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User-oriented innovation:

Bosch revolutionizes the power tool

New performance dimension for pros, a world's first for DIY

March 21, 2019

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- ▶ Power Tools achieves sales of 4.6 billion euros in 2018
- ▶ Division launches in 2019 more than 100 new products only in Germany
- ▶ Bosch reinvents the Ixo, YouSeries revolutionizes the DIY world
- ▶ Cordless tools better than corded tools for the first time
- ▶ World's first revolutionizes work with professional angle grinders

Stuttgart/Leinfelden-Echterdingen – A new dimension of performance for tradespeople, a world's first for DIY enthusiasts: With Biturbo tools for professionals and the YouSeries for design-conscious users with highest needs Bosch is launching completely new cordless power tools. "Bosch Power Tools stands for innovation," said Henk Becker, President of the Robert Bosch Power Tools GmbH. "We are shaping the technical development of the industry. It is our claim to have the smallest and most powerful batteries on the market, to replace corded tools by cordless tools in the long-term. Our new Biturbo tools for tradespeople are advancing into a new dimension of performance. For the first time, cordless tools are better than corded tools." The new power tools from Bosch for professionals are optimized with ProCore18V batteries for maximum performance. This makes them more powerful than all previous cordless tools from Bosch. This is based on the optimum coordination of their brushless motor with electronics and battery so that the high-performance batteries can be used to their full potential. In addition, Biturbo tools boast further advantages such as a light weight and an interactive display: Professionals can therefore adjust the tools according to their needs.

With the new YouSeries Bosch launches power in a new format and revolutionizes the DIY world: These stylish cordless tools are defined by the slogan "small, compact, different". Also without prior knowledge the tools' operation is intuitive. The YouSeries consistently follows the trend towards miniaturization appealing not only conventional DIY enthusiasts. "Our YouSeries does not represent the typical power tool. These products adapt to the individual needs of design-con-

scious users,” explained Henk Becker. “With an initial line-up of three small everyday helpers, we are showing how Bosch creates technology invented for life with innovation.” The drill/driver, multi-sander and dry vacuum cleaner are up to 50 percent smaller, at least a third lighter and similar powerful as their siblings from the 12 volt product family. The YouSeries is surprisingly powerful, remarkably compact – and simply looks great.

Innovations drive business

“Innovations such as Biturbo and the YouSeries will also be the drivers of our business in the future,” said Henk Becker. The Bosch division achieved sales of 4.6 billion euros in the fiscal year 2018. Power Tools grew by two percent last year after adjusting for currency effects; in nominal terms, this equates to a reduction of two percent. Currency effects totaling around 200 million euros had a significant negative impact on sales figures. Henk Becker: “The economic situation is getting harsher. We are feeling the impact due to counteractive exchange rates and increasing volatility of the markets. However, we could improve our profitability last year – and we strive for further increase. Only this way we can invest in innovations also in future. This is how we ensure our success in the long-term.” This enables Bosch Power Tools to continue making upfront investments, fulfilling the future needs of users – for example with innovations such as Biturbo and YouSeries. Bosch will launch more than 100 new products in 2019, in Germany alone. In addition to innovative products and services, Bosch Power Tools also invests in the future workplace: For around 35 million euros a new office building was built at the Leinfelden location. “With the new office building we support the agile transformation at Bosch Power Tools in the best possible way. We created a working environment, enabling our cross-functional teams to work flexibly using agile methods,” said Henk Becker.

Expansion of the cordless segment for DIY enthusiasts

Bosch Power Tools is consistently expanding its cordless segment for both DIY enthusiasts and professionals. The focus is and will remain on battery systems with 18 volt. Bosch guarantees compatibility with all existing and future power tools within the same voltage class – both in systems for professionals and systems for DIY enthusiasts. This enables users to do without batteries and chargers that they do not need – saving money at the same time. New in the “Power for All” range for DIY enthusiasts is, for example, the AdvancedRecip 18 reciprocating saw. It offers DIY enthusiasts 40 percent less vibration than the previous model – and as much as 60 percent less than comparable competitor models.

Ixo: Bosch makes the world's most popular power tool even better

"We are particularly proud of our Ixo, the world's most popular cordless tool: Around 18 million tools have been bought to date," said Henk Becker. Bosch now reinvents the Ixo underlining once more the uniqueness of the cordless screwdriver. Henk Becker: "Thanks to its speed control feature the Ixo is easier to operate than ever before and with its new design a real eye-catcher".

World's first revolutionizes work with professional angle grinders

Continuous further development with added value for the user – this is what Bosch proves with another world's first, the easiest accessory-change system for angle grinders. "The tool mount on angle grinders wasn't changed for 80 years – we have revolutionized it with X-Lock," said Henk Becker. Instead of following several steps which require a great deal of effort and parts that can get lost, such as tensioning nuts, flanges and keys, you can now change your accessories in five seconds – up to five times faster – and much more easily: Position the wheel in the X-Lock mount, click it in – and you're good to go! Changing angle grinder accessories has never been so easy. "We are focusing on strong partners to achieve rapid market penetration: We already won more than ten partners for our X-Lock system. And we are in talks with other manufacturers." The aim is to create a new standard which makes work easier for professionals and increases their productivity. Bosch has already set a number of milestones in quick-change systems, for example with the SDS plus and SDS max for rotary hammers.

Connectivity with added value

Also increasing connectivity offers large potential for further growth: "We are turning conventional power tools into intelligent power tools to offer users an even higher level of comfort and to increase their productivity," said Henk Becker. The latest examples are connected Biturbo tools, such as the cordless hand-held circular saw: Users can adjust the tool according to their needs via the user interface and connectivity functions. For example, they can adjust the speed or extend the runtime by up to 30 percent using the "Eco Mode". Henk Becker: "We are convinced that connectivity can increase the productivity of a company as well as each individual tradesperson. Our goal is to connect all of Bosch's power tools in coming years in order to fulfill our users' requirements even better – and to launch further services."

Growing significance of services

These services include user-friendly apps such as the new Measuring App. This helps professionals and DIY enthusiasts to record measured values more easily, document them more clearly, process data faster and, in doing so, save time, money and reduce stress. DIY made easier and more versatile than ever before – all thanks to the new Bosch DIY & Garden App. Inspiration, information, sup-

port when purchasing and using power tools, sharing on social media – the app is simple and intuitive and accompanies the user from the idea of which project he would like to realize right through to the result, ready to be presented online. “Our range goes way beyond the classic power tool – we want to be more than a tool manufacturer: We want to be a reliable companion always supporting DIY enthusiasts, inspiring them, helping them to create exciting projects and imparting knowledge in a simple and comprehensible way,” explained Henk Becker.

Growth segment emerging markets

Bosch Power Tools continues to see great potential in emerging markets such as Africa. “We have developed a specific product range for these markets – products that are robust, affordable and easy to maintain. We currently offer 55 tools which have been specially developed for the needs of users in emerging markets,” said Henk Becker. Power Tools will be focusing even more on its own sales organizations in future. “We are extending our network in Africa. We now have eight sales organizations – Angola and Egypt were added in 2018. We believe we can contribute to the positive development on this continent with our power tools and service,” said Henk Becker.

Bosch Power Tools is one of the world’s leading providers for power tools, power tool accessories and measuring tools. It has a workforce of some 20,000 associates in 62 countries.

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The Robert Bosch Power Tools GmbH, a division of the Bosch Group, is one of the world’s leading providers for power tools, power tool accessories and measuring tools. In 2018, its roughly 20,000 associates generated sales of 4.6 billion euros, about 85 percent of which outside of Germany. With brands such as Bosch and Dremel, the division stands for customer focus and great engineering progress. The core success factors are innovative strength and pace of innovation. In 2019, Bosch Power Tools will again launch more than 100 new products onto the German market in its four business segments power tools, accessories, measuring tools and garden tools.

The Bosch Group is a leading global supplier of technology and services. It employs roughly 410,000 associates worldwide (as of December 31, 2018). According to preliminary figures, the company generated sales from operations of 77.9 billion euros in 2018. Its operations are divided into four business sectors: Mobility Solutions, Industrial Technology, Consumer Goods, and Energy and Building Technology. As a leading IoT company, Bosch offers innovative solutions for smart homes, smart cities, connected mobility, and connected manufacturing. It uses its expertise in sensor technology, software, and services, as well as its own IoT cloud, to offer its customers connected, cross-domain solutions from a single source. The Bosch Group's strategic objective is to deliver innovations for a connected life. Bosch improves quality of life worldwide with products and services that are innovative and spark enthusiasm. In short, Bosch creates technology that is "Invented for life." The Bosch Group comprises Robert Bosch GmbH and its roughly 440 subsidiary and regional companies in 60 countries. Including sales and service partners, Bosch's global manufacturing, engineering, and sales network covers nearly every country in the world. The basis for the company's future growth is its innovative strength. At 125 locations across the globe, Bosch employs some 69,500 associates in research and development.

