

**TRESTON**



GO BEYOND THE TRADITIONAL WORKSPACE

# Mobile ergonomics with Treston carts

Bring close to work | Enjoy the ergonomics | Customize with ease



# Carts for any industrial and technical working environment

## A quality cart improves productivity

In industrial and technical environments, work is not always stationary and work equipment needs to be moved between workspaces. Ergonomic carts that are light to move make this easier, while simultaneously improving productivity at work. The durable Treston carts are modular and, using standard accessories and add-ons, they can be customized to meet any need.

Our high-quality technical products fulfil the highest requirements, offer outstanding value for money and meet the requirements of every single workspace – from production to maintenance, to in-house logistics to picking and packing, as well as ESD areas and R&D.



Universal use



Transportation and mobile storage



Packing and carton storage



Additional mobile work surface



The guarantee period for products manufactured by Treston is 5 years (Concept battery 1 year) from the date of delivery; this excludes workbench tops, trade parts, electronic components, custom made articles and moving parts, for which there is a guarantee period of 2 years.

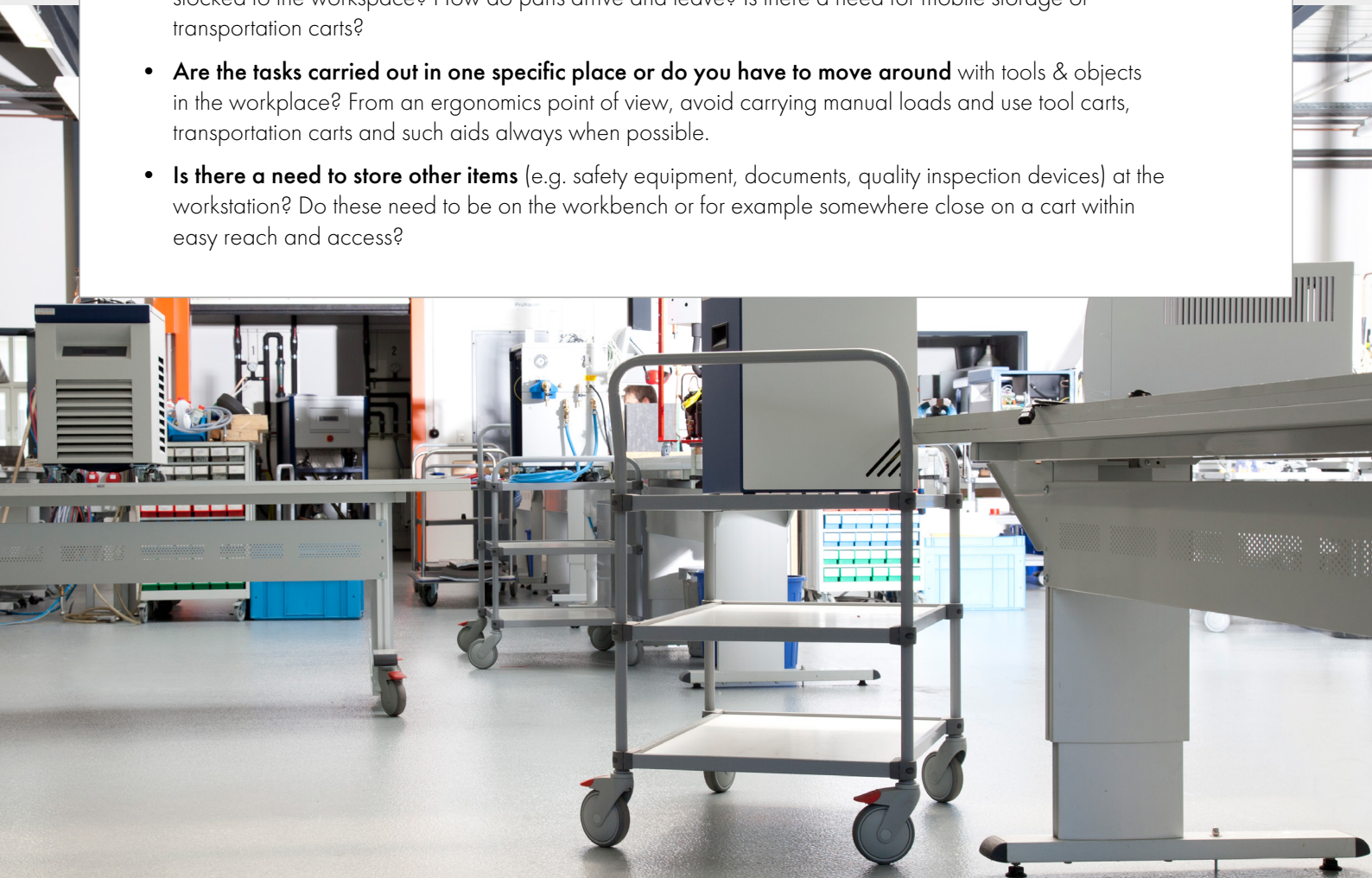


# How to design an ergonomic, functional, and productive workspace?

The purpose of a workstation or workspace is the first factor when determining the basic requirements and accessories for it. What kind of tasks are carried out in the workspace and how? The second factor is the person doing the work. The personal needs and requirements may change considerably from one employee to another as no two people are alike. When a workstation, be it a workbench, assembly line or a cart, is equipped for the task and adjusted to the individual's needs, each phase of the production process can be completed without a delay, with accuracy, and with maximum comfort.

**Consider the following issues when designing an ergonomic, functional and productive workspace:**

- **What tasks are carried out at this workstation?** What is the component weight & size handled at this workstation? These set the basic requirements for the workbench type, load capacity, size of work surface as well as range of accessories selected.
- **Are there several people working at this workstation?** Are there several different tasks carried out at this workstation that require different working postures? These have an effect on what kind of height adjustment method should be chosen for the workbench: Allen key, hand crank or electric height adjustment.
- **What is the space available for use?** Make sure there is enough space for all the needed equipment and materials at the workstation and that furniture and equipment are positioned for supporting smooth workflows and processes. Sufficient space should be reserved for completing the tasks and moving around in the workspace.
- **How do the in-house logistics flows affect the workspace layout?** How are components and materials stocked to the workspace? How do parts arrive and leave? Is there a need for mobile storage or transportation carts?
- **Are the tasks carried out in one specific place or do you have to move around** with tools & objects in the workplace? From an ergonomics point of view, avoid carrying manual loads and use tool carts, transportation carts and such aids always when possible.
- **Is there a need to store other items** (e.g. safety equipment, documents, quality inspection devices) at the workstation? Do these need to be on the workbench or for example somewhere close on a cart within easy reach and access?



