

PALETTI

INDIVIDUAL, FLEXIBLE, ERGONOMIC

ASSEMBLY AND WORKPLACE SYSTEMS



www.paletti-group.com

CUSTOMISED, FLEXIBLE, ERGONOMIC MODULAR ASSEMBLY AND WORKSTATION SYSTEMS FROM THE KIT!

With its extensive system components and aluminium profile modular system, Paletti Profilsysteme offers efficient, ergonomic, and standardised assembly and workstation systems. These standard systems provide the foundation for

tailoring solutions to meet individual requirements at any time, fully in line with the principles of workplace optimisation following the 5S method.



S1
SORT



S2
SYSTEMATISE



S3
SHINE



S4
STANDARDISE



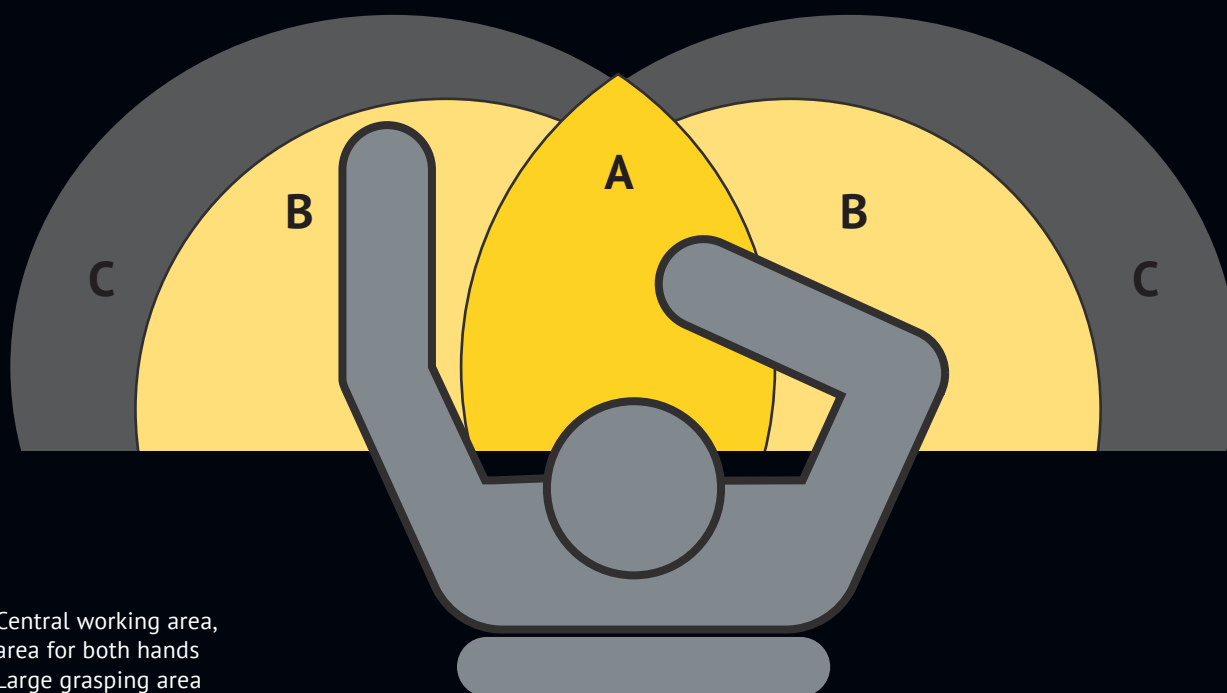
S5
SELF-DISCIPLINE

Implementing this method is essential for further optimisation in accordance with Lean Production, where Paletti focuses particularly on the following aspects:

- ▶ **Reachable zones** at the workstation should be as short and as close as possible to the employee's immediate range.
- ▶ Unnecessary **head and eye movements** should be minimised
- ▶ **Optimal lighting conditions** prevent early fatigue, improve concentration, and reduce the risk of errors
- ▶ Correct **adjustment of work tools** reduces physical strain and minimises absenteeism

No matter how specific the customer's application may be, Paletti can respond flexibly with its extensive range of products and accessories to deliver the most optimal and cost-effective solutions. These are built on our years of experience and proven „best practice“ solutions.

By incorporating the Lean Production principles into the Paletti workstation system, you can boost productivity and shorten lead times.



