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Quality for life

Planning & Equipping

Your partner for the orthopaedic and orthopaedic footwear workshop

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A better overview, more information

Our new website is going live!
Interesting news and highlights from the Planning & Equipping area can now be found on our newly designed website pe.ottobock.com: Learn more about our expertise in designing and equipping workshops. Gain valuable insights into our new products and current projects in the fields of orthopaedic technology and the orthopaedic footwear specialism.

What does an ergonomic working environment look like and how can you design your production processes to be more effective? What makes our machines so powerful and functional? Which machines are the best fit for your business? Visit our new website to get information on important specialist topics and catch a first glimpse of our spacious showrooms.

We provide you with an overview of current events and trade shows. Learn more about our portfolio of products and services in our catalogues and brochures or get in touch with us directly.

For more detailed information on our products and services please visit:
pe.ottobock.com.

You can access your product directly by entering the article number in the search field.





Planning and equipping example:

Fontys University of Applied Sciences, Eindhoven, the Netherlands

The orthopaedic technology degree course at Fontys University of Applied Sciences

Students in the department of orthopaedic technology at the Fontys University of Applied Sciences in Eindhoven have had access to four completely new practice rooms since autumn 2016. The cutting-edge facilities were outfitted by Ottobock Planning & Equipping.

Fontys University of Applied Sciences stands for education and research and includes a number of campuses in the south of the Netherlands. The “People and Technology” training course is offered at five different universities. One of the many training opportunities is the four-year degree course in orthopaedic technology in Eindhoven, the Netherlands.

Students in the orthopaedic technology degree programme decide after six months whether they would like to specialise in orthopaedic technology or orthopaedic footwear in their further studies. An average of 75 students enrol each year, and many of them are currently focusing on the orthopaedic footwear specialism.

According to legislation in the Netherlands, only candidates with an advanced technical university entrance qualification can be admitted – however, graduates of the degree course are free to determine their future career after completing their education.

The university has already been working together with Thomas More University College in the Belgian city of Geel for a number of years. Under this arrangement, the first year of the degree course must be completed in Eindhoven. In previous years, the first year of the course consisted primarily of theoretical content, as only a few small practice rooms were available, and these were primarily geared towards training podiatrists. The previous room included a rather small area for plaster work and a grinding machine with just one sanding belt. For this reason, the second year of the course was completed in Geel, which is 50 km away, and included a range of practical exercises in addition to the theoretical component.



“The rooms were equipped based on the model of the practice rooms at Thomas More University College in Geel...”



Flexam machines with touchscreen controls

It can do everything that our “classic” machine can. And more: The new touchscreen control system makes your work easier thanks to the option of saving individual user profiles and having maintenance performed remotely.

Due to changes in regulations and requirements for manufacturers of medical devices, the university needed a quick solution that would let it give students in Eindhoven the opportunity to learn and further expand on the course content from a practical perspective within their first year.

Following approval of the relevant budgets, Ottobock carried out the construction and equipping of the practice rooms during the summer of 2016. Harry Coppelmans, Project Manager at Fontys, supported and supervised the work.

Fontys lecturer Cojanne Kars still can’t believe how smoothly the work went, given the enormous time constraints involved. “The rooms,” Kars says, “were equipped based on the model of the practice rooms at Thomas More University College in Geel, but with more grinding machines for shoemakers in relation to the available space. Students in the field of podiatry should be able to use the rooms as well.” All of the rooms were equipped during the autumn holidays in cooperation with Ottobock project and planning experts Frans Hulsen and Richard Zwart. The team from Ottobock Planning & Equipping not only ensured that the installation went smoothly and took care of connecting the new and existing machines, but also provided comprehensive training.

Pro-Fit 3000 socket router

Suitable for processing any orthopaedic material, equipped with a host of clever functions and exceptionally high-performance – the Pro-Fit 3000 socket router brings perfect craftsmanship to your workshop.

