



Ergonomic WORKSPACES









For a Better Work Environment

Dedicated to human workspace



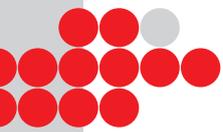
Treston Group is among the world's leading suppliers of industrial furniture and workstations.

Our workstation design and implementation process always begins with the person performing the work. In this way, we pay close attention to ergonomics, functionality and efficiency.

The four cornerstones of our operations are customer-focus, reliability, high quality and continuity. We listen to your needs and reliably deliver high-quality and durable solutions, which last from one generation to the next, thanks to our optimal design.

Our own sales network and distributors dedicated to our products provide worldwide assistance and service in support of Treston Group products.





Industrial furniture and workstations for different working environments

Treston Group's product range is divided into three categories, a separate catalogue is available for each category. Please contact our agents or email us at: sales@trestongroup.com to get your own copy.

Ergonomic workstations

The seamless efficiency of material flows is emphasised in assembly workstations.

Process changes in production or operations require reconfigurable workstations that take account of individual ergonomics requirements. Our modular product solutions allow you to react to new situations and the resulting needs in an agile manner, enabling smooth, continuous operations. Thanks to our extensive selection of accessories, we are able to satisfy even the most individual of needs.

Our own design and years of experience enable us to customise each solution to best suit its purpose. For the needs of the electronics industry, we make ESD-protected workstations, suitable for furnishing EPAs. These workstations are also highly suitable for precision mechanics and mechanical engineering.

Distinctive workshops

Our workshop drawer cabinets, tool panels and workbenches are designed to withstand heavy loads and strenuous use in workshops, repair shops and industrial environments.

The long lifetime of our furniture guarantees productivity and a satisfied user. Our workshop furniture is also well known in teaching environments.

Swift in-house logistics

Treston storage furniture encompasses both ease of use and design. Our selection provides solutions to a surprisingly broad range of storage challenges, regardless of the users and sector.

Our plastic storage drawers are durable and easy to clean, and can be customised into a complete storage system if necessary. Our product range also includes various stand and trolley solutions, for the more efficient use of storage space and easier movement of stored goods.

We also have storage furniture for environments that require ESD protection. In addition, some of our storage solutions are moulded from reprocessed plastic.

Packaging and shipping departments are often found at the end of production processes. Their logistic efficiency can be easily improved through sensible workstation design.

A great deal of manual labour and quality assurance are typical of the packaging stage, in both individual stations and line solutions. Our solution for the needs of these segments often builds on the idea of "more for less".

When accessories are located and positioned according to LEAN principles, you can significantly speed up throughput and reduce work strain. Cutters, pens, knives, rubbish bins and displays can be positioned in a way that provides the user with the best possible ergonomics, while also ensuring a free and uncluttered workspace.



Workstations for every need

Optimising workstation functionality may prove difficult without well-chosen accessories that increase usability. When a workstation is well-planned and well-equipped, workflow becomes easier and more efficient, improving ergonomics and making it easier to keep tools in place.

Modular means adaptable

Our world keeps changing at an ever-increasing pace. Until recently, products could be manufactured the same way for decades, but now we must be prepared to make changes to our work practices at a much faster rate. In order to revise the production process to meet new requirements, an extremely flexible and adaptable workstation system is essential. Our system is designed particularly with this in mind. The same basic units, equipped with accessories that meet your needs, offer a wide range of applications.

Customised for your application and your operator

The purpose of a workstation determines its basic requirements and accessories. The needs and requirements may change considerably from one employee to another, but we understand that no two people are alike. When a workstation is equipped for and adjusted to an individual's needs, each phase of the production process can be completed without delay, with accuracy and with maximum comfort.

Treston Group offers a wide range of ergonomic workstations to choose from, from those that can be delivered quickly to those that provide versatile options to meet any need.