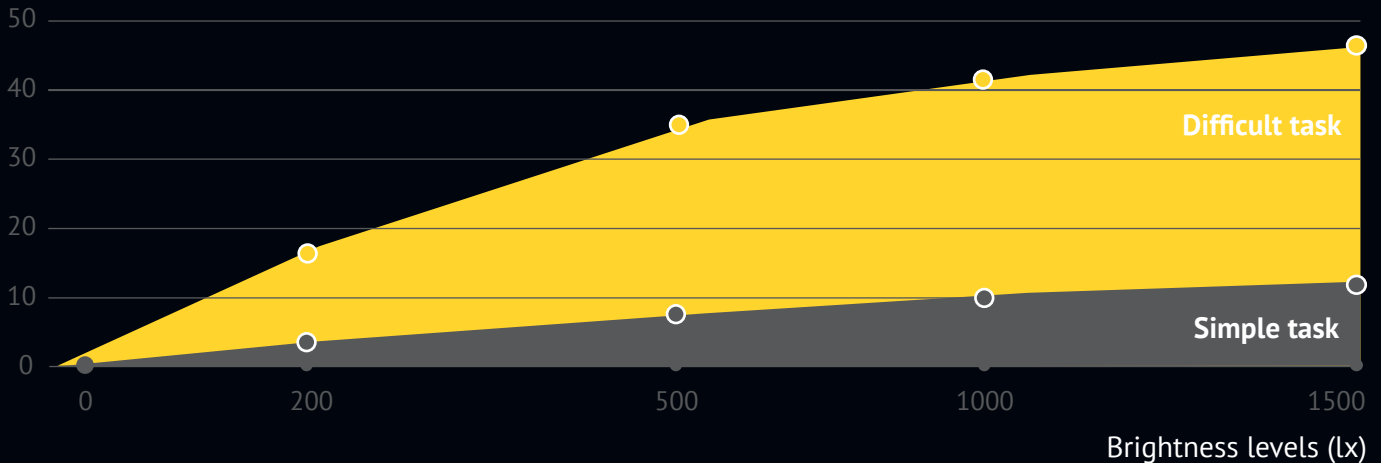
- A:** Central working area, area for both hands
- B:** Large grasping area
- C:** Extended one-hand area

OPTIMAL LIGHTING

The necessary brightness levels (lux) for workplace tasks are defined in the **Workplace Guidelines (ASR)** and the **DIN EN 12464-1** standard. Research shows that a lighting level of **750 lux or more** sustainably improves work performance. Strong contrasts, glare, and reflections should also be avoided.

In the absence of specific requirements, a general rule of thumb for assembly workstations is to ensure an average of **1000 lux** at a distance of **1 metre** from the work surface.

Relative
Performance increase (%)



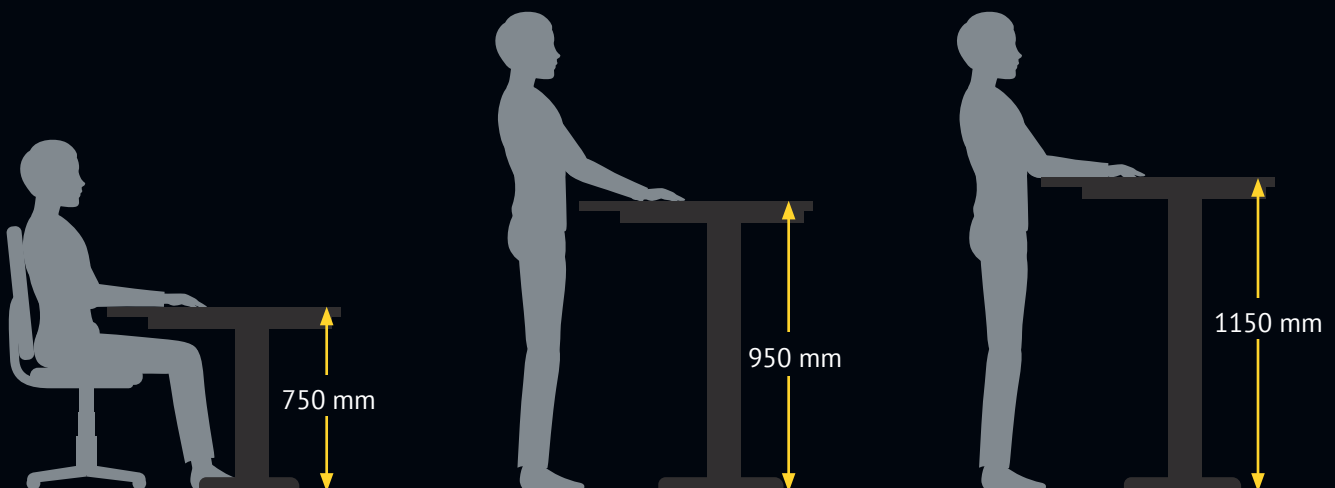
OPTIMAL WORKING HEIGHT

The optimal working height, as described in the **DIN EN ISO 14738** standard, depends on the employee's height and the type of task being performed. Tasks are generally classified into **heavy, medium, and light** work categories.