# What to consider when selecting a cart?

**Selecting the right cart is not complicated, but there are certain considerations to take into account to ensure you get the best possible cart for your needs.**

- 1. Why do you need the cart?** What is its purpose? Are flexibility and easy reconfiguration important features of the cart? If you have a fixed task and fixed need for the cart, a specific cart for that need will most likely be the best solution for you. But if you need a cart that can be easily adapted to changing needs and production processes, choose a cart that has a modular structure, a wide range of accessories, and good ergonomics, which will help you flexibly adapt the cart to a multitude of tasks.
- 2. What are the objects being handled on the cart?** Are you moving lightweight boxes of the same size and weight or bulky equipment that can differ in size and weight? The weight and shape of the objects handled determine the load capacity and shelf and work surface size of your cart. If the size of handled objects varies, select a height adjustable work surface and/or shelves to ensure proper ergonomics no matter what size of objects you handle. Tilted shelves improve access and handling of objects, as it enables you to work from your power zone (see page 6).
- 3. How are the objects handled?** Are they sorted or unsorted? Can you stack them or are they loose? Especially for unsorted and loose objects, it is better to equip the cart shelves with edges and/or rubber mats, to ensure the goods do not fall over when moving. Remember though that shelves with edges make it more difficult to handle, lift and lay down heavy objects. Another possibility is to use a caged cart, where the side walls of the cart are at least partially closed in order to help keep objects in place. Mesh panels are a good option for this: they allow visual inspection and keep the construction light.
- 4. What kind of working environment is it?** Do you have to enter doors with the cart? How wide are the walkway spaces? If you have to move through doors in different workspaces and/or long distances within the space, check the walkway and door widths to ensure sufficient space.
- 5. What type of casters should I have?** A quality caster is of the appropriate size in relation to the working environment and purpose of the cart. See the next spread of this leaflet for more information on casters.
- 6. How about handles?** Carts that are moved around a lot and transported for longer distances should be equipped with at least one handle, to make handling, pushing and pulling easy, effortless and ergonomic. See the next spread of this leaflet for more information on handles.
- 7. How often is the cart used?** If you have a cart in active everyday use, invest in a high quality, reliable and durable cart with high quality casters. This might be a more expensive initial investment, but in the long run a high quality cart will pay for itself with its long lifetime and flexibility in use.
- 8. Consult the people using the cart in their work.** They have the best hands-on experience and can give valuable input on the required features, such as size and load capacity, as well as on the accessories needed to perform the work ergonomically and efficiently. Knowing your loads helps you to buy equipment of appropriate capacity.
- 9. How ergonomic is the cart?** As a quick ergonomics check, make sure the handles, work surfaces, and accessories are easily height adjustable to adjust to the worker and task at hand to ensure proper ergonomics. Further information on ergonomics for manual handling of loads is on the next spread.

# Why choose Treston carts?

## For a better working environment

Treston is one of the world's leading suppliers of industrial furniture and workstations. For over 50 years we have been a pioneer in designing ergonomic furniture and work environments: we affect the work environment of over a million employees annually with over 500,000 workstations delivered over the years.

Our customers can rely on us to provide them with expert services for building quality ergonomic work environments. Treston carts comply with the philosophy of LEAN manufacturing, and our wide range of products with ESD protection is suitable for use in ESD protected areas (EPA).

## Unique and universal

Treston carts can be accessorized and configured to store, transport and organize any type of materials. Our carts can be customized for a wide range of applications with various types of accessories from adjustable shelves, bins, perforated panels & hooks, IT accessories, to tool cabinets and more.

Their modular structure, easy accessory height adjustment and very wide range of accessories make the Multi and Basic carts unique carts in the market. The features of these carts make them universal in use: depending on the frame size and accessories selected, the same cart can be used as mobile tool storage, materials & components stock, packing material storage, picking cart, equipment stands, additional work surface, and transportation cart – your imagination is the limit.

Accessories in many of our workbenches and carts are modular in widths M20/M30/M36 inches. These modular accessories are interchangeable and can be used both in carts as well as in workbenches. It does not get more universal than this!

## Ergonomic and efficient

The key characteristic of Treston carts is easy and effortless movability while either empty or fully loaded. A cart that is easy to maneuver is a joy to use and push, even over those slightly higher thresholds. High quality, large casters ensure this.

Treston carts are designed with the user and ergonomics in mind, for example in terms of pushing, as well as other factors that affect usability. When the cart's push handle is the right shape and at the right height, moving the cart when it is loaded will provide an easy power grip and does not cause physical strain. Height adjustable accessories add the final touch, making Treston carts an ergonomic and efficient choice.

## Convenient and cost-saving

According to the philosophies of LEAN and the 5S method, the implementation of the manufacturing process should be based on optimizing the organisation of tools, material flow, and people; avoiding loss and unnecessary work; and minimizing setup times. The goal is to continuously improve the fluency of work processes by consulting those who do the work. Treston carts, of which many can be easily modified with accessories, support LEAN thinking and enable optimized process design and implementation.

Highly flexible Treston carts with modular structure, height adjustable and interchangeable accessories have a long lifetime, are easy to adjust to various changing needs and enable easy layout changes. Convenient and cost-saving in many ways!

BRING CLOSE TO WORK

ENJOY THE ERGONOMICS

CUSTOMIZE WITH EASE

# Ergonomics for manual handling of loads

Manual handling of loads (also known as MMH – manual materials handling) means moving or handling things by lifting, lowering, pushing, pulling, carrying, holding, or restraining. Manual handling of loads is generally considered to be an occupational risk factor for low back and shoulder complaints (1) and it is in fact the most common cause of occupational fatigue, low back pain and lower back injuries (2, 6). Therefore, it should not come as a surprise that paying attention to ergonomics for manual handling of loads is extremely important for the safety and health of the workers as well as for the efficiency and productivity of the processes.

## Pushing and pulling from an ergonomics viewpoint

Pushing and pulling are the two physical tasks most commonly related to working on and operating carts. The most common risk factors, related to pushing and pulling tasks, which could hinder the ergonomics, are forceful pushing/pulling, cart design that does not promote neutral body postures, wrong direction of exerted forces (e.g. pulling when you should be pushing), one handed pushing or pulling, too heavy loads and wrong handle height. (1, 6)

A task suitable cart that adapts to the size of the user is the answer to reducing the risk of work related musculoskeletal disorders (WMSD), especially for lower back, knee and shoulder injuries. (3, 4) When selecting a cart for the task, you should always consider the human body power zones, where people have the greatest strength and most comfort working. See the image on the right as a reference. Cart design should ensure that pushing and pulling can be done from the optimal height, between the knuckle and shoulder height of the worker, with the arms as close to the body as possible. Working in your power zone reduces the start force needed for pushing and pulling, reduces the effort and force needed to perform work tasks, and reduces the stress on your back and shoulders.

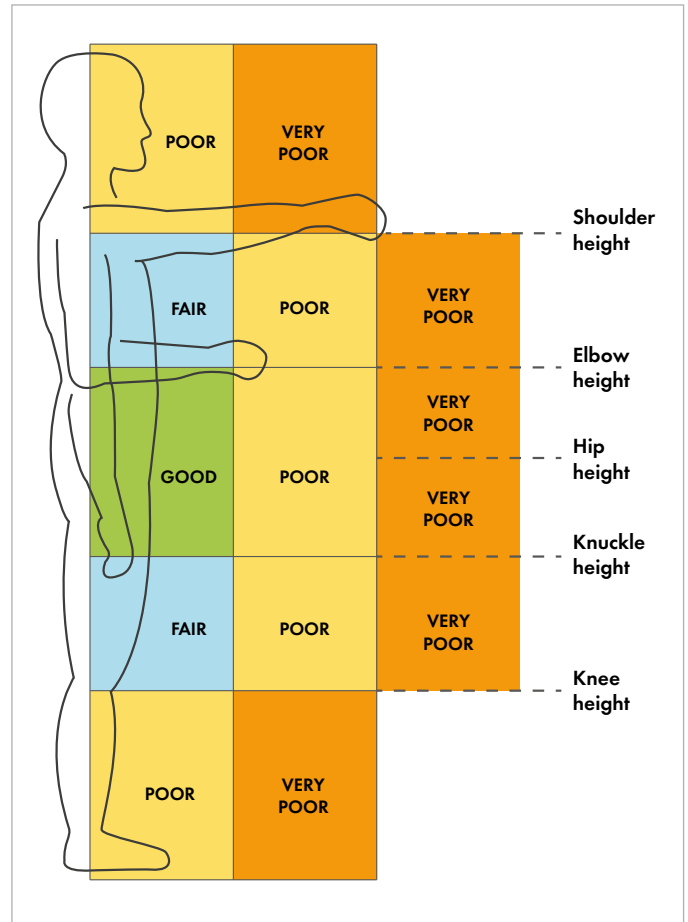


Illustration on the power zones where people have the greatest strength and most comfort, in regards of lifting and placing loads, pushing and pulling (i.e. above the knees, below the shoulders, and close to the body).

