

FESTOOL

MAGAZINE.

#12

THE ISSUE FOR PAINTERS

AUTUMN 2023



TRADITION AND MODERNITY

FAMILY BUSINESSES AND PRODUCT
FAMILIES THROUGH THE AGES.

FAMILY BUSINESS

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EDITORIAL

Dear readers,

In family businesses, more than anywhere else, there is a close connection between tradition and modernity. We have experienced this first hand time and again during customer visits – most recently, and for this issue of the magazine, on our visit to **Maler-Meister-Müller & Sohn GmbH** in Oberlungwitz, Saxony. Founded in the former GDR, the third generation is now at the helm and has just set course for the future with an impressive, modern new building.

Our product families too, which we are continuously further developing based on our DNA, demonstrate how inherent strengths can be maintained while also being developed from generation to generation. We do this with the aim of ensuring that the next generation is always the best. This motivation culminates in truly ground-breaking products, such as our brand new **ExoActive exoskeleton** that actively grips you under the arms to take the effort out of working on walls and ceilings. We also want to introduce our new **PLANEX M**, which will enhance our range of long-reach sanders in future.

The fact that we count on innovative technologies and **customised cordless solutions** – that too runs in the family. By tradition and for your future! We hope you enjoy reading our magazine. Be inspired!

Kind regards

A handwritten signature in white ink, appearing to be 'RK', written in a cursive style.

René Kruk
Managing Director of Festool Germany GmbH

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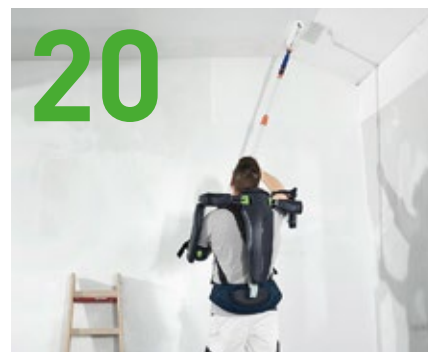
Tool tip

CT-F I/M-SET

Communicate with the mobile dust extractor via the **Bluetooth®*** remote control.

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*Please note that the Bluetooth® function is not available in every country.



FAMILY BUSINESS

From generation to generation, families of craftspeople nurture tradition and manage to continuously reinvent themselves. We at Festool, now as before a family-run company, support them with this – and learn from them. So that you are always one step ahead of the changing times.

Text: **Ralf Christofori** | Photography: **Torben Jäger, Thomas Baumann**



↑ One family business, three generations (from left to right): Markus, Jan, Jonas and Reinhard Müller.

1. Healthy family businesses.

Family businesses create values that are hard to quantify, but cannot be valued enough.

Relevance is not a question of size. Whether large or small – family businesses are a supporting pillar of all national economies. They make up about 60 per cent of all companies in Europe. It would be impossible to determine their value creation in each industry. But this much is true: In trades, family businesses create long-lasting and sustainable tangible and intangible values.

Of course, the changing times are not a sure-fire success. Especially not in the painting trade. Something has to be done to ensure that there is something in it for the next generation. How do you pass on tradition – and how much of it? Which new

resources, materials or process technologies should be embraced? And last but not least: Which products and product families are worth acquiring in order for daily work to become better and more efficient with each generation?

Jan Müller, owner of Maler-Meister-Müller & Sohn GmbH in Oberlungwitz, Saxony, has been grappling with these questions for decades. Together with his father, who started working as a self-employed painter in the former GDR in 1966, he has guided the business into the 21st century. Over the past ten years, his two sons, Markus and Jonas, have also joined the business. In 2020, they invested in a simply amazing new building, for the family and the future of the company. You can read the whole story of this family business on page 28.

Family businesses make up **an average of 40-50%** of all jobs in the private sector in Europe.



40-50



Craft has always been family-oriented: **Over 75%** of all businesses are family businesses.

"MY FATHER STARTED SMALL 57 YEARS AGO. IN THE MEANTIME, MY TWO SONS AND I ARE RUNNING THE BUSINESS. THREE YEARS AGO, WE INVESTED A SIGNIFICANT SUM IN A NEW WORKSHOP - FOR THE FAMILY AND THE FUTURE OF THE COMPANY."

Jan Müller

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In Germany alone, **around 1 million** businesses count as craft businesses.

1000000





**“HOW CAN OR MUST FAMILY
BUSINESSES SET THEMSELVES
APART? THROUGH QUALIFICATION
AND SPECIALISATION.”**

Dino Frey



**“IT’S NOT JUST IN THE
PAINTING TRADE THAT PROPER
TRAINING IS REQUIRED TODAY, IN
ORDER TO PROVIDE CUSTOMERS
WITH EXPERT ADVICE.”**

Klaus Stöhr

2. Quality craft.

Klaus Stöhr and Dino Frey speak about the strengths of the painting trade, the advantages of family businesses and their future.

FM: You have both been working in the painting business for a long time. Have any personal experiences in or with family businesses made an impact on you?

KS: I come from a family of masons, but I decided early on that I wanted to learn the painting trade – something I proceeded to do in a small family business. It was pretty patriarchal, but also very personal. We were certainly closely involved in the business activities.

DF: My father was a second generation master tiler. But I chose to enter the painting trade and also did my apprenticeship in a family business. We were really treated like part of the family there, but were therefore also expected to go the extra mile. All things considered, I benefited enormously from the fact that the apprenticeship was so varied.

FM: What makes family businesses different?

KS: At the vocational school for painters, we did a great deal of work with apprentices and trainee masters from family businesses. They usually have plenty to contribute and are very motivated. In my master class, I currently have a young man from a family business, who studied architecture after his painter's apprenticeship. Now he's studying to become a master painter. His objective: He wants to offer energy-based renovation concepts in his own business in future.

DF: I think that's a very good example of how family businesses can, and perhaps even have to, set themselves apart: through qualification and specialisation. Family businesses are not usually large, and so they can barely survive the competition based on size alone. That's why a specialisation in high-quality paintwork and creative surface techniques is significantly more promising.

FM: Does that mean that family businesses should rely on their inherent strengths?

DF: Yes, definitely. But we must also mention the very different qualities that can make a business strong: knowledge and experience as the basis for expert advice; expertise and care in execution; competence in handling tools. Not to mention the fact that new recipes for paints, fillers or grouts seem to be launched on the market almost every week. It's not always easy to keep up with the times.

KS: I think the same is true regarding the strengths of the painting trade. Our task is to teach in-depth knowledge of materials and techniques that are already centuries old, as well as modern methods and approaches. In the end, it's about training young painters and master painters so that they can put their skills to use as profitably as possible.

FM: That sounds extremely optimistic. Does that mean things weren't always better in the good old days, but they sure were different?

KS: You could say that. Of course, requirements are changing, but so too are expectations. Junior employees have different ideas about their work and prefer quite new working time models. Customers in turn often find information on the internet for themselves, hear about new materials, hot design ideas, insulating materials, etc. It's not just in the painting trade that proper training is required today, in order to provide customers with expert advice. That's to say, in addition to qualification and specialisation, family businesses can claim their spot in the competition by providing outstanding advice.

DF: Absolutely. But it's still worth remembering how much the further development of tools has contributed to making work today so much easier and more convenient, higher quality and more efficient. In some cases, there are whole worlds between the generations of our product families. Not because the tools were bad in their time, but because the technical possibilities are so different today. It doesn't matter if the tasks are simple or if they are energy-based renovations or high-quality surface techniques – with our tools, the focus is always that the craftsperson achieves outstanding results as efficiently as possible.



DINO FREY

Over the years, the expert painter has trained countless painters in how to handle tools from Festool. In the meantime, he is employed in the company as an applications expert.



KLAUS STÖHR

Since 2009, the qualified painter and master decorator as well as restorer has been a senior technical teacher, supporting various training courses and master classes at the vocational college for painters in Lahr.

3. Constantly improving.

Our product families grow from generation to generation. And the next generation is always the best.

For us, customers are part of the extended Festool family. This has always been the case, and is perhaps true today more than ever before. When it comes to developing new products or product families, we work for you and with you. As we move towards a market launch, the differentiated and honest assessment of selected test businesses is invaluable. After all: if our customers are happy, then we're happy too.

Of course, this can also be expressed in figures – in technical data and performance records. But the crucial thing is what you want to do, what result you have in mind and how you want to achieve it. That's why we do everything we can to ensure that, with our tools, you can achieve the result you need. And it's also why it's important to us that the system provides you with everything that will make your work easier – not to mention the many clever ideas that cannot be found elsewhere.

The fact that our product family is becoming increasingly digital is a sign of the changing times. But digitalisation is only relevant for us if it creates added value for you. Using the Festool Work App*, for example, you can dim the LED light ring on the PLANEX LHS 2 225 and use other additional functions. Application tips and tutorials on device operation help you if you get stuck with your work. With the Festool Order App*, you can order missing accessories or consumables directly from the construction site. It couldn't be simpler or more convenient.

Saying that the next generation is always the best is therefore not just an empty promise. Because, from generation to generation, our products and product families grow in terms of their tasks and open up unimagined possibilities in terms of new technologies. For us and our customers. For you and your customers.

*The Festool Apps and the ExoActive are not available in every country. Please contact your local dealer for further information.

“THE CONTINUOUS FURTHER DEVELOPMENT OF CORDLESS TOOLS HELPS US ENORMOUSLY. THE FACT THAT THE CORDLESS SANDERS AND CORDLESS EXTRACTORS ARE BOTH AVAILABLE IN SYSTAINER FORMAT AT FESTOOL IS SIMPLY BRILLIANT.”

Jonas Müller

↓ The AGC 18 cordless angle grinder contains powerful technology that lets sparks fly – uncompromising and cordless.





