

bott

Creating
better working environments



Workstation systems

Single workstations
Multiple workstation systems
Assembly and transport lines
Mobile systems

Workstation systems

are customer-specific solutions for optimising working processes - system solutions from bott with maximum flexibility.

Modular System

The modular construction opens up a wide range of system and functional possibilities. Applications cover everything from single workstations to multiple workstation systems through to entire assembly and transport lines. Feeder systems like workshop trolleys and FIFO racks are utility elements of high practical benefit.

Modular principle

All components are based on standard system dimensions and all accessories are also coordinated to these. This huge modular range minimises setup times and means that entire assembly lines can quickly be adapted for new tasks at any time using existing elements.

Ergonomics

Correctly planned workstations prevent damage to health.

They ensure optimum access to components and equipment, improving the performance potential of employees and increasing their motivation. bott solutions reflect the very latest developments and comply with all current requirements.

Productivity

Numerous real-life examples demonstrate considerable increases in productivity thanks to speeding up cycle times and the reduction of setup times. A clear, see-at-a-glance layout and proper organisation will aid assembly.

Assembly materials, aids and tools can all be stored and retrieved conveniently and ergonomically with standardised components.

**As a system supplier with a practical focus
bott develops customised workstations and
optimises working processes.**





Chipline®

Chipline® is used to design solutions that go beyond the technical possibilities of the modular steel system. The patented aluminium section system from bott gives creativity free rein and allows special custom solutions that go beyond conventional dimensions.

Roller track and FIFO rack system

The roller track and FIFO rack system work hand in hand. The roller track interlinks multiple workstations to optimise process flows from ergonomic standpoints. The FIFO rack system (first in, first out) is loaded from outside the assembly zone and ensures smooth direct access to materials – always just in the right place.

Modularity brings flexibility.

Ergonomics and individuality increase productivity



Modularity
Flexibility
Ergonomics
Individuality
Productivity

Ergonomics

bott optimises working conditions - including those relating to health.

Ergonomic considerations play a central role in our thinking.

There are many factors which affect an employee's sense of wellbeing at the workplace. The quality of the work environment, soundscape, lighting levels and of course the way a workplace is configured in all its different details.

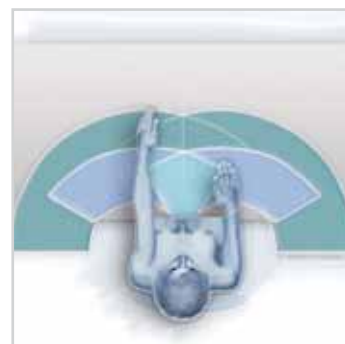
A well-planned workplace is beneficial to the employee's health. High costs for medical treatment and absences can frequently be prevented in advance. The operators reach radius is increased and they are able to achieve their full potential. This improves employee motivation. There are numerous advantages to be gained by applying the very latest developments in modern workplace design.



The entire modular system from bott is designed for maximum flexibility and individuality and can quickly and easily be adjusted to any body size - in a sitting and/or standing position.

Height adjustable desks and benches, elements that can be tilted, turned and swivelled, a finely pitched grid within which to mount and position accessories or tools, and optimised material storage and retrieval will all ensure natural, ergonomic movement with no extraneous 'detours'. Finally, integrated lighting and power supply modules complete the package.

Everything is in view, within easy reach but without stretching – and with the essential legroom at seated workstations.





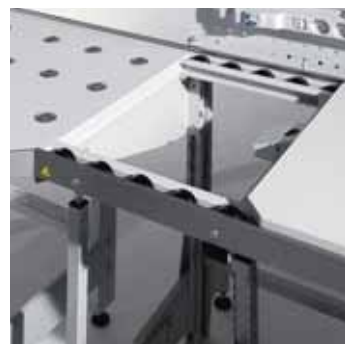
ESD

From anti-static ESD mats to professional complete protection.

ESD workstations focus on preventing electrostatic discharge. Equipment requirements differ considerably and range from a simple ESD mat right through to a completely anti-static ESD workstation. bott supplies the whole range and can even implement your individual requirements.

Professional ESD protection thanks to

anti-static worktops with earthing box and wrist strip with connection to the central earthing point, conductive powder coating and plastic boxes, as well as a complete anti-static aluminium construction with Chipline®.



Single Workstations

bott single workstations meet all requirements for ergonomics, flexibility, modularity and functionality.



