

ottobock.

Ottobock planning & equipping New product features and highlights

Your partner for the orthopaedic and orthopaedic footwear workshop

Quality for life

An Ottobock Group company

jos america





Highlights and new product features

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Ottobock | Jos America – Equipped for health

Ottobock | Jos America develops and manufactures comprehensive solutions and top-quality machines for orthopaedic workshops. We offer you machines and fixtures which are designed according to the latest technology, health and safety regulations, and ergonomic considerations.

Our primary objective is to create a working environment in which our partners feel comfortable and can do their best work possible.

For further information on our products, please visit our website: **www.ottobock-josamerica.com**
Simply enter your search term, and you will be led directly to your desired product.

1 | Our brands

We offer our customers a wide range of products based on our many years of experience and proven expertise in the fields of orthopaedics, machine construction and ventilation technology.

Flexam

Flexam is our brand name for the grinding and milling machines developed and manufactured at our company for use in the field of orthopaedic footwear. These machines are constructed according to the latest health and safety regulations as well as ergonomic considerations.



Pro-Fit

The Pro-Fit products are our vibration-free socket routers for processing all materials typically used within orthopaedics technology. Various ergonomic settings are available depending on the model. Health protection regulations are maintained in conjunction with an external dust extraction system.





Vacuum V80

Vacuum V80 is the brand name for our innovative external dust extraction system. Multiple grinding and milling machines can be connected to this central system. The extremely low-noise dust extraction system can be housed either together with the grinding and milling machines in your machine room or in a central utility room. Its high suction and filtering capacity ensures optimal protection against fine dust in your workshop.



2 | Orthopaedics technology: Our new product features

In addition to your specialist expertise and consulting skills, the right tools play an important role in providing the best possible fittings for your customers. We offer you the right solutions so you can work precisely and efficiently.



2.1 Casting and laminating

A high degree of precision is required when it comes to laminating and working with lamination resin. The right tools help you focus your full attention on the work process.

755X128 clamp adapter for extraction pipe

Clamping and extracting plaster models with a small mounting diameter can be challenging, because, in many cases the adjusting screws do not sufficiently hold the plaster model in place.

But we have a solution for this problem: a clamp adapter which reduces the size of the pipe.

Before clamping the model, insert the clamp adapter into the extraction pipe to form a right-angled corner. Thanks to the clamp adapter's shape, a single screw is sufficient to perfectly stabilise the pipe in the correct position on the model.

You can use the clamp adapter in combination with the two-way extraction pipe (art. no. 755X23). The adapter is suitable for mounting diameters of up to 20 mm.



2.2 Prepreg technology

Prepreg technology involves the application of fibre materials which have been pre-impregnated with epoxy resin at the factory. These materials are easy to process and the quantity of epoxy resin is precisely pre-dosed.



Individually programmable control unit with ramp function



Water trap

701E15 prepreg oven

The prepreg oven was developed specifically for processing prepreg material in the field of orthopaedics technology.

The spacious prepreg oven, which offers room even for large leg orthoses, comes equipped with four vacuum connections as standard. The heart of the system consists of the central control of the heating process with a microprocessor, which allows you to run both pre-programmed ramps as well as individually adjustable ones that can be stored for repeated use.

The prepreg oven at a glance:

- Temperature sensor for measuring temperature in oven or core temperature of the model (acc. to choice)
- 3 separate zones saves energy
- Also allows for processing of thermoplastic materials (PE or PP)
- Electrical connection in V/Hz/kW:
3x 400/50/10.2
- Weight: 283 kg
- Inner dimensions W x D x H:
1,000 x 620 x 1,200 mm
- Outer dimensions W x D x H:
1,000 x 920 x 1,570 mm

2.3 Dust extractor

Dust arises in the orthopaedic workshop during the milling and sanding of various materials, such as plastics, wood, fibre glass and carbon fibre. Our low-noise dust extraction systems ensure that your workshop remains dust-free. Our experts would be happy to help you select the right extraction system for your operation.