↑ With the CTC SYS cordless extractor, Jonas Müller from Maler-Meister-Müller & Sohn GmbH in Obertungwitz can keep things clean wherever he goes, even on scaffolding.

← The new Festool ExoActive* exoskeleton doesn't just look futuristic, it's also a milestone for current and future generations of painters.



BATTERY POWER. Few developments have shaped our product generations so much in the last few decades as battery technology. You can find out more about Festool's journey towards battery power from page 52 of this magazine or online via this QR code:



Scan the QR code and experience the battery power of Festool.





It's no secret that our long-reach sanders are long. And now there are three of them. Between the PLANEX easy LHS-E and the fully equipped PLANEX LHS 2, there's a new PLANEX LHS 2-M – the all-rounder with unique qualities!

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Text: **Melissa Berger**

Photography: **Thomas Baumann, Torben Jäger**

Our PLANEX long-reach sanders have been right at the top of the popularity scale for many years. Why? Because they produce quick results, even when sanding large areas. With minimal effort, both for coarse sanding and fine sanding, the result is more than impressive. If you set store by having the full equipment including LED light ring, choose the PLANEX LHS 2 225, which already makes many craftspeople happy. On the other hand, the PLANEX easy is top choice for anyone who wants effective work progress with high material removal capacity.

What else do you need? Perhaps another long-reach sander somewhere in between? Exactly right! And it's worth taking a closer look at it.



The all-rounder

News from the
PLANEX family.

Since autumn, the PLANEX M has been the new addition to our family of long-reach sanders. As an all-rounder, it is just as effective at sanding walls and ceilings in dry mortarless construction as when fine sanding smooth surfaces. The eccentric sanding motion ensures high-quality and scratch-free surface qualities. In combination with the perfectly coordinated sanding system and the GRANAT abrasive, surfaces with quality levels Q3 and Q4 can be achieved effortlessly.

Simple, effortless and neat sanding

Measuring 1.4 m, the PLANEX M is the optimum working length for standard room heights. What's more, the practical T-shaped handle even provides additional reach. And best of all: The adjustable suction power, which has already been well received on the PLANEX LHS 2 225, is also available on the PLANEX M to relieve the strain on arms and back. In addition to the convenient suction support, the dust extraction also plays a key role. Because efficient dust extraction is indispensable, especially during full-surface sanding work that releases significant quantities of dust. That's where our CTM 36 E AC-PLANEX mobile dust extractor comes in.

All that and more makes the new PLANEX M a long-reach sander with quite unique qualities. And it looks like it too will soon be at the top end of the popularity scale.



PLANEX LHS 2-M

THE NEW PLANEX M LONG-REACH SANDER

- › **Eccentric motion for a perfect surface finish.** Its eccentric sanding motion achieves a high-quality, scratch-free surface.
- › **Suction for minimal effort.** The adjustable suction power means that the PLANEX M holds its own weight against the wall and ceiling – reducing the strain on your arms and back during all sanding tasks.
- › **Ideal length and reach.** Measuring 1.4 m, the PLANEX M is the optimum working length for standard room heights. What's more, the practical T-shaped handle provides additional reach.
- › **Easy to transport and operate.** With the carry bag, you can take it to the construction site without a fuss – simply unpack, switch on and get started. The PLANEX M is ready for use straight away.

FIND OUT MORE

For everything you need to know about the new PLANEX LHS 2-M 225 and our entire range of long-reach sanders, go to our website:

› [festool.com/@577354](https://www.festool.com/@577354)

↖ **During short breaks from work or when setting up, you can simply place the PLANEX M on the tool holder.**

↗ **Thanks to the eccentric sanding motion you can achieve high-quality, scratch-free surfaces with the new PLANEX M.**

→ **The suction effect can be adjusted infinitely variably, depending on whether you are sanding a wall or the ceiling.**



Our PLANEX family. Your choice.

You decide which suits you best.

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PLANEX LHS-E 225
Entry level

- 1.65 m Fixed length
- Bag Transportation
- Rotating Sanding motion
- EC-TEC Brushless motor



PLANEX LHS 2-M 225
All-rounder

- 1.4 m Fixed length
- Bag Transportation
- Eccentric Sanding motion
- Adjustable Suction
- EC-TEC Brushless motor



PLANEX LHS 2 225
Premium

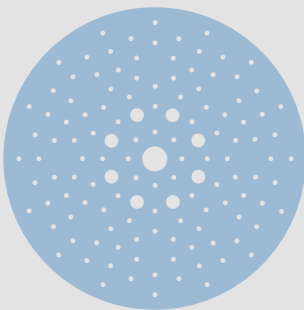
- 1.2 / 1.65 / 2.1 m Modular length
- Systainer Transportation
- Eccentric Sanding motion
- Adjustable Suction
- EC-TEC Brushless motor
- LED light ring Surface control light



Here is another overview of all PLANEX long-reach sanders.

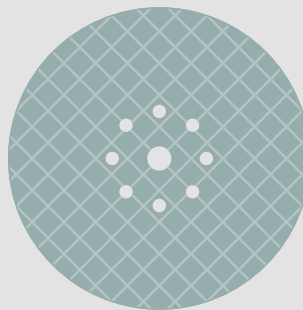
Your PLANEX. Our abrasives.

With GRANAT, sanding is an all-round success.



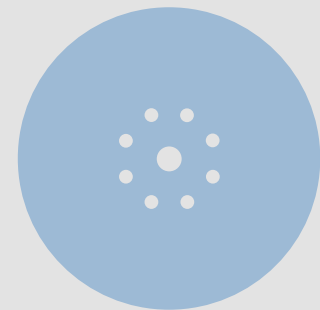
GRANAT

The GRANAT premium abrasive is the absolute top product for all PLANEX long-reach sanders. The perforation guarantees optimal suction and extraction with the PLANEX LHS 2 225 and LHS 2-M 225.



GRANAT NET

The GRANAT NET abrasive mesh is the perfect solution for machining materials that produce a large quantity of dust. Especially well-suited to the PLANEX easy; with the PLANEX LHS 2 225 and LHS 2-M 225, the suction function is limited by the network structure.



GRANAT SOFT

When used together with the PLANEX easy long-reach sander, the GRANAT SOFT abrasive is a particularly attractive choice due to its cost-effective and consistent sanding, especially when processing extremely soft ready-made fillers.

PLANEX accessories. Systems sand better.

Effective dust extraction is indispensable during coarse and fine sanding over large areas using the PLANEX long-reach sander. The abrasive Systainer keeps things tidy and, if you want, you can even use the PLANEX system without mains power. There are also many clever accessories that make working with the long-reach sander even easier.

SUPER SOFT SANDING



The ultra-soft Interface Pad SW damps the application pressure when sanding very soft substrates. Not suitable for the PLANEX easy.

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CUSTOM-FIT SORTING



You can fill the abrasives Systainer SYS-STF-D225 with new, used or reusable abrasives as desired and sort them optimally.

CORDLESS WORKING



The SYS-PowerStation* has so much "juice" that you can sand an area of more than 200 m² with the PLANEX long-reach sander and a mobile dust extractor.

EFFICIENT EXTRACTION



When combined with the CTM 36 E AC-PLANEX mobile dust extractor, our long-reach sanders create the perfect team. During short breaks from work or when setting up, you can simply place the PLANEX on the WHR-CT LHS 2 tool holder.

SECURE CONNECTION



The KV-215/5 hook-and-loop fastener serves to attach the cable to the suction hose so that you can be safe while working dust-free.

FESTOOL WORK APP



With the Work App**, you can dim the LED light ring on the PLANEX LHS 2 225 individually, or call up tutorials and application tips.

*The SYS-PowerStation is not available in every country. Please contact your local dealer for further information.
**The Festool Apps are not available in every country. Please contact your local dealer for further information.

Filling and sanding in dry mortarless construction

If you ask a painter how to achieve a clean drywall and what materials and tools to use for the best result, there's really only one serious answer: it depends! We have tried to shed a little light on this topic.

In dry mortarless construction, filling and sanding are standard procedures. That said, when you look at everything involved in achieving a clean and perfect surface, these tasks are anything but ordinary. It comes down to the details, bringing them together into a coordinated overall package. After all, fillers from different manufacturers have different properties and should be worked on and sanded with the right tools.

FILLING

Dry mortarless construction involves gypsum boards with different types of edges. The most common are boards with half-rounded tapered longitudinal edges and bevelled cut edges. With supporting materials such as timber posts or derived timber boards, hygrothermal tension occurs in the substrate which can lead to the formation of cracks in the filling. To achieve a stable, long-lasting result in both cases, it is a good idea to use filler materials with especially high joint stability and to use reinforcing or joint tape strips.

FILLERS

- › **Filler putty** is specially designed for filling joints with joint tape.
- › With **joint filler**, plasterboard joints are filled without joint tape.
- › **Fine filler** is used to "finish" filler putty or joint filler; it forms the finished surface of the joint.

FILLER TYPES

- › **Gypsum-bonded fillers** are available as bagged goods in powder form. A compact crystal structure forms as it sets, and the filler achieves very high joint stability. **Application:** joint filling for plasterboard (Q1 and Q2) and full-surface filling with higher layer thicknesses.
- › **Plastic-based fillers** are available ready-mixed in buckets. They air dry. Depending on the product and application, the filler needs to be stirred before use. **Application:** full-surface filling of plasterboard (Q3 and Q4), thin reworking of old plaster or concrete surfaces.

Filling trowel

A wide filling trowel is best for achieving even surfaces. The flatter the trowel is held, the less material is removed.