A system with numerous practical features

With three different height adjustment methods, workstations fit into their surroundings and fully meet all ergonomic requirements. The modular design allows different assembly and work stations to be connected and combined as required. Assembly materials, aids and tools can all be stored and retrieved conveniently and ergonomically with standardised components.

Features such as the all-metal base assembly and generously dimensioned legs guarantee total stability. Additional frames and overhead frames facilitate the use of a comprehensive selection of accessories, which can be attached within easy and ergonomic reach at the desired height.

The correct lighting can also be incorporated for every conceivable job - naturally.

Multiple Workstation Systems

bott

bott multiple workstation systems combine several workstations quickly and easily into small assembly lines.



A robust, highly flexible and economical system

Using add-on modules saves on components. The modular, stable design with freely combinable units opens up the possibility for double-sided assembly. If the same assembly line is attached on the rear, up to 40 % of the initial purchase costs can be saved.

The extremely robust metal base frame makes the system totally flexible and adaptable at any time. It is easy to insert and remove conveyor sections or buffer zones, change working heights and fit and remove accessories. The standardised modules are rapidly assembled and can be re-used as often as needed.

Assembly and transport lines

The roller track and FIFO rack system work hand in hand to make bott assembly and transport lines so efficient.



Tailored and system-based production lines

Modern assembly lines from bott are flexible and can be rapidly adapted to suit new operations and processes using the existing elements.

The modular design and free combination of units even allows the direction of the material flow to be changed. The roller track ensures that processes flow smoothly and the FIFO rack system provides a smooth material feed - at exactly the right point.

Here again, the robust metal base frame proves its worth by making it so easy to insert and remove conveyor sections or buffer zones, change working heights and fit and remove accessories such as cabinets, swivel arms, sliding shelves or workpiece carrier stops.

Mobile Systems



Because bott assembly trolleys are always exactly where they are needed, they are ideal aids in any production environment.



High flexibility mobile helpers round off the system

bott assembly trolleys guarantee flexible provision of material and small parts. They can take heavy loads and their dimensions fit the modular frame system. They represent an ergonomic solution with levelling or height adjustable supply trolleys or as a mobile store for small parts. The use of workshop trolleys reduces setup times for an assembly line to just a few minutes.

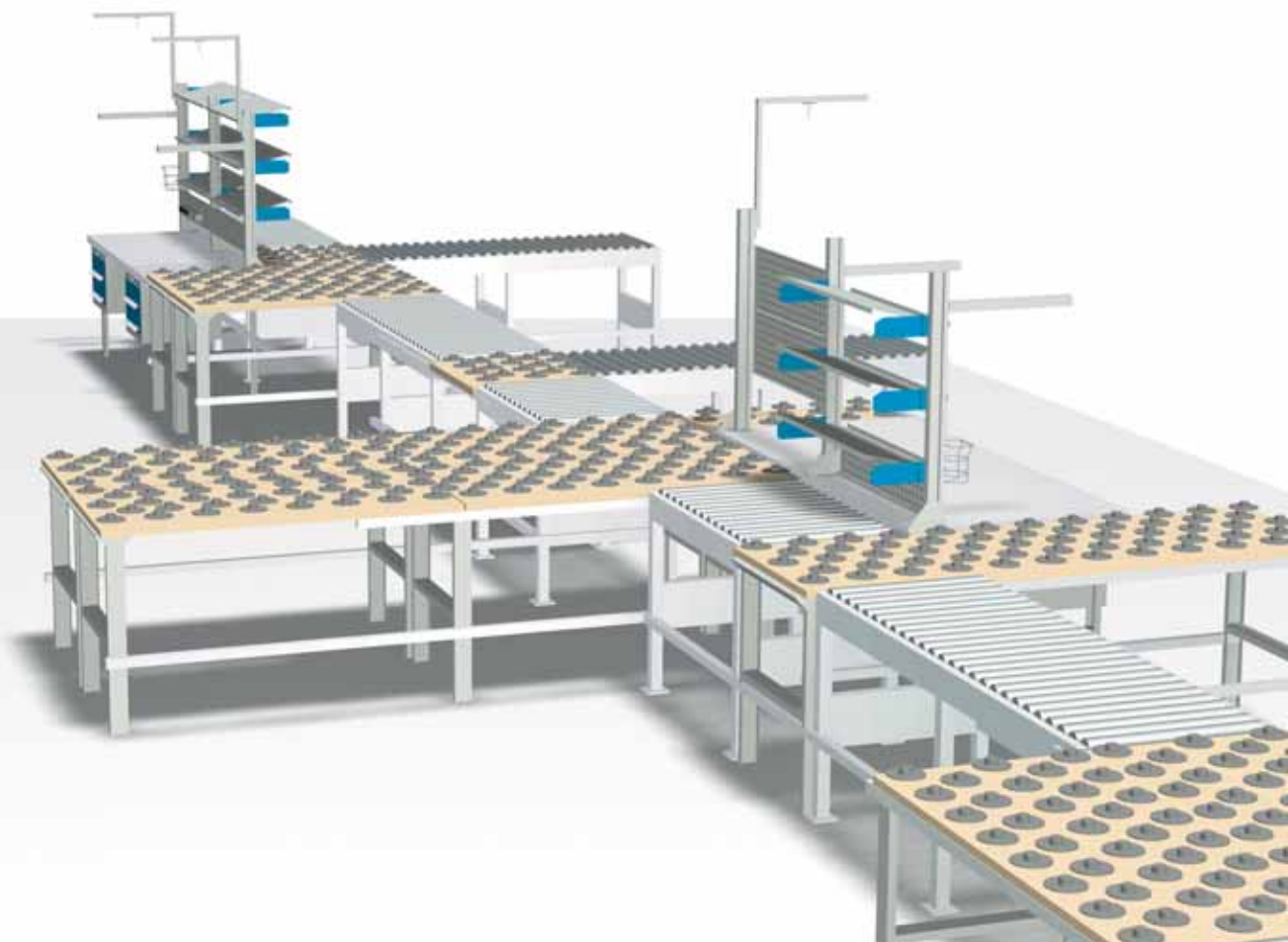
Mobile systems leave all possible configurations open and are the ideal partner when it comes to small batch sizes and custom-made products.