Benefits at a glance:

- Electric height adjustment
- Integrated gate slide
- Continuously adjustable speed, max. 3,500 rpm
- Milling shaft motor can be adjusted horizontally and vertically
- Article number: 701F41

Further information available at:

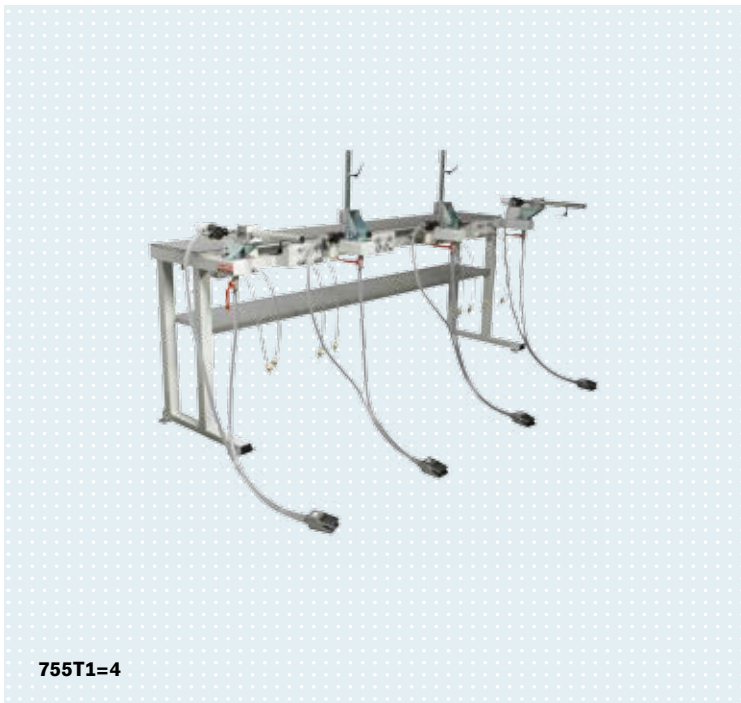
pe.ottobock.com/de/orthopaedietechnik/produkt_highlights/701f41-pro-fit-3000.html

“Thanks to the new practice rooms, we can now provide even more efficient training in Eindhoven. ... This means that around 20% of the first year of the course can now consist of practical training.”



The first students were already able to begin their training in November 2016. Four new, fully equipped practice rooms have resulted from Ottobock’s design work. The university now has not only workstations with all the necessary equipment, but also a plaster room, a combined room for laminating and plastics work as well as a grinding room.

Vapours and dust are removed by central extraction systems in the new utility room, which was built onto the outside of the grinding room. The specially supplied ventilation unit with a heat recovery system ensures that contaminated air is discharged from the practice rooms and clean air is fed into them.



Vacuum forming workstation

The vacuum forming workstation is the perfect solution for workshops that produce vacuum formed sockets and orthotic components. This product’s highlight: an integrated tank in the upper part of the vacuum forming table’s frame. The tank stores a vacuum, buffered from the larger system, so it’s immediately available at the desired output level when required.

Benefits at a glance

- Foot control for regulating the vacuum
- Replaceable, angle-adjustable vacuum tubes
- Integrated tank serves as vacuum buffer
- Suitable for draping and vacuum forming



Lamination workstation

Multifunctional and perfectly tailored to your needs: The lamination workstation enables users to work simultaneously, provides extremely effective vapour protection and offers you remarkably flexible adjustment possibilities. Depending on the version, two, three or even four workstations give you the opportunity to continue working on another project while you wait for a model to cure.