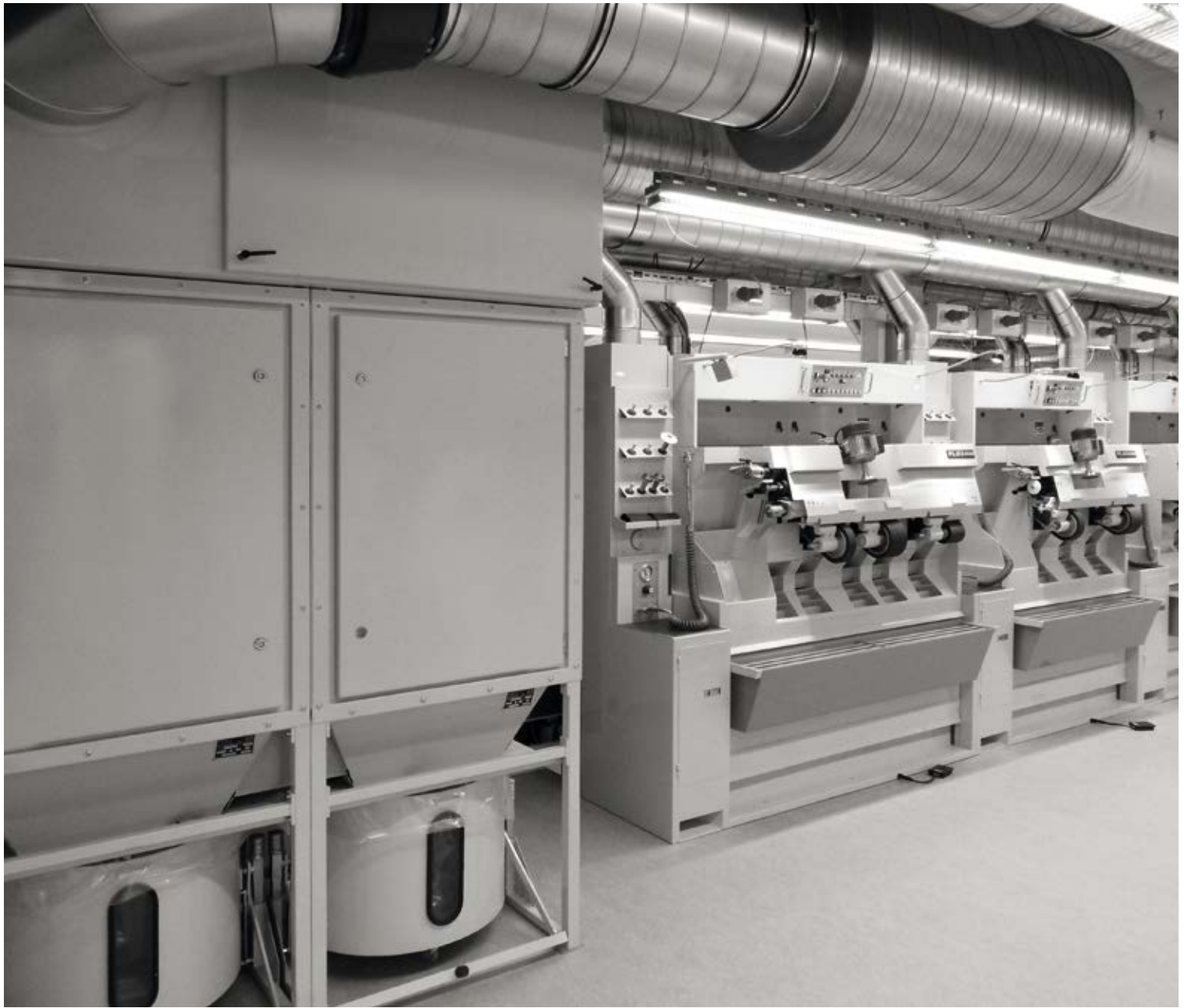
Vacuum V80 High Capacity

The Vacuum V80 High Capacity dust extractor is the top choice for the simultaneous extraction of up to four socket router machines.