Single source for planning and implementation

bott plans and implements workstation systems to your exact specifications. The service begins with analysis, design and planning - all in close partnership with the customer.

New production and logistics concepts make high demands in terms of workstation design. International competition calls for increasingly economical planning. bott faces these challenges head on and creates solutions based on a constantly growing pool of concepts across a range of industries. bott offers a sophisticated, modular system with numerous advantages in terms of flexibility and functionality.

The modular design of our system allows it to be extended and added to at any time, opening up cost-oriented individual options. When it comes to designing solutions that go beyond the technical capabilities of the modular system, we use Chipline®. IT-based visualisation of ideas and potential solutions is very important to bott. You will receive a precisely detailed layout, with every aspect considered, including the range of accessories such as swivel arms, sliding storage shelves, lighting, power supply and much more





From professional project management to expert assembly on site - bott is there for you.

“System security from bott” means that your equipment can be adapted to new requirements, added to or extended in the longer term.

- Professionally planned
- Ergonomically designed
- Expertly assembled
- Long service life and economic efficiency

**Fresh thinking. Professional action.
From practical advice and planning
to professional assembly.**



BSW GmbH

BSW relies on state of the art technology and perfection in production. This is why assembly of component changeover trolleys is carried out exclusively on high flexibility production cells from bott.

Task

The customer's key requirement was the installation of ergonomic and variable single workstations. Optimum height adjustment for the different employees had to be guaranteed. Robust workbenches and practical storage cabinets for CNC tools were also required.

The bott solution

In this case, the implementation phase was short. This meant that the planning phase had to proceed very quickly. The modular design of the bott workshop equipment with its numerous variable system components made implementation easy.

The result was APS workstations with manual height adjustment and a full range of accessories. bott workbenches and storage cupboards rounded off the intelligent logistical solution.





The workstations had to comply with individual ergonomic requirements.
This is a classic issue for bott.



VOITH Turbo H + L Hydraulic (VTHL)

The company is an innovative, trend-setting partner for hydraulic system solutions and produces pressure and flow regulating valves in state of the art working conditions.

Task

This contract also called for flexible, ergonomic single workstations with easy height adjustment. A rapidly functioning mobile material supply was also essential.

