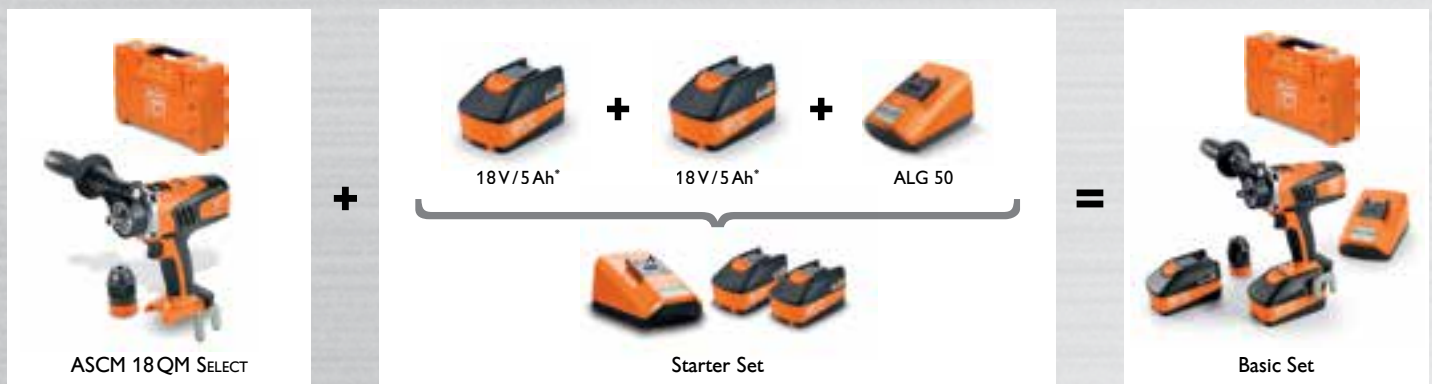
Tool with 2 batteries, rapid charger with plastic carrying case



# The FEIN cordless product price system couldn't be simpler. Always pay the same amount for products, whether you're purchasing them individually or in a set.

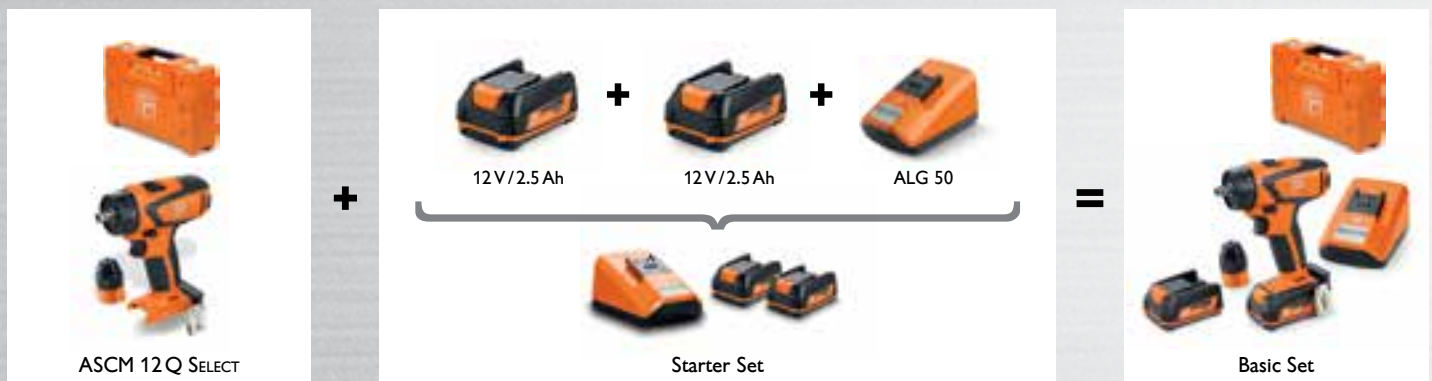
You can now add products from the FEIN cordless product line at any time as you see fit. No matter whether the tool and storage batteries are purchased individually or as a set, the total price remains the same. This means that the FEIN price system pays off with full cost transparency and absolute freedom of selection without any price disadvantages – even when making subsequent orders.

## The FEIN storage battery price system for 18V tools and batteries.



\*Also available with 18V/2.5Ah.