## CHANGE IN THE NATURE OF MANUAL LOAD HANDLING TASKS

In the past decades, industrial workspaces have been mostly redesigned so that carrying objects has been replaced by transporting objects by pushing or pulling them in carts, carts, hand pallet trucks and such. For example, in the automotive supply sector about 10% of all working processes involve pushing and pulling on a regular and repetitive basis. (3)

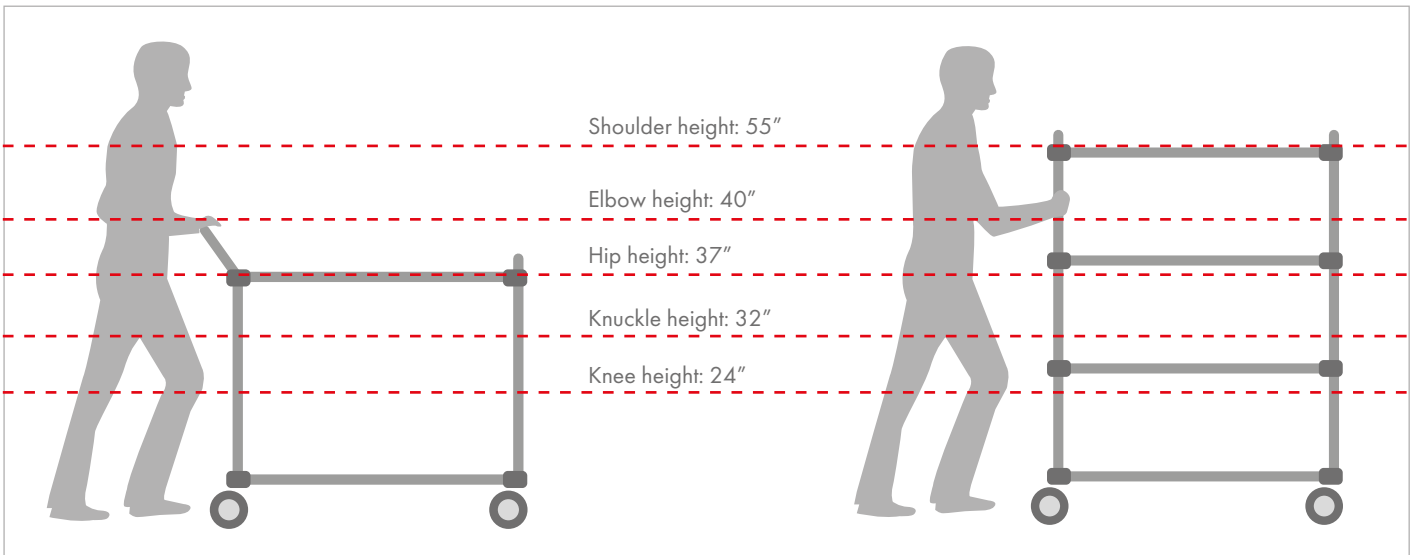
In addition, the rapid growth of the e-commerce sector has increased the number of distribution centres worldwide. The primary job at these distribution centres is order picking and delivery, where manual handling aids such as carts, carts, hand pallet trucks and such are used to perform the tasks. The use of these aids has again eliminated carrying objects, changing the nature of manual load handling tasks predominantly to pushing and pulling.

In general, it has been estimated that nearly half of common manual load handling tasks in workplaces consist of pushing and pulling exertions performed on level surfaces and variable inclined ramps. (4)

## Consider the handle position and design

Vertical handles are considered the most optimal, as every sized worker is able to grasp the handles in their unique power zone. Handles can be horizontal as well, as long as they are the correct height for the user. Preferred handle height is between the shoulder and knuckle height of the worker, optimizing the force applied for pushing and pulling. See image "Elbow height is the optimal position in regard to push forces" for reference. (6)

The optimal shape for handles is cylindrical and smooth, which allows the best power grip with straight wrists. The handle diameter should be big enough to enable power grip instead of pinch grip. Power grip provides up to 75% more strength compared to pinch grip. Power grip involves grasping the handle by wrapping all the fingers around it, instead of grasping with thumb and tips of the other fingers. (6)



**Elbow height is the optimal position in regard to push forces. Displayed heights are indicative for average sized male.**

## Casters play an important role

A quality caster is of the appropriate size in relation to the working environment and purpose of the cart. The bigger the caster, the easier it is to move the cart. For example, big casters make it easier to push the cart over thresholds and other similar obstacles. The tread in quality casters withstands wear and tear. The wheel/tread material is not the only factor influencing the usability and easy movability of the cart, as the flooring material also affects how well the caster rolls and moves. Swivel casters are also handy on a cart, making it easy to

maneuver even in small spaces. We recommend using four swivel casters in tight spaces, making it easier to turn and control loads. Strong caster brakes lock the cart in position, making sure that it stays where it is supposed to be.

Casters have a big effect in minimizing the start forces needed to get the cart moving as well as in reducing the rolling resistance and therefore play an important role in ensuring proper ergonomics. The amount of force required to move loads with carts depends on a number of factors:

- weight and shape of the load
- type and condition of floor surface (e.g. smoothness and density)
- route taken (e.g. slopes and obstacles)
- type of caster, especially the materials used
- size of caster
- maintenance of casters – cleaning, lubricating and/or replacing casters on a regular basis has a vital effect in maintaining the ride comfort and minimizing the push effort. (6)



## Task experience is the key to reducing strain

Task experience and correct working technique in pushing and pulling play an important role in reducing some measures of biomechanical strain and therefore yield potential for reducing the risk of injury. (3) For example, pulling a lighter weight cart at hip height, with arms outstretched, would result in very high compressive force at the lower back, as opposed to pushing a much heavier cart between shoulder and elbow height, arms closer to body, which results in much less of a compressive force at the lower back. (1) As a reference, see the illustration on the power zones where people have the greatest strength and most comfort.

If your goal is to ensure efficient processes and ergonomic working conditions, start by selecting the correct type of cart for the task and then orientating all workers with the physical aspects and best working techniques for the specific task at hand. No matter how fancy the features of your cart, if your workers use bad techniques while performing their tasks with the cart, you are sure to increase the risk of injuries and create inefficiency in processes. If necessary, modify work practices so that workers can perform their tasks and work within their power zone.



Although there is no exact weight limit that is safe, a weight of 44–55 lbs is heavy to lift for most people and it thus increases the risk of back injury. (5)

### Sources

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4. Nimbarte A, Sun Y, Jaridi M, Hsiao H. Biomechanical loading of the shoulder complex and lumbosacral joints during dynamic cart pushing task. *Applied Ergonomics*, September 2013, Vol. 44(5), pp.841-849.
5. <https://osha.europa.eu/en/publications/factsheet-73-hazards-and-risks-associated-manual-handling-loads-workplace/view>
6. National Institute for Occupational Safety and Health (NIOSH). Ergonomic Guidelines for Manual Material Handling. <https://www.cdc.gov/niosh/docs/2007-131/pdfs/2007-131.pdf>





## WHAT OUR CUSTOMERS SAY

"Our choice was based on design, ergonomics and service life. Treston's durable furniture, with Scandinavian design, was a perfect solution for us. Our employees work with small details, so they needed a comfortable workplace with an efficient organization of production space".

Mr Alexey Doodin, Operational Manager of SPA StarLine.

Read all our customer stories at: <https://www.treston.us/about-us/customer-stories>





## Universal carts

These Treston carts can be equipped and accessorized for any task and function. The modular frame structure with upright tubes ensures proper ergonomics, as all accessories are easily height adjustable to suit the user's specific needs and gives limitless accessory options with the modular M20/M30/M36 accessories. These carts have a long lifetime and give value for your money, as they can be easily adjusted to meet changing needs and adjustments in production processes.