In general, the working area height should be between **800 mm and 1500 mm** to avoid tasks being performed above heart level or requiring excessive bending.

Additionally, sit-stand workstations help reduce one-sided physical strain, positively affecting both employees' well-being and productivity.

With Paletti's modular solutions, the separate adjustability of **material supply, tools and information placement, and workstation height** allows for the design of optimal working conditions. These improvements enhance employee health and increase performance.



Basic frames fixed and height-adjustable

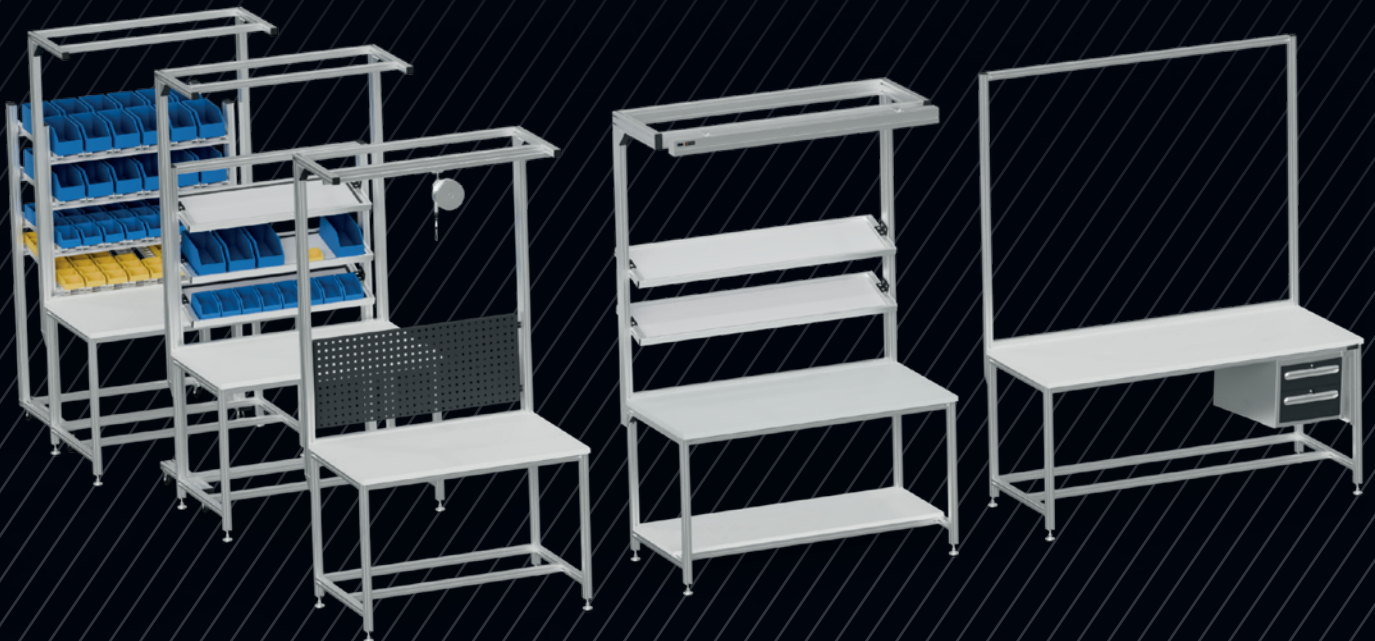
EVERYTHING AT A GLANCE

THE PALETTI TABLE FRAMES: FIXED OR HEIGHT-ADJUSTABLE

Whether fixed, height-adjustable, with or without structure, lighting, and extensive accessories, the Paletti workplace system offers the right solution for every application. From standard systems to individual customer solutions, we are the right partner for more service.

Our workplace systems **can also be expanded** with the **scalable delta3® assistance system platform**, which is based on the XTEND software developed by the Fraunhofer Institute.