Additional information is available online at www.bosch.com, www.iot.bosch.com, www.bosch-press.com, [www.twitter.com/BoschPresse](https://twitter.com/BoschPresse).

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Bosch innovations for your home

Speech by Henk Becker,

President of the Robert Bosch Power Tools GmbH

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Ladies and gentlemen,

As you may have already heard or read in our press release, there have been personnel changes in the management board at Bosch Power Tools. I would like to briefly introduce my new colleagues to you.

- Lennart de Vet, whose responsibilities include sales and marketing. He is also in charge of business for professionals in both industrialized and emerging markets. Lennart most recently held responsibility for the business in precisely these emerging markets, such as China, India, Brazil and Russia.
- And Stephan Hölzl, who is responsible for finance and controlling, HR, and logistics, as well as our accessories business. He was most recently responsible for Inhouse Consulting in the Bosch Group.

Most of you already know me. I have been with Bosch for 24 years and took over as President at the start of the year, succeeding Henning von Boxberg. I am responsible for Engineering, Strategy, and Digitalization. As I will continue to be responsible for our DIY business, I will start today with this presentation. Lennart will then present the innovations for professionals, Stephan our ideas for the accessories business. We've got some plans!

Innovations to meet all DIY enthusiast needs

This obviously also applies to our new products in the DIY segment. With these we are addressing do-it-yourselfers in all their diversity, regardless of whether they are experimenters or enthusiasts, we serve the full scope of needs. Here is a brief overview of how we define these target groups: The experimenters, as we call them, represent the largest target group. They make up around half of all do-it-yourselfers and are a mix of men and women. Experimenters do not have much experience, so are looking for tools that are intuitive to use and lightweight. They want sufficient power and – since they see their projects as an expression of their personality – also a guarantee of success. They are proud of their projects, even if they are not perfect. In fact, this is precisely what motivates them to keep going and learn more. Enthusiasts, on the other hand, are often men with a lot of experience and passion

for DIY projects. They like to dare demanding projects in and around the home and garden that meet their individual needs. They like to do everything themselves – without any help from professionals. When they do something, they are keen to make it right. When it comes to their work, they are perfectionists. What our do-it-yourselfers have in common: A desire for products to fully embody the feeling of “Home made by you”.

New product design derived from user requirements

In exchange with our users, we repeatedly experience how important it is to constantly look at things from the outside and question them critically. To make it as easy as possible for those with little experience to use the tools, we are counting on a new product design. Several of you already had the chance to get to know it at our garden tools press conference last August. We are following the motto formulated by the designer Anton Stankowski: “Omit the unimportant. This intensifies the information.” But what does this actually mean for our product design? To make our tools as accessible as possible for all users, we focus on three key aspects: A clear design language, reducing the number of control elements down to the necessary minimum, and a calm silhouette. Nothing to distract you – the user can focus on creating their individual DIY project.

Four new tools in the 18 volt “Power for All” system

We will be introducing the new product design gradually. It is already in use for our “Power for All” products. With “Power for All“, we are enabling our users to work without any annoying cables – and are therefore continuing to expand this battery system. Users can operate more than 25 DIY and garden tools such as rotary hammers, jigsaws, hedgecutters and grass trimmers with one and the same 18 volt lithium-ion battery. They can therefore do without batteries and chargers they do not need – saving both space and money.

This year, we are expanding the 18 volt system for DIY enthusiasts to include four new tools. The UniversalDrill 18 cordless drill/driver and the Universal-Impact 18 cordless combi drill are easy-to-use universal tools for screwing

and drilling. By combining a low weight with a narrow softgrip handle, they are the most ergonomic tools in their price range – and comfortable to hold in any position. Both tools are fitted with a round-shank drill chuck, which allows for quick drill and bit changes. Turning in screws, drilling in wood, metal, or with the UniversalImpact 18 in masonry – the application is simply selected on the setting dial. The required torque is just as easy to set. It can be adjusted via a minimum-to-maximum scale. The two-speed gearbox is also easy to operate with a sliding switch on the back of the tool.

The AdvancedRecip 18 reciprocating saw is also particularly easy to use. It offers DIY enthusiasts 40 percent less vibration than previous models – and as much as 60 percent less than comparable competitor models. As a result, thick beams can be cut to size with a particularly high degree of control and without fatigue, while pipes can be shortened and firewood or branches can be trimmed. The SDS tool holder makes it possible to change the saw blade especially quickly and without the need for additional tools. DIY enthusiasts can always keep an eye on the remaining runtime thanks to the battery level display with three LEDs integrated in the handle.

Convenient, powerful and versatile – our new UniversalVac 18 cordless handheld vacuum cleaner has it all. It now also comes with an improved filter system with pre-filter. It is particularly efficient and easy to clean due to the flexible frame. The tool is also fitted with an optimized fan motor, now offering around 50 percent more power than its predecessor – all while working more quietly. The vacuum cleaner is also particularly versatile thanks to accessories such as the crevice and brush nozzle, as well as two extension tubes. The floor nozzle quickly converts the handheld vacuum into a floor vacuum cleaner. That makes the UniversalVac 18 perfect for use in DIY workshops, at home or in cars.

With “Power for All”, we are offering users a unique battery system that comprises DIY, gardening and household tools. We are also continuously

expanding the system and therefore offering users an even broader application range.

Table saw with NanoBlade technology

Our saws with “NanoBlade” technology represent another example of a successful innovation. This unique saw blade technology with revolving micro-chain allows DIY enthusiasts to work almost vibration-free and therefore particularly precise. The EasyCut 12 and AdvancedCut 18 cordless tools, as well as the corded EasyCut 50 and AdvancedCut 50 versions, are already available and proving very popular among DIY enthusiasts. They can be used to make freehand cuts or plunge cuts in a wide variety of materials in no time, both indoors and outdoors. Users appreciate our products. They receive good online ratings.

The AdvancedTableCut 52 550-watt corded table saw is an addition to our existing range and offers all the benefits of the “NanoBlade” technology. Weighing just 8.5 kilos and having a particularly flat design, the AdvancedTableCut 52 is one of the lightest and most compact DIY table saws on the market. This advantage in terms of weight and compactness is made possible by “NanoBlade” saw blade technology, which requires less space. Another benefit of the saw blade is that it is exceptionally easy to change, without the need for additional tools: Simply open the closure of the saw blade holder and remove the saw blade. Insert the new saw blade, close the cap – and the saw is up and running again. The table saw offers a cutting depth of 52 millimeters and is suitable for all conventional sawing tasks: Cutting laminate or roof lathes to size or conveniently making horizontal and vertical miter cuts, for example, for wall coverings, skirting boards and picture frames. To give do-it-yourselfers additional control when working, the AdvancedTableCut 52 is equipped with a pull function in addition to the push function. The saw blade is simply pulled through the workpiece, with hands a safe distance away.

Industry pioneer for reducing plastic waste

We are also breaking new ground in terms of sustainability and recycling. Our green cases for DIY enthusiasts are now available for the first time in recyclable plastic. This makes us the first manufacturer in the industry to offer tool cases made from 90 percent recycled material. We are already planning to produce six-figure quantities of DIY cases using this plastic at our Hungarian plant in Miskolc this year. Due to the high proportion of recycled material, less carbon dioxide is produced. This year we are already saving around 1,500 tonnes of carbon dioxide – equivalent to the CO² emissions of around 13 million kilometres travelled by car. We reduce plastic waste by around 1,000 metric tons annually. This is our contribution to reduce climate-damaging gases and plastic waste on earth. You can identify our sustainable cases by their special logo.

Cross line laser with green laser diodes for better visibility

DIY enthusiasts need to level things accurately from time to time. Whether positioning curtain rails correctly, leveling kitchen or bathroom cabinets, or decorating walls with tiles or patterned wallpaper – we have the right solution for all these applications: Our Quigo cross line laser. We now also offer a model with green laser lines in the shape of the Quigo Green. These lines are up to four times more visible for the human eye than red laser lines and also easy to see in bright environments, for example near a window facade. The Quigo Green sets itself apart from previous models thanks to its larger, 12 meter working range and its new design. The handy cube comes in black with a decorative light-green frame.

Convenient and easy measuring of surface temperatures

Our new UniversalTemp helps users to measure surface temperatures quickly, easily and conveniently. The tool determines temperatures between -30 and +500 degrees Celsius via infrared measurement, making it one of the tools with the widest measuring range on the market. As such, the possible applications are large: The UniversalTemp masters classical tasks such as checking heaters for consistent heat output or detecting energy losses

caused by insufficient insulation just as easily as testing whether the pizza stone in the oven is at the right temperature. The UniversalTemp helps to save energy and is quickly ready for use. It stands out from equivalent competitor products thanks to three measurement modes, each assigned to a certain group of materials. These modes take into account the emissivity, the heat emission, of the relevant surface during the infrared measurement. The surface temperature of different materials such as concrete, granite, laminate, sand, cork, porcelain, or glass can be determined more precisely. No matter what type of surface is checked: The UniversalTemp is small, light and intuitive to use. Thanks to its narrow grip, it always fits comfortably in the hand.