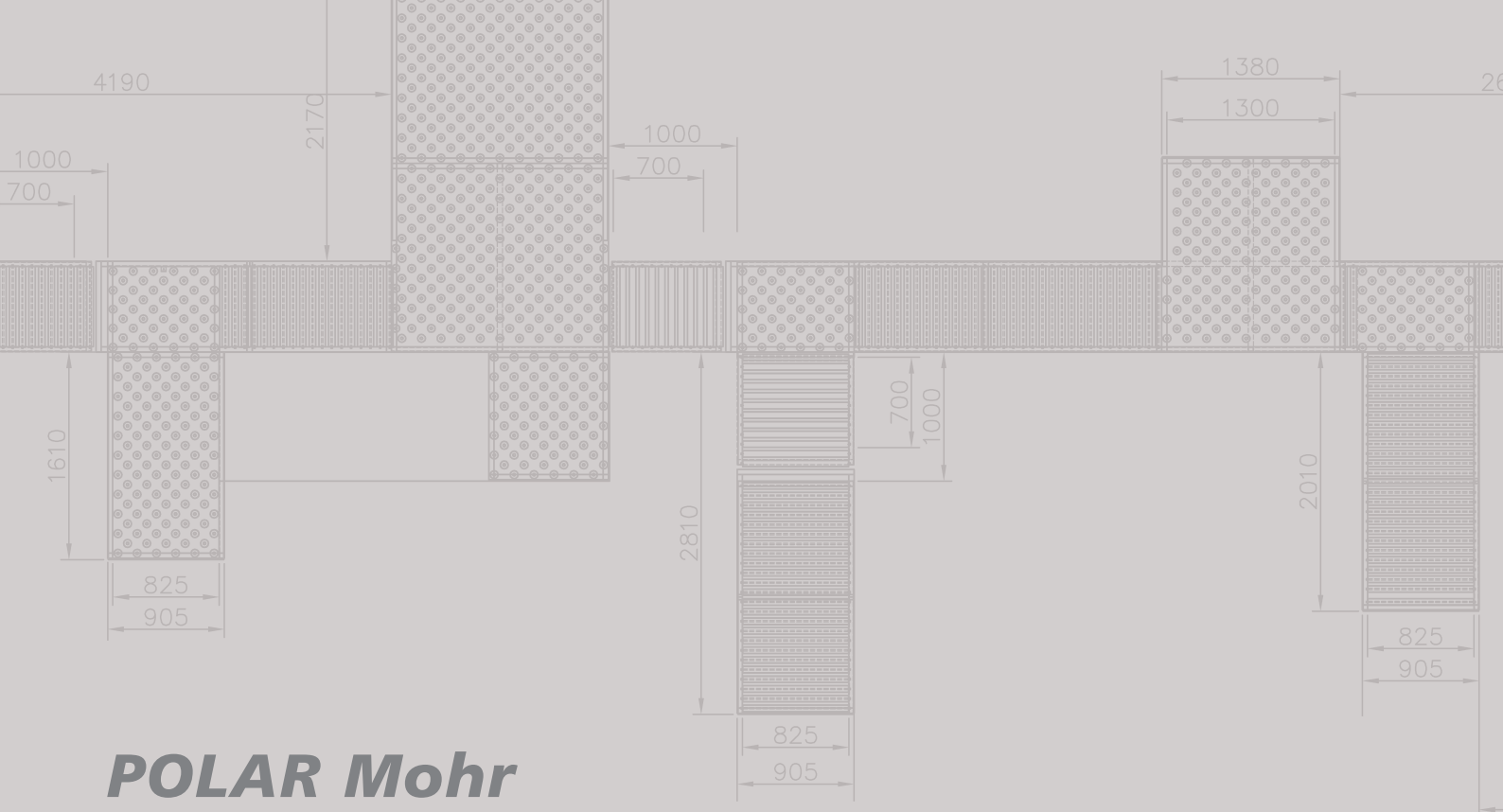
The bott solution

First of all, the physical conditions and current material logistics had to be analysed. After a comprehensive consultation, our professional planners produced precisely detailed 3D graphics. Every issue was considered and taken into account during this phase - from the feed trolley to the appropriate dividing material. Professional assembly on site is standard and carried out promptly.