Detailed product data and product order numbers starting from page 21.

### Basic cart – do not let the name fool you, there is nothing basic about this cart!

This modular cart equipped with an ergonomic handle has a very wide range of height adjustable accessories for adapting the cart to meet the user's specific needs. Effortless adaptability makes this cart an ideal solution for LEAN production environments. Though sturdy and with a large load capacity, the Basic cart is effortless to move due to the large 4.92" casters. Two sided – possibility to accessorize both sides with different accessories. Truly a universal cart that can function, for example as tool cart with perforated panels & hooks, mobile storage with stacking bins or as transportation cart with adjustable shelves.



Upright module frame



Ø4.92"



772 lbs



#### UNIQUE: Ergonomic, effortless to adapt and move, ideal for LEAN environments

- The frame includes a handle, a bottom shelf and a rubber mat as standard parts
- All M30 module accessories are compatible with the cart – over 150 options to choose from!
- Ideal for LEAN environments
- Four swivel casters, two with brakes



WATCH this animation showcasing Basic cart  
<https://youtu.be/vmXXZONreMM>





## Multi cart – the most adaptable cart with three frame widths and two heights and dozens of accessories

Multi cart is available in three different widths: M20, M30 and M36. This means that all our module-sized height adjustable accessories can be used with the cart. Multi cart is also two sided – possibility to accessorize both sides with different accessories. These features make Multi cart our most adaptable cart and thus it serves universal needs. Multi cart supports heavy loads, but is at the same time easy to move, making it also simple to transport heavy loads, such as equipment and measuring units. Depending on the accessories chosen, it serves as transportation cart, mobile storage, equipment rack, packing material cart, picking cart, tool cart and much more!



Upright module frame



Ø3.94"



660 lbs



**UNIQUE: Due to its modular structure, several size options and a very wide selection of height adjustable accessories Multi cart adapts to any needs and functions**

- Three frame widths, two frame heights, compatible with all M20/M30/M36 height adjustable accessories
- Select from ready made combinations or build your own configuration from a wide range of accessories.
- Sturdy shelves have height and tilt adjustment, edges, and rubber mats – safe to operate as loads keep in place
- Four swivel casters, two with brakes




WATCH this timelapse video showcasing the versatile usage options of Basic and Multi carts. <https://www.youtube.com/watch?v=4U0DQLQhK8g>



## Fitters cart – Sturdy and durable, low model cart with wide range of accessories

Fitters cart is especially handy for those tasks that are done sitting on a stool or a saddle chair and moving around the work object – the low model of the cart keeps the tools and supplies ergonomically at the right height and easily accessible. Fitters cart is often used in heavy duty environments, such as in maintenance and machinery assembly, but it can be easily accessorized for many different tasks and work environments.



Upright module frame

Ø3.94"


660 lbs

**UNIQUE: Ensures proper ergonomics for tasks done sitting on a stool or saddle chair and while moving around the work object**

- Four different ready-to-use combinations
- Can also be easily configured for wide range of tasks due to large selection of accessories
- All M30 module accessories are compatible with the cart – tens of options to choose from!
- Four swivel casters, two with brakes

## Treston Tower storage and workstation unit – 4-sided, movable little giant for efficient storage and work

Being versatile and easily customisable for different environments and tasks, the Treston Tower storage and workstation unit is ideal for, for example vehicle and machinery assembly lines, service and maintenance departments, and for any work that requires plenty of mobile storage and workspace near the product. The frame is equipped with M30 upright frame module and thus almost all modular size M30 height adjustable accessories are compatible with this storage and workstation unit.



Upright module frame

Ø3.94"

1322 lbs

**UNIQUE: Up to 86 ft<sup>2</sup> of versatile storage space and takes up less than 8 ft<sup>2</sup> of floor space**

- Ideal for facilities implementing LEAN and 5S philosophies because the open structure enables easy and quick visual review of the workstation
- Increases productivity and efficiency by saving time, since the tools and components are near the product and can be moved easily
- Enables proper ergonomics, since all tools and supplies can be placed at the correct height for the user
- Four swivel casters, two with brakes



WATCH this animation showcasing Treston Tower  
<https://youtu.be/68szMf8i-Y>





# Transportation & mobile storage carts

Treston selection of transportation and storage carts includes several different options to choose from.

These carts enable supplies and parts to be moved smoothly to wherever they are needed and store close to the workstation. These carts turn effortlessly in small spaces and have good storage capacity to be able to hold sufficient quantities of components and materials.

Detailed product data and product order numbers starting from page 24.



## TRTA cart – Lightweight cart with lots of storage space and large casters - extremely easy to move around with

A sturdy and light-to-move cart for use in transporting equipment, as intermediate storage, and in moving components and materials around in various environments. A sturdy steel frame and height-adjustable shelves make this a versatile cart.



7.87" - 30.31"/52.76"



Ø4.92"



330 / 660 lbs



**UNIQUE: Easy movability, proper ergonomics and large storage capacity make this ideal for transportation and storage**

- 6 frame sizes, with 2 or 4 shelves included
- Accessories: extra shelves, steel mesh panels at the ends of the cart or on the sides, shelf dividers and document holder
- Large casters and light structure – easy to move
- Ergonomic power grip with round handles
- Four swivel casters, two with brakes

## Storage cart – cost-efficient storage solution

A standard cart for basic storage and transportation needs. Three shelves, the middle one with height adjustment. Cost-efficient and compact in size.



Ø3.94"



198 lbs



### UNIQUE: Compact sized standard cart for basic transportation and storage needs

- One frame size with three shelves, the middle one with Allen key height adjustment
- Load capacity per shelf is 66 lbs, 198 lbs in total.
- All shelves have a small edge and a rubber mat – no need to worry items might fall off
- Four swivel casters, two with brakes

## Stacking bin cart – A sturdy, double-sided cart for stacking bins of your choice

The solid steel-frame cart is a double-sided storage fixture for attaching four different sizes of stacking bins, to meet all kinds of needs: up to 112 stacking bins per cart. Wide variety of M30 module height adjustable accessories can be attached to the cart as well. Parts and products are easily accessible and in sight, and they can be effortlessly moved where needed.



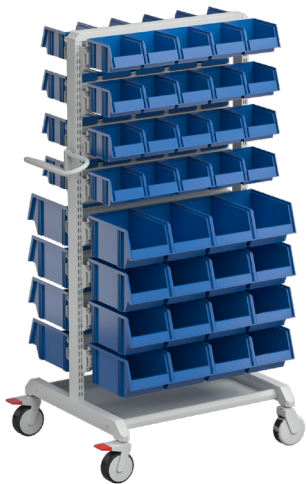
Upright module frame



Ø3.94"



660 lbs




### UNIQUE: Sturdy, but easy to move small parts & component storage for various working environments

- Sixteen step-by-step height adjustable bin rails, eight bin rails per side, height can be adjusted easily without tools
- Four different stacking bins sizes to choose from
- Five standard colour options for the bins, including crystal-clear
- Four swivel casters, two with brakes

## Cabinet cart – Movable small parts storage at its finest

Cabinet cart can be equipped with 8 bin cabinets of your choice. The bottom shelf makes the cart sturdy and it can be used as an extra storage space. Optimal for small parts storage.




Upright module frame

Ø3.94"

660 lbs

**UNIQUE: Up to 480 separate bins in one cart for maximizing your small parts storage**

- Height of the cabinet fixing rails can be adjusted easily without tools
- See-through bins with wavy bottoms enable good visibility and easy picking of products
- All M30 module accessories are compatible with the cart – tens of options to choose from!
- Four swivel casters, two with brakes





## Packing material carts

**Additional storage space is often needed at a packing station for different supplies, boxes, recycled materials, and rubbish.** Handy carts designed with packing in mind provide space to keep boxes and other materials within arm's reach, but at the same time are easily moved aside as needed. Handy solutions for the storage and use of packing materials.