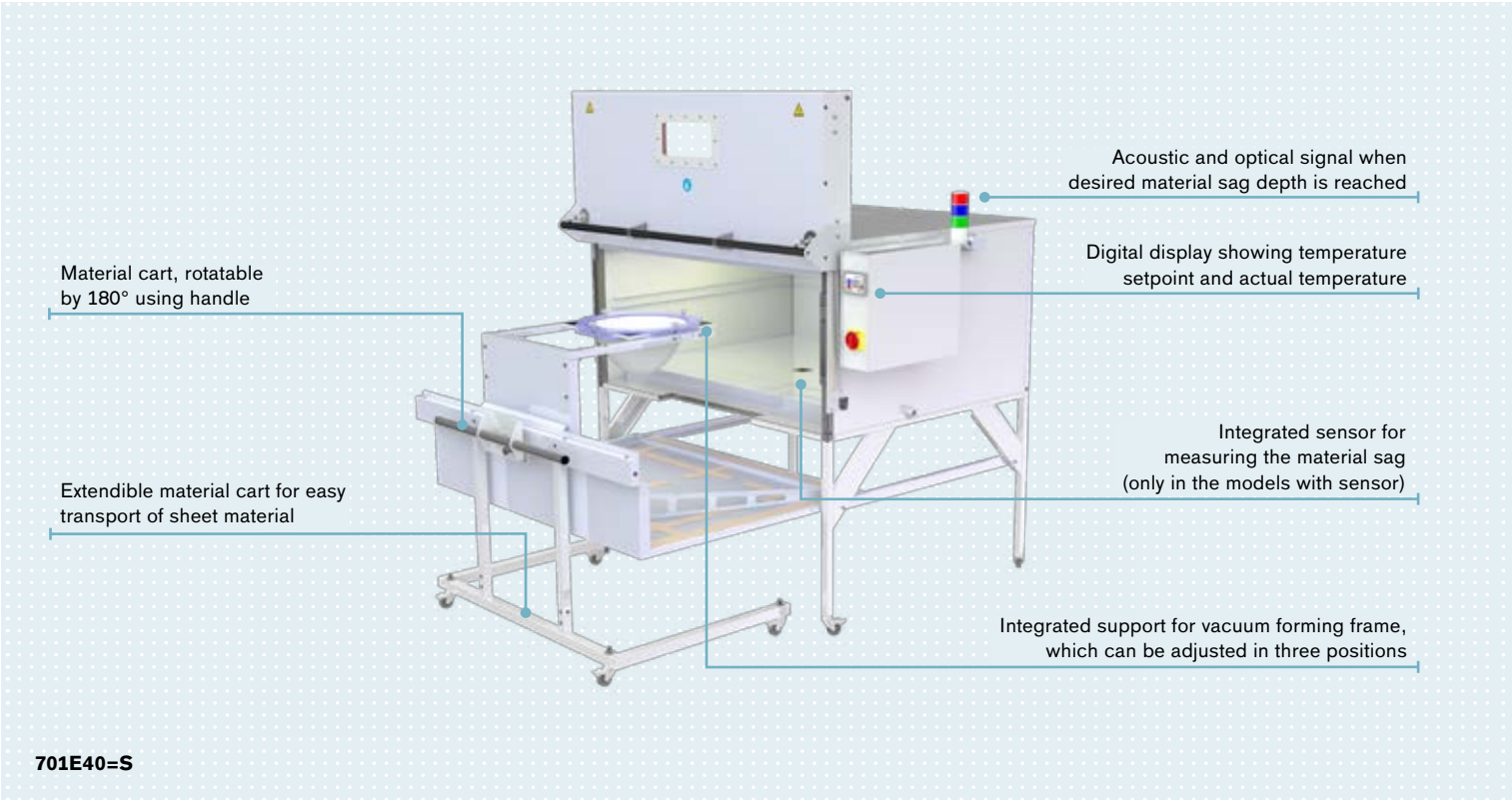
Benefits at a glance

- Protection against vapours: integrated suction slots remove vapours continuously from the workstation (external extraction system required)
- Multifunctional: the clamping fixtures can be rotated 360° so laminating work can be carried out in any position