**The rapid, flexible material provision ensures a smooth workflow.
One of many useful bott principles.**



POLAR Mohr

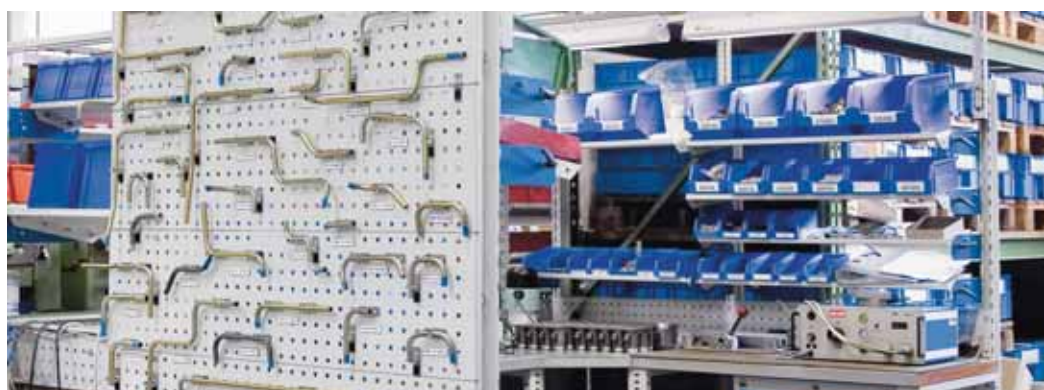
High-speed cutters for the graphic industry are produced and marketed worldwide under the POLAR brand name. Modern production processes are part of the core philosophy.

Task

The customer ordered practical single workstations that ensure a flowing working process. An additional special task was to set up a pipe bending station suitable for use by people with severe disabilities.

The bott solutions

For the hydraulic assembly area, single workstations were designed that meet all the requirements in terms of ergonomics and relieving the strain on employees, productivity and economic efficiency. A pipe bending station suitable for use by people with severe disabilities combined with a semi-automatic pipe bending machine was designed ergonomically so that there was no impediment to subsidisation from the equal opportunities authorities. This is a typical example of trouble-free provision of equipment from the wide range available in our sophisticated modular system.





Flowing processes on single workstations - including pipe bending stations suitable for use by severely disabled workers. Everything from a single supplier. With the official seal of approval.



Stromag Group

The Stromag Group is an engineering problem solver in mechanical drive technology sector. Construction of voltage converters had been switched to one-piece flow.

Task

Reducing cycle times, improving quality and economic efficiency. The task also included promoting employee well-being and performance. Stromag's wide range also called for rapid conversion of the assembly stations for different requirements. Short setup times were thus crucial.

The bott solution

Single, height-adjustable workstations, individually positionable swivel arms and sliding shelves keep the strain to a minimum when sitting and standing. Transport and provision are performed using feed trolleys with angled sliding shelves. Continuous material supply is guaranteed by processing one material stand while the other is being reloaded.





Caring for employees while increasing capacities and performance.

Tough requirements deserve good solutions.



Thies CLIMA

Thies manufactures equipment and systems for meteorology and environmental measuring technology using state of the art technology. Laboratory style workstations are required.

Task

The employees at Thies are the priority. When planning new equipment, it goes without saying that ergonomic considerations such as reach, height adjustment options and anti-glare lighting strips play a central role. Integrated testers, monitors and PCs round off the equipment range.

The bott solution

The majority of the assembly stations are height adjustable and allow employees to work sitting or standing. The lighting complies totally with the recommended guidelines in the workplace regulations. The benches are ESD compliant and protect components against unwanted discharge. All testers are integrated into generously proportioned work surfaces. All specifications for positioning of screens and PCs are met.





**Production of state of the art measuring instruments
for sensitive areas demands appropriate
workstations.
Technically perfect, functional and versatile – bott.**



WDL Nordschwarzwald gGmbH

The Lebenshilfe workshops enable all people with a disability to take part in working life, in an environment geared to their needs and resources.

Task

People were the focus here. The aim was to offer people with mental and physical disabilities the broadest possible range of ergonomic group workstations. The workstations had to be 1 m wide and capable of being extended or modified at any time.

The bott solution

Part of the basic premise is to offer these people the chance to be part of working life and thus the life of their community, with the aim of giving them increased self-worth and acknowledgement. Individually variable group workstations fulfil the required conditions most effectively. Therefore, a sophisticated multiple workstation system was designed, which comes with a range of useful accessories to meet the special requirements.





**Ergonomic group workstations promote cooperation
and increase self-worth.
Inspiring flexibility and ergonomics from bott.**



WashTec AG

The company supplies innovative solutions for all aspects of vehicle washing and is the global market leader in this sector. Production is subject to high standards - bott meets them.

Task

There were a series of challenging objectives for the production of washing system controllers - smoothly flowing working processes, clear organisation, ergonomics, reduction of production times with a zero fault rate, a modular construction that can be modified at any time and a clear, attractive design.