Detailed product data and product order numbers starting from page 25.



### Low carton cart LCT – for large cartons

Three dividers can be assembled crosswise or lengthwise. The fourth divider is a push handle. Designed especially for large cartons.



Ø3.94"



330 lbs



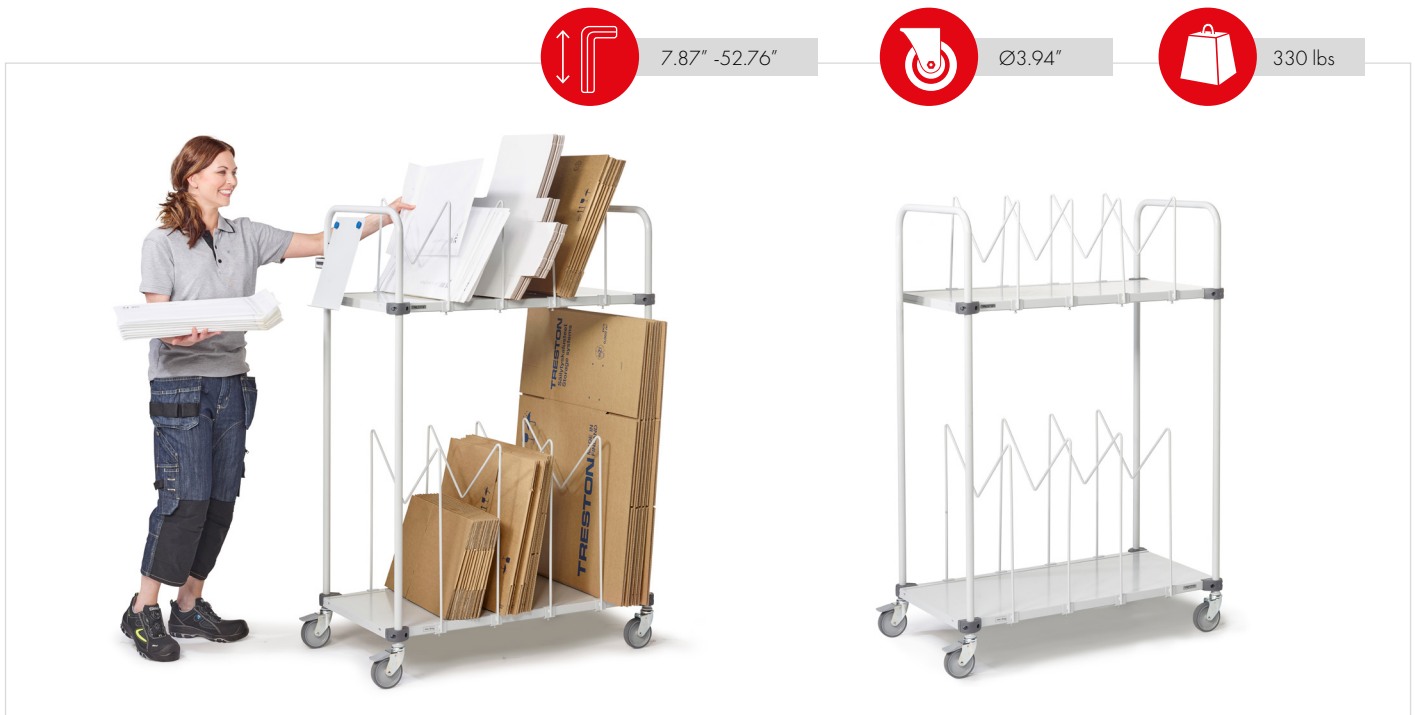
#### UNIQUE: Easy to move carton cart for large cartons

- One size
- Possibility to adjust dividers crosswise or lengthwise
- Four swivel casters, two with brakes



## High carton cart HCT – Ergonomic and easy to move carton cart for various box sizes

Height adjustable shelves and dividers with stepless horizontal adjustment allow easy adjustment of the cart for various sizes of cartons.

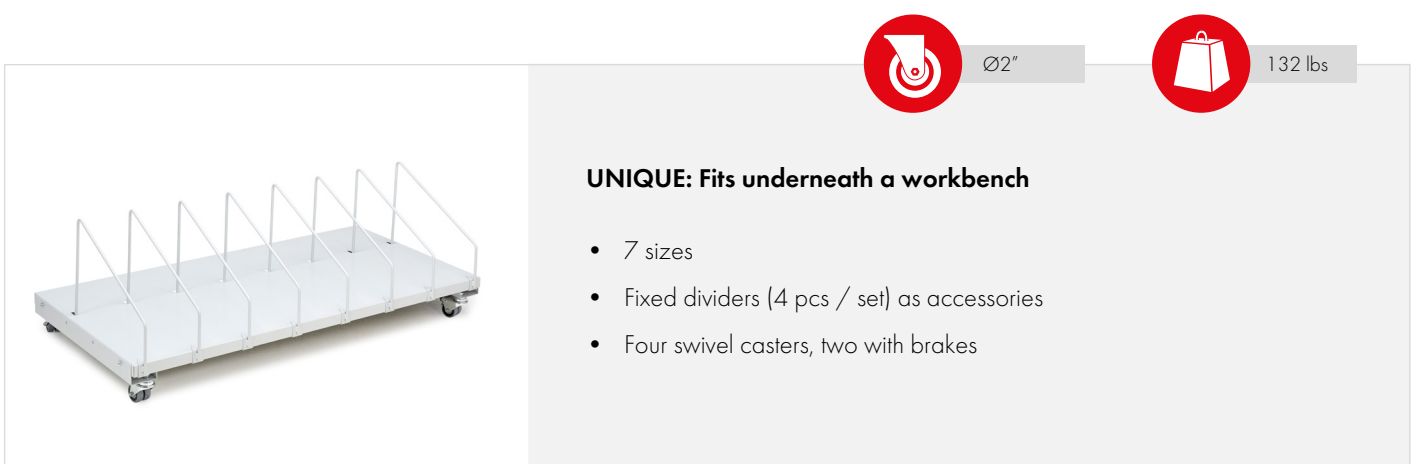


### UNIQUE: Adjustable shelves and dividers allow configuration for various carton box sizes

- Includes 2 height adjustable shelves and 8 dividers in total, in two heights, with stepless horizontal adjustment
- Extra dividers as accessories
- Ergonomic power grip – vertical, round handle is optimal for users of any size and height
- Four swivel casters, two with brakes

## Carton cart – underneath a workbench

Floor level storage for cartons. This cart can be positioned out of the way, underneath a workbench, for example.



### UNIQUE: Fits underneath a workbench

- 7 sizes
- Fixed dividers (4 pcs / set) as accessories
- Four swivel casters, two with brakes



## Additional mobile work surfaces


**Additional worktop space (secondary working surface) is often needed in workspaces** to store, for example task related equipment and devices and to provide additional workspace for tasks seldom but regularly carried out in the workstation. These extra work surfaces allow quick and easy layout changes in the workstation and production cell, if production requirements change. The primary purpose of these products is to act as additional work surfaces, that can be moved if necessary, but they are not designed for transporting and moving materials and components for long distances.

Our extensive range of additional mobile surfaces and smaller sized workbenches with casters provide a wide selection of options to choose from.

Detailed product data and product order numbers starting from page 26.

### SAP cart – bestseller!

Easy to move additional work surface that can be locked in place. Available in three sizes to meet different additional work surface needs. A handle, which makes moving the cart easier, is available as an accessory. In addition, the SAP cart can be equipped with bottom and middle shelves. The height can be adjusted with an Allen key, which means that the cart adapts to handling various sizes of objects. The SAP cart is often used together with Treston TP workbenches.