Iconic Ixo screwdriver gets a new look

The Ixo is a true icon among power tools – it has always been unique. We have now once again reinvented this iconic cordless screwdriver. Introducing a new and elegant design with a distinctive silhouette and even more lightness, the reinvented Ixo is sure to be well-received. Your ‘little helper’ screws in screws more easily than ever before thanks to its speed control feature. The stronger the switch is pressed, the faster the Ixo screws. This precise speed regulation makes the difference to conventional screwdrivers of the same class on the market. The Ixo screws more sensitively and flatters the material like no other screwdriver. Scratched surfaces or furniture, splintered wood, screws damaged or screws driven too deep – all these are a thing of the past. In addition, now the user can always see how long their Ixo can be used for. Three LEDs constantly show the battery’s charge status.

For Ixo lovers or those wanting to become, we also host a design competition with the maxim of “Design your Ixo – and choose your favorites”. You can give the Ixo your favorite color combination and create a unique look yourself online. A jury will choose a winning design from the three designs with the most likes, which will then be available as the Ixo Colour edition. You can find the terms of participation and more information at www.bosch-ixo.com.

Addressing new target groups

As you may have noticed at the beginning, we do not focus just on DIY enthusiasts when addressing users. We also see opportunities in addressing new target groups. In concrete terms, we would like to introduce the design-oriented creator to you today. These differ from DIY enthusiasts in the classic sense and have different needs. They are very demanding, always wanting the latest generation of high quality products with the best technology. However, the operation of the tools should be easy. The recognition of family and friends is very important to these creative designers – they want to be admired for their own style and also for the style of their home. For them, the motto “Home made by you” takes on a different and very appealing touch.

A world’s first – YouSeries from Bosch for DIY enthusiasts

So how can we address this new target group? With a world’s first! We believe that we are revolutionizing power tools for DIY enthusiasts with our YouSeries – defined by the slogan “simple, compact, different”.

In the first step, the range comprises three small cordless everyday helpers that show that DIY work can be carried out in a more stylish manner than ever before. The drill/driver, multi-sander and handheld vacuum cleaner share a highly individual look with a new, reduced color concept in Sienna and Black – and are also remarkably compact. The drill/driver, multi-sander and dry vacuum cleaner are up to 50 percent smaller, at least a third lighter and similar powerful as their siblings from the 12 volt product family. This is made possible due to the higher-capacity cell – battery cell and electronics are consequently optimized to the respective application. Regardless of whether you are drilling, screwdriving, sanding or vacuuming – thanks to the new series, creative designers can intuitively beautify their homes quickly and conveniently.

With the YouSeries cordless drill/driver everything is quite simple: Drilling, screwdriving, or loosening screws. A sliding switch on the top of the tool with self-explanatory symbols allows users to select the required function. Settings

such as gear selection and direction of rotation are adjusted automatically. The speed can be adjusted variably using the speed trigger. Particularly compact and powerful, the motor allows up to 90 screws of 4 x 40 millimeters in size to be driven in with a single charge of the 4.0 Ah battery.

The cordless multi-sander from the YouSeries is designed for small to medium sanding projects and quickly and easily makes surfaces silky smooth – no matter whether the sanding project is a board for a kitchen shelf, a garden chair or a decorative piece of furniture. The powerful yet compact tool can be simply switch on and off using a single push button on the top of the device. In addition, it can be attached to all conventional Bosch dust extraction units via a dust extraction attachment with flexible hose. You can simply attach the hose to your belt so that it is no longer in the way while sanding.

The cordless handheld vacuum cleaner in the YouSeries can be used flexibly in any situation: Whether around the home, for crafting and DIY work, or even if you are on the move, for example, in your car or camping. It vacuums up a variety of substances – including crumbs, dust and pet hair – in no time at all, and is also particularly user-friendly due to its integrated filter. The filter can be cleaned or replaced quickly and easily in just a few simple steps.

The YouSeries has even more to offer. The exquisite design of the range also includes attractive packaging, which was developed together with users, whose wishes are reflected in the small box: Stylish, compact, matt-black, high-grade – all of these factors were important for our design-oriented creators, who were keen to be able to store the compact powerhouses in their home together with the box. With the YouSeries, we are combining power with a new dimension of size and design in this new concept for power tools and packaging. We will continue to extend the range in keeping with the motto of “Power has a new size”. Watch this space!

Unique Bosch DIY & Garden App

We have now repeatedly talked about users and their needs. As journalists, you know that communication is another essential requirement. We are already providing DIY enthusiasts with a platform for discussions in terms of our [“1-2-do”](#) community and offer them both inspiration and ideas for projects via the [“allaboutdiy.com”](#) online magazine.

Our new Bosch DIY & Garden App bundles these offers and services on one platform and complements them with exclusive app functions, such as the possibility to easily share ideas and projects with family, friends, or like-minded people via own social networks or messenger programs. Renovating, decorating, tending the garden: The new Bosch DIY & Garden App supports DIY enthusiasts with their personal projects and beautify their homes. The app was developed in collaboration with users and puts their needs at the center: Inspiration, information, support when purchasing and using power tools, sharing on social media. The app is simple and intuitive and accompanies the user from the idea of which project he would like to realize right through to the result, ready to be presented online. The app is ideal for, both, beginners and experienced DIY enthusiasts: A personalized search function allows the user to choose content based on their own experience and personal interests, for example to find suggestions for projects. No other app on the market offers this kind of all-round support – the Bosch DIY & Garden App is unique.

As you can see from our app, as well as the numerous new products: We are highly innovative in various areas. In this vein, our primary focus is and will be on users and their requirements – no matter whether they are classic DIY enthusiasts or derive from a new target group.

I would now like to hand you over to my colleagues Lennart de Vet and Stephan Hölzl, who are keen to show you the new products in our business with professional power tools and accessories.

Thank you for your attention.

Press photo: #959052

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Additional information is available online at www.bosch.com, www.iot.bosch.com, www.bosch-press.com, www.twitter.com/BoschPresse.

Easy and versatile sawing in house and garden: **New “NanoBlade” saw from Bosch for DIY enthusiasts** Table saw added to the range

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- ▶ AdvancedTableCut 52: Lightweight and compact table saw with pull function
- ▶ “NanoBlade” technology: Almost vibration-free sawing for DIY enthusiasts
- ▶ Precise sawing: Revolving micro-chain makes working easy

“NanoBlade” saw blade technology stands for simple and precise sawing that is almost vibration-free. Bosch is consistently pursuing this technology and adding a new tool to its existing saw range: The corded AdvancedTableCut 52, a highly compact 550-watt table saw. This means that DIY enthusiasts can choose from a total of five “NanoBlade” saws for nearly every application. Their advantage: “NanoBlade” saw blade technology is based on a saw blade with a revolving micro-chain, consisting of chain links that are only four millimeters in size. This means that the stroke movement that is typical of jigsaws and sabre saws, featuring high vibrations and saw blade running, is no longer required. The result is that DIY enthusiasts can work particularly easy and precise.

AdvancedTableCut 52: Simple transport, controlled sawing

Weighing just 8.5 kilos and having a particularly flat design, the AdvancedTableCut 52 is one of the lightest and most compact DIY table saws on the market. This advantage in terms of weight and compactness is made possible by “NanoBlade” saw blade technology, which requires less space. Another benefit of the saw blade is that it is exceptionally easy to change, without the need for additional tools: Simply open the closure of the saw blade holder and remove the saw blade. Insert the new saw blade, close the cap – and the saw is up and running again.

The AdvancedTableCut 52 offers a cutting depth of 52 millimeters and is suitable for all conventional sawing tasks: Cutting laminate or roof lathes to size or conveniently making horizontal and vertical miter cuts, for example, for wall coverings, skirting boards and picture frames.

To give do-it-yourselfers additional control when working, the AdvancedTableCut 52 is equipped with a pull function in addition to the push function: The saw blade is simply pulled through the workpiece, with hands a safe distance away. The table saw accessories also include a guide rail for sawing long workpieces as well as an additional block for laying them securely, a universal guide for angled cuts, and a push stick. A screw opener can be attached to the push stick that allows to easily tighten and loosen the tool's wing screws. All accessories and the cable can be stored on the tool for easy transport. An integrated drawer offers space for additional saw blades. Furthermore, the AdvancedTableCut 52 is compatible with the Bosch PTA 2400 saw stand and can be combined with dust extraction using a universal adapter from the range of accessories, making working healthier and more comfortable.