The machine has an extremely low sound pressure level and is therefore suitable for installation in a central utility room or in a machine room. The machine is fitted with a variable control system which controls the extraction capacity according to the amount of suction required in the connected extraction pipes. This gives you optimal extraction where you want it at all times.

The Vacuum V80 High Capacity at a glance:

- Dimensions W x D x H:
2,508 x 975 x 2,000/2,220 mm
- Space requirement W x D x H:
2,550 x 1,690 x 2,000/2,500 mm
- Sound pressure level: 62 dB(A)
- Electrical connection in V/Hz/kW:
3x 400/50/3.0
- Material: steel
- Colour: light grey (RAL 7035)
- Weight: 425 kg
- Nominal volume flow rate: 4,600 m³/h



For larger workshops, the Vacuum V80 High Capacity is also available in a combined version with two or three systems, which offers a greater extraction capacity.

3 | Planning and equipping example: Heckert & van Lierop Orthopedie Techniek

Orthopaedic workshop impresses with spacious, open-plan design and innovative solutions.

The new workshop at Heckert & van Lierop Orthopedie Techniek primarily produces larger orthopaedic products such as prostheses, corsets and splints for the company's subsidiaries. The spacious building is very centrally located and is the ideal place to set up a modern, open workshop.

Huub Lucassen, one of the company's two CEOs, says: "At Heckert & van Lierop we wanted to realise various production processes in one large open-style room. The existing workshop solutions didn't offer exactly what we were looking for."

But at Ottobock | Jos America, they found the right partner to make their project a reality. The two companies were on the same wavelength and open to new developments.



Ottobock | Jos America was able to perfectly translate Heckert & van Lierop's desire for an open workshop into the plans for the space. "The collaboration between Heckert & van Lierop and Ottobock | Jos America was excellent", says Huub Lucassen.

The result is a spacious workshop which is literally transparent, as the rooms are separated from one another by glass walls.

The central element is the machinists' workshop with an integrated corner for receiving goods. This is where all orders come together.

The plaster room, vacuum forming area, machine room and a laminating/resin room are grouped around the workshop.

The open concept also includes the reception area: Here, customers can watch as their prosthesis or orthosis takes shape, turning waiting times into a lively, visual learning opportunity. By engaging with customers in this way, the workshop quickly dispels the somewhat old-fashioned image that orthopaedics technology still frequently conforms to today.



An open workshop with maximum efficiency

As the space and products are ideally suited to one another, the result is a much more efficient workflow. Processing times were reduced considerably with the help of products developed by Ottobock | Jos America, such as a vacuum forming unit for vacuum forming and modelling. The highlight of this product series: 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.

Our new energy saving infrared oven and customised worktables also contribute to an efficient workflow. Thanks to the Vacuum V80HC central dust extraction system, so little dust accumulates in the workplace that even the glass walls remain clean.

Together with the significant reduction in noise and the steam extraction system which, according to Lucassen, functions superbly, the result is a clean, efficient and healthy working environment where his employees are happy to spend their time.