BASIC FRAMES FIXED AND HEIGHT-ADJUSTABLE



Various options
to increase productivity
at workplaces



THE ADVANTAGES OF ERGONOMIC WORKPLACES

In a production environment, an ergonomic workstation system aims to increase efficiency and well-being equally. The main goal is to design workflows so that performance and productivity are optimised without compromising the health of employees. Specifically:

▶ **Reduction of health risks**

Avoidance of work-related complaints and illnesses, such as back pain, musculoskeletal disorders, or vision problems.

▶ **Increase in productivity**

When employees can work more comfortably and efficiently, production becomes more effective as errors, fatigue, and accidents are reduced.

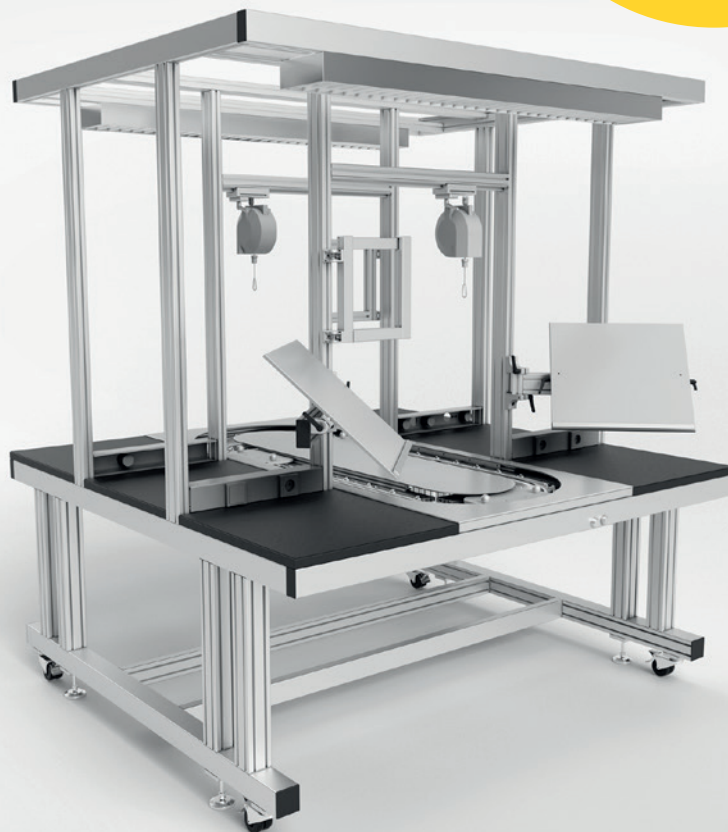
▶ **Reduction of downtime**

By avoiding illness-related absences or accidents, production downtime can be minimised.

▶ **Long-term employee satisfaction**

An ergonomic design increases well-being and employee satisfaction, leading to higher motivation, lower turnover, and better quality.

In summary, it is about designing workplaces to protect employees' health while increasing the productivity and efficiency of production processes.



FIXED TABLE BASE FRAMES

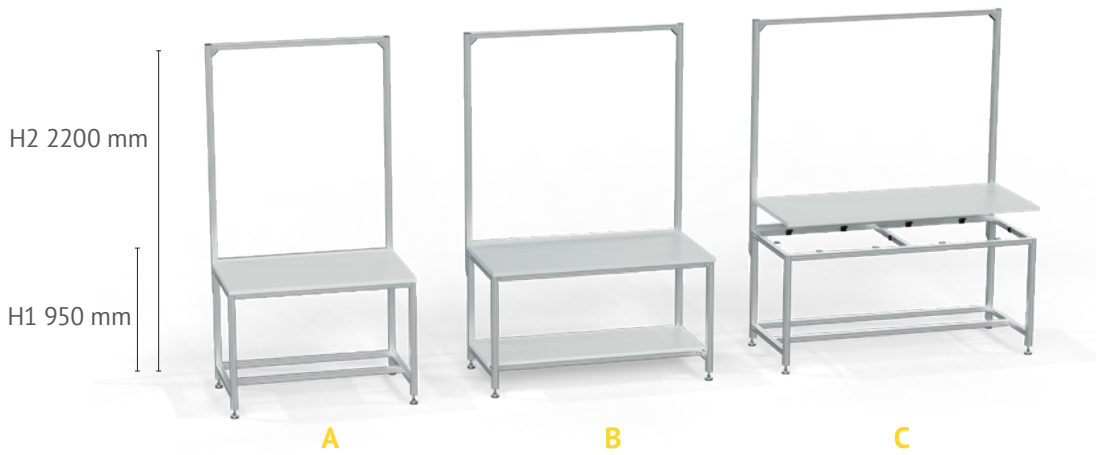


Table variant	Width	Depth	H1 / H2	Load capacity
A	1200 mm	750 mm	950 / 2200 mm	400 kg
B	1500 mm	750 mm	950 / 2200 mm	300 kg
C	1800 mm	750 mm	950 / 2200 mm	300 kg