The bott solution

A modular construction made up of Chipline® aluminium sections and a precise, made to measure assembly enabled all of the customer requirements to be met in full. A roller track and the FIFO rack system perform central functions. The linked assembly line with transport trolley is height adjustable, rotating, tilting and mobile, which of course make it extremely ergonomic and individually set up for smooth and flowing working processes.





**Successful globally, at home in Bavaria.
WashTec is renowned for quality, technology and
function.
They demand the same from their workshop equipment.**



Chipline® provides unlimited possibilities

The patented aluminium section system from bott gives creativity a free rein and allows special custom solutions that go beyond conventional dimensions. Even very long production lines can be designed with no offset between assembly and material feed. The open grooved sections of the aluminium system allow attachments and extensions - such as swivel arms, sliding storage shelves, lighting and power supply elements and much more - at any time.

Chipline® is always used for implementing individual customer solutions. In these situations, the aluminium design is actually more economical than the standard steel version. During the planning and quotation phase, these projects are developed and honed in close cooperation with the customer.





Typical WashTec: Individual assembly and transport lines keep things moving. Efficient, economical, reliable. From bott.





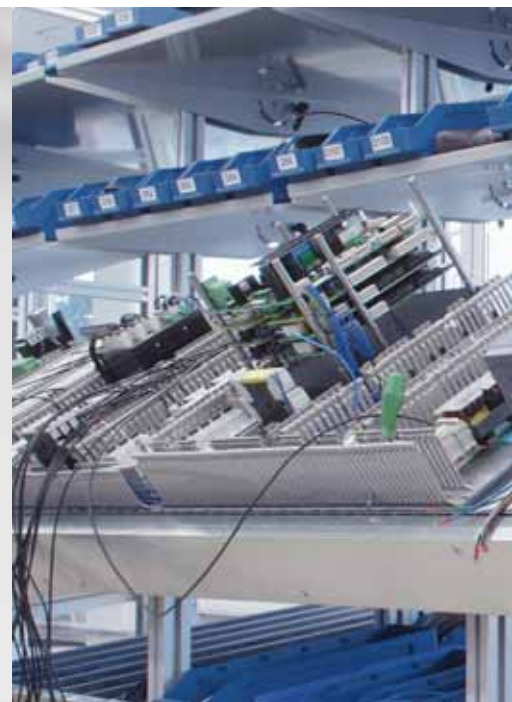


Roller track and FIFO rack system

The tilting roller track interlinks multiple workstations to optimise process flows from an ergonomic perspective. The strain on employees is eased, as the workpiece is always transported at the correct height and angle.

In the background the FIFO rack system, which is loaded from the rear, ensures a smooth and direct material feed - in the right place at all times. This prevents picking and assembly errors, unnecessary travel and poor posture.

The roller track and FIFO rack system go hand in hand and take into account all of the key ergonomic aspects and ensure modern logistics and production processes.





**Shortening routes, optimising material feed.
This is what modern assembly line production looks
like.
With complete practical finesse – from bott.**



Espey Burgmann

This company manufactures advanced sealing systems for large machinery such as those used in blast furnaces and cement mills. High-end solutions are needed in all areas of the operation.

Task

The aim was to plan and implement a system line for picking. The key issue was assembly, weighing and packaging – without the need to lift heavy goods. Short routes, sufficient buffer, access options and integrated scales had to be incorporated into the design.

The bott solution

The appropriate assembly and transport components were coordinated with one another. Folding bridges enabled the required access options to be implemented. There are no longer any unnecessary routes. The picking line runs extremely efficiently and has thus contributed to a significant quality improvement.





Seals that protect against leaks into the environment, are subject to the most stringent quality demands. This is where know-how counts. Right up to picking.



Kolb GmbH

Kolb GmbH manufactures specialist fasteners by forging high temperature alloys and stainless steel. Their professional distribution line is supplied by bott.

Task

Mainly heavy steel and stainless steel parts have to be packaged in different sized packaging units. Therefore, it was essential to meet variable ergonomic requirements. Effort saving turning, weighing using integrated scales and a connection to the packaging machine were all stipulated.

The bott solution

The entire platform has motorised height adjustment, allowing the working height to easily be adapted to each package size. A pneumatic lift and turn unit ensures easy handling, even with heavy parts. At the customer's request, the bench has been connected to the packaging machine with made to measure aluminium sections. The result is a clearly structured and ergonomic distribution line.