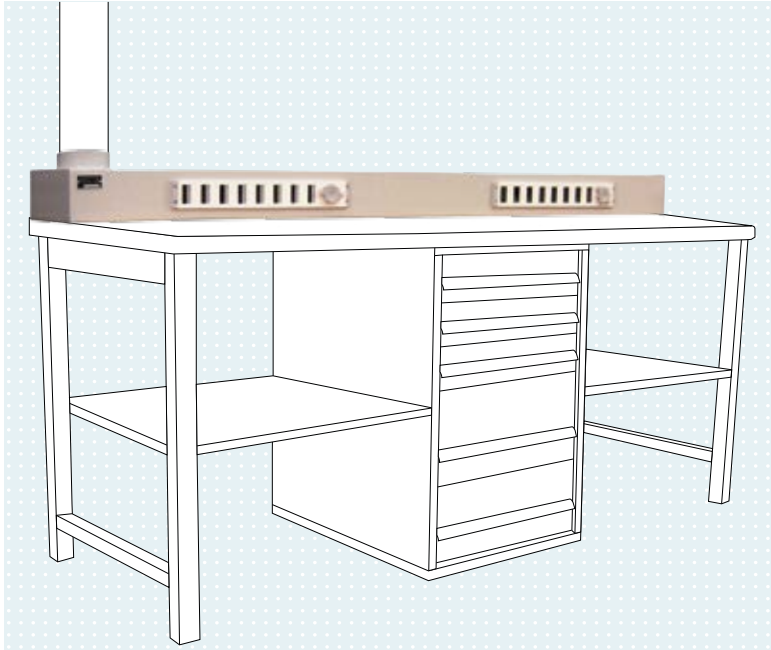


4 | Orthopaedic footwear technology: Our product highlights

Just as in the field of orthopaedics, a wide range of materials are employed in the field of orthopaedic footwear. In addition to traditional materials like leather and nails, plastics, plaster, and various high-tech materials are employed. Ottobock | Jos America provides you with individual advice on the workshop equipment that is right for you.

Yes to Airflow extraction

Do you also work with materials that produce vapours and gases?
The optimal extraction of vapours is important for the health of
your employees.



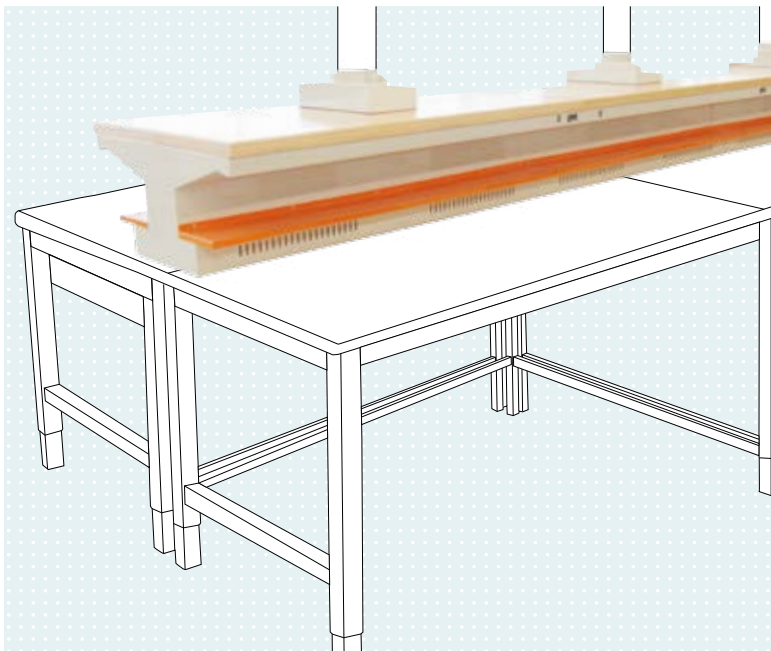
Airflow Classic and Airflow Multi

All grids in the Airflow Classic system are designed to achieve the suction power required to optimally extract vapours directly above the worktop.

With the Airflow Multi, a dual airstream offers extremely high suction power. This induction principle was developed according to Scandinavian standards and tested using sensors.

The Airflow systems at a glance:

- The grids are balanced so that a large extraction volume can be achieved even without a high airstream speed
- Multiple stations can be connected to an external fan unit
- Extraction is uniform across the entire width of the grids
- Both the Airflow Classic and Airflow Multi are available in widths of 1,000 mm, 1,500 mm and 2,000 mm
- A wide variety of combination possibilities are available for you with the Ottobock | Jos America work benches. In addition to their attractive appearance, the system workstations offer the ultimate in ergonomics and efficiency