The AdvancedTableCut 52 will be available from May 2019. The prices given are recommended retail prices including VAT.

Specifications	AdvancedTableCut 52
Performance	550 W
No-load speed	0 – 8200 min ⁻¹
Max. cutting depth, 90°	52 mm
Max. cutting depth, 45° bevel	35 mm
Bevel adjustment	+/-60°
Dimensions without blade (length x height x width)	630 x 220 x 435 mm
Pull function	Yes
Weight	8.5 kg
Scope of delivery/recommended retail price including VAT	Tool including NanoBlade Wood Basic 65 mm saw blade, push stick with screw opener, additional block for long workpieces, universal guide and guide rail: €329.99

Subject to change.

Already available in the Bosch range:

- The EasyCut 12 and AdvancedCut 18 cordless multi-saws
- The corded models EasyCut 50 and AdvancedCut 50

See [PI 9188](#) and [PI 10076](#) for more information.

Press photos: #1844246, #1844247

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Better visibility thanks to green laser diodes: **Quigo Green cross line laser from Bosch** Easy alignment in all lighting conditions

March 21, 2019
PI 10889 PT MS

- ▶ Precise laser lines also in bright indoor environments
- ▶ More possible applications thanks to extended working range of up to 12 meters
- ▶ New design with proven single-button operation

Green laser lines for maximum visibility indoors: Bosch is expanding its cross line laser range for DIY enthusiasts with a new Quigo model featuring green laser diodes, the Quigo Green. The advantage for the user: Green laser lines are up to four times more visible to the human eye than red laser lines. That makes the Quigo Green's laser lines easy to see also in bright environments, for example near a window facade. In addition, the Quigo Green now provides precise results in a working range of 12 meters – and therefore offers an even wider variety of applications: Correctly positioning curtain rods, leveling kitchen and bathroom cabinets, decorating walls with tiles or patterned wallpaper – with the Quigo Green, do-it-yourselfers can align objects quickly and precisely with an accuracy of ± 0.8 millimeters per meter. The Quigo Green also sets itself apart from previous models with its new design: The handy cube now comes in black with a decorative light-green frame.

Instantly ready to use, easy and intuitive to operate

Of course the Quigo Green still features the proven single-button operation: Just open the protective cover and two intersecting laser lines project an angle of exactly 90 degrees onto the wall. The Quigo Green automatically compensates for irregularities of up to four degrees and signals any deviations from this with a flashing laser line. This is, for example, the case when do-it-yourselfers use the tilt function to align diagonal patterns, lines or railings. If the protective cover is closed, the device switches off immediately and the internal pendulum is stopped ready for transport.

Flexible positioning for a wide range of applications

The universal clamp is included with the Quigo Green as standard, and it allows the device to be easily fixed to table tops, ladders, shelves or even stair railings. This is made particularly easy by the adapter plate, which also features fine adjustment in a range of ± 2 centimeters, making it unnecessary to frequently readjust the universal clamp. The adapter plate can be fixed to the top, bottom or rear of the Quigo Green, providing do-it-yourselfers even more flexibility: It could be positioned directly beneath the ceiling, for instance, for marking out a border. Furthermore, the adapter plate can also be attached to a standard tripod with a $\frac{1}{4}$ -inch thread.

The Quigo Green is available from April 2019. All prices are recommended retail prices including VAT.

Specifications	Quigo Green
Laser diode/Laser class	500 – 540 nm/2
Working range	12 m
Leveling accuracy	± 0.8 mm/m
Leveling time	6 s
Self-leveling range	$\pm 4^\circ$
Tilt function	Yes
Power supply	2 x 1.5 V LR03 (AAA)
Dimensions (length x width x height)	65 x 65 x 65 mm
Weight including batteries	270 g
Scope of delivery/recommended retail price including VAT	Tool including MM2 universal clamp, adapter plate and batteries: €79.99

Subject to change.

Press photos: #1844248, #1844249

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Convenient and easy measuring of surface temperatures: **UniversalTemp from Bosch for DIY enthusiasts** Small, light and handy for many different applications

December 2019
PI 10890 PT MS

- ▶ Versatile: Large application range from -30 to +500 degrees Celsius
- ▶ Reliable: Three measurement modes for different material groups
- ▶ Intuitive: Easy-to-operate tool with display for fast measurements

Always having an eye on the temperature: The Bosch UniversalTemp now helps users to measure surface temperatures quickly, easily and conveniently. The tool determines temperatures between -30 and +500 degrees Celsius via infrared measurement, making it one of the tools with the widest measuring range on the market. As such, the application possibilities are large: The UniversalTemp masters classical tasks such as checking heaters for consistent heat output or detecting energy losses caused by insufficient insulation just as easily as testing whether the pizza stone in the oven is at the right temperature for perfectly baked pizza. The UniversalTemp helps to save energy and is quickly ready for use. It stands out from equivalent competitor models thanks to three measurement modes, each assigned to a certain group of materials. These modes take into account the emissivity – the heat emission – of the relevant surface during the infrared measurement. Therefore, the surface temperatures of different materials such as concrete, granite, laminate, sand, cork, porcelain or glass can be determined more precisely. The supplied material overview helps users to select the correct mode. No matter what type of surface is checked: The UniversalTemp is small, light and always fits comfortably into your hand thanks to the narrow pistol grip with softgrip.

Easy operation, fast results

The measurement results are shown in white on the illuminated display with black background, making them very easy to read. The display shows both the current and previously measured value. In addition, users can see whether a measurement is in progress, check the battery's charge status and see which mode is active.

To carry out a measurement, users select the required mode simply at the push of a button, hold the tool perpendicular to the surface and trigger the measurement via the convenient activation switch. While the switch is pressed, the tool continuously measures the temperature of the surface currently hit by the infrared beam and displays the value continually. This makes it possible to determine minimum and maximum values within a surface, for example to detect thermal bridges or check heaters for consistent heat output.

The UniversalTemp is available at retail outlets. Prices are recommended retail prices including VAT.

Specifications	UniversalTemp
Measuring range	-30 °C to +500 °C
Laser class	2
Measurement modes (material groups)	3
Resolution (0 to 100 degree)	+/- 1,8°C*
Operating temperature	-5 °C to +50 °C
Dimensions (height x length x width)	171 x 101 x 54 mm
Weight including batteries	220 g
Scope of delivery/recommended retail price including VAT	Tool including two AA batteries and overview of material groups: €44.99

*plus application-dependent deviation

Subject to change.

Press photos: #1844250, #1844251, #1844252

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The iconic screwdriver gets a new look: **Bosch is reinventing the Ixo** Easier to operate than ever before

March 21, 2019
PI 10891 PT MS

- ▶ Trademark features: Distinctive silhouette and lightness
- ▶ Speed control: More sensitive screwdriving thanks to speed control
- ▶ New LED display: Charging status always in view
- ▶ Ixo design competition: You decide what the Ixo Colour Edition will look like

Smooth curves, fresh logo: Bosch is reinventing the Ixo, once more underlining the uniqueness of the cordless screwdriver with cult status among do-it-yourselfers. The trademark feature of the new Ixo is its elegant design with a distinctive silhouette and even more lightness. The little everyday helper screws in screws more easily than ever before thanks to its speed control feature. The stronger the switch is pressed, the faster the Ixo screws. This precise speed regulation makes the difference to conventional screwdrivers of the same class on the market. The Ixo screws more sensitively and flatters the material like no other screwdriver. Scratched surfaces or furniture, splintered wood, screws damaged or driven too deep – all these are a thing of the past. The ergonomic handle fits even more comfortably into the hand thanks to its all-round soft grip. In addition, now the user can always see how long their Ixo can be used for: Three LEDs constantly show the battery's charge status. Gentle on the materials, easy to operate – the new Ixo from Bosch.

Easy to operate up to charging

With its powerful LED worklight, the Ixo illuminates every screw. It also remains true to its intuitive to operate forward and reverse rotation: If the switch is pushed forward, the Ixo tightens screws, if the switch is pulled back, it loosens them. In addition, the Ixo can be powered via a Micro USB cable. A charging station is available separately, which is handy for neatly holding the Ixo during breaks.

Ixo design competition: You decide what the Ixo Colour Edition will look like

Ixo lovers or those wanting to become such can give the Ixo their favorite color combination and create a unique look in an online design competition running

from March. A jury will choose a winning design from the three designs with the most likes, which will then be available as the Ixo Colour edition. The terms of participation and more information can be found at www.bosch-ixo.com.