Ottobock infrared ovens – all benefits at a glance

- Sensor for exact measurement of the material sag depth with acoustic and optical signal (only for models 701E40=S, 701E41=S and 701E44=S)
- Mobile material cart with rotation function facilitates quick switching between coated work surface and vacuum forming frame while saving space (only for models 701E40=S and 701E40=WS)
- State-of-the-art infrared quartz tubes with single reflectors ensure even heating
- Optical temperature sensor permits continuous monitoring of the material surface temperature
- Simple operation via a central element with temperature setpoint entry and timer function
- Storage function for user-defined heating processes
- Graphical progress indicator for monitoring
- Thermally insulated housing
- Space-saving sliding door
- Stainless steel front panel (not with model 701E43)

Further information available at:
pe.ottobock.com/de/orthopädietechnik/produkt_highlights/701E40-infrarot-platten-wärmeschränk-drehbaren-materialwagen.html



The system is proving ideal for such projects, and the fact that warm extracted air can be reused also results in energy savings. A further advantage offered by the project is that the various grinding machines are automatically cleaned at preset times during breaks and at the end of the training day.

“We’re planning to integrate the cleaning and maintenance of the practice rooms into the practical component of the students’ training over the medium-term to provide them with more intensive preparation for their future working routine,” noted Kars.

The desired cleaning times can be programmed in no time using the touchscreen control system. The dust extraction capacity in the area around the grinding machines, which was previously insufficient, was also increased immensely.

“Thanks to the new practice rooms, we can now provide even more efficient training in Eindhoven. The cohort of students who started in summer 2017 will be the first of its kind to have the opportunity to complete their entire training in Eindhoven. This means that around 20% of the first year of the course can now consist of practical training,” the lecturer for orthopaedic technology emphasised.

Integrating practical components at an early point in the course brings a wide range of advantages with it. Up until now, students were only able to gain practical experience starting in their second year. However, they will now have the chance at the beginning of their training to find out whether the future requirements of the profession interest them from both a theoretical and practical perspective.





Planning and equipping example:

Schuh-Petters,
Gera, Germany

Schuh-Petters orthopaedic footwear – achieving success together

First beginnings and expansion

Uwe and Sorella Petters have now been working together as orthopaedic shoemakers for 30 years. It all started in the autumn of 1989, when the couple bought a workshop in Gera, Germany with the goal of starting their own business.

This new venture brought Uwe Petters from the town of Weißenfels, with its strong history of shoemaking, while Sorella Petters had previously worked at the orthopaedic clinic at Leipzig University. Relying on their extensive experience, the couple enthusiastically embarked on the work of producing innovative orthopaedic products. The creative path they chose has paid off: Today the Schuh-Petters GmbH company employs an over 70-strong team at 14 branches.



“Ottobock knows we have high standards and worked closely with us to meet our needs during the planning stages.”



Enhanced performance, enhanced efficiency
Following 15 successful years in the orthopaedic footwear business, the Petters went in search of machines that offered greater performance and efficiency. They tried Ottobock’s Flexam machines and haven’t looked back since: “We got better motor performance, lower susceptibility to breakdowns and professional service,” Sorella Petters confirms. The company’s continued growth meant that it outgrew its premises in the city centre. The Petters company therefore decided to construct a new building at a site on Berliner Straße in Gera. The result was a completely barrier-free building with a spacious production hall.

A life’s work

Just one year from groundbreaking to move-in
The laying of the foundation stone for the new building in 2015 marked the start of a large building project for the Petters company. Just a year later, employees were able to move into the new building and start production.

The move, including the assembly and installation of the new and existing machines, ran smoothly thanks to the excellent teamwork between Ottobock and the Petters company throughout the entire planning process. “Ottobock knows we have high standards and worked closely with us to meet our needs during the planning stages,” noted General Manager Uwe Petters in praise of the cooperation.

Flexam SB85 Executive

This machine requires little space yet offers a surprising amount of comfort.

The machine is ideal for processing insoles and for milling footbeds in series. You’ll also benefit from the high-quality fittings of the machine. The standard scope of delivery includes LED lighting, floor suction, automatic height adjustment, ADDS air curtain between operator and suction, a sensor-controlled extraction system, individually adjustable sanding belt tension, compressed air gun, internal cleaning of the engine compartment and many other features which make your everyday work easier.