## The same price system, different performance data – for 12 V tools and storage batteries.

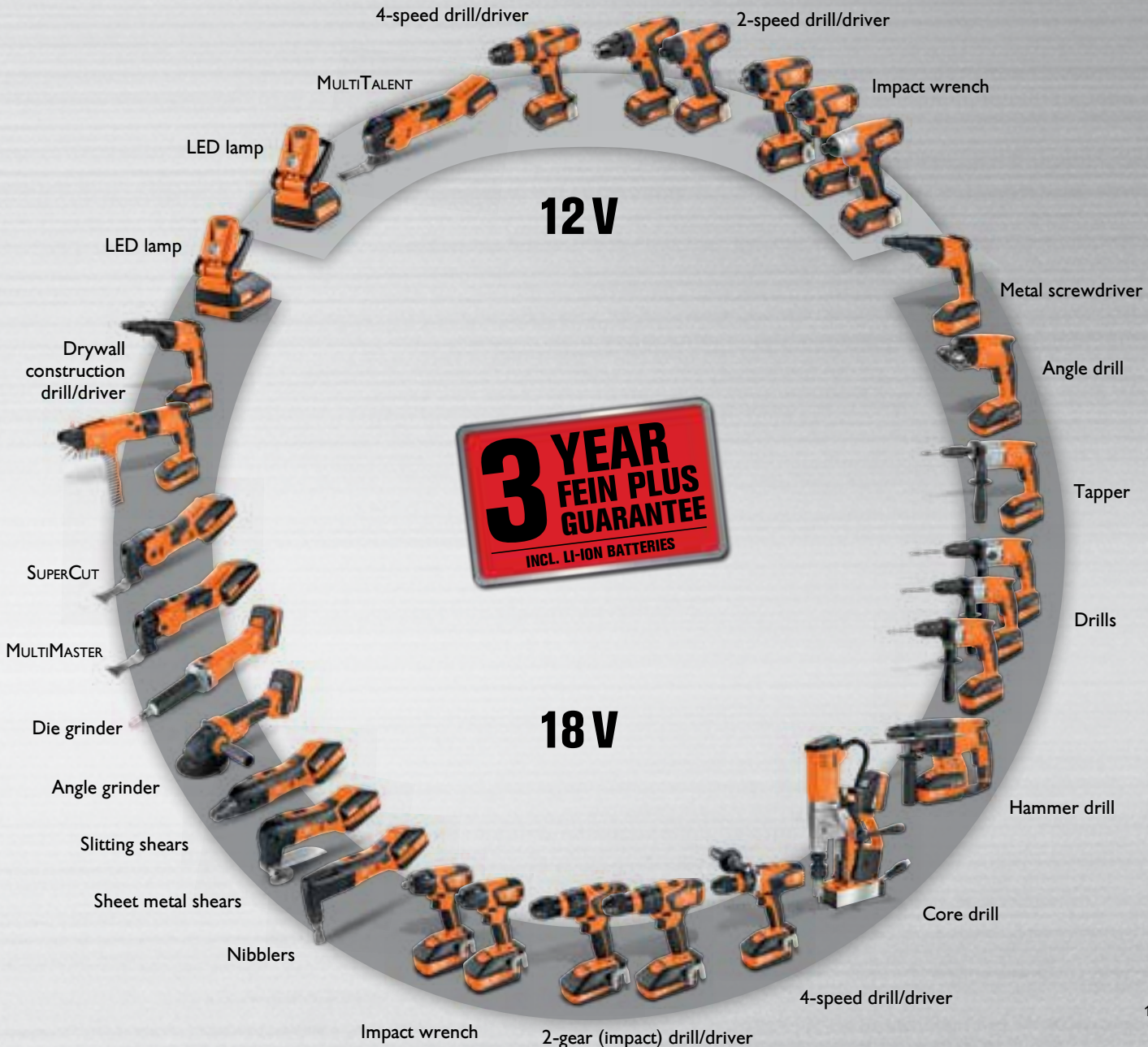




# The well-rounded FEIN cordless product line... one-of-a-kind, flexible and easy.

The FEIN cordless product range for metal processing and oscillating multi-tools offers high-performance tools in 12 and 18V varieties. FEIN grants the 3-year FEIN PLUS warranty to all of its devices, including li-ion storage batteries and chargers.

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





**FEIN. Unverwüstliche  
Elektrowerkzeuge.**



## **FEIN – Specialist for enduring power tools.**

FEIN is a specialist when it comes to professional and extremely reliable power tools and special application solutions using metal as well as wood/composite materials. As the inventor of the electric hand drill, FEIN has developed innovative and unbeatably efficient, professionally oriented solutions for over 150 years. In industrial and trade use, they prove themselves under the toughest continuous use.



**Quick registration – extensive warranty coverage:  
the 3-year FEIN PLUS warranty.**

We offer the FEIN PLUS 3-year guarantee on all FEIN power tools. To receive the benefits of the warranty, register your new FEIN power tool within 6 weeks of purchase at [www.fein.com/warranty](http://www.fein.com/warranty).

**Test now and experience the difference for yourself.**

If you would like to learn more about the FEIN cordless drill/drivers or test them for yourself on-site, you can find further information at [www.fein.com/drills](http://www.fein.com/drills).

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