25.6" - 35.43"

Ø3.94"

330 lbs


**UNIQUE: The best-selling Treston cart!**

- Three different sizes
- A handle, middle and bottom shelves available as accessories
- Four swivel casters, two with brakes



## Concept cart – sturdy steel framed work surface

A steel-framed additional work surface with height adjustment, suitable for many purposes. The integrated bottom shelf offers much needed extra storage space. Easy and effortless to move around as needed, but the casters with brakes ensure that the cart stays firmly in place if needed. Well suited for use with Concept workbenches.



25.6" - 35.43"

Ø3.94"

330 lbs


**UNIQUE: A space saver with multiple use**

- Integrated bottom shelf
- Can be equipped with an additional shelf or Drawer unit 30 series
- Four swivel casters, two with brakes

EPA

## Concept bench with electric height adjustment and battery – freedom of mobility

The smaller sized Concept workbenches, such as 39.37" x 23.62", equipped with casters, electric height adjustment, and battery set are an excellent option for workspaces where you need a compact size, easily height adjustable, and mobile work surface. You get all the ergonomic benefits of easy, electric height adjustment, and freedom of mobility with the battery set – no need to worry if the power cables are long enough for moving the work surface around the workspace. Battery set sold only to EU countries.



33.46" - 49.21"

Ø3.94"

660 lbs

**UNIQUE: Freedom of mobility without worrying about power cables – operated with a battery**

- 15 size variations in frames
- Wide range of accessories and add-on products for easy customisation
- Four swivel casters, two with brakes


NEW!

EPA

Available from Nov 2020

## 39.37" wide Workshop bench with casters – for heavy use

The smaller sized Workshop bench with casters is an excellent choice as an additional work surface for heavier industry, for example workshops, automotive and other repair shops, maintenance units, and challenging environments in which chemicals or heavy loads are handled on a daily basis.




30.71" - 39.37"    Ø3.94"    1102 lbs

**UNIQUE: Load capacity up to 1102 lbs!**

- Sturdy model that can withstand heavy wear and tear
- 5 table top options: steel top 1.5 or 3 mm, wood or vinyl top with steel or plastic edge trim
- Wide range of accessories and add-on products for easy customisation
- Two swivel casters with brake and two fixed casters

## MLCT Mobile height adjustable work surface – for light loads and tight spaces

Compact sized additional work surface with easy gas spring height adjustment is ideal for tight spaces and tasks where easy maneuverability is a must. Optimal for handling light loads and small sized objects. Ideal also for laptop use. Suitable for technical and EPA environments where easy ergonomics and mobility are required.



29.92" - 46.65"    Ø3.94"    88 lbs

**UNIQUE: Easy height adjustment with gas spring**

- Easy to move around due to the light construction - aluminium frame, symmetric steel legs
- Accessories available: Accessory box underneath the table top, accessories basket to the frame and a folder holder
- Four swivel casters, two with brakes

# Product data

## Basic carts

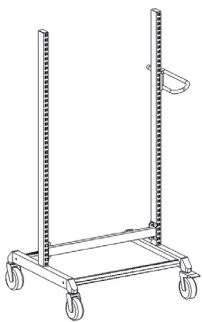
Name	Size W x D x H inches	Max load lbs	Order No	Order No ESD
Basic cart 1*	30.7" x 28.1" x 64.2"	660	BT-170B	BT-170B ESD
Basic cart 2	31.5" x 28.1" x 64"	770	C 740 07 102	C 740 49 102
Basic cart 3	31.5" x 28.1" x 64"	770	C 740 41 003	C 740 49 003
Basic cart 4	31.5" x 28.1" x 64"	770	C 740 07 004	C 740 49 004
Basic cart 5	31.5" x 28.1" x 64"	770	C 740 41 105	C 740 49 105
Basic cart frame**	31.5" x 28.1" x 64"	770	859 859-41	859 859-49

\* Up to 112 stacking bins can be attached to one cart, must be ordered separately.

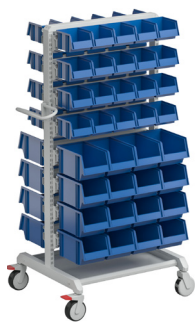
\*\* Basic cart frame includes bottom shelf and rubber mat.



See <https://www.treston.us/carts/workshop-carts/basic-cart> for full list of accessories available, such as bin rails and bins, larger selection of shelves, perforated panels, etc.



Basic cart frame



Basic cart 1



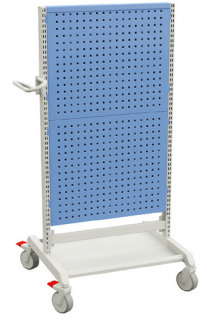
Basic cart 2



Basic cart 3



Basic cart 4



Basic cart 5

## Multi carts

Name	Module	Outer dims W x D x H inches	Order No	Order No ESD
Multi cart 1	M20	20.87" x 28.1" x 44.5"	C 721 41 001P	C 721 49 001P
Multi cart 1	M30	30.7" x 28.1" x 44.5"	C 721 41 002P	C 721 49 002P
Multi cart 1	M36	36.8" x 28.1" x 44.5"	C 721 41 003P	C 721 49 003P
Multi cart 2	M20	20.87" x 28.1" x 64.2"	C 722 41 001P	C 722 49 001P
Multi cart 2	M30	30.7" x 28.1" x 64.2"	C 722 41 002P	C 722 49 002P
Multi cart 2	M36	36.8" x 28.1" x 64.2"	C 722 41 003P	C 722 49 003P

Multi cart 1 includes: a handle, one bottom shelf and one adjustable shelf, depth: 19.9".

Multi cart 2 includes: a handle, one bottom shelf and three adjustable shelves, depth 25.6".



See <https://www.treston.us/carts/picking-and-storage-carts/multi-cart> for full list of accessories available, such as bin rails and bins, larger selection of shelves, perforated panels, etc.



Multi cart 2



Multi cart 1

## Multi cart frame

Name	Module	Size W x D x H inches	Max load lbs	Order No	Order No ESD
Multi cart 1 frame	M20	20.87" x 28.1" x 44.5"	660	860 812-41	860 812-49
Multi cart 2 frame	M20	20.87" x 28.1" x 64.2"	660	860 818-41	860 818-49
Multi cart 1 frame	M30	30.7" x 28.1" x 44.5"	660	860 154-41	860 154-49
Multi cart 2 frame	M30	30.7" x 28.1" x 64.2"	660	860 156-41	860 156-49
Multi cart 1 frame	M36	36.8" x 28.1" x 44.5"	660	860 155-41	860 155-49
Multi cart 2 frame	M36	36.8" x 28.1" x 64.2"	660	860 157-41	860 157-49

Frame includes the handle.

## Bottom shelf

Name	Module	Size W x D inches	Max load lbs	Order No	Order No ESD
Bottom shelf*	M20	18.5" x 19.9"	220	860 846-41	860 846-49
Bottom shelf	M20	18.5" x 25.6"	220	860 847-41	860 847-49
Bottom shelf*	M30	28.3" x 19.9"	220	860 057-41	860 057-49
Bottom shelf	M30	28.3" x 25.6"	220	860 067-41	860 067-49
Bottom shelf*	M36	34.3" x 19.9"	220	860 059-41	860 059-49
Bottom shelf	M36	34.3" x 25.6"	220	860 069-41	860 069-49

\*Compatible only with Multi cart 1.

Adjustable shelves are equipped with an ESD mat (49) or rubber mat (41).