Joint tape

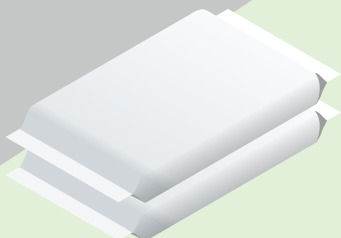
Joint tape or reinforcing strips reinforce the joint filler and prevent the formation of cracks.

Smoothing trowel

The longer the handle, the better. It prevents the trowel from bending and creating an indentation over the joint.

Pointing trowel

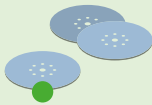
Pointing trowel with stainless steel blade for pressing filler into the joint.





Sanding with light ring

The PLANEX LHS 2 225 long-reach sander is perfect for full-surface and flat sanding. The LED light on the sanding head highlights the quality of the sanding result even during sanding.



Abrasives

The rule of thumb for choosing the right abrasive is **the softer the filler, the finer the grit**. The ideal abrasives for all fillers are GRANAT and GRANAT NET.



Sanding with surface control light

For work with the new PLANEX LHS 2-M 225 long-reach sander, we recommend the STL 450 surface control light. This means you can check the surface quality even during the work process.

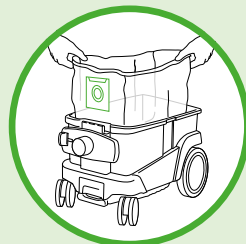
SANDING

If you know the material and have mastered the technique, you can achieve any surface quality. It takes time, attention to detail and the perfect tool. Especially when working with drywall. After the filler has hardened and dried, unevenness and grooves at the joints and edges are sanded out – on Q4 surfaces, even the full-surface filler. The members of our PLANEX family achieve optimal sanding results on the full surface.



SUCTION

The PLANEX suction support makes your work easier but also influences the sanding result. Depending on whether you are sanding a wall or a ceiling, you should adjust the level of suction at the sanding head.



DUST EXTRACTION

When choosing a mobile dust extractor, the filter system is just as important as the dust class. For coarse or fine sanding of large areas of mineral plaster using our long-reach sanders, we recommend an extractor for dust class M as well as an open system with AUTOCLEAN (AC) filter cleaning and the plastic disposal bag.



EXO ACTIVE

Heavy overhead work shouldn't be taken lightly. Our new ExoActive* exoskeleton actively supports you. It takes the load off your neck and even gives you an extra boost of power when your arms get tired.

Text: **Ralf Christofori** | Photography: **Thomas Baumann, Torben Jäger**

Extra boost of power.

The first active exoskeleton from Festool.

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If you consider physical labour in terms of the body, then muscle power and a robust, agile skeleton are what's really needed. Making physical labour easier through the use of exoskeletons is nothing new. Generally, as the name suggests, they relieve the strain on the skeleton. But an exoskeleton with muscle power, one that not only relieves strain during physical labour but also actively supports you – that would be revolutionary, wouldn't it? It certainly would! And it's now here in form of the brand new ExoActive* active exoskeleton.

Ideal support during tiring work

What can the new ExoActive* do? It actively supports the craftsperson under the arms to take the effort out of working on walls and ceilings. The active system gives you an extra power boost when your arms get tired and also takes the load off your neck. This makes light work of strenuous overhead tasks. The ExoActive reduces the load on the front of your shoulder muscles by up to 30%** . This means that work feels up to one third easier. That's much more than just a positive side effect: It conserves your energy, reduces fatigue, enables you to work more efficiently and helps you avoid strain in the long term.

Maximum freedom of movement and comfortable to wear

Is the exoskeleton restrictive during work? Quite the opposite. The ExoActive* offers maximum freedom of movement while also being extremely comfortable to wear. It is lightweight and easy to wear, just like a rucksack, and can also be adjusted quickly to your individual height. Whether you are bending, stooping or stretching, making fast or unloading movements – you won't notice anything other than the supportive power of the exoskeleton. And the level of support is also individually adjustable. The exoskeleton has three predefined working areas for effortless control: From the waist up, from the chest up or overhead. The handy control also allows you to select the level of additional power the active exoskeleton should provide.

**FOR OVERHEAD WORK,
THE EXOACTIVE* PROVIDES
PARTICULARLY VALUABLE
SUPPORT. IT MAKES YOUR
WORK LESS STRENUOUS,
MORE EFFICIENT AND HELPS
YOU AVOID STRAIN IN THE
LONG TERM.**

→ The ExoActive* also actively supports you whether you are working on a ceiling or on something overhead with a tool.

↓ The ExoActive* is extremely easy to transport and the robust packaging protects it and can also be used as a raised storage area.



*The ExoActive is not available in every country. Please contact your local dealer for further information.
** This data was obtained by means of application tests and may vary if conditions differ.



Conserves your energy.

That's the amazing support you get from the ExoActive*.

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Maximum flexibility and mobility

Whether you're picking up a screw, mixing paint or getting tools from your vehicle, the ExoActive* exoskeleton offers maximum freedom of movement and is very comfortable to wear.



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Light as a feather with support

With an additional force of up to 50 N, the ExoActive* provides support under both arms – equal to approx. 5 kg. By way of comparison, the PLANEX LHS 2 225 EQI long-reach sander weighs 4.7 kg, so it feels almost as light as a feather.



Full power with battery power

The ExoActive is powered by an 18 V battery: Full reliability, fast recharging. So you're fully independent.

*The ExoActive is not available in every country. Please contact your local dealer for further information.

**The Festool Apps are not available in every country. Please contact your local dealer for further information.



Safely packaged and easy to transport
The ExoActive* is supplied along with all accessories in robust packaging that, in addition to protecting the product, also functions as a raised storage area. This way, you can easily adjust the exoskeleton to your height.

Active support – easy to control
Depending on the application, you can choose from three work areas and can adjust the support power in five stages by turning the power control. The Festool Work App** can also be used to select additional profiles for optimal support.



Comfortable and easy to clean
The armrests of the ExoActive are upholstered and all fabric and strap parts are removable and washable. Users can be provided with their own strap system, so that the ExoActive can be worn by different people.

Easy to put on and close-fitting
The ExoActive* is worn comfortably like a rucksack and has various adjustment options so it can be adapted to your individual height. There are no components getting in your way, no restrictive straps.



Scan the QR code and experience the new ExoActive* active exoskeleton in action.



**“I’M AMAZED AT HOW
COMFORTABLE THE
EXOSKELETON IS TO WEAR.
IT REALLY MAKES EVERY
MOVEMENT WITH YOU AND
THE ACTIVE SUPPORT IS
CLEARLY NOTICEABLE.”**

Jan Müller, Owner of Maler-Meister-Müller & Sohn GmbH,
Oberlungwitz, Germany

Reduces strain.

Relaxed job
in any position.

The ExoActive* doesn't just look futuristic, it could actually revolutionise the future of work. From dry mortarless construction to painting, wallpapering to installation, on walls or ceilings – the active exoskeleton provides optimal support and strain relief. Whether you're picking up a screw, mixing paint or getting tools from your vehicle – the ExoActive* can adjust to any work situation in no time at all.

Active support = less physical strain

"Once you know first hand what it's like to work supported by an active exoskeleton, you won't want to work on a wall or ceiling without our ExoActive* ever again," gushes Festool product manager Dominic Ender. Because active support means less physical strain. And less physical strain means greater effectiveness, greater focus on the quality of your work and greater enjoyment of your work. So the ExoActive* ultimately actively contributes to avoiding strain in the long term. Our test customers, who have put the exoskeleton through its paces even before it was launched on the market, are impressed. And now you can look forward to it too!



UNCOMPROMISING PERFORMANCE

The ExoActive* is powered by an 18 V battery. And if you register up to 30 days after purchase, all battery packs and chargers are fully covered by our Warranty all-inclusive**. Full repair** is completely free for the first three years – both for tools and for battery packs and chargers. See page 59 for terms and conditions, explanations and additional information.

*The ExoActive is not available in every country. Please contact your local dealer for further information.
**Please note that the service offer may differ according to country and dealer.



EXOACTIVE

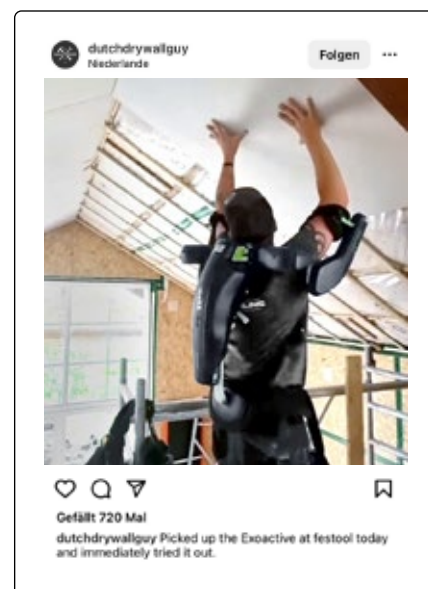
ACTIVE EXOSKELETON WITH 18 V BATTERY POWER

- › **Makes it easy for you.** Our active exoskeleton with its powerful 18 V battery provides an extra power boost to give you the exact support you need during tiring overhead work.
 - › **Targeted support.** The ExoActive* gives you targeted support precisely where it's needed. You can set where you would like support and the level in a matter of seconds.
 - › **Fits like a glove.** The ExoActive is as easy to put on as a rucksack, can be individually adapted to your height and its ergonomics perfectly tailored to you.
- › [festool.com/@577339](https://www.festool.com/@577339)

#festoolme

Follow us on Instagram.

 [instagram.com/festool](https://www.instagram.com/festool)



M³

The Müllers are true masters among painters. But M³ could also stand for the three generations that have successfully established and expanded the business in Oberlungwitz, Saxony. They maintain tradition yet have an impressively modern set-up.

