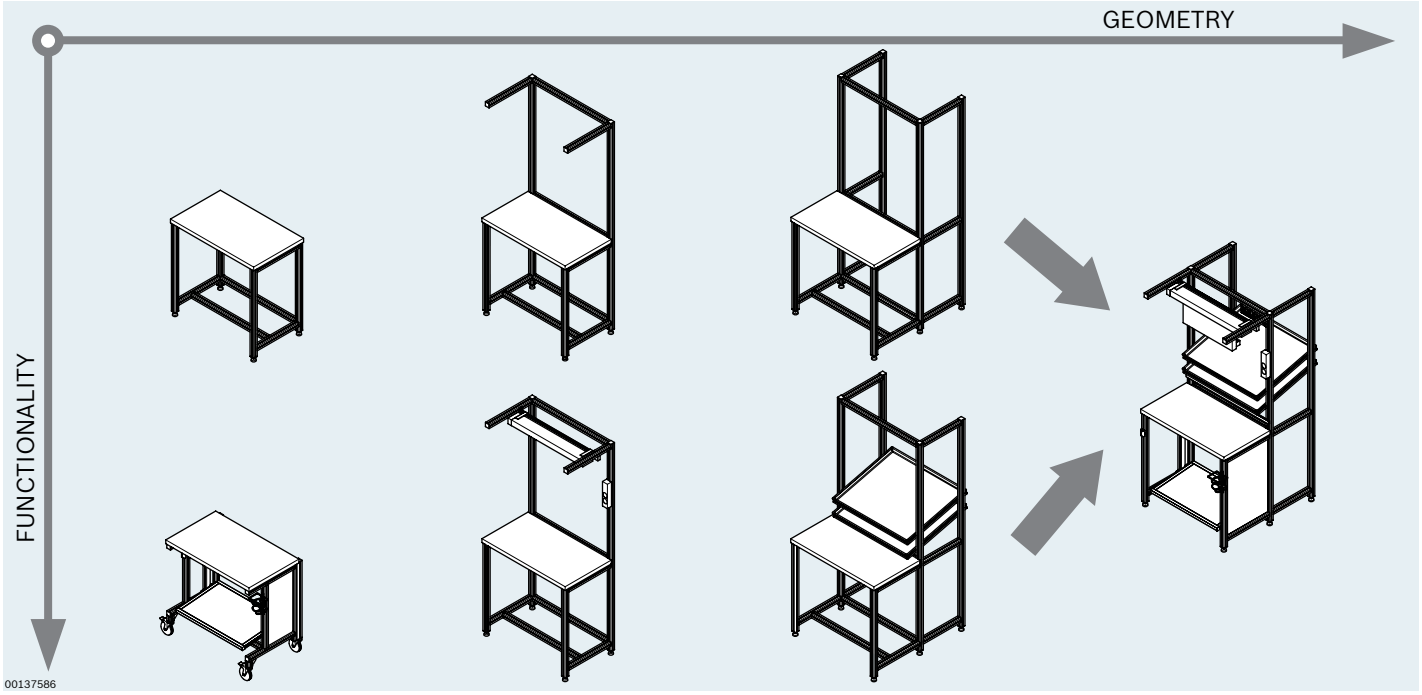
Workstations

Workstation design must take account of the product itself, the process required for that product, and the actual human being doing the work. The design must give equal priority to the minimization of process waste and to providing employees with an ergonomic work environment.

This is why geometry and functionality are important in the layout of the workstation. The product being fabricated and the person doing the work are the benchmarks in defining the workstation height, width and depth as well as for positioning lighting and material supply equipment. Support accessories such as information boards are then added to ensure that the right information is available at the right place.

Ergonomics

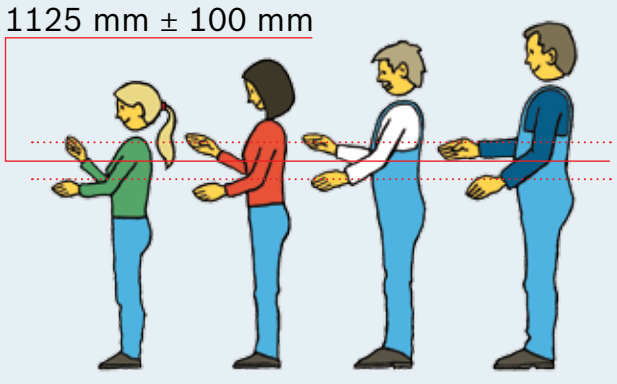
A basic facet of workstation design involves the encouragement of alternating, dynamic activity. Static activity inhibits blood circulation and oxygen supply to the muscles. Alternating physical exertion reduces stress on the employee and increases performance.
Alternating exertion is seen, for example, where combined



stand-up/moving or sit-down/stand-up workstations are integrated into the workflow. Many workstations are used for multiple shifts. This means that these workstations need to be designed for employees of different height. The optimum working height is based on the body height range and the type of activity to be performed. If you take all body heights into consideration, the average optimum working height for average requirements is 1125 mm for sit-down/stand-up workstations. The ability to separately adjust the material feed height and the working height means that these height-adjustable workstations can be adapted to both different products and different workers. This is the key to creating an ergonomically optimized workplace. Information on further aspects of ergonomic workstation design, such as the optimal grab area or recommended working heights, is available in our Ergonomics brochure (3 842 523 943).