Around 18 million units sold – the Ixo's story

Slotted, cross-headed and Torx – in letters I-X-O – with a name inspired by these three screw types, the Ixo set out to conquer the world more than 15 years ago. Today it is the world's most popular power tool – around 18 million units have been sold so far. The cult status is owed to its uniqueness right down to the packaging. The Ixo can simply do more: Driving screws around corners, opening wine bottles, seasoning dishes, firing up the coal on a barbecue, cutting various materials – the little everyday helper can do all that and more with the nine Ixo Collection adapters. The Ixo also repeatedly attracts attention with its special looks, like the Ixo Gold&Black anniversary design of 2018, or the 2010 Ixo Swarovski, when the little helper in a crystal-studded housing stylishly finished applications in home and garden. Ixo – so much more than a power tool.

The new Ixo will be available in the Classic or Colour Edition from October 2019. All prices are recommended retail prices including VAT.

Specifications	Ixo (6th generation)
Battery voltage/capacity	3.6 V lithium-ion/1.5 Ah
No-load speed	215 min ⁻¹
Max. torque	4.5 Nm
Max. screw diameter	5 mm
Charging time	3 h
Weight including 1.5 Ah battery	340 g
Scope of delivery/recommended retail price including VAT	<ul style="list-style-type: none">• Classic edition in storage box, including Micro USB charging cable and plug, and 10-piece standard bit set: €59.99• Charging station as accessory: €14.99• Colour edition in box, including charging station, Micro USB charging cable and plug, and 10-piece standard bit set: €64.99

Subject to change.

Press photos: #1844233, #1844254

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Bosch revolutionizes the DIY world with power tools: **World first YouSeries from Bosch for do-it-yourselfers** Simple, compact, different

March 21, 2019
PI 10892 PT MS

- ▶ Simple: Particularly intuitive operation even without prior knowledge
- ▶ Compact: Three small cordless everyday helpers with impressive power
- ▶ Different: A new power tool series for smoother DIY work than ever before

“Simple. Compact. Different.” The new YouSeries from Bosch is defined by this slogan and revolutionizes the DIY world: With these three small cordless everyday helpers, Bosch aims to show that DIY work can be carried out in a more stylish manner than ever before. The drill/driver, multi-sander and hand-held vacuum cleaner share a highly individual look with a new, reduced color concept in Sienna and Black – and are also remarkably compact. Thanks to this new design, these small everyday helpers of the YouSeries are a real treat for both the hand and the eye, exemplifying stylish power in a new size: They are up to 50 percent smaller than their siblings from the 12 volt product family – and yet still manage to be surprisingly powerful. This is made possible due to the higher-capacity cell, which has been newly integrated in the battery pack – meaning that the battery cell and electronics are consequently optimized to the respective application. Regardless of whether you are drilling, screwdriving, sanding or vacuuming – thanks to the new series, creative individuals can intuitively beautify their homes quickly and conveniently, with no prior knowledge or expertise required. The compact and stylish design of these powerful little helpers means they can also be easily stored around the home and are within reach when needed – and, at the same time, complement any space with their appearance. DIY work has never been smoother.

Powerful yet elegant: A stylish way to drive in screws easily

Do you have a new cabinet or kitchen shelf that is waiting to be put together? With the cordless drill/driver from the YouSeries everything is quite simple: Whether drilling, screwdriving, or loosening screws – just select the required function using the sliding switch and self-explanatory symbols on the top of the tool, and you are good to go. Settings such as gear selection and direction of

rotation are adjusted automatically and do not need to be taken into consideration. The speed can also be variably adjusted using the speed trigger. This allows DIY enthusiasts to assemble items such as their bedside cabinet, for example, and precisely screw components together without damaging the surfaces. No matter the project, the cordless drill/driver from the YouSeries works particularly efficient in any kind of application thanks to its newly developed brushless motor: Particularly compact and powerful, the motor allows up to 90 screws of 4 x 40 millimeters in size to be driven in with a single charge of the 4.0 Ah battery.

A versatile all-rounder: Sanding has never been finer

The cordless multi-sander from the YouSeries is designed for small to medium sanding projects and quickly and easily makes surfaces silky smooth – no matter whether the sanding project is a board for a kitchen shelf, a garden chair or a decorative piece of furniture. Thanks to its handy and easy to operate design, it fits comfortably into the hand in any position and can even reach tight spaces. The powerful yet compact tool can be simply switched on or off using a single push button on top of the device. In addition, it can be attached to all conventional Bosch dust extraction units via a dust extraction attachment with a flexible hose, ensuring your home to be spotless again after finishing up any kind of DIY project. A belt clip on the hose allows creative do-it-yourselfers even more freedom: Simply attach the clip to the belt of your trousers so that the hose is no longer in the way – and then: sand away.

A universal everyday helper: Vacuuming with style

The handy cordless hand-held vacuum cleaner completes the range of small everyday helpers in the YouSeries – and can be used flexibly in any situation: Around the home, for crafting and DIY work, or even if you are on the move, for example, in your car or while camping. It vacuums up a variety of substances – including crumbs, dust, dirt and pet hair – in no time at all, and is also particularly user-friendly due to its integrated filter. The filter can be cleaned or replaced quickly and easily in few simple steps.

The three cordless tools from the YouSeries come with a USB-C connection port – and can therefore be charged quickly and easily using a USB charger. They will be available from April 2019. Additional tools for the YouSeries range will follow. All prices are recommended retail prices including VAT.

YouSeries specifications	Cordless drill/driver
Battery voltage/capacity	3.6 V lithium-ion/4.0 Ah
No-load speed in 1st/2nd gear	0 – 300/0 – 1000 rpm
Chuck	10 mm Auto-Lock
Tool size (length x width x height)	150 x 45 x 160 mm
Max. soft torque	9.2 Nm
Max. screw size	5 x 60 mm
Max. drilling diameter in wood/metal	10/6 mm
Weight including 4.0 Ah battery	600 g
Scope of delivery/recommended retail price including VAT	<ul style="list-style-type: none"> • Tool supplied in box including bit set and magnetic bit holder: €99.99 • Tool supplied in box including bit set and magnetic bit holder, 4.0 Ah rechargeable battery and USB charging cable: €129.99

YouSeries specifications	Cordless multi-sander
Battery voltage/capacity	3.6 V lithium-ion/4.0 Ah
No-load speed	14,000 rpm
No-load orbital stroke rate	28,000 rpm
Orbit diameter	1.2 mm
Sanding sheet size	37 cm²
Tool size (length x width x height)	150 x 80 x 117 mm
Weight including 4.0 Ah battery	350 g
Scope of delivery/recommended retail price including VAT	<ul style="list-style-type: none"> • Tool supplied in box including sanding paper set: €69.99 • Tool supplied in box including sanding paper set, 4.0 Ah rechargeable battery and USB charging cable: €99.99 • Dust extraction attachment (accessory): €19.99

YouSeries specifications	Cordless dry vacuum cleaner
Battery voltage/capacity	3.6 V lithium-ion/4.0 Ah
Vacuum (turbine)	42 mbar
Airflow (turbine)	1.1 m³/min
Container volume	250 ml
Tool size (length x width x height)	290 x 80 x 91 mm
Weight including 4.0 Ah battery	610 g
Scope of delivery/recommended retail price including VAT	<ul style="list-style-type: none"> • Tool supplied in cardboard box including crevice nozzle: €59.99 • Tool supplied in cardboard box including crevice nozzle, 4.0 Ah rechargeable battery and USB charging cable: €89.99 • Replacement filter (accessory): €8.99

Subject to change.

Press photos: #1844231, #1844256, #1844257, #1844258

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Cordless tools now better than corded tools: **Biturbo tools from Bosch for professionals** A new dimension of performance

March 21, 2019
PI 10894 PT MS

- ▶ Performance that equals 1,000 to 1,800 watts corded tools
- ▶ With one battery that is just as powerful as competitor two battery models
- ▶ Optimized for easy handling and weight – new functions, such as user interface
- ▶ Three Biturbo angle grinders, three Biturbo saws, two Biturbo hammers

A new dimension of performance: With Biturbo, Bosch is introducing the next generation of cordless tools. The new tools – three angle grinders, three saws and two rotary hammers – are optimized for maximum performance with ProCore18V batteries. This makes them more powerful than all previous cordless tools from Bosch and offers professionals the equivalent power from a 1,000 to 1,800 watts corded tool. Also regarding handling and weight, Biturbo tools are an advantage: With one battery, they are just as powerful as competitor models with two batteries. This is based on the optimum coordination of their specially developed, brushless high-performance motor with electronics and battery that allows for usage of high-power currents – and therefore the entire potential of the ProCore18V batteries with 8.0 and 12.0 Ah. This means that particularly power-intensive applications are possible: With just one charge of the 12.0 Ah battery, the GBH 18V-45 C Professional SDS-max hammer, for example, can achieve up to ten wall openings of 30 centimeters in concrete with a drilling diameter of 25 millimeters, i.e. a drilled section of three meters. With the new Biturbo range, Bosch is also expanding its 18 volt system: Plunge saw, miter saw and SDS-max hammers are included for the first time. If you do not have a ProCore18V battery at hand, you can also use the previous lithium-ion battery: In the Bosch Professional 18 volt system, compatibility with new and existing power tools and chargers is guaranteed.