Text: **Ralf Christofori** | Photography: **Torben Jäger, Felix Meyer**



OBERLUNGWITZ
50° 47' N | 12° 43' E

30

We have long been looking forward to this visit to Oberlungwitz in Saxony. But we were never quite sure what awaits us. It was only after the event that we heard on the radio that the Motorcycle Grand Prix was held here a few days ago on the legendary Sachsenring, attracting more than 230,000 visitors. And when we arrive at the Müller painting company, we can't help but be amazed: A modern company building with spacious halls, completed just two years ago; an office wing on the top level; a meeting room for consultations, and a kitchen area at the back with a large table, big enough for the family and perhaps even the whole company.

A painting company backed by an entire family

It is more than impressive that the Müllers were able to take on this most recent investment by themselves. And it is genuinely supported by the entire family: Owner Jan Müller and his wife Kerstin; their son Markus, who did his apprenticeship in the company and became a skilled master in 2014; their younger son Jonas, who joined in 2020 after studying construction management. Maria, the daughter-in-law, also works in the office, with the latest addition to the family playing with a toy drill at her feet. But without the oldest member of the family council, the company probably wouldn't exist at all. Back in 1966, in his mid-twenties, Reinhard Müller started working as a self-employed master painter in the former GDR. Headstrong and not quite in tune with the customs of the workers' and peasants' state, he forged ahead. "It was anything but easy," he recalls, "because if you worked for yourself, you were treated with suspicion and had to fight against all conceivable obstacles in the socialist society."

From self-employment to a family business

Nonetheless, his son Jan followed the same path, achieving his master craftsman's diploma in 1987 and also opting for self-employment. In 1991, after reunification, the two businesses joined forces. But in the new federal states, things were far from flourishing. "Most publicly-owned businesses were closed then and many people lost their jobs. In other words, there was no chance of orders from the business world and private households couldn't afford to employ craftspeople." In 2002, through contact with a construction firm from Schwandorf in Bavaria, the opportunity opened up to establish a second site there. "We took this opportunity to compensate for the difficult order situation here in the region," explains Jan Müller.

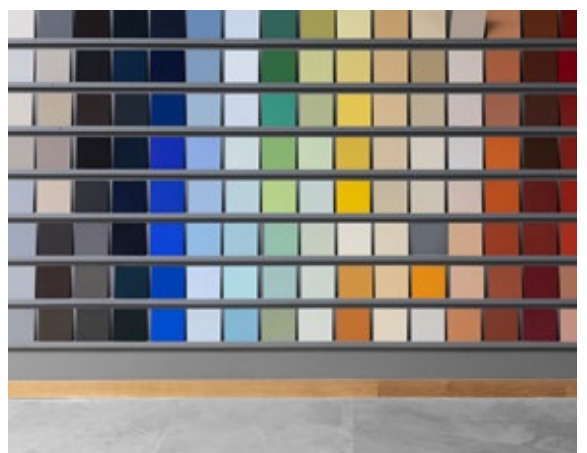
"WE TAKE QUALITY VERY SERIOUSLY. THAT'S WHY WE ONLY WORK WITH TOP-CLASS PRODUCTS FROM RECOGNISED MATERIAL AND TOOL MANUFACTURERS."

Jan Müller

→ Owner Jan Müller is the second generation to manage the painting company. He has every reason to look optimistically to the future.

↓ Two years ago, Maler-Meister-Müller & Sohn GmbH moved into its new company building in Oberlungwitz.







↑ Markus Müller performing detailed work in a two-storey detached house in Chemnitz.

← Curiosity drives Jan Müller to try out the new Festool active exoskeleton on the construction site.

→ At a new-build villa in the neighbouring town, the Müllers provided high-quality surfaces in the interior spaces, seamless bathrooms and the façade coat.

“FOR US, IT IS IMPORTANT TO BE ABLE TO OFFER AS MANY PAINTING TECHNIQUES AND DESIGN OPTIONS AS POSSIBLE, AND TO IMPLEMENT THEM AT A HIGH LEVEL.”

Markus Müller

In the meantime, the company has made a name for itself in Oberlungwitz and beyond, thanks to their outstanding work. The variety of orders ranges from historical renovations and traditional clay plaster or lime filler techniques to modern metal and concrete looks and even professional façade insulation. "For us, it is important to be able to offer as many painting techniques and design options as possible, and to implement them at a high level," said Markus Müller.

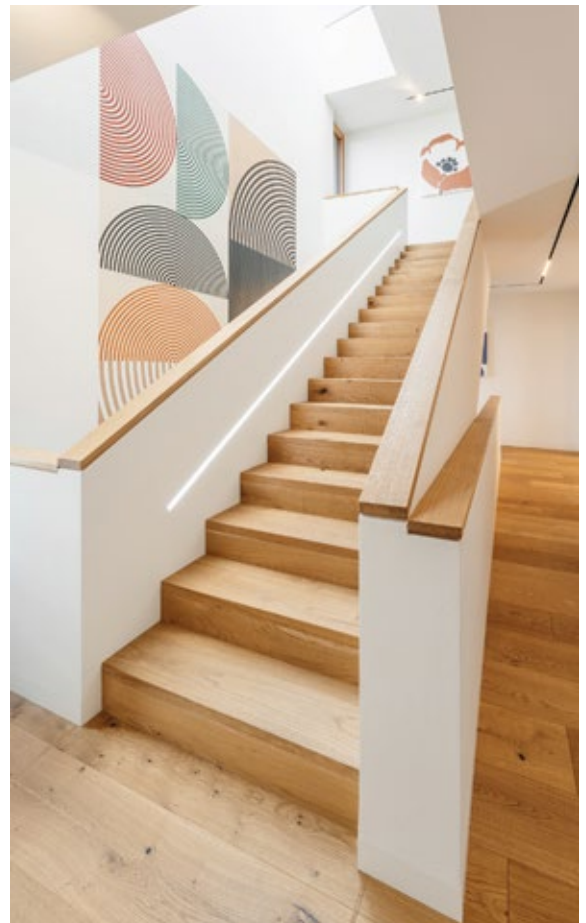
Quality in advice, planning and execution

The Müller master painters take high quality very seriously. But it also has to be worth it – for the business and for the customers. "In recent years, we have invested a lot in planning and consulting tools that we use at our two sites," says Markus Müller. "Then there are also the machines and tools that make our work easier and help us to achieve our quality promises more efficiently," adds Jonas Müller. They are all impressed by the Festool PLANEX LHS 2 225 long-reach sander with LED light ring, that the Müllers have now procured. Jonas Müller, who has perfected the technique of seamless coatings, prefers working with the Festool RS 1 orbital sander, which already has 30 years under its belt.

Moving into the future with the next generation of qualified employees

It seems that it's not just the machines that become increasingly valuable with age in this family business. The expertise gained over the years regarding what is technically possible and how to implement it, is simply priceless. "We have long-standing master craftspeople and foremen in the business who can be trusted with any job. That's worth its weight in gold. And they are also involved with the apprentices we train in the business," says Jan Müller. For the future, it is crucial to move with the times and pass knowledge on to the next generation of employees. It's quite possible that his grandson, Markus' son, will one day continue this wonderful family tradition. In its fourth generation.

For more impressive stories from the world of painting, see our blog:
» festool.com/blog



MALER-MEISTER-MÜLLER & SOHN GMBH

The painting company in Oberlungwitz currently has 15 employees. The company is managed by Jan Müller and his two sons Markus and Jonas. For years, the Müllers have relied on expertise in consultation and top quality in execution. In this way, the painting business has been able to establish itself not only in the region, but also at a second site in Schwandorf, Bavaria.

Welcome to the family.

Our CT extractors are part of the dust extractor family. And, as in any family, they all have their specific roles. Here, we introduce some of the members and their strengths.

34

CTC SYS

The cordless service extractor.

Our cordless extractor in Systainer format is like a little brother who loves to be carried on your shoulders. The CTC SYS doesn't mess around, but performs well even in small sanding and service jobs – whether on scaffolding or on a ladder.



CTC MINI & MIDI

The compact cordless extractor.

If you experience our CTC MINI & MIDI cordless extractors in action, you'll notice that they are really compact, manoeuvrable and always on the move. At the same time, they are also outstanding extractors.



HIGH-POWER BATTERY PACK

BP 18 LI 8.0 HP-ASI

Greater battery power and endurance

The new 8.0 Ah battery pack provides tremendous power and endurance and in doing so ensures a 60% longer running time than a 5.0 Ah standard battery pack – including in our CTC MINI & MIDI cordless extractors.

CT 15/25

Highly motivated cleaners.

Our two young cleaning extractors – with either 15 or 25 l tank volume – are happy to lend a helping hand when you want to leave your construction site or vehicles clean. They extract dust, dirt and even water.



CTM 36 E AC-PLANEX

High performer with dedusting.

The CTM 36 E AC-PLANEX is optimally designed for the high material removal capacity of our long-reach sanders. Thanks to the automatic filter cleaning AUTOCLEAN (AC), the extractor is particularly well-suited to fine mineral dust. It also has a ComfortClean sealing slide that allows for dedusting with maximum vacuum.



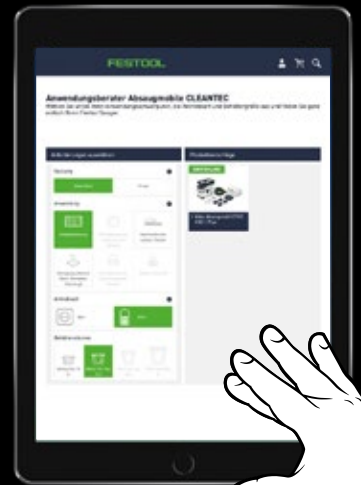
CT 26/36/48 E

A lot of volume in all sizes.