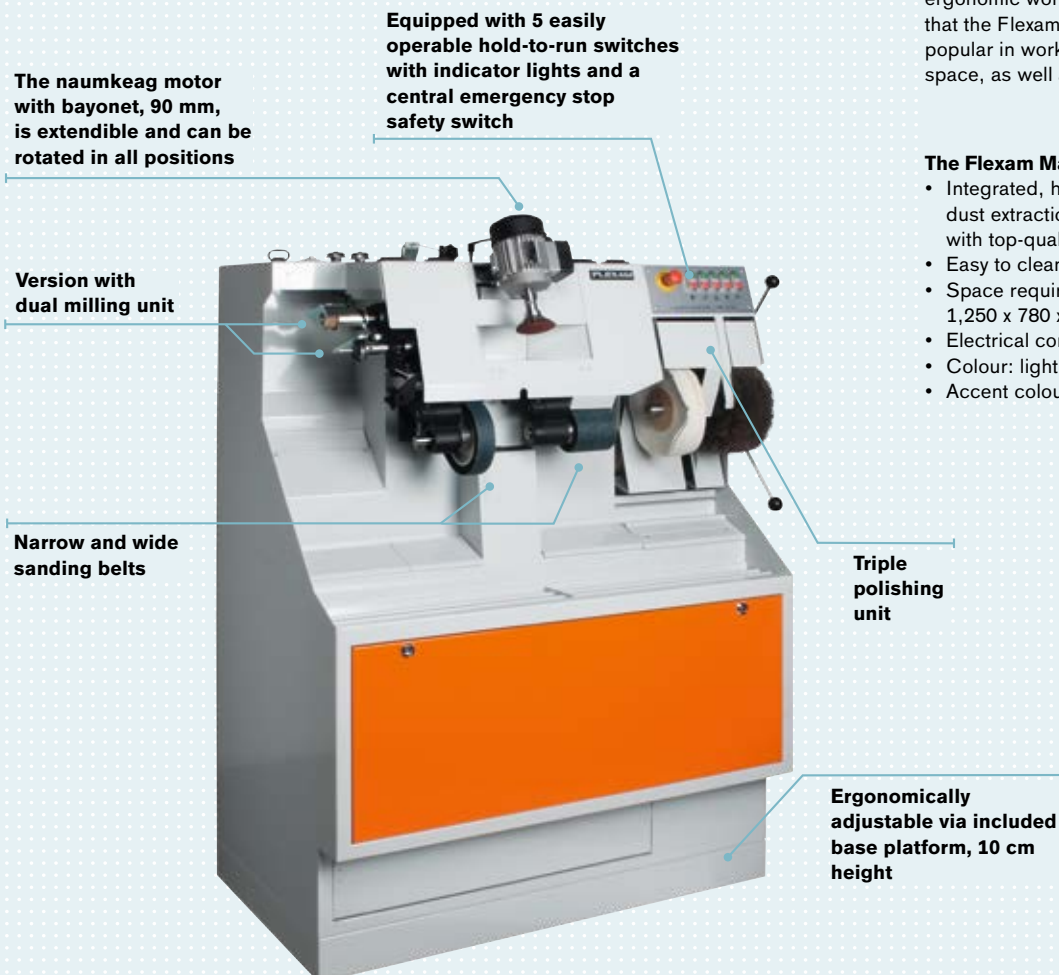
701L62=115B Flexam Master 115B

The Flexam Master 115B is known for its compact design, high reliability and reasonable price.

The machine offers a complete grinding, sanding, scouring and polishing system at a width of just 115 cm. Despite its compact design, there is plenty of room around the two sanding belts for processing lasts. The machine can also be installed at two different heights for an optimal ergonomic working position. So it's no surprise that the Flexam Master 115B Combi is extremely popular in workshops with a limited amount of space, as well as in larger ones.

The Flexam Master 115B at a glance:

- Integrated, high-performance and low-noise dust extraction system connected to filter unit with top-quality antistatic filter material
- Easy to clean from the front
- Space requirement W x D x H: 1,250 x 780 x 1,590 mm
- Electrical connection in V/Hz/kW: 3x 400/50/3.4
- Colour: light grey (RAL 7035)
- Accent colour according to choice







FLEXAM

SENSOR



jos am
FLEXAM MACH



5 | Planning and equipping example: Sanitätshaus Frohnhäuser

Orthopaedics and orthopaedic footwear technology – an efficient combination

Sanitätshaus Frohnhäuser in Mainz-Weisenau, Germany is a versatile medical supply company offering a full range of products and services. In addition to rehabilitation technology, the company also provides in-home care and discharge management. The latter includes a range of care services for patients who are leaving hospital. In addition, the medical supply company is one of many operations worldwide which are active in both orthopaedics technology and orthopaedic footwear technology.