Biturbo angle grinders – more powerful than ever

The performance of the GWS 18V-15 C Professional, GWS 18V-15 SC Professional and GWX 18V-15 SC Professional Biturbo cordless angle grinders are comparable with that of a 1,500 watts corded tool. They cut up to 50 percent

faster than the current most powerful Bosch cordless angle grinder. In addition, the range of applications is wider because, for the first time, especially power-intensive roughing and grinding applications are possible. For further advantages, such as “KickBack Control”, user interface and Connectivity see PI 10895.

Three Biturbo saws – a wider range of applications than ever before

The Biturbo saws are also advancing into a performance class that was previously reserved for corded tools. The cordless GKS 18V-68 GC Professional hand-held circular saw is 15 percent quicker and, with the 8.0 Ah battery, even 225 grams lighter than the corded 1,800 watts tool. The Biturbo saw is easy to handle in every position. Its front handle, with bow rather than a knob design, makes it easier and safer to move – even for miter cuts. The depth can now be set easily at the push of a button, and its cutting depth has been increased to 68 millimeters. The new user interface and Connectivity functions also offer added value – for example, in order to adjust the speed or to extend the runtime by up to 30 percent using the “eco mode”.

For the first time, the 18 volt range includes a plunge saw and a miter saw with slide function. The GKT 18V-52 GC Professional cordless plunge saw is comparable to a 1,400 watts corded tool, and stands out thanks to its compactness – as with the other Biturbo tools, it is powered with just one battery. This makes handling and transport more convenient. Professionals can also work particularly close to edges: With a wall clearance of just 11 millimeters, it is the best in its class. The plunge saw is suitable for use with guide rails, equipped with a user interface and connectivity module option. The first cordless miter saw in the Bosch range is the GCM 18V-216 Professional. It is comparable to a 1,600 watts corded tool and offers the greatest cutting depth in its class – 70 millimeters. It therefore offers professionals a wider range of applications in mobile use than any other saw with a 216 millimeter blade.

Two Biturbo rotary hammers – more compact than ever

For SDS-max applications, professionals can now rely on two Biturbo hammers. The GBH 18V-45 C Professional is the lightest cordless rotary hammer in its class. With 12.5 joules, it offers the same impact performance as the 1,500 watts GBH 8-45 DV Professional, but is even lighter when used in combination with the ProCore18V 12.0 Ah battery. The GBH 18V-36 C Professional is the most compact cordless hammer in the SDS-max segment and equivalent to a 1,000 watts tool. Both rotary hammers offer “KickBack Control”, can be connected and, for the first time, are equipped with a user interface. Users can adjust the tools individually to their own needs by using the interactive on tool display. Furthermore,

you can easily have a look at the tool status including the battery charge status and the temperature at any time. The result: Interruption-free working.

The Biturbo angle grinders and saws will be available from September, the Biturbo rotary hammers will follow in October. This system is being continually expanded. Subject to change.

Press photos: #1844260, #1844230

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Cordless tools now better than corded tools: **Biturbo angle grinders from Bosch for professionals** Higher removal rate and faster cutting than ever

March 21, 2019
PI 10895 PT MS

- ▶ Same performance as a 1,500 watts corded tool thanks to maximum battery usage
- ▶ High level of occupational health and safety leads to increase in productivity
- ▶ Added value and user comfort due to connectivity functions

More powerful than ever before – the new GWS 18V-15 C Professional, GWS 18V-15 SC Professional and GWX 18V-15 SC Professional Biturbo angle grinders from Bosch for professionals. All three tools are optimized for use with ProCore18V 8.0 and 12.0 Ah batteries: The specially developed, brushless high-performance motor has been perfectly coordinated with the electronics and battery, meaning that the high-power currents of the inserted ProCore18V batteries can be used to their full potential. The result: The performance of the Biturbo angle grinders is comparable to that of a 1,500 watts corded tool. The tools work up to 50 percent faster than the current most powerful cordless angle grinder from Bosch – the GWS 18V-10 SC Professional. The range of applications is therefore wider because, for the first time, especially power-intensive cutting, roughing and grinding applications are possible – lasting the full lifetime of the tools. They are exceptionally durable and robust.

High level of occupational health and safety leads to increased productivity

The Biturbo angle grinders are ten percent shorter than comparable competitor models and, with a grip circumference of just 164 millimeters, they fit comfortably in your hand. They offer tradespeople comprehensive user protection. This includes sensor-based functions such as “Drop Control” and “KickBack Control”. “Drop Control” stops the motor as soon as the tool hits the floor after it falls, while “KickBack Control” stops the motor if the angle grinder is suddenly blocked, for example if the wheel jams. Furthermore, all three tools are equipped with a braking function. This means that, for example, the GWX 18V-15 SC Professional, the new model with X-Lock for tool-free accessory change, comes to a complete stop within one second thanks to “X-Brake”.

Soft start, restart protection and an auxiliary handle with vibration damping provide the user with more control over their work. The result: Greater productivity in day-to-day work.

Added value and operating comfort thanks to connectivity functions

The new Biturbo angle grinders also offer added value and increased operating comfort thanks to the connectivity functions. Tradespeople can connect it to their smartphones, for example, to easily adjust the speed. This is where the GWS 18V-15 SC Professional and GWX 18V-15 SC Professional models offer a particular advantage: In order to adjust the speed even more precisely to suit the relevant application, three additional preset speed levels can be added to the existing three, thereby increasing the number to six. All of the speed values can be set individually here. For all three models, care and maintenance are made easier by connectivity: Tradespeople receive information about the tool status on their smartphone. Furthermore, users can send repair orders more quickly via the app. GWS 18V-15 SC Professional and GWX 18V-15 SC Professional also score points for their user interface: Professionals always have an overview of the tool status and the battery's current charge status, and can also conveniently set the speed level via the display.

Full compatibility in the Bosch Professional 18 volt system

The ProCore18V 8.0 Ah and ProCore18V 12.0 Ah high-performance batteries, which are used to power Biturbo angle grinders in the most efficient way, are part of the Bosch Professional 18 volt system. It guarantees the compatibility with existing and new professional power tools and chargers in this voltage class for lithium-ion batteries. This results in planning and cost security for tradespeople and companies.

In total, Bosch is introducing eight Biturbo tools: Three angle grinders, three saws and two rotary hammers. They are more powerful than all previous cordless tools from Bosch and offer professionals the equivalent power of a 1,000 to 1,800 watts corded tool. For further information, see PI 10894.

The GWS 18V-15 C Professional, GWS 18V-15 SC Professional and GWX 18V-15 SC Professional Biturbo angle grinders will be available from September 2019. All prices are recommended retail prices excluding VAT.

Specifications	GWS 18V-15 C Professional	GWS 18V-15 SC Professional	GWX 18V-15 SC Professional
Battery voltage	18 V	18 V	18 V
Corded tool equivalence	1,500 W	1,500 W	1,500 W
Disc diameter	125 mm	125/150 mm	125 mm
No-load speed	11,000 rpm	3,400 – 11,000/ 2,600 – 8,500 rpm	3,400 – 11,000 rpm
Connectivity function	Yes	Yes	Yes
HMI display	–	Yes	Yes
Spindle	M14	M14	M14
Tool holder	Quick-clamping nut	Quick-clamping nut	X-Lock
Dimensions (length x height x width)	368 x 110 x 260 mm	368 x 110 x 260 mm	368 x 110 x 272 mm
Weight with ProCore18V 8.0 Ah battery	3.2 kg	3.2 kg/3.3 kg	3.3 kg
Scope of delivery/ recommended retail price excluding VAT	<ul style="list-style-type: none"> Solo tool in the L-Boxx: €309 	<ul style="list-style-type: none"> Solo tool in the L-Boxx: €339 Tool in the L-Boxx, including two ProCore18V 8.0 Ah batteries and GAL 18V-160 C Professional quick charger: €698 	<ul style="list-style-type: none"> Solo tool in the L-Boxx: €364 Tool in the L-Boxx, including two ProCore18V 8.0 Ah batteries and GAL 18V-160 C Professional quick charger: €723

Subject to change.