Top choice for extracting dust while sanding clear coats and paint – on the construction site with a 26 l tank volume or an impressive 48 l volume. The compact, high-performance turbine delivers 3,900 l/min volume flow so nothing is left behind but pure air.

Find the right extractor

Whether there is a lot of dust or just a little, whether it's dust in a workshop or dust from installation work, plaster, filler, paint or something else. We will help you find the right extractor for your purposes: with our online application consultant.



Scan the QR code and start the application consultant.

Clean and healthy work.

Dust in the workplace is a nuisance – and it poses health risks for you. Dust extraction systems are therefore not merely optional but essential. We have put together everything worth knowing for you.

36

DUST CONCENTRATION

There are maximum allowable concentrations for harmful dusts. These define the maximum concentration of dust in the air we breathe, at which no negative health effects would be expected during a 40-hour working week.

DUST CATEGORIES

Dust categories are crucial. They indicate the suitability of the extractor for the respective types of dust. And they define the required filtration efficiency of the corresponding filter systems.



Suitability: Non-hazardous, harmless dusts such as house dust, lime and soil.
Filter system filtration efficiency > 99%



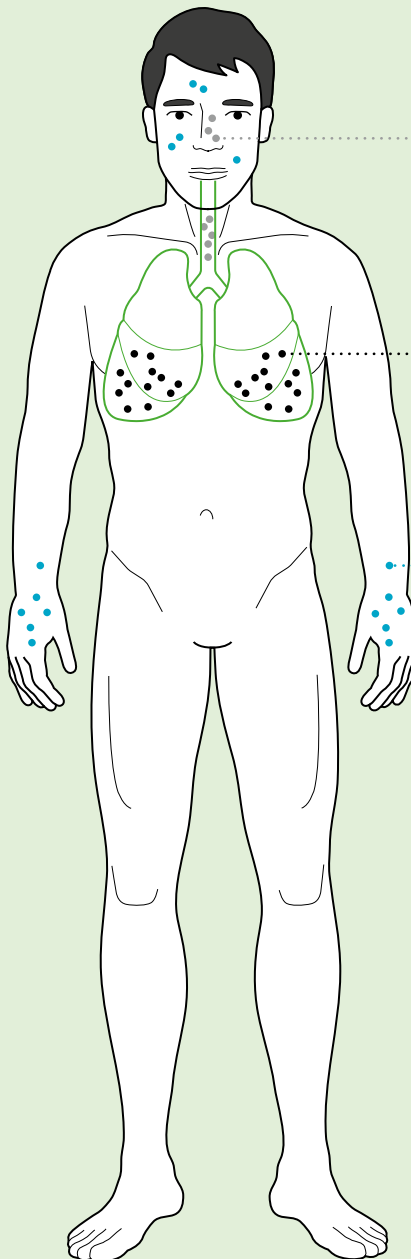
Suitability: Harmful dust such as all wood dust or dust from putty, filler, cement and paints and varnishes.
Filter system filtration efficiency > 99.9%



Suitability: For carcinogenic and pathogenic dust, such as asbestos and mould.
Filter system filtration efficiency > 99.995%

SYMPTOMS

- **Coarse dust particles** are generally caught by the nasal hairs or the mucous membranes of the nasopharyngeal space but can cause diseases and irritation there too.
- **Fine dust particles** which are inhaled can penetrate as far as the alveoli (air sacs) and cause serious diseases, such as asthma, chronic bronchitis or even cancer.
- **Harmful dusts** in the air can – depending on the pollutant content – also cause irritation or allergic reactions of the skin.



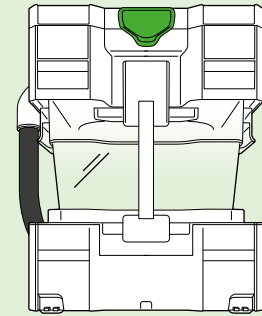
90%

Silicon

The concentration of crystalline silicon in current construction materials can be over 90 percent. The silicon oxide released during work on construction sites is one of the main causes of serious lung and respiratory diseases.

SYSTEMATIC DUST EXTRACTION

Whether you are in a workshop or on a construction site – Festool has the right extractor for every job site and every application. They are perfectly matched to your Festool tools, and when used as a system, your work becomes even more comfortable, safe and clean.



Pre-separator for large quantities of dust

The CT-VA pre-separator ensures a constantly high suction power when there are particularly large quantities of dust. Thanks to the cyclone technology, up to 80% of mineral dust is collected before it reaches the extractor (for models CT 26/36/48).

Wear a dust mask and safety glasses

In addition to direct dust extraction, it is a good idea to wear a dust mask when removing substrates that produce heavy dust or when working with materials that are especially harmful to health. Safety glasses protect your eyes from flying dust particles and chips.

Ensure connection is secure

Every weak point risks your health. Therefore, the hose with the correct diameter must be securely connected to the tool. The connecting sleeve connects the suction hose and power tool securely.

Use low-dust procedures

When mixing fillers with our MX stirrers, ensure that no dust clouds are formed. The effective MX dust extraction, which extracts the dust directly at the edge of the bucket, helps with this.

Vacuum dust

Clean your workspace regularly: vacuuming is much more effective and targeted than sweeping or blowing away dust or chips.

Choose a suitable dust extractor

In addition to the correct dust class, the filter system is also crucial: For fine, mineral dust, an extractor with dedusting and an open system should be used. So, the so-called AUTOCLEAN or AC extractor.



RASKASTA TYÖTÄ

BILLNÄS

60° 5' N | 23° 38' E

“Raskasta Työtä” is Finnish for hard work. For renovation professional Seppo Heinämaa, that’s everyday life. He takes us to Billnäs in the south of Finland and shows us what that means. Included: The new RG 130 ECI surface-restoration grinder.

Text: **Sara Sainio, Ann-Kathrin Krug, Ralf Christofori**
Photography: **Lilly Ekman**



Thick forest, red timber house, a river course in between. Although the village of Billnäs is just an hour away from the Finnish capital Helsinki by motorway, the journey feels like a trip back in time. The historical brick building where we meet Seppo Heinämaa was built in 1917. It originates from the heyday of the emerging steel industry, which has left its traces even in the idyllic village of Billnäs. The ironworks are long gone, but you can practically smell the hard work – not only from before, but also from the here and now. Because Seppo is in the process of renovating and refurbishing the inside of the former manor house.

Amazed, we are standing within the massive stone walls. “Renovating such an old building brings with it unique challenges”, explains Seppo. “As capillary moisture rises from the floor into the walls, the walls have been treated with a breathable loam rendering – exactly the way they would have been in the past.” A complete examination of architecture and supporting structure is the foundation of successful renovation work. The renovation professional is aware of that and has a huge amount of knowledge and experience at his disposal. With care, respect and the right tools, he gets to work.



↑ The SYS-PowerStation* performs well at work with the surface-restoration grinder RG 130 ECI even in tough cases.

→ Some material has to be removed from the old walls, and the extractor and pre-separator suck everything away.

Hard work with care and system

For Seppo Heinämaa, one thing is particularly important in his work: Care. His toughest opponent is a sense of rush, which is why he has to be able to completely rely not just on his own skills, but also on his tools when carrying out renovation work. When he picks up the new Festool RG 130 ECI surface-restoration grinder, he immediately has a good feeling about more than just reliability: "I noticed as soon as I gripped it in my hand that this is a high-quality and efficient machine," says Seppo. And he gets started preparing the floors for further processing. The aim is to smooth out unevennesses in the screed on the particularly large areas and remove adhesive residues with the surface-restoration grinder. In just a few hand movements, Seppo replaces the diamond disc in the grinder, in order to optimally process different materials. Everything that's removed ends up in the extraction system, comprising an extractor and a pre-separator.



*The SYS-PowerStation is not available in every country. Please contact your local dealer for further information.

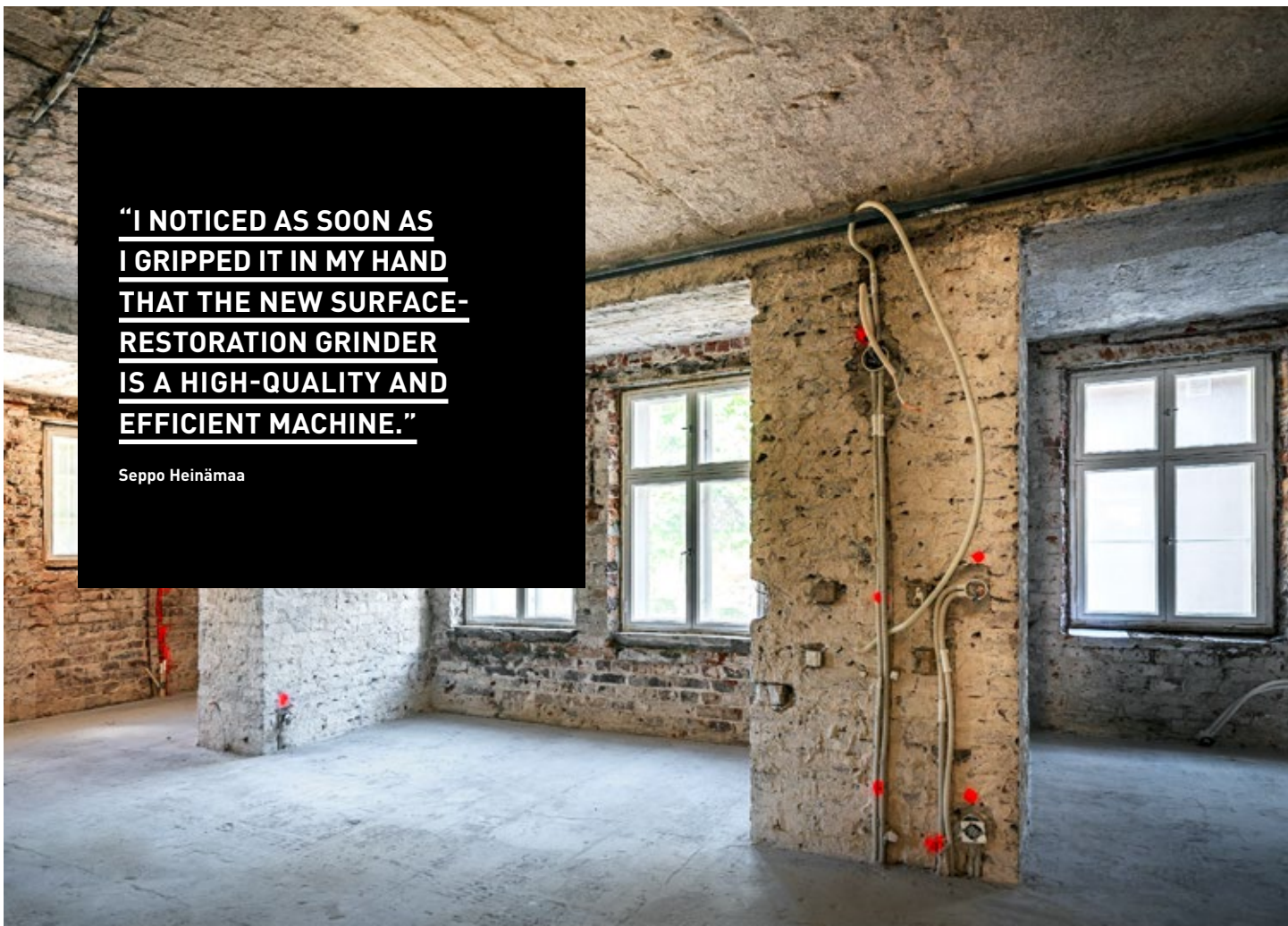
The RG 130 ECI surface-restoration grinder put to the test