By consolidating both areas under one roof, the company is able to serve a larger target group with real efficiency. Both sectors rely on the same machines to a large extent.

Master of orthopaedics Ludger Schmitz has worked at Sanitätshaus Frohnhäuser for 25 years, and was there when the company moved from Mainz to its current location on the outskirts of the city. Due to the growth of the company's activities, it recently underwent an expansion involving extensive renovations.

At the very start of the planning stages for the structural design of the building, Ottobock | Jos America offered proposals for a new layout of the patient rooms and orthopaedic workshops. This proposal involved combining both workshops into a single room at the front of the building. Because of the potential for noise disturbance, the machine room is isolated in a central, transparent room and can be used efficiently by both areas. Following a brief period of adjustment, the employees came to appreciate the short communication channels only a month after the workshop renovation.

From the reception area, customers can view the workshop through a large glass door. Patient privacy was naturally taken into account in the arrangement of the open-plan workshop. This means prosthesis work is carried out with the appropriate discretion – out of sight.

The company's aging machinery was largely updated and expanded, to the delight of the employees.

Owner Martin Quetscher and the company's master of orthopaedic footwear, Ludger Schmitz, visited the showrooms at Ottobock | Jos America in Nieuwkuijk, the Netherlands. They also drew inspiration from the workshop at Heckert & van Lierop in Eindhoven, the Netherlands, a model operation which had already benefited from its partnership with Ottobock | Jos America. The employees at the German medical supply company and the Dutch team from Ottobock | Jos America worked together during delivery.

The result of their collaboration was an impeccable facility. Ludger Schmitz is pleased that the company can now work more efficiently thanks to its optimised workshop set-up. Working conditions have also been improved significantly by the extraction system in the lamination resin room and at the work tables. He was right: After a month or so in the new workshop, there's no trace of solvent vapours to be found.



6 | Planning and equipping example: Orthopédie Toussaint

Proven, positive effects of good working conditions

Orthopédie Toussaint in Fleurus, seven minutes by car from the Belgian city of Charleroi, is a true third-generation family business, led today by Matthieu Toussaint. His grandfather, who originally worked as an orthopaedic shoemaker, founded the company in 1959.

In addition to orthopaedic footwear, he also started producing prostheses and orthoses in the centre of Charleroi.

Orthopédie Toussaint continued to develop into a prosperous company and has long been an established name in orthopaedics and orthopaedic footwear thanks to its 50 years of experience and versatile range of products and services.

In 2004, the time had come to move the workshop to a larger building. The company decided on the current building in Fleurus on the edge of the industrial area of Charleroi.

The workshop features large window fronts, which create a well-lit atmosphere. The employees have a view of the outdoors from nearly every side of the workshop and can enjoy the building's natural surroundings. This location proved to be a stroke of luck. Its green surroundings seem to have had a positive effect, as sick leave has decreased considerably since the move.



Good working conditions are an absolute priority for Matthieu Toussaint. When Toussaint was looking for a vendor to modernise his 25-year-old machinery last year, the most important impetus was further improvement of working conditions. A comprehensive review of the company's machinery showed that further progress could be made in terms of a stress-free workplace design by reducing noise and extracting a maximum of dust and solvent vapours.

Toussaint contacted Ottobock | Jos America and visited the company's showrooms a number of times to view its comprehensive range of equipment. "Ottobock | Jos America is the only place where you can view and try out all the machines in one spot!", he enthuses.

With their outstanding ergonomic features and options, the top-quality Flexam machines contribute significantly to a healthy workplace design.

Ottobock | Jos America also gave a lot of thought to the arrangement of the space and set up the machines in Fleurus in such a way that daylight can flow freely into the room, illuminating the entire workshop. "We're part of nature here; we can see wild rabbits and hear birds singing", says Matthieu Toussaint, adding that the positive effects of all these measures can be seen and felt directly.



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