► Construction table base frame:

Profile 40x40 semi with adjustable feet D79

Optional:

- Profile 40 x 80 semi
- Closed profiles
- ESD-capable

► Tabletop:

HPL 30 mm, coated, light grey RAL 7035

Optional:

- HPL 40 mm
- ESD-capable

Other
tabletops on
request

HEIGHT-ADJUSTABLE TABLE BASE FRAMES



Table variant	Width	Depth	H1	H2	Load capacity
A	1200 mm	750 mm	750 / 1150 mm	2000 / 2600 mm	250 kg
B	1500 mm	750 mm	750 / 1150 mm	2000 / 2600 mm	200 kg
C	1800 mm	750 mm	750 / 1150 mm	2000 / 2600 mm	200 kg

H1 Height adjustment 750 – 1150 mm

► Construction of table base frame:

Base frame made of profile 60x60 with levelling feet D79, cross strut profile 30x60 and worktop support, profiles 40x80 semi, 40x40 light

Optional:

- ESD-capable

► Tabletop:

HPL 30 mm, coated, Light grey RAL 7035

Optional:

- HPL 40 mm
- ESD-capable

► Lifting columns:

Stroke 400 mm, manual switch, control unit

Optional:

- Stroke 450 mm
- Hand control with memory

FUNCTIONAL AND EFFICIENT

TABLETOP STRUCTURES FOR HEIGHT-ADJUSTABLE BASE FRAMES

Paletti offers **basic configurations** for tabletop structures in various designs to meet diverse requirements such as the provision of information, materials, tools, and lighting. These configurations are available in a range of table widths.

For optimal customisation of the tabletop structures, various standard add-on modules are available. Among them is a **perforated steel panel back** system in an elegant design with patented connection technology, providing numerous options for material, tool, and information storage.



Following selection options are available as standard:

- ▶ Table structure made of profiles 40x40 semi
- ▶ Table structure made of profiles 40x80 semi
- ▶ Overhead lighting structures
- ▶ Half-height table structure made of profiles 40x40 semi
- ▶ Table structure made of closed profiles
- ▶ Vertically offset overhead frame with 40 x 40 semi profiles
- ▶ Rail system with rollers
- ▶ Perforated sheet back panel system

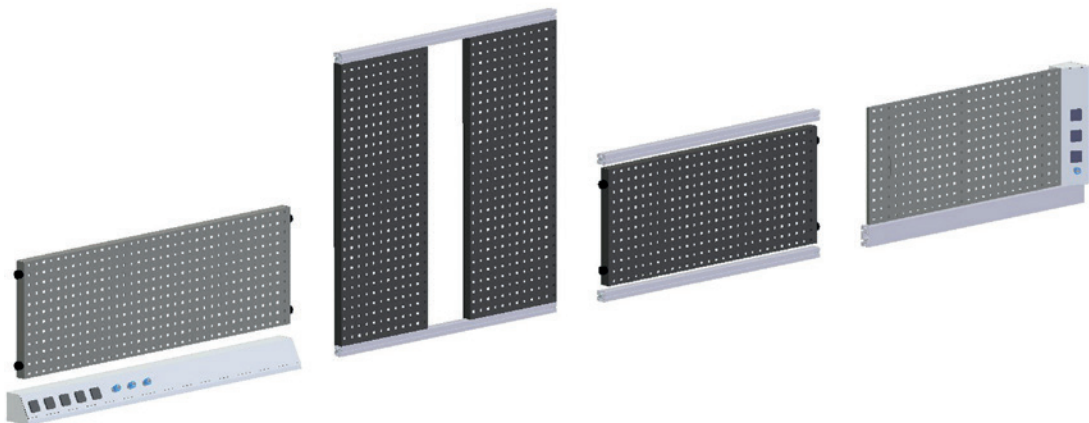


PERFORATED SHEET BACK PANEL SYSTEM

The perforated and reinforced back panel system, made of coated steel in **RAL 7016**, includes square perforations measuring 10 x 10 mm. Available in various sizes:

Widths: 750 / 1000 / 1084 / 1384 / 1500 / 1684 mm

Height: 450 mm

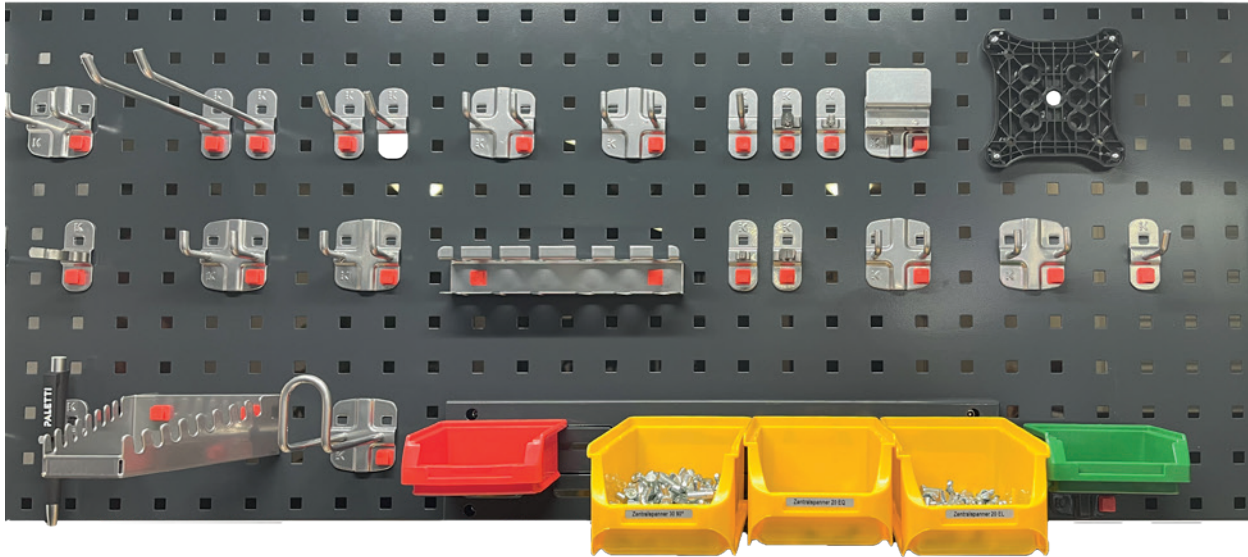


EVERYTHING FINDS ITS PLACE

MATERIAL AND TOOL PROVISION

In addition to materials and tool storage on the perforated steel back panel, Paletti offers a wide range of solutions from its modular system to meet the varied demands of modern

workplace setups. These include: **shelves**, with or without articulated arms; **Rail system with rollers**; **Dividers for packing materials**; and more.



Durable storage bins, available in 4 sizes and 5 colours and an extensive tool holder set including.



Type	Size 5	Size 6	Size 7	Size 8
L x W x H	290 x 140 x 130 mm	230 x 140 x 130 mm	160 x 105 x 75 mm	85 x 105 x 45 mm



Roller rails
(aluminium/steel)



Tool holder



Cup and tool holders



Cable tie block with
clampable Velcro band



Tool holder set



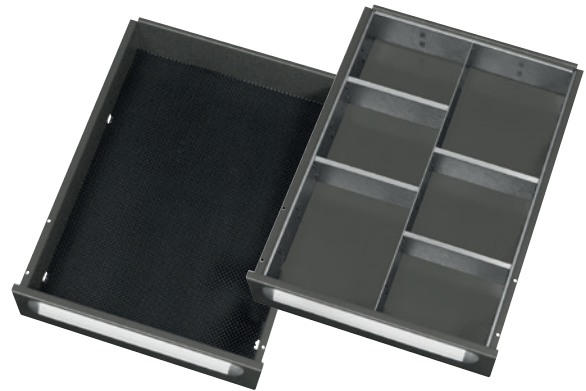
Barcode-compatible roller rails for Kanban applications

SPACE-SAVING STORAGE

UNDER-BENCH CABINET SYSTEMS

No professional workstation system is complete without under-bench drawer cabinets for storing tools and personal items. Paletti offers lockable cabinets with multiple drawer divider options, ensuring that organisation and cleanliness start within the drawers.