“I was particularly pleased by how powerful the machine is, whilst at the same time allowing for flexible adjustment of the speed,” enthuses Seppo Heinämaa about the consistent power of the surface-restoration grinder, even in low speed ranges. The brushless EC-TEC motor, which protects against overheating, was particularly noticeable for him. “The motor is very powerful and I had no issues with overheating. I am very pleased that I didn’t have to allow the machine time to cool down; this would have meant an interruption in my work.”

The new RG 130 ECI surface-restoration grinder simply provides endless power. And the right diamond discs puts the power to use “on the road”, as our motor sport friends would say. It makes the process of removing material as quick as it is thorough even in tough cases. The extraction system is also optimally designed for renovation jobs in which particularly large quantities of dust are produced. “I like how well the pre-separator works – it stops the filter from clogging. The extractor is not just efficient, but also easy to operate thanks to the remote control on the suction hose”, says Seppo.



↑ Seppo Heinämaa is used to hard work. He is extremely demanding of his tools, but he can fully rely on them.



**“I NOTICED AS SOON AS
I GRIPPED IT IN MY HAND
THAT THE NEW SURFACE-
RESTORATION GRINDER
IS A HIGH-QUALITY AND
EFFICIENT MACHINE.”**

Seppo Heinämaa



Achieve the best results with heavy equipment

If there is a limited number of sockets, the SYS-PowerStation* provides additional flexibility. Seppo also likes to use cordless tools such as grinding machines, circular saws and stirrers for his varied tasks. "One thing is certain – I never go to work without my cordless screwdriver!", he laughs. And today is no different. At the end of the day, the surface-restoration grinder has performed its work with particular distinction. The first surfaces have been sanded and Seppo Heinämaa is visibly satisfied with the result, and still as convinced as before: The work must be carried out carefully in order to preserve historical buildings for the future generations. After all, Billnäs wasn't built in a day.

Discover more stories about extraordinary craftspeople and their projects at:
» [festool.com/blog](https://www.festool.com/blog)

RAKENNUSLIIKE HEINÄMAA

Founded in 1933 as a one-man enterprise, the company Rakennusliike Heinämaa has grown steadily ever since. The company now has 16 employees. Boss Seppo Heinämaa loves historical buildings and enthusiastically follows new developments in tool technology. This includes innovations from Festool.

RG 130 ECI



THE RENOFIX RG 130 ECI SURFACE-RESTORATION GRINDER

- › **Unlimited power.** The brushless EC-TEC motor of the RG 130 ECI performs impressively with outstanding, constant power without overheating. Having so much power allows you to achieve the perfect substrate in no time at all – effortlessly and without interruptions.
- › **Excellent service life.** An extremely robust, resilient gearbox and the highly efficient, brushless EC-TEC motor make the RG 130 ECI surface-restoration grinder extremely durable – with minimal downtime.
- › **Healthy working with a system.** In combination with the CTM 36 AC RENOFIX mobile dust extractor, the surface-restoration grinder guarantees low dust levels while working. The CT-VA pre-separator is the ideal addition for particularly large dust volumes.

FIND OUT MORE

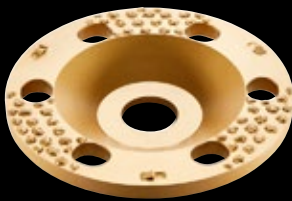
Find out everything there is to know about the new RENOFIX RG 130 ECI on our website:

› [festool.com/@577045](https://www.festool.com/@577045)

*The SYS-PowerStation is not available in every country. Please contact your local dealer for further information

For the best results. When processing stubborn substrates.

Whether you are working with concrete, screed, paint, adhesive or other coatings:
The new RG 130 ECI guarantees constantly high material removal capacity.
And with our different diamond discs, you can always tailor your work to the material.



DIA PAINT-D130 PREMIUM
For extensive removal of thick paint and clear coat on floorboards, wooden cladding and wooden doors.



DIA HARD-D130 PREMIUM
For milling off old solid concrete, epoxy resin from solid surfaces or coatings and paints from concrete.



DIA ABRASIVE-D130 PREMIUM
For milling off sand-based materials, screed, fresh concrete, adhesive on screed, sand-lime brick and porous concrete.



DIA STONE-D130 PREMIUM
For rapidly milling off very hard materials and solid concrete (harder than B 35).



DIA THERMO-D130 PREMIUM
For removing thermoelastic materials that spread due to the heat during sanding.



DIA HARD-D130-ST
For milling off old solid concrete, epoxy resin from solid surfaces or coatings and paints from concrete.



DIA ABRASIVE-D130-ST
For rapidly milling off abrasive materials with a high sand content on smaller surfaces.



Scan the QR code to find out which diamond disc is best suited to your application.

FESTOOL SPOTLIGHTS

Demanding painters must be able to rely on optimum tools in every day work. We asked five professionals about their favourite Festool products.

Text: **Melissa Berger** | Photography: **Torben Jäger, Thomas Baumann**



NADJA KÖRBEL

Nadja Körbel is a Festool applications expert. When it comes to precise floor laying work, there's nothing anyone can teach her.



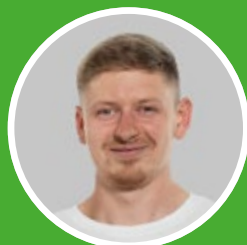
DINO FREY

Dino Frey is a painter through and through. As an applications expert at Festool, he knows exactly how to achieve the best results with the right tools.



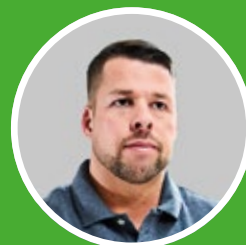
MARKUS MÜLLER

Markus Müller comes from a family of painters. Early on, the master painter learnt that it all comes down to having the right tools at work.



JONAS MÜLLER

Jonas Müller is only in his mid-twenties. He studied construction management and, since 2020, has kept his father's business Maler-Meister-Müller & Sohn GmbH running.



PHILIPP STAHL

Philipp Stahl completed his master painter diploma in 2008 and, since September 2017, has been working at Festool, now in the Training and Multiplier Training area.

If you've got one, you won't want to give it up again. Why? Because with the new SYMC 70 cordless compound mitre saw, interior and exterior angles can be sawn effortlessly and precisely. On rollers. And without a cable in sight.

"I'M IMPRESSED BY THE TIME SAVING AT EVERY WORK STEP: IT'S REALLY EASY TO ALIGN THE SAW AND THE MITRE; NO REWORK IS REQUIRED THANKS TO THE EXACT ANGLE TRANSFER."

Nadja Körbel, Festool applications expert

SYMC 70



45

THE NEW CORDLESS COMPOUND MITRE SAW

- › **One setting, one corner.** The symmetrical stop system enables you to effortlessly saw strips for interior and exterior angles with just one setting.
 - › **Greater flexibility means greater efficiency.** The rollers allow you to quickly and easily align the machine with yourself and the strips. This means that you can work comfortably with maximum efficiency even in small spaces.
 - › **Well-thought-out.** The simple operating concept, the LED spotlight and the improved extraction optimise the work process for you.
- › [festool.com/@577464](https://www.festool.com/@577464)



T-shape or C-shape? That's still a question of taste for professionals. Anyone who doesn't want to miss out on 18 V power even in the handy format will be impressed by the new CXS 18 and TXS 18 cordless compact screwdrivers.

“EVERYONE SHOULD HAVE THE CXS 18 TO HAND ON A JOB – IT IS SO LIGHT, COMPACT AND MANAGEABLE THAT YOU CAN EVEN CARRY IT ON YOUR TROUSERS.”