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Practical test at 85 meters high: **The Bosch X-Lock system saves valuable time in the Stuttgart-Ulm rail construction project**

March 21, 2019

PI 10897 PT MS

“Soon, high-speed trains will rush across this valley in just seven seconds. When we have completed the 500-meter bridge, it will be a pioneering piece of engineering,” explains Manfred May, Construction Manager at Max Bögl Group, while looking across the Filstal valley to the Steinbühl tunnel. He is standing 85 meters above the ground, on the third section of the Filstalbrücke, a bridge which is under construction. Seven further sections of the bridge still have to be built before the reinforced-concrete structure touches the other side – and then a second supporting structure will follow. “The Filstalbrücke consists of two single track bridges, running in parallel across the valley and are 30 meters apart of one another. This separation is determined by the tunnels,” the Construction Manager explains. He goes on to clarify what makes this section of the Stuttgart-Ulm rail project so unique: “The forces that act on the bridge with its delicate, Y-shaped pillars due the high-speed rail traffic, the route running from tunnel to tunnel, with tunnel entrances which are supported by the bridge, and, last but not least, the height – all of these things present daily challenges.” The bridge across the Filstal valley is the third-tallest rail bridge in Germany at close to 85 meters high. In order to complete the demanding construction project, the bridge-building specialists from the company group “Max Bögl and Porr” have joined forces to create the Arge EÜ Filstal working group. Manfred May talks about the special technology used on-site: “We work with a movable scaffolding construction which wraps the current section of the build from above. When concreting is complete, the steel construction is released at the bottom and moved forward. In this way the bridge extends out and across the valley.”

Finding solutions to keep on track

“We’re currently working on the reinforcement,” says Foreman Martin Mayer, who is on site with the Max Bögl team. He has just discussed today’s assignment and established the tasks with Construction Manager Manfred May: 160 tons of reinforcement bars need to be laid as quickly as possible so that the concrete can be poured. “The reinforcement work is very tricky. If the positions are not correct, the iron has to be shortened with angle grinders. The team needs to keep tools and accessories ready to complete this task. If anything is missing, it is a very long

way from up here, all the way down to the tool depot. And that costs us time. We are always looking for solutions to keep us on schedule,” the foreman explains further, reaching for a cutting disc for the Bosch cordless angle grinder [GWX 18V-10 SC Professional with X-Lock mount](#) – which he is using for the first time today.

A quick change without keys to save time

“When you are using angle grinders, you are always searching for the key. You know it is around here somewhere. That takes valuable time when the disc jams and the clamping nut gets stuck. It takes a lot of effort to loosen it again, or you reach for a hammer,” Martin Mayer describes how he is usually racing against time. That is a thing of the past with the X-Lock system: “The new system is quick. You can change discs in a few seconds without the need for a key.” Getting started is just a click away for Martin Mayer with the GWX 18V-10 SC Professional: Position the wheel in the X-Lock mount, click it in – done! If the disc needs changing, simply unlock it using the lever and it can be removed right away. “I don’t even need to take off my gloves.” The foreman is obviously pleased about that. The X-Lock angle grinder also has a decisive advantage regarding occupational health and safety. “The disc comes to a complete stop within one second, when you release the button. This brake function considerably reduces the risk of injury.”

Diverse and flexible to overcome every challenge

With a total of 12 small angle grinders – eight corded models, from 900 to 1,900 watts, and four 18 volt cordless models – and more than 130 accessories, the X-Lock accessory change system is extremely versatile. For metal processing, for example, Martin Mayer can choose from a broad selection of cutting, roughing, fiber, SCM and flap discs, as well as cup and round brushes. When switching to the X-Lock system, there is no need for duplicate stock: “The new discs also fit on our old angle grinders. That is a big advantage because you can upgrade without having to buy everything brand new,” says Martin Mayer. It is now almost the end of the shift, and the Construction Manager comes by again to review the progress. The foreman puts the angle grinder back in its L-Boxx, looks out across the valley at the distance they still have to cover. “Every construction project is unique and you are always proud when you have been involved right from the start. When passengers are speeding across this bridge in seven seconds in the high-speed ICE train, popping suddenly out into the light from the dark of the tunnel before they speed straight into the next one, they will only be able to guess the challenges we have had to overcome to provide them this route.” As a bridge builder, Martin Mayer enjoys the thrill of being up here on this project. “When you finally see the end product, you know how much you have achieved. You can proudly tell your children one day: That was my construction site.”

Press photos: #1844265, #1844266, #1844267

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On board with reinforced concrete:

Bosch SDS max-8X four-cutter hammer drill with full carbide drill head proves itself in railway construction

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“Tram approaching!” As soon as one tram passes, forcing the workmen off the tracks, the next one is on its way, as indicated by the tram warning signal. “Working on local public transport in urban areas means that we can only work for short periods of time if the tracks are in use,” explains Christoph Schmoranz, Construction Manager at Rhomberg Sersa Deutschland. His team is currently working on one of the most important traffic routes for the university city of Halle (Saale), constructing new tracks for the city’s tram system: As part of a major multi-stage project, the tram is being upgraded to a city railway system, making future passengers’ journeys faster, more comfortable and reducing noise for residents. For the Construction Manager, this project means much more than just sleepers and rails: “The part of railway construction that people do not see – but is very time-consuming – is the preparation: The substructure, civil engineering, railway power supply and the installation of safety systems.” As part of the Rhomberg Sersa Rail Group, the Austrian-Swiss railway construction and railway technology specialist, the company is ideally equipped for this work: “We cover the whole range of services, from railway construction to communication technology and maintenance,” explains Christoph Schmoranz.

Before the time slot closes again: Drilling fast and efficiently

“For the current stage of construction, we are working on a single-track layout – instead of the usual double-track layout, which results in trams running even more frequently. This means that every three to five minutes, a tram drives through our construction site. We have to take into account the safety of our employees as well as the tram timetable – the train traffic cannot be delayed. Everything needs to be done professionally, and at the same time, as fast as possible,” the Construction Manager explains while his team prepares for today’s work. “On this route section we are installing so called “guard angles” that will provide us with additional protection while we are working on the track. If a tram derails, the angles will stop it,” clarifies the Construction Manager and pauses briefly, waiting for the signal that will allow the workers back onto the track. Construction worker Philip Engelhardt then gets to work: Fitting the guard rails with colored visual protection, aligning it, marking the holes – and then drilling.

“The problem up to now has been that once we reached the reinforced steel, even the best drills would not make it through the sleepers and rail setting plates,” says the track layer – before he tries out the Bosch SDS max-8X four-cutter hammer drill. He is using it for the first time today with his eight-kilogram GBH 8-45 DV Professional rotary hammer and is impressed: “You do not even notice that you are working in reinforced concrete. The drill goes through without any pressure at all.”

Exceeding limits: Easy handling of large drilling diameters

Philip Engelhardt’s work is progressing faster than expected. He has almost finished drilling the holes for the first guard angle and is prepared for the next work step – ready for the next tram to arrive. The track layer uses this short break to change the drilling diameter. “We work with diameters from 20 to 28 millimeters,” he explains being pleased with a further benefit of the new hammer drill: The SDS max-8X is the only four-cutter hammer drill with full carbide drill head on the market, offering a diameter of up to 28 millimeters – common models offer maximum 16 millimeters. This is made possible by the unique Bosch diffusion welding technology (IDS). This ensures an extremely strong and durable fusion between the carbide head and the steel spiral, which is exceptionally resistant to changes in temperature: Unlike common drills, the Bosch SDS-plus-8X hammer drill bit remains unaffected by high temperatures of more than 400 degrees, which can potentially occur when drilling in reinforced concrete. For Philip Engelhardt, this means that he can use the SDS max-8X drill for longer than other models: The SDS max-8X offers a lifetime that is 50 percent longer than its predecessor SDS max-7, which already had a longer lifetime than equivalent competitor models.

Teamwork: Achieving goals faster with reliable tools

The track layer describes what he needs from accessories: “When we are working under time pressure, it is key that the drill does not tilt and that we can remove it from the drilled hole fast.” In addition, he is happy with another advantage of the hammer drill: “The extremely sharp, pyramid-shaped tip makes it easy to guide the tool when positioning, which also saves time.” The SDS max-8X guarantees even more efficient drilling thanks to the special geometry of its four-cutter full carbide drill head: In contrast to common hammer drills, it does not have inclined cutting edges but, instead, comes with flat 180-degree cutting edges. The result: Maximum impact force transmission without energy losses in edge regions. In the meantime, Philip Engelhardt has already fitted the second guard angle and his Construction Manager is satisfied with today’s work progress: “Railway work is teamwork. We need to know that we can rely on each other – and on our tools.” Approaching trams or not, the Rhomberg Sersa Deutschland team is sure of one thing: As long as they have the SDS max-8X hammer drill when working with reinforced concrete, nothing will derail their work.