**A structured means for preparing stainless steel fasteners for the automotive industry for shipping has been provided.
Packed and weighed. Effortless – with bott.**



POLAR Mohr

This market leader produces cutting machines for the printing industry. The assembly line shown is used to produce parts with a unit weight of 300 kg.

Task

The specification for the working process is assemble, test, store. Large areas had to be designed with height adjustment and rotation. Flexible parts storage for assembly had to be optimised. There had to be enough of a buffer before the testing unit and removal should be as easy as possible.

The bott solution

The assembly line installed removes the need for any crane and forklift work. Height adjustable and rotating production areas ensure maximum flexibility. Mobile material feed trolleys and roller lifting trucks for removal make the working process smooth and harmonious. Overall, the measures taken led to significantly shorter cycle times.





Moving heavy production parts safely along the assembly line with minimal effort. No need for cranes or forklift trucks. bott makes it possible.



Schaefer GmbH

As a specialist in user-friendly elevators, Schäfer leads the market in this field. Order processing has to be as variable as the individual elevators themselves.

Task

According to the customer briefing, the most important objectives were to significantly reduce production and delivery times, increase economic efficiency and product quality and to reduce waste.

The bott solution

bott assembly trolleys were the key to success. They guarantee a flexible feed of materials and small parts, can handle loads and provide ergonomic solutions thanks to height adjustment. The feed trolleys reduce retooling times to a minimum. At Schaefer GmbH, the production time has been reduced from around 5 weeks to just 1 week! Costs were cut by 30 % and waste was reduced by 15 %. The initial investment has been recouped after just 10 months.





**For individual high-end products, order processing
has to be totally flexible.
Mobile systems leave all possibilities open.**



bott cubio

cubio is the new workshop equipment system from bott. The Start Collection alone opens up unimagined possibilities.

cubio features an impressively clear design, a modern colour concept, consistent system dimensions, precise functionality, high load capacities, versatile professional applications and no compromises on robustness, stability and durability. cubio opens up totally new design horizons and makes working environments a living space.

As one of the world's leading suppliers of workshop equipment, workstation systems and in-vehicle equipment, bott offers innovative product lines for all sectors of industry.

As different as the bott product lines may be, our project philosophy is always the same - designed to be a perfect match for the relevant tasks, our storage solutions are produced using premium quality materials and components.

Workshop equipment and workstation systems

with a comprehensive range of system components for individual organisation tasks and working processes in industry. From single workstations through to entire assembly and transport lines - including individual requirements.

In-vehicle equipment for setting up professional service vehicles in a wide range of industries.



**Combined know-how from three areas -
workshop equipment, workstation systems and
in-vehicle equipment.**



bott in-vehicle equipment

When you choose bott in-vehicle equipment, you are also choosing a comprehensive service and support package.

Each individual component has passed various safety tests and complies with the latest ECE-R-17/07 directives.

We are always happy to provide our demonstration vehicles for trade fairs or promotional events.



bott workstation systems – APS

Single workstations
Multiple workstation systems
Special, assembly and transport lines
Mobile systems

bott



bott is facing up to the challenge of creating optimum working conditions. In close dialogue with its customers, bott concentrates on delivering innovative, practical solutions. With a huge choice of products and a professional service, the manufacturer offers its customers maximum flexibility for implementing individual requirements and handling complex tasks.

bott products are high quality, hard wearing, durable and therefore economical. Products from bott are a great investment - now and for the future.

Bott GmbH und Co. KG operates throughout the world and has a comprehensive Europe-wide sales network. All products are produced to the most stringent quality standards at the bott Group's production sites in Germany, England and Hungary. The competence and development centre is constantly working on new solutions and features. Huge emphasis is placed on "tested safety"!

At bott, extensive support services and outstanding customer service are 'givens' – from professional project management through to expert on-site assembly.

Don't just take our word for it - see bott quality and functionality for yourself. Visit the bott training and exhibition centre in Gaildorf.

**High quality products, impressive service,
professional assembly.**

Workstation system references

ABB
Bosch
BMW
Claas
Coca Cola
Daimler
Deutsche Bahn
Festo
Kärcher
Hilti
John Deere
Miele
Motorola
Nokia
Porsche
Siemens
Trumpf
VW
WashTec
Zeiss

and many more

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