Dino Frey, Festool applications expert

CXS/TXS 18



THE COMPACT SCREWDRIVER WITH 18 V BATTERY POWER

- › **Compact and surprisingly powerful.** The compact CXS/TXS 18 cordless screwdrivers provide a full 18 V power output for easy drilling, screwdriving, angle drilling and angle screwdriving.
- › **Attachments for every application.** The 18 V compact screwdrivers are really flexible, and tool changes are quick and easy thanks to the CENTROTEC System and FastFix interface.
- › **Fully equipped.** With a magnetic bit holder, belt clip and switch-activated LED lighting that can also be controlled via the Work App* in combination with a Bluetooth® battery pack.
- › [festool.com/@576883](https://www.festool.com/@576883) (CXS 18) | » [festool.com/@576895](https://www.festool.com/@576895) (TXS 18)

*The Festool apps and the Bluetooth® function are not available in every country. Please contact your local dealer for further information.





**“WHETHER C-SHAPE OR
T-SHAPE - WITH THE CXS OR
TXC 12 IT DOESN'T MATTER.
THE TOOL CHANGE WITH THE
CENTROTEC TOOL CHUCK
COULDN'T BE FASTER.”**

Philipp Stahl
Festool Training and Multiplier Training

The new CXS 12 and TXS 12 cordless screwdrivers are the unsung heroes among the compact screwdrivers. Especially in tight spots and complicated corners, they prove to be sovereign problem solvers. Some would call it ingenious. We call it a reduced workload.

CXS/TXS 12



THE NEW COMPACT SCREWDRIVER WITH 12 V BATTERY POWER

- › **Powerful in the smallest of spaces.** In places nothing else can reach, our smallest cordless compact screwdrivers CXS 12 and TXS 12 get to work powerfully.
- › **Small but surprisingly powerful.** Our new 12 V compact screwdrivers score points with perfect handling and plenty of power – especially for mobile installation jobs.
- › **Compact and compatible.** The compact 12 V battery packs are compatible with all chargers from the 18 V cordless portfolio. The attachments for the 18 V screwdrivers also fit perfectly.
- › [festool.com/@576864](https://www.festool.com/@576864) (CXS 12)
- › [festool.com/@576873](https://www.festool.com/@576873) (TXS 12)

Compact, lightweight and with ergonomically integrated battery pack: The cordless delta sander DTSC 400 plays out its strengths wherever other sanders struggle. It achieves a consistently good surface quality right into the corner.

“FOR US, HIGH-QUALITY SURFACES RIGHT DOWN TO THE LAST ANGLE, ARE REALLY IMPORTANT. WITH THE COMPACT CORDLESS DELTA SANDER, WE CAN EASILY ACHIEVE THIS.”

Markus Müller, Maler-Meister-Müller & Sohn GmbH,
Oberlungwitz, Germany

DTSC 400



THE COMPACT CORDLESS DELTA SANDER

- › **Easy to manage and mobile.** Thanks to the compact design, perfect ergonomics and light weight of just 1.4 kg, even overhead work is easy.
- › **Cordless and free from interruptions.** The 18 V Ergo battery pack with 3.0 Ah capacity sits in the handle and runs for longer than it takes to charge.
- › **Dust-free and healthier.** You can choose whether to work with the long-life chip collection bag or in combination with a Festool mobile dust extractor.
- › [festool.com/@577508](https://www.festool.com/@577508)





“THE ETS EC 150 IS INDISPENSABLE FOR US, BECAUSE IT SITS PERFECTLY IN THE HAND AND LEAVES NOTHING TO BE DESIRED FOR INTERMEDIATE OR FINE SANDING.”

Jonas Müller, Maler-Meister-Müller & Sohn GmbH,
Oberlungwitz, Germany

The ETS EC 150 is the ideal one-handed sander for clear coats and mineral materials. It weighs just 1.2 kg and allows you to perform sanding work without tiring, even overhead. With the 5 mm stroke, the machine is ideal for intermediate sanding, and with the 3 mm sanding stroke, you can achieve the perfect finish.

ETS EC 150



ETS EC 150 ECCENTRIC SANDER

- › **Ergonomic and convenient.** The ETS EC 150 is perfectly built for manual operation and perfectly balanced. The active vibration protection ensures sanding that is not hazardous to your health.
 - › **Use the right material for the best results.** Thanks to the speed adjustment system, you can always adapt your work to suit the material. Sanding pads in three degrees of hardness ensure the best results for every application.
 - › **Better dust-free.** The eccentric sander and dust extractor are optimally coordinated and are particularly effective with the MULTI-JETSTREAM 2 sanding pad.
- › [festool.com/@576329](https://www.festool.com/@576329)



**“THE FESTOOL MX STIRRERS
DO THEIR WORK RELIABLY
EVEN UNDER THE TOUGHEST
CONDITIONS AND EVEN DURING
CONTINUOUS OPERATION.”**

Nadja Körbel, Festool applications expert

Mixing plaster, mortar and paints is hard work. That's why we have six stirrers in three performance classes in our product range. Mixing different materials in different mixtures is quick and easy.



MX 1200/2

FESTOOL STIRRERS FOR EVERY MIXTURE

- › **Powerful mixing.** The 2-speed stirrer is ideal for mixing compounds, tile adhesive, mortar, gypsum and larger quantities of liquid materials
 - › **Everything within reach.** Parallel handles and the patented ErgoFix height adjustment ensure comfortable and simple operation of the machine.
 - › **Effective dust extraction.** With the MX dust extraction, you can extract dust at the edge of the bucket – especially when filling and stirring different mixing materials.
- › [festool.com/@575815](https://www.festool.com/@575815)

With the new multifunctional GHS 25 I ear protection, you are protected against noise during your work, but can still make telephone calls via Bluetooth®* or listen to your favourite music in outstanding sound quality. That's not just cool, it's simply phenomenal.

“WHEN WORKING WITH EAR PROTECTION, IT’S NOT USUALLY POSSIBLE TO SPEAK TO ME. BUT WITH THE GHS 25 I IT IS. I CAN SPEAK TO COLLEAGUES WITHOUT HAVING TO REMOVE MY EAR PROTECTION.”

Philipp Stahl
Festool Training and Multiplier Training

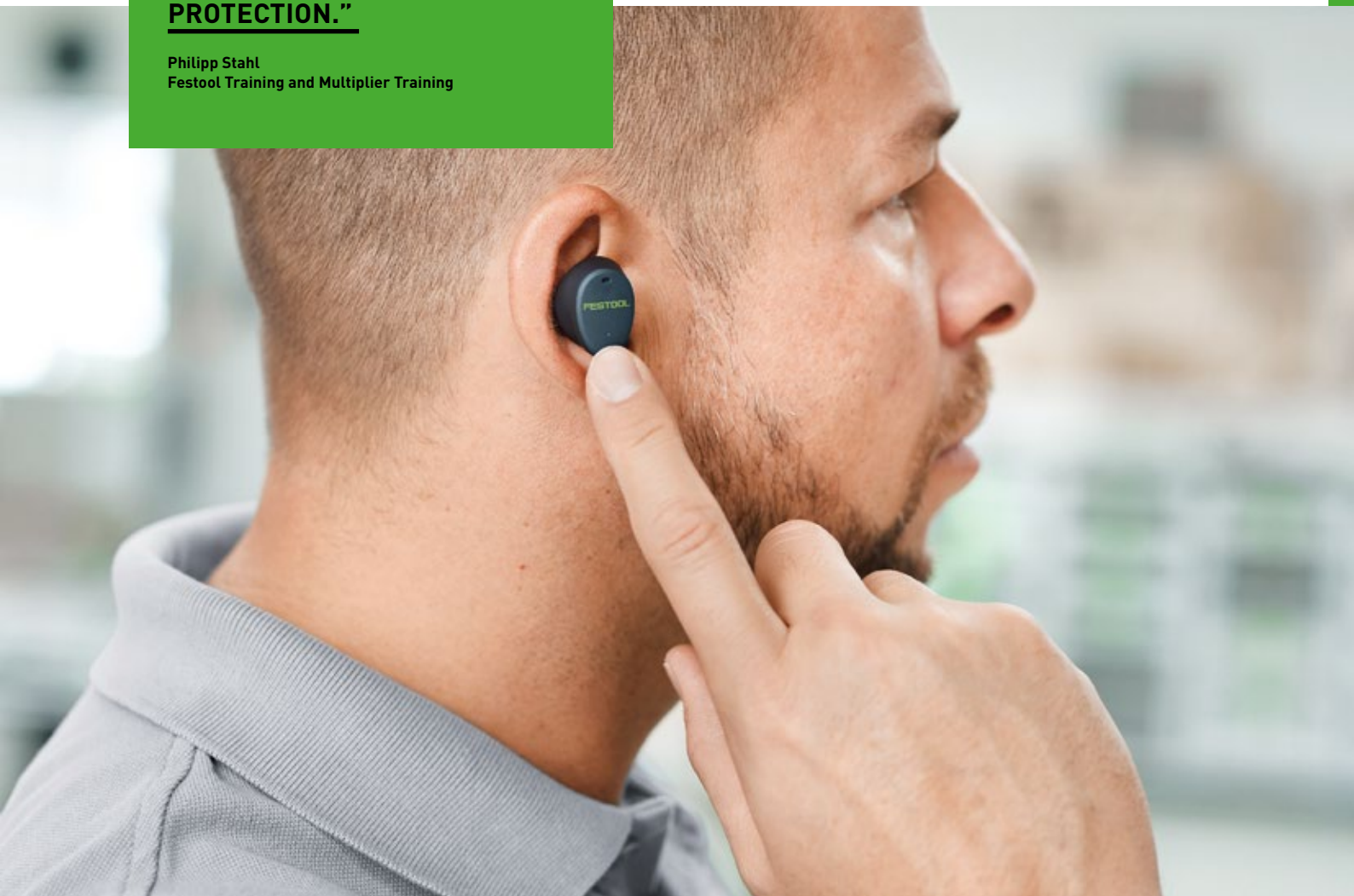
GHS 25 I



MULTIFUNCTIONAL EAR PROTECTION

- › **Protects your ears.** The GHS 25 I is professional ear protection that allows you to listen to music in outstanding sound quality or make telephone calls.
 - › **Allows speech through.** The innovative microphone technology even allows you to communicate with colleagues without having to take the ear protection off.
 - › **For good conversation.** With the GHS 25 I ear protection, you don't have to sacrifice anything: listen to your music or accept telephone calls via Bluetooth®*.
- › [festool.com/@577792](https://www.festool.com/@577792)

*The Bluetooth® function is not available in every country. Please contact your local dealer for further information.