Ergonomics in our workstations

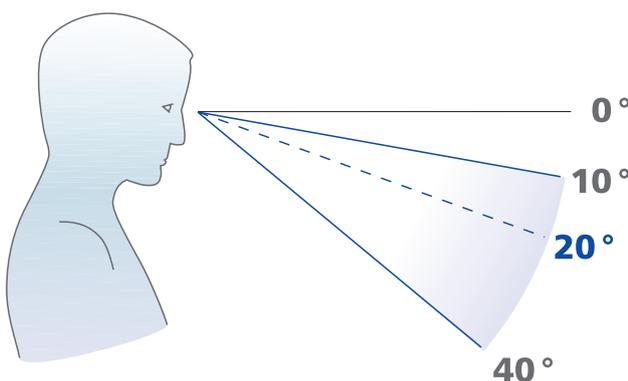
Costs associated with health and safety problems are an ever increasing concern to all industries. This concern drives industries to seek solutions to provide a healthy, safe and productive working environment. **Designing a workplace with ergonomics in mind improves the employees' wellbeing which in turn improves productivity.**

The modular design of Treston Group workstations enables proper ergonomics. With a wide range of accessories and adjustments we can provide customers with a customized solution using standard components. **Modularity and accessories are individually adjustable according to the task and operator requirements.** The

aim is to create an uncluttered workstation and utilise the available workspace as efficiently as possible.

Treston Group's workstations and accessories can be adjusted for operators of different heights working with left or right hand. Correctly adjusted workstations decrease stress in the muscles and enable productive work throughout the shift.

Please do remember that ergonomics is not only adjusting your chair. Real ergonomics has to do with proper lighting, noise absorption, body movements and air quality. More information about lighting ergonomics on page 52.



Location of the correct view angle

Focus point should follow these guidelines:

- Continual movement of view should be in 30 degree sector
- Continuous view angle should keep the head in a comfortable position (line of view should be 10 to 40 degrees below the horizontal line)
- Displays should be positioned 20 degrees below the horizontal line

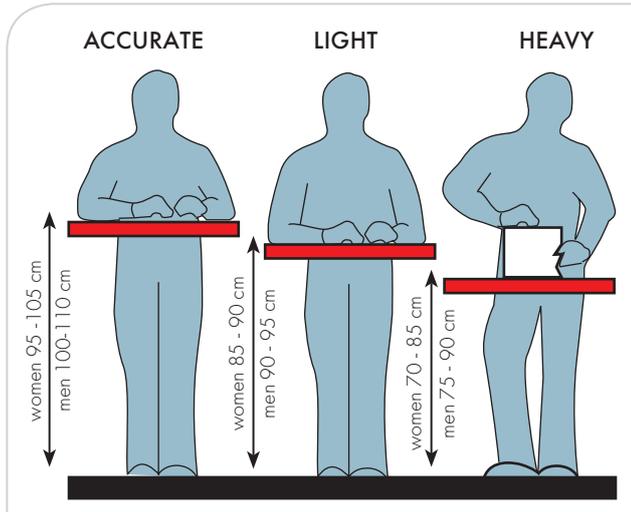


Seated or standup work?

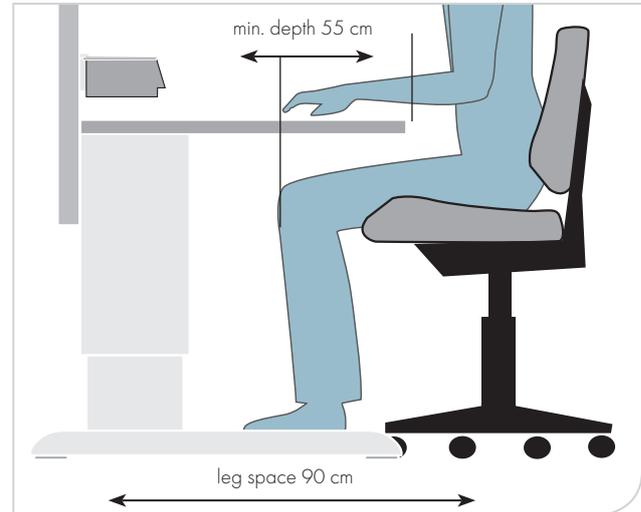
The choice of a seated or standing working position is dependent upon the task to be executed. The height of the work surface is determined by such factors as size and weight of the part, precision requirement, assembly process, repetitiveness etc.

Height adjustability is especially useful when the size of the products being handled varies or when several people use the same workstation.