All Paletti drawer systems are designed for under-bench integration and **include an anti-slip mat and divider materials as standard.**



DRAWER CABINET OPTIONS:

DRAWER CABINET S1

Drawer front height: 150 mm

Total dimensions (W x D)	425 x 600 mm
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Overall height	175 mm
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Drawer dimensions (W x D)	390 x 560 mm
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DRAWER CABINET S2

Drawer front heights: 1 x 150 mm / 1 x 180 mm

Total dimensions (W x D)	480 x 600 mm
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Overall height	395 mm
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Drawer dimensions (W x D)	390 x 560 mm
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HINGED DOOR CABINET

Hinged door with interchangeable door stop, lockable

Total dimensions (W x D)	245 x 650 mm
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Overall height	360 mm
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TARGETED SUPPORT

INFORMATION AND MEDIA PROVISION

The diverse **media requirements** of modern workstations, such as power, compressed air, or data, can be easily integrated using our cable channels, power outlets, and compressed air connections. This enables workstations to operate either as **stand-alone solutions** or as **networked workstations** at any time.

For **information provision**, you can choose from a variety of holders for monitors, tablets, PCs, and keyboards—all featuring adjustable configurations to suit individual needs.

MEDIA PROVISION



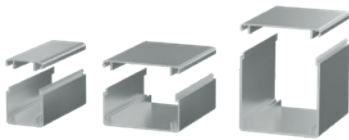
Horizontal media rail



Vertical media rail



Compressed air supply unit



Wiring duct: Available in sizes 40x40, 40x80, and 80x80



Power Strip: Includes surge protection for enhanced safety

INFORMATION PROVISION



Keyboard holder



Monitor Arm Holder



Monitor Mount



Swivel Monitor Mount



Combined projector and PC holder



Computer holder



Articulated arms

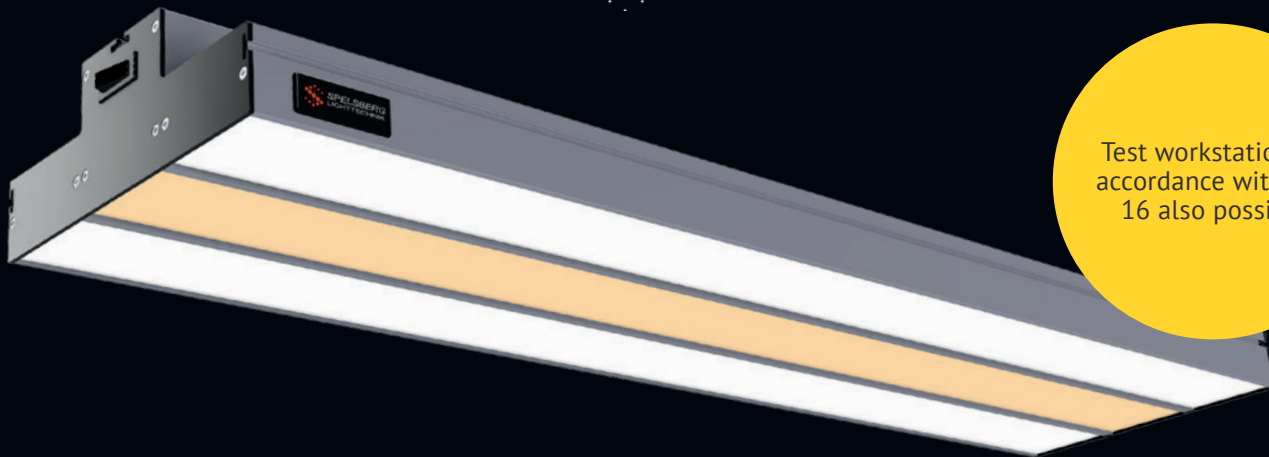


iPad holder

INDIVIDUAL, ENERGETIC, ERGONOMIC

IT ALL DEPENDS ON THE RIGHT LIGHTING

LIGHTING EMPOWERED BY



Test workstations in accordance with VDA 16 also possible.

Choosing the right lighting is particularly important. This is because optimum lighting conditions in accordance with DIN EN 12464-1 prevent premature fatigue, improve the ability to concentrate, reduce the risk of errors and thus help to increase productivity.

At the same time, the right lighting can also help to save energy. An on-site consultation with our lighting partner is part of our service.