THE POWER

Festool is going its own cordless way. Out of conviction and for good reason. Our battery packs in the Festool system are perfectly matched to the tools and product families. That's why they simply have to be able to do more.

Text: Ralf Christofori | Photography: Thomas Baumann, Torben Jäger

OF FESTOOL



Tailor-made. Integrated and ergonomic solutions.

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There's never been so much cordless power in one small package. The share of cordless tools in the total volume of power tools produced worldwide is currently around 50 percent, in some countries even more. They make the job much easier and are lighter to work with, offering the persuasive benefits of unrestricted mobility and freedom of movement. Of course, Festool also offers an extensive range of 18 V products. But for us, the crucial thing is that every battery solution in the system is optimally designed. The ideal cordless tool should be powerful, long-lasting and robust, but also light, handy, perfectly balanced and, ideally, also intelligent.

These are the qualities that matter. But because tools handle all different types of work, one battery for all doesn't make any sense. On the one hand, "customised" means that all our battery packs are fully compatible with "old" power tools in the Festool 18 V system that are already available. This is really important to us, so that you can continue to power your tools with plenty of "juice" for several generations to come. On the other hand, it's also important to take the shape of the tools into account as well as the specific application situation. A compact one-handed sander with which you can easily, comfortably and effortlessly work overhead has quite different requirements than, for example, our new cordless extractors, saws or angle grinders.

For example, our latest generation of 4.0 Li-HighPower Compact battery packs are powerful enough for any application, because we have reduced the weight but not the power. The Ergo battery pack was specially developed for the ETSC 125, RTSC 400, DTSC 400 cordless sanders – literally built for manual operation: It sits in the handle and weighs less than 600 grams. The 8.0 Li-HighPower battery pack, currently the most powerful and long-lasting member of the Festool battery family, is brand new.



"OUR DEVELOPMENT AIMS SPECIFICALLY TO ACHIEVE CUSTOMISED BATTERY SOLUTIONS – CUSTOMISED FOR OUR MACHINES AND TAILORED TO THE SPECIFIC REQUIREMENTS OF OUR CUSTOMERS."

Tobias Pauli
Verification Battery team leader

➤ Tobias Pauli, Verification Battery team leader (left), and Stefan Scharpf, Cordless Technology team leader, are among the Festool cordless experts.

-50%



**Never before has strong performance
been so compact**

The 4.0 Li-HighPower Compact battery pack is so small that it even leaves room to work in tight spaces. It is half as big as the standard 5.0 Ah battery pack but offers the same level of performance.

EVERYTHING IT TAKES.
CUSTOMISED FOR
EVERY APPLICATION.

-20%



**Never before has strong performance
been so ergonomic**

The Ergo battery pack was specially developed for the ETSC 125, RTSC 400, DTSC 400 cordless sanders. It sits in the handle, weighs less than 600 grams and is therefore 20% lighter than a standard 5.0 Ah battery pack.



+60%

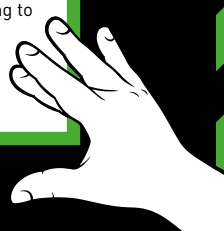
Never before has performance been so high

The brand new 8.0 Li-HighPower battery pack provides maximum power and endurance (with a 60% longer runtime than a 5.0 Ah standard battery pack), even for heavy-duty applications.



UNCOMPROMISING PERFORMANCE

With our warranty all-inclusive*, not just your tools but also all batteries and chargers are fully covered: a full repair** is completely free of charge in the first three years – this also applies to battery packs and chargers. Please note that the service offer may differ according to country and dealer. See page 59 for terms and conditions, explanations and additional information.





↑ The SYS-PowerStation* provides more than enough power for all corded tools. With the rapid charger TCL 6 DUO you can work all day long without interruption.

Powerful.

Power and endurance for every application.

While it's certainly true that power is what matters for cordless tools, a distinction has to be made here: Some machines need rapid strength, while others need adequate power and running time. Where there's a need for endurance, such as with the new cordless compound mitre saw SYMC 70 or our cordless extractors CTC MINI/MIDI and CTC SYS, our double battery concept has proven its worth. For the more manageable tools, such as the cordless angle grinder AGC 18 or the cordless insulation saw ISC 240, sufficient power is provided by a single 5.0 or 8.0 battery pack. This means you can truly rely on an optimally designed battery solution in every work situation.

The further development of lithium-ion cell technology has successively increased the power and runtime of battery packs and will enable new battery product groups in future too. But power and runtime are not dependent on the battery alone. That's why we are further developing the Festool battery system as a whole. This includes the intelligent motor control and power electronics as well as the development of rapid chargers with integrated cooling device. Our AIRSTREAM concept ensures that you can charge your batteries as quickly as possible and can therefore work without interruption. Powerful and long-lasting – even under maximum load. All this is only topped by our mobile SYS-PowerStation* that stores 1500 watt-hours of energy – for most applications, that is enough for an entire working day.

*The SYS-PowerStation is not available in every country. Please contact your local dealer for further information.

**The Bluetooth® function and Festool apps are not available in every country. Please contact your local dealer for further information.

Intelligent.

Digital operation and communication.

We are of the opinion that a battery shouldn't simply be the most powerful supplier of power, but can be much more. Our Bluetooth®** battery packs are intelligent and can even communicate. You can use them to switch a mobile dust extractor on and off in Auto-Start mode. The Bluetooth®** battery is also the IoT intermediary between the tool and your smartphone. Via the Work App**, you can retrieve the charge status and locate the battery. The crucial thing is that we keep our intelligent batteries fit for future applications by applying updates. This means there are no obstacles on your journey to the future.

“WE STAND FOR THE FESTOOL SYSTEM, IN WHICH EVERYTHING IS COORDINATED. THIS IS A UNIQUE SELLING POINT AND A CUSTOMER BENEFIT THAT PLAYS A CENTRAL ROLE EVEN IN OUR INTELLIGENT BATTERY SOLUTIONS.”

Sascha Menges
CEO of Tooltechnic Systems (TTS)

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You can find out all about the Festool 18 V cordless system on our website.



CT-F I/M- SET



Convenient, dust-free work

The CT-F I remote control saves you from having to walk to the extractor, because you can use it to start any mobile dust extractor with Bluetooth® directly at the suction hose. This makes dust-free work even more convenient.



Quick change to cleaning mode

The CT-F I remote control is ideal for short cleaning jobs in between – simply switch to cleaning mode without having to switch the mobile dust extractor from AUTO mode to MAN mode.

BLUETOOTH®* REMOTE CONTROL

With the CT-F I remote control on the extractor hose and the Bluetooth®* module on the CLEANTEC mobile dust extractor, you have a connection that saves you unnecessary journeys: Because you can use these to start the extraction directly at the suction hose. That's ideal for short cleaning jobs in between – you can simply switch to cleaning mode, even if the mobile dust extractor is in AUTO mode. The Bluetooth®* module on the mobile dust extractor also communicates with the Bluetooth®* battery packs, in addition to with the remote control. This means you can start the extractor via the Bluetooth®* battery pack when working with Festool cordless products. This makes dust-free work in the Festool system even more convenient.

» Find more useful helpers and accessories from Festool at: [festool.com/accessory](https://www.festool.com/accessory)

IMPRINT

FESTOOL MAGAZINE #12

Publisher

Festool GmbH

Festool Editorial Lead

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Editing

RC Redaktionsbüro, Saarbrücken, Germany
Dr. Ralf Christofori

Art Direction & Layout

Yama Inc, Stuttgart/Berlin, Germany
Ingo Ditges

Translation

STAR Deutschland GmbH, Sindelfingen, Germany

Media services

LOTS OF DOTS MediaGroup. AG, Mainz, Germany

Cover photo

Torben Jäger

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Vibration levels and emission values can be found in the operating instructions at festool.com/operating-instructions

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Festool is dedicated to taking care of forests for future generations. The following materials are FSC™-certified: paper.

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UNCOMPROMISING PERFORMANCE


Once you have registered your new tool, it is fully covered for the first three years thanks to our Warranty all-inclusive*. Please note that registration can only be carried out by you, our customers, exclusively in MyFestool. In MyFestool, you can also see an overview of all your tools, accessories and warranty terms. You can quickly and easily request repairs** online and take part in exclusive campaigns and competitions. As a result, you will always be able to take advantage of the full range of services.

Discover all Festool services at:

» festool.com/service

* Warranty all-inclusive is valid for all Festool tools registered within 30 days of purchase. Please note that the service offer may differ according to country and dealer. The Festool service terms and conditions shall apply and are available at festool.com/service

** "Full repair, free of charge" does not apply to damage to consumables and accessories, improper use, damage caused by the use of non-original accessories or spare parts, and in the event that tools are dismantled or continuously subjected to use resulting in extensive wear.



**“WHAT REALLY COUNTS
AT WORK? TEAMWORK.”**

**@ANDREAS: IN FACT,
OUR 18 V TEAM RANGES FROM
GRINDERS TO VACUUM CLEANERS.**

FESTOOL

festool.com/inspired-by-craftspeople



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