Press photos: #1844268, #1844269, #1844270

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Maximum runtime for cordless saws: **Bosch carbide-tipped circular saw blades for pros** Up to twice as many cuts with a single battery charge

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- ▶ Extra-thin cutting width and optimized tooth geometry for maximum runtime
- ▶ Broad range for almost any cordless saw application
- ▶ “Expert for” range for continuous high cutting quality and special applications like stainless steel
- ▶ “Standard for” range for clean cuts in common materials such as wood and aluminum

Even more efficient and productive work: To achieve this goal, Bosch is continually further developing the circular saw blade range with carbide technology – and has now optimized it for the use with cordless tools. For the first time, the “Expert for” and “Standard for” range are offering tradespeople saw blades that extend the runtime of their cordless saws. With the new carbide-tipped circular saw blades, they can make up to twice as many cuts with a single battery charge compared to conventional carbide saw blades. Joiners, exhibition builders, metalworkers, kitchen installers, installers of electrical, sanitary and heating systems, carpenters and roofers, therefore, benefit from a wide range that saves both time and money. This is made possible by the optimized saw blade design: The kerfs are up to 30 percent thinner than on previous models, depending on the material and type of saw. Combined with an optimized tooth geometry, the saw blades cut through materials with greater ease and maximize the saw’s battery runtime. The new “Expert for” and “Standard for” range covers common cordless circular saws on the market and offers a wide range of applications. The circular saw blades particularly work efficiently when used with the new BiTurbo saws from Bosch: The GKS 18V-68 GC Professional cordless circular saw, GKT 18V-52 GC Professional cordless plunge saw and the GCM 18V-216 Professional cordless miter saw.

“Expert for” range with special coating and carbide technology

With the new “Expert for” circular saw blades, professionals can machine wood, laminated panels, aluminum, stainless steel and fiber cement. The special properties of the range include the “ProteQtion” coating: It prevents the saw blades from corroding and reduces friction to improve the cutting performance. The “Expert for Wood”, “Expert for Aluminium” and “Expert for Laminated Panel” circular

saw blades also have teeth that are made of “MicroteQ” carbide. This means they consist of extra-hard, durable metal grains that Bosch manufactures itself. The grain size of the carbide is important for the sharpness and wear resistance of the cutting edge, which is why Bosch uses fine to very fine grain sizes to give its circular saw blades high cut quality and a long lifetime. With its “Expert for Stainless Steel”, Bosch also offers a circular saw blade specially developed for the requirements of stainless steel: It has “ResisteQ” carbide teeth, which are made from extra-hard, particularly heat-resistant and low-wear metal grains, to extend the saw blade’s lifetime. For use in fiber cement panels, Bosch offers the “Expert for Fiber Cement” circular saw blade. Due to the abrasive properties of this material, polycrystalline diamonds (PCD), which are even harder than carbide and make the saw blade particularly durable, are used to manufacture the teeth.

“Standard for” range with carbide teeth for clean, precise cuts

Bosch covers a wide range of applications in different trades with the “Standard for Wood”, “Standard for Aluminium”, “Standard for Steel” and “Standard for Multi Material” circular saw blades for cordless saws. The saw blades with carbide teeth maximize the saw’s battery runtime and stand out thanks to clean and precise cuts in common materials.

The new “Expert for” and “Standard for” circular saw blades are available from September 2019. These are the recommended retail prices excluding VAT.

“Expert for” range	Diameter	Saw type	Recommended retail price excluding VAT/ piece
“Expert for Wood”	120 – 305 mm	Hand-held and plunge circular saws, miter saws, table saws, hand-guided metal dry cutters	€38.50 – 133.65
“Expert for Aluminium”	120 – 305 mm	Hand-held and plunge circular saws, miter saws, table saws, hand-guided metal dry cutters	€50.29 – 154.00
“Expert for Laminated Panel”	160 – 254 mm	Hand-held and plunge circular saws, table saws	€76.68 – 127.22
“Expert for Stainless Steel”	136 – 160 mm	Hand-guided metal dry cutters	€72.86 – 94.29
“Expert for Fiber Cement”	160 – 305 mm	Hand-held and plunge circular saws, miter saws	€81.71 – 193.50

“Standard for” range	Diameter	Saw type	Recommended retail price excluding VAT/ piece
“Standard for Wood”	85 – 305 mm	Hand-held and plunge circular saws, miter saws, table saws, hand-guided metal dry cutters	€22.14 – 89.53
“Standard for Aluminium”	136 – 305 mm	Hand-held and plunge circular saws, miter saws, table saws, hand-guided metal dry cutters	€47.90 – 107.10
“Standard for Steel”	136 – 173 mm	Hand-guided metal dry cutters	€43.43 – 57.14
“Standard for Multi Material”	85 mm	Hand-held circular saws	€31.69

Subject to change.

Press photos: #1844271, #1844272, #1844273, #1844274

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Print removal easier than ever: **New Dremel DigiLab 3D40 Flex** Particularly fast results for rapid prototyping

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- ▶ Particularly easy and safe removal of objects thanks to flexible build platform
- ▶ Faster printing of up to 30 percent in new “high speed mode”
- ▶ Improved print resolution

With the DigiLab 3D40 Flex, Dremel has made 3D printing even easier and more efficient – enabling printing novices and printing experts alike to realize creative ideas in a wide range of colors and shapes. The new simplified operating concept of the DigiLab 3D40 Flex incorporates a flexible metal build platform, which is particularly useful for newcomers and students in 3D printing. When printing for your own creative project or for a school project, for example, it is now much easier to remove your printed objects from the platform – without the need of any extra tools. Users of all ages and skill levels simply need to bend the plate – and they can hold their finished print object in their hands.

New features for increased efficiency and more precision

Another new feature is an additional print mode that offers increased efficiency when the priority is on maintaining continuous operation, for example, in classrooms or in rapid prototyping: In “high speed mode”, the machine prints up to 30 percent faster than the predecessor, the 3D40 Idea Builder – which saves valuable time. This is also particularly helpful if you want to create an object and first want to see a draft of it. At the same time, the Dremel DigiLab 3D40 Flex enables users working in education, industry or design to achieve maximum precision for complicated projects that require a high level of accuracy. Compared to its predecessor the print resolution has improved significantly from 100 to 50 microns in the “ultra high resolution mode”. This means print results are even more precise and have a smoother surface, which is ideal for projects involving curves, diagonals, organic shapes or intricate details, such as engravings.

User-friendly for diverse 3D printing applications

The build platform of the Dremel DigiLab 3D40 Flex can print objects of up to 25.4 x 15.2 x 17.0 centimeters in size and is therefore suitable for a wider range of projects. Precise printing results are achieved by a semi-automatic two-point leveling system that is able to calibrate the print bed quickly and accurately. The DigiLab 3D40 Flex features the integrated “Dremel DigiLab 3D Slicer” software as well as a color touchscreen, allowing users to conveniently and intuitively adjust the print file – and guiding them effortlessly from their initial idea to the finished object. It also maintains an overview of the print status at all times.

Cleaner, quieter printing

The build chamber of the DigiLab 3D40 Flex is safeguarded by a pair of transparent doors that keep out sources of contamination such as dust while printing is in progress. They also offer a good view over the work piece and dampen the noise generated by the fan regulating the temperature inside the machine. The DigiLab 3D40 Flex uses PLA, an eco-friendly plant based plastic. Filaments are available in eleven different colors – white, black, red, orange, purple, blue, green, silver, gold, translucent white and pink too.

The Dremel DigiLab 3D40 Flex will be available from March 2019 onwards. All prices are recommended retail prices including VAT. For more information, please visit www.dremeleurope.com.

Specifications	Dremel DigiLab 3D40 Flex
Maximum resolution	50-340 µm (0.05 – 0.34 mm)
Maximum print size (length x width x height)	25.4 x 15.2 x 17.0 cm
Data transfer	USB, Wi-Fi, Ethernet
Software	Dremel DigiLab 3D Slicer
Dimensions (length x width x height)	40 x 51.5 x 40.6 cm
Weight (excluding filament)	16 kg
Scope of delivery/recommended retail price including VAT	<ul style="list-style-type: none">• Printer, white PLA filament, flexible build platform, USB cable, USB stick, “Dremel DigiLab 3D Slicer” software, cleaning pin, spatula, flexible build tape: €1299 Accessories: <ul style="list-style-type: none">• Flexible build tapes: € 21.99• PLA filament: €29.99

Subject to change.

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Dremel is one of the leading providers of precision power tools for do-it-yourself experts and hobbyists. The brand aims to combine innovative tool solutions, functionality and sophisticated design. Dremel was founded by Albert J. Dremel in Wisconsin, USA, in 1932. Today, the company is part of the global Bosch Group. The company's products are available in more than 90 countries. Dremel's European head office is located in Breda, in the Netherlands.

Their product range includes compact tool systems (e.g. compact saws and glue guns), benchtop tool systems (e.g. scroll saws) and rotary tool systems (multitools). A wide range of accessories and attachments can be ordered to further enhance the versatility of the tools. The innovative 3D technology used in the Dremel 3D Idea Builders is another valuable addition to the product range.

For more information, please visit www.dremel.com or www.dremeleurope.com