## Adjustable shelves for carts

Name	Module	Size W x D inches	Max load lbs	Order No ESD
Adjustable shelf, stepless depth adjustment	M20	18.5" x 19.9"	110	921 49 003
Adjustable shelf, stepless depth adjustment	M20	18.5" x 25.6"	110	921 49 004
Adjustable shelf, stepless depth adjustment	M30	28.3" x 19.9"	110	921 49 007
Adjustable shelf, stepless depth adjustment	M30	28.3" x 25.6"	110	921 49 008
Adjustable shelf, stepless depth adjustment	M36	34.3" x 19.9"	110	921 49 011
Adjustable shelf, stepless depth adjustment	M36	34.3" x 25.6"	110	921 49 012
Adjustable shelf	M20	18.5" x 19.9"	220	921 49 001
Adjustable shelf	M20	18.5" x 25.6"	220	921 49 002
Adjustable shelf	M30	28.3" x 19.9"	220	921 49 005
Adjustable shelf	M30	28.3" x 25.6"	220	921 49 006
Adjustable shelf	M36	34.3" x 19.9"	220	921 49 009
Adjustable shelf	M36	34.3" x 25.6"	220	921 49 010

Adjustable shelves are equipped with an ESD mat (49) or rubber mat (41).

## Accessories for Multi cart

Name	Module	Size W x D x H inches	Max load lbs	Order No
1. Shelf for packing material		28.2" x 23.6" x 1.25" 34.3" x 23.6" x 1.25"		SPM30-49 SPM36-49
2. Brackets for upright tube SPM				SPMBS-49
3. Divider hoops set SPM-shelf		.3" x 15.75" x 11"		PDH600-49
4. Aluminium bin rail	M30	29" x 2.2" x 3"	33	BP750C
	M36	35" x 2.2" x 3"		BP900C
5. Tablet bracket MY				MY
LCD bracket MH				MH
Adapter set		7.9" x 4.3" x 2.4"		AS2
6. Auxiliary steel shelf		8.5" x 11.7" x .8"	6.6	ASSA4
7. Roll holder set	M30		88	890 547-49P
	M36			890 548-49P
8. Fixed tape dispenser				FTD50
9. Basic label dispenser				BLD20
10. Document holder A4			11	928 49 008P
11. Equipment tray		19.7" x 9.8" x 4.9"	33	928 49 002P



+

See <https://www.treston.us/carts/picking-and-storage-carts/multi-cart> for full list of accessories available, such as bin rails and bins, larger selection of shelves, perforated panels, etc.



### Fitter's carts

Name	Module	Size W x D x H inches	Max load lbs	Order No
Fitter's cart 1	M30	31.5" x 28.1" x 33.7"	660	C 730 41 001
Fitter's cart 2	M30	31.5" x 28.1" x 33.7"	660	C 730 41 002
Fitter's cart 3	M30	31.5" x 28.1" x 33.7"	660	C 730 41 003
Fitter's cart, frame	M30	31.5" x 28.1" x 33.7"	660	C 730 41 000
Fitter's cart 4		31.3" x 28.1" x 36"	660	C 730 07 004



Fitter's cart 1



Fitter's cart 2

### Fitter's cart accessories

Name	Size W x D x H inches	Max load lbs	Order No
Bottom shelf with rubber mat	28.3" x 22" x 1.25"	330	852 719-41
Bottom shelf with HDPE plastic covering	28.3" x 22" x 1.25"	330	852 683-41
Shelf with rubber mat	28.3" x 22" x 1.25"	330	852 720-41
Shelf with HDPE plastic covering	28.3" x 22" x 1.25"	330	852 684-41
Extendable shelf + brackets	28.3" x 22.8" x 1.3"	110	852 687-49

Fitter's carts can be combined with all M30 accessories.



Fitter's cart 3

Fitter's cart 3 includes 6 cone racks.



Fitter's cart 4

### Cone rack M30 for tool holders HSK, Capto, ISO

Name	Size W x D x H inches	Max load lbs	Order No
Cone rack M30	29.2" x 8.1" x 3.7"	110	890 729-49

Tool holders sold separately.



Cone rack M30



See <https://www.treston.us/carts/workshop-carts/fitters-cart> for full list of accessories available, such as bin rails and bins, larger selection of shelves, perforated panels, etc.

### Treston Tower storage and workstation unit

Name	Size W x D x H inches	Max load lbs	Order No
Treston Tower frame with casters	33.8" x 34.6" x 82.9"	1322	890 701-45

### Examples of accessories and add-on products

Name	Size W x D x H inches	Max load lbs	Order No
1 Flow-through shelf + brackets M30*	28.3" x 32.7"	330	890 710-49
2 Spacer bar, M30**			851 483-49
3 Perforated back panel M30, max 3 pcs/side	28.3" x 24.1"		861 512-49
4 Hook set 3 (69 pcs)			855 003-51
Steel shelf M30	29.1" x 15.75"	110	852 770-49
Bin rail M30	29.2" x 3.94"	110	859 151-49
LCD monitor holder for perforated panel		22	890 715-49
Treston NaturLite Led Wing 500 (+ bracket 3.7"/4.7")	16.9" x 4.7" x 2"		TNL500W

\* A flow-through shelf can fit two 15.75" deep shelf bins successively.

\*\* Recommended to be used with flow-through shelving.



See <https://www.treston.us/storage/tool-storage-systems/treston-tower-storage-and-workstation-unit> for full list of accessories available, such as bin rails and bins, larger selection of shelves, perforated panels, etc.

### Adjustable cart TRTA

Name	Size W x D x H inches	Shelf size W x D inches	Max load lbs	Order No	Order No ESD
2-shelf cart*	35" x 20.87" x 40.2"	31.5" x 16.9"	330	TRTA4082	TRTA4082 ESD
2-shelf cart*	42.9" x 20.87" x 40.2"	39.4" x 16.9"	330	TRTA4102	TRTA4102 ESD
2-shelf cart*	35" x 24.8" x 40.2"	31.5" x 20.87"	330	TRTA5082	TRTA5082 ESD
2-shelf cart*	42.9" x 24.8" x 40.2"	39.4" x 20.87"	330	TRTA5102	TRTA5102 ESD
4-shelf cart**	42.9" x 20.87" x 59.6"	39.4" x 16.9"	660	TRTA4104	TRTA4104 ESD
4-shelf cart**	42.9" x 24.8" x 59.6"	39.4" x 20.87"	660	TRTA5104	TRTA5104 ESD

\* Shelf adjustments between 7.9"-30.3"

\*\* Shelf adjustments between 7.9"-52.8"



2-shelf TRTA cart and 4-shelf TRTA cart

### Extra shelves TRHA

Name	Shelf size W x D inches	Max load lbs	Order No	Order No ESD
Extra shelf	31.5" x 16.9"	110	TRHA408	TRHA408 ESD
Extra shelf	39.4" x 16.9"	110	TRHA410	TRHA410 ESD
Extra shelf	31.5" x 20.87"	110	TRHA508	TRHA508 ESD
Extra shelf	39.4" x 20.87"	110	TRHA510	TRHA510 ESD

### End mesh panels NET2

Name	Size W x D inches	Set	Order No ESD
End mesh panel	23.8" x 14.3"	Incl. 2 panels	NET2

The mesh panels can be installed at the ends of the cart or on the sides. An angle bracket is set on the edge of the upper and lower shelf and the mesh is screwed into place. The 4-shelf cart can hold 2 mesh panels on top of each other.



TRTA with end mesh panels

### Document holder DSA4

Name	Size	Order No ESD
Document holder	A4	DSA4 ESD

Semiconductive epoxy powder coated steel. Includes two magnets.



Document holder

### Low M-divider hoops LDH

Name	Size	Order No
Divider hoops	18.1" x 12.4"	LDH

Steplessly adjustable. 4 pcs per set. M-shape (the lowest point 4.1" from shelf). Suitable only 16.9" deep shelves.