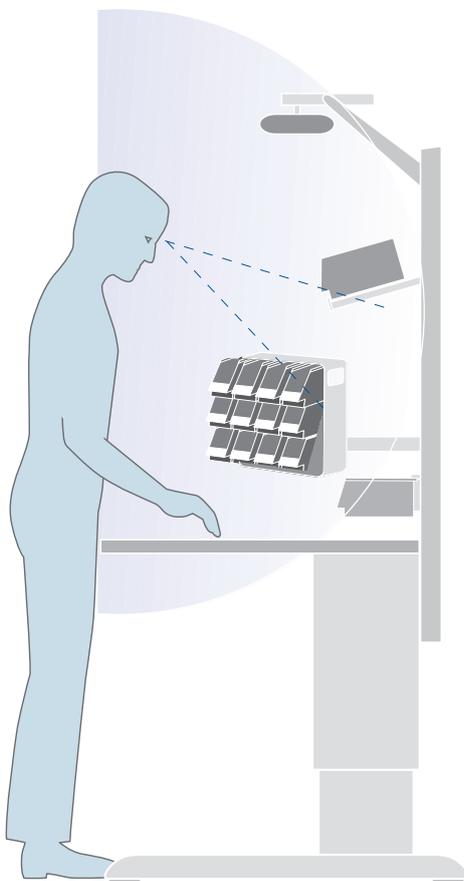
When designing the work space for a seated operation leg space requirements must be considered. The recommended space should be at least 80 cm wide and 90 cm deep at floor level. For standing work, the required space is much smaller.



Standing work



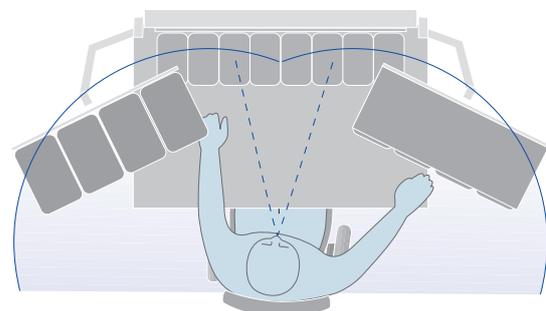
Seated work



Reaching distances and heights

To improve working postures in assembly work, the most-often used parts should be placed into the optimal horizontal working area within the operator's sight. Avoid overly large or deep workbenches, which can cause improper reach and reduced productivity. Assembly work is most ergonomic when parts are within easy view and reach.

The vertical work area and reach zone can be fine-tuned with accessories. Our height adjustable arms optimize work movements and keep parts or tools within easy access. Operators can work with wrists and arms in optimal posture with shoulders relaxed. Tilted bin rails and shelves keep the wrist in a neutral position when picking parts. The tilt angle also provides easy identification of the parts with the proper viewing angle.



Lighting ergonomics, see page 52.

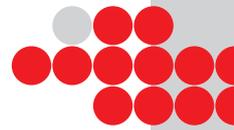


Decorating with colour

The working environment can also look good and be inspirational. By choosing the colours of your equipment to match your corporate colours, you can reinforce your corporate image whilst creating a pleasant working environment.

Doors, drawers and perforated panels all come in various colours. The combination of different colours creates an interesting effect. Colours can also act as codes or identifiers.





Colour codes

Workbench, cabinet, shelving and drawer frames are all light grey (RAL 7038 or RAL 7035) or dark grey (RAL 7045). Outside of the standard colour range, additional colours are available on request. Please contact our agents or email us at: sales@trestongroup.com.

	Colour code	RAL code	Doors	Drawers	Perforated panels and back panels
Light grey	49*	RAL 7035	STD	A/STD	A/STD
Light grey	35 & 41*	RAL 7038	STD	A/STD	A/STD
Dark grey	45	RAL 7045	A	A	A
Blue	07	RAL 5007	STD	A/STD	STD
Red	25	RAL 3002	A	A	A



The colour code is included in those product codes that are formed with numbers.

It is either at the end, following the hyphen (e.g. 860 804-35), or in the middle (e.g. C 33407000).