Numerous advantages

The new building offers numerous advantages for customers, employees and the Petters company as a whole. One example is the easy access and parking opportunities customers have directly in front of the entrance. Employees can enjoy more space in their work environment, better lighting conditions and modern machines that are ergonomic and produce little noise.

Thanks to a new production line, Schuh-Petters GmbH is able to boost its overall efficiency. The production hall receives orders from 14 branches, which means the machines are in use from morning until the evening. The machines need to be capable of performing at high levels in order to keep pace with the company's expanding productivity.



Flexam LSB 115 Executive

The Flexam LSB 115 Executive was developed especially for processing lasts. That's why the pneumatic scouring rolls for lasts are equipped with a specially adapted suctioning area. Optimum suctioning of fine dust as well as coarse chips is ensured.

The Flexam LSB 115 Executive is equipped with a narrow and a wide sanding belt (400 mm and 100 mm) as well as a powerful naumkeag motor. Thanks to the belt spacing of 450 mm, there is also sufficient space for processing larger last models. The bayonet at the right side of the machine has its own suctioning duct. Plus, plenty of extra space has been provided at the right-side sanding belt for processing the lasts.



V80 high-capacity extraction systems

The Vacuum V80 high-capacity extraction systems are the perfect choice for large machine rooms where up to nine machines are operated simultaneously. The machines produce extremely little noise and are therefore suitable for installation in a central utility room or in a machine room.

**A highly specialised workshop**

A special feature of the new production hall is the way both newly acquired and used machines from the old workshop are housed and operated side by side. The company's machinery, for example, was expanded to include additional grinding and milling machines. To accommodate this, Ottobock planned and installed a new extraction system, which is specially tailored to the increased number of machines.

“We are also happy to include old, well-maintained machines in our plans for new grinding and milling machines – regardless of the manufacturer,” explained Product Manager Christoph Neugebauer. And Ottobock did in fact develop special connection solutions so that the new, energy-efficient extraction systems could be linked to the customer's existing machines.



A conversation with Sorella Petters

What is the secret behind Schuh-Petters' success?

We have stayed true to ourselves. We haven't let ourselves get distracted by other lines of business. We only do one thing – and we do it extremely well!

You're setting new standards with your expansion in Gera. How has the region responded to this?

The residents of Gera have been very enthusiastic in their acceptance of our new building. Minister Tiefensee has also visited our new facility.

Schuh-Petters stands for individuality and creativity. How have you achieved this?

No matter the type of orthopaedic work, the shoes shouldn't be clunky – they should look good. Aesthetic shapes and custom designs to meet customers' special wishes are important to us. We obtain top-quality leather, for example, so we can offer really smart footwear.

Is it right that even celebrities wear your shoes?

Yes, that's right. We made two pairs of shoes – moccasins – for actor Manfred Krug. They will now be on display in the shoe museum in Weißenfels.

Why did you decide to work together with Ottobock again?

After a long testing phase, we were convinced by the cooperation we shared during the planning phase, Ottobock's reliable service and the performance of the machines.

What's important when it comes to successful planning?

We organise every single aspect and are very precise in our planning. Our partners have to be able to adjust to this. This is an important prerequisite for successful cooperation. Ottobock's employees are willing and able to adapt to our ideas and goals.

Why are service and maintenance becoming increasingly important for you?

Reliable service and professional maintenance are extremely important due to the increasing service life of the machines – for example in the case of wear and tear parts for tensioning the belts.

What makes machines from Ottobock stand out?

The machines are more powerful and less prone to failures in their control elements. They offer a high level of functionality, such as the easy exchange of tools using the bayonet or the adjustable light for the user's respective viewing angle.

Are you satisfied with the expansion?

Yes, of course. It's enabling us to further enhance our quality and increase productivity. We will have the opportunity to open new branches and meet the growing demand from third-party production. The new building was something we had been looking forward to for ages – and it's a life's work.



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