Low M-divider hoops LDH

### Storage cart

Name	Size W x D x H inches	Max load lbs	Order No	Order No ESD
Storage cart	25.6" x 17.7" x 30.5"	3 x 66	852 773-41	852 773-49





### Stacking bin cart

Name	Size W x D x H inches	Max load lbs	Order No	Order No ESD
Stacking bin cart	30.7" x 28.1" x 64.2"	660	BT-170B	BT-170B ESD

The cart includes 8 steel bin rails in both sides. Stacking bins must be ordered separately. One steel bottom shelf comes as standard.



See <https://www.treston.us/carts/bin-and-cabinet-carts/stacking-bin-carts> for full list of compatible bins.

### Cabinet cart

Name	Size W x D x H inches	Max load lbs	Order No	Order No ESD
Cabinet cart	30.7" x 28.1" x 63"	660	BT-550B	BT-550B ESD

This assembly holds 8 cabinets, which must be ordered separately. One steel bottom shelf comes as standard.



See <https://www.treston.us/storage/plastic-bins-and-cabinets/small-parts-storage-cabinets> for full list of small-parts storage cabinets.

### Low carton cart

Name	Size W x D x H inches	Shelf size W x D inches	Max load lbs	Order No
Low carton cart	42.9" x 20.87" x 59.6"	39.4" x 16.9"	330	HCT410

### High carton cart

Name	Size W x D x H inches	Shelf size W x D inches	Max load lbs	Order No
High carton cart	42.5" x 24.8" x 40.2"	39.4" x 24.8"	330	LCT610



Low carton cart



High carton cart

### Carton cart

Name	Description	Size W x D x H inches	Order No
1. Caster set	Caster set for carton cart. The caster set gives you a cart from the SPM-shelf.	46.5" x 23.6" x 16.7"	SPMCS-41
2. Shelf for packing material	23.62" deep shelf for many purposes. The shelf can also be equipped with PDH600 divider hoops. Max load 132 lbs.	18.4" x 23.6" x 1.25"	SPM20-49
		28.2" x 23.6" x 1.25"	SPM30-49
		34.3" x 23.6" x 1.25"	SPM36-49
		45.9" x 23.6" x 1.25"	SPM1200-49
		51.9" x 23.6" x 1.25"	SPM1350-49
		57.8" x 23.6" x 1.25"	SPM1500-49
3. Divider hoops set (4 pcs), SPM-shelf	Divider hoop set for the SPM-shelves. Height 11". The fixed divider is tightened with the screw at the front edge of the shelf.	69.8" x 23.6" x 1.25"	SPM1800-49
		.3" x 15.75" x 11"	PDH600-49



Shelf for packing material, caster set and divider hoops set

## SAP cart

Name	Size W x D x H inches	Max load lbs	Order No	Order No ESD
SAP cart	27.6" x 19.7"	330	SAP507	SAP507 ESD
SAP cart	39.4" x 27.6"	330	SAP710	SAP710 ESD
SAP cart	59.1" x 27.6"	330	SAP715	SAP715 ESD
Lower shelf for SAP cart	27.6" x 19.7"	88	AT507	AT507 ESD
Lower shelf for SAP cart	39.4" x 27.6"	88	AT710	AT710 ESD
Extra shelf for SAP cart	27.6" x 19.7"	88	LT507	LT507 ESD
Extra shelf for SAP cart	39.4" x 27.6"	88	LT710	LT710 ESD
Handle for SAP cart	depth 19.7"		PUSH50	PUSH50
Handle for SAP cart	depth 27.6"		PUSH70	PUSH70

Equipped with four swivel casters (ø 3.94"), two of which have brakes.



SAP cart with  
lower shelf



SAP cart with lower shelf, extra  
shelf and handle

## Concept cart

Name	Size W x D x H inches	Max load lbs	Order No	Order No ESD
Concept cart	19.7" x 27.6" x 25.6"-35.4"	330	CONT705-41	CONT705-49
Extra shelf for Concept cart	15.75" x 19.7"	55	CONTS504-49	CONTS504-49
Drawer unit 30/15	11.8" x 17.9" x 5.9"	22	859 330-49	859 330-49
Drawer unit 30/22	11.8" x 17.9" x 8.7"	22 / drawer	890 340-49	890 340-49
Drawer unit fastening set			890 653-49	890 653-49

Equipped with four swivel casters (ø 3.94"), two of which have brakes.



Concept cart, extra shelf and drawer unit 30/15

## Concept workbench frame, motor adjustable

Name	Frame size W x D inches	Bench frame max load lbs	Order No
Workbench frame	39.4" x 23.6"	660	103 49 015P
Workbench frame	39.4" x 29.5"	660	103 49 030P
Workbench frame	39.4" x 35.4"	660	103 49 062P



Concept workbench frame,  
motor adjustable

## Concept bench tops

Name	Size W x D inches	Order No LPL	Order No ESD
Bench top	40" x 24"	14-9684102	14-9703502
Bench top	40" x 30"	14-9684109	14-9703509
Bench top	40" x 36"	14-9684117	14-9703517



Concept bench top

## Caster set for Concept bench

Name	Order No	Order No ESD
Caster set Ø3.94"	834 734-00	860 429-00

## Battery set for Concept motor bench

Name	Order No
Battery set	BSC001

Available from Nov 2020. Battery set sold only to EU countries.



Battery set for  
Concept motor bench

### Workshop legs

Name	Height inches*	Order No
Adjustable H-leg for casters (1 pc)	28.7"-37.4"	836 029-49
Swivel caster with brake** (1 pc)	Ø3.94"	1987
Fixed caster** (1 pc)	Ø3.94"	1988

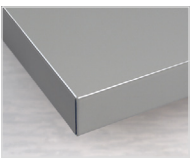
\* Height without bench top (including 3.94" casters).

\*\* Load capacity: 1102 lbs for benches 39.37" and 59.1" wide, 660 lbs for benches 78.7" and 88.6" wide.



### Workshop bench tops

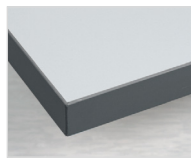
Bench top size W x D inches	Steel top 1.5 mm	Max load lbs	Steel top 3 mm	Max load lbs	Vinyl top with steel edges	Max load lbs	Vinyl top with plastic edges	Max load lbs	Wood top	Max load lbs
39.4" x 29.5"	836 720-74	1653	852 652-74	1653	836 723-79	1653	836 729-79	1102	836 720-82	1322



Workshop steel top



Workshop top with steel edges



Workshop top with plastic edges



Workshop wooden top

+

See <https://www.treston.us/workbenches/workshop-workbench> for full list of accessories available

### Mobile and height adjustable work surface

Name	Size W x D inches	Height inches	Order No	Order No ESD
Mobile and height adjustable work surface	23.6" x 19.7"	29.9"-46.7"	MLCT 605PG	MLCT 605PG ESD



### Mobile workstation accessories

Name	Description	Order No
Binder mount	Fits a single 3" wide binder.	FH1
Binder mount	Fits three 3" wide binders.	FH3
Accessories basket	Blue bin, int. dim. 9.1" x 6.1" x 5.5"	AB1930
Accessory box	With grey shelf bin 4020-3	AB4020-3
Accessory box	With ESD shelf bin 4020-4ESD	AB4020-4ESD



Binder mount FH1



Binder mount FH3



Accessories basket



Accessory box, 2 pcs

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# Treston Global Network



Treston has a long history in professional furniture design and manufacture, and well over three decades of experience in ergonomic workspace development. Our design and manufacturing facilities are located in Finland.

Thanks to our global sales network, you can receive local support and customer service anywhere in the world. We have offices in Europe and North America as well as an extensive network of selected dealers in more than 30 countries.