***49 and 35 are ESD protected light greys, 41 is non-ESD protected light grey. Please remember that ESD protection will result in a slightly darker shade of colour than the given RAL code.**

STD = Standard factory colour, normal warehouse delivery, listed price
A = Factory colour, delivery 15 days from the factory, listed price



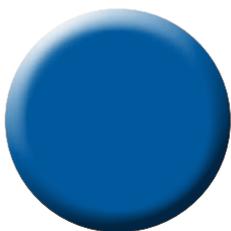
Light grey
RAL 7035



Light grey
RAL 7038



Dark grey
RAL 7045



Blue
RAL 5007



Red
RAL 3002

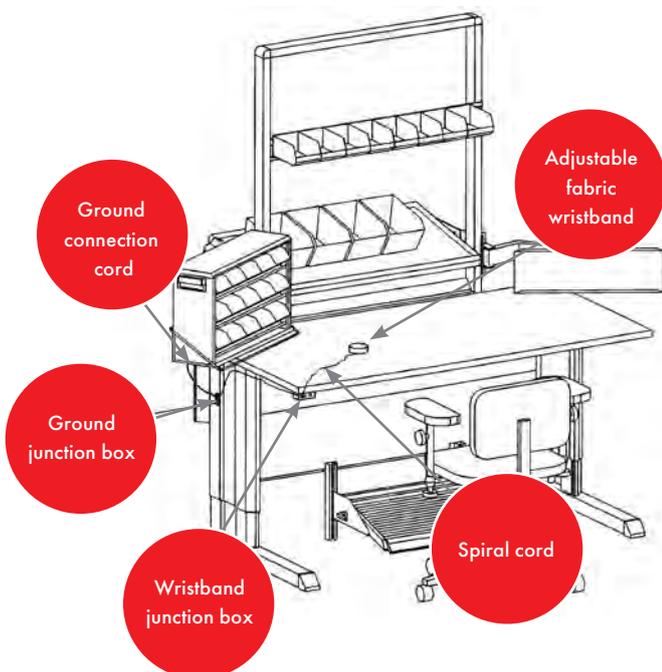
Printed colours do not give a fully accurate representation of painted colours. Please ask our agent about various samples.



ESD protection guarantees a safe working environment

Particularly in the electronics industry, work is often carried out in an EPA that is protected from static discharge. Protection in this case means effective earthing, which involves both earthing equipment and painting the frame of the ESD workstation with semi-conductive paint.

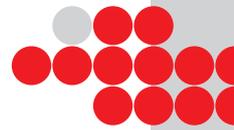
We have extensive experience in developing, manufacturing and supplying ESD furnishings. All our workstations and related products are supplied with an electrically semi-conductive coat of paint and we supply furnishings, seats and earthing components for ESD-protected workstations. We also build complete production systems equipped with ESD-protection. Our products meet the requirements specified in the IEC 61340-5-1 standard.



Static electricity

The abbreviation ESD stands for Electrostatic Discharge, a process that occurs between two objects of differing electric potential. Normally, electric charges are discharged slowly from objects' surfaces. If the difference in electric potential becomes too great, the electrical current accelerates resulting in a sudden current surge.

An ESD protected area is called an EPA. In an EPA, ESD protection must be observed in all materials, employees' clothing and air humidity. Workstations and employees in an EPA must also be earthed with protective resistance (1 Mohm) to an ESD earth.



Our standards comply with the highest certification requirements



<p>Quality certification</p> <p>ISO 9001:2010</p>	<p>Environmental Management System certification</p> <p>ISO 14001:2010</p>	<p>Packaging treatment according to EU directives.</p>	<p>IPA Qualification Certificate</p> <p>The Concept workstation is suitable for use in class 10.000 clean rooms in accordance with US Federal Standard 209E.</p>
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<p>ESD-approval certification</p> <p>Our ESD products fulfill the basic requirements of IEC 61340-5-1.</p>	<p>GS certification for lighting and TP workbench</p>	<p>Russian certificate of conformity</p>	<p>Russian certificate of conformity</p>
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To obtain a copy of our certificates, please contact info@trestongroup.com.

! The seller provides a five-year warranty for material and manufacturing defects in the products excluding electronic parts and components for which the warranty provided is a two-year period.