THESE ARE THE FACTORS THAT MATTER:

- ▶ **VISUAL PERFORMANCE**
 - Lighting level
 - Glare limitation
- ▶ **VISUAL AMBIENCE**
 - Shadowiness
 - Light direction
 - Light colour
- ▶ **VISUAL COMFORT**
 - Brightness distribution
 - Colour rendering
- ▶ **ENERGY EFFICIENCY**
 - Power output
 - Service life

APL BASIC

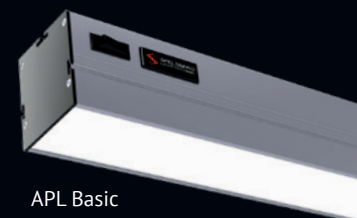
Operation: On/off switch
System power: 17 - 40 W
Max. light intensity: 900 - 1,750 lx
Colour temperature: 5000 K

APL BASIC DIM

Operation: via button dimmer
System power: 21 - 50 W
Max. light intensity: 1,100 - 2,110 lx
Colour temperature: 5000 K

APL SENSE

Operation: Motion detector
System power: 25 - 40 W
Max. light intensity: 1,260 - 1,750 lx
Colour temperature: 5000 K



APL Basic

APL POWER

Operation: On/off switch
System power: 11 - 24 W
Max. light intensity: 1,160 - 2,140 lx
Colour temperature: 5000 K

APL POWER DIM

Operation: stepless via button dimmer
System power: 11 - 25 W
Max. light intensity: 1,160 - 2,140 lx
Colour colour temperature: 5000 K

APL POWER SENSE

Operation: Motion detector
System power: 16 - 25 W
Max. light intensity: 1,620 - 2,140 lx
Colour temperature: 5000 K



APL Power

All luminaires are available in four widths:
APL 600, APL 900, APL 1200 and APL 1500 available

ADDITIONAL EXTENSIONS

PERIPHERAL DEVICES

In addition to our assembly and workstation systems, we also offer an extensive range of standardised peripheral devices that can be used to round off and improve the processmodern assembly and workstation systems.

We can customise these standard peripheral device solutions to your requirements at any time - as usual. Take advantage of the possibilities offered by our modular system.



Cobot station



Material supply trolley



Kanban shelf



Kanban shelf, mobile

CO-OPERATION WITH FRAUNHOFER AND DELTA3

SMART DIGITAL ASSISTANCE SYSTEM

Companies today face challenges like increasing flexibility demands, shorter production cycles, and growing cost pressures. Smart digital assistance systems help streamline workflows, enhance efficiency, and tackle these complexities.

The Delta3 assistance system platform, based on the XTEND system developed by the Fraunhofer Institute, is tailored to optimize picking and assembly tasks. With support from our partner Delta3, this solution ensures seamless integration and effective implementation, addressing key operational challenges and helping your business stay ahead in a competitive environment:

- ▶ Increasing complexity from diverse variants and advancing technologies.
- ▶ Constantly evolving work requirements.
- ▶ Maintaining high-quality standards.
- ▶ Managing employee turnover and the shortage of skilled labor

With this digital assistance system, employees are guided step by step through the assembly process, ensuring accuracy and efficiency. The core of the system lies in its app, accessible on tablets or smartphones, which provides detailed instructions. Additionally, components to be handled and individual assembly steps are displayed on a monitor or projected directly onto the work surface, offering intuitive and precise guidance.

ADAPT TO INDIVIDUAL REQUIREMENTS

IMPROVE YOUR WORKSTATIONS

The no-code editor is designed for ease of use, allowing effortless creation of workstation content. Administration and content distribution are managed via a web-based platform across three hierarchy levels, enabling precise assignment of instructions to individual users or user groups. The app supports rich feedback options, including entries, checklists, photos, videos, and text, ensuring a versatile and interactive experience. Additionally, content can be quickly accessed through the use of QR codes for maximum convenience.

- ▶ **No programming knowledge required** – Perfect for non-technical users.
- ▶ **Intuitive and simple** creation of work instructions and process diagrams.
- ▶ **Easy knowledge duplication** – Quickly replicate and share information.
- ▶ **Significant time savings** during onboarding and retraining.
- ▶ **Reduced waste** – Optimized workflows and minimized errors.

The seamless integration of cameras, monitors, projectors, co-bots, or other devices ensures adaptability to diverse production environments. The system's open interface architecture, powered by APIs, enables effortless connection to a wide range of ERP systems, including SAP, Navision and Sage.

With its flexible integration options, intuitive usability, and proven compatibility with existing systems, the Delta3 assistance system empowers businesses to meet the demands of smart and modern workplaces with confidence.

PALETTI

EVERYTHING HAS ITS PLACE

ENGINEERED SYSTEM SOLUTIONS



PROFILE TECHNOLOGY



PROTECTION AND SEPARATION SYSTEMS



ASSEMBLY AND WORKSTATION SYSTEMS



CONVEYOR TECHNOLOGY



LINEAR TECHNOLOGY



TESTING TECHNOLOGY



LASER SAFETY ENCLOSURES



PRECISION ENGINEERING

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