Work contents	**Working heights**			
	Group 1	Group 2	Group 3	Group 4
High standards for Visual inspection Fine motor skills	1100	1200	1250	1350
Moderate standards for Visual inspection Fine motor skills	1000	1100	1150	1250
Low standards for Visual inspection **High standards for** Freedom of arm movement	900	1000	1050	1150
	Average optimal working height = 1125			

MT*pro* **For workstation design and planning, we recommend MT*pro!* See pages 12 and 13 for more information.**



Group 1 1535 mm **Group 2 1640 mm** **Group 3 1740 mm** **Group 4 1855 mm**

Average optimal working height for all four population groups

Workstation

00127283

- Large number of adjustment options for high versatility
- Freely selectable geometry and functionality
- Available as ESD-conductive version
- Fully assembled or as a kit for self-assembly
- Allows for the addition of any desired modules, including cross ties and conveyor tracks as well as individual components

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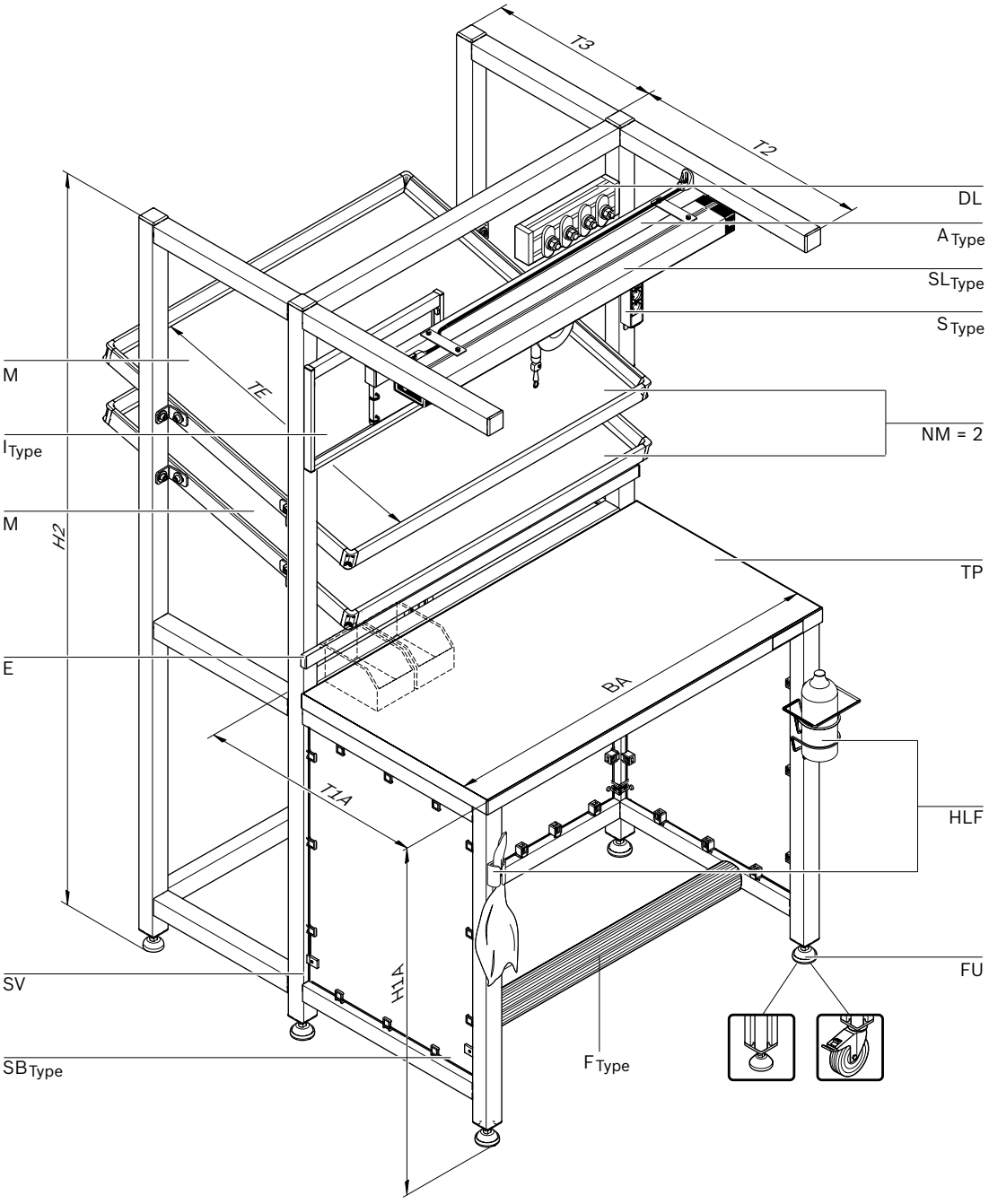
See technical data (page 192)

Workstation		**3 842 998 110**
A	Design	Disassembled, assembled
ESD	Conductivity	Yes, no
PK	Construction	Desk type, box type
P	Profile type	40L, 45L, 60L
FU	Foot type	Leveling foot, castor
BA	Workstation width	410 ... 2000 mm
H1A	Work surface height	410 ... 1500 mm
H2	Total workstation height	410 ... 2500 mm
T1A	Workstation depth	405 ... 1000 mm
T2	Bracket depth	Up to 800 mm
TP	Table top type	4 different table tops
SB_{typ}	Side panel type	3 different side panels
T3	Accessory upright depth	Up to 800 mm
NM	No. material shelves	0 ... 4
M	Material shelf material	3 different material shelves
TE	Material shelf depth	410 ... 1220 mm
SV	Reinforced strut extension	With, without
E	Suspension profile	With, without
A_{typ}	Type of hanger	With, without hanger Selectable spring pulls
L	Country version	D, F, GB, CH, USA/CDN, CZ
SL_{typ}	Type of lamp	6 different lamps
S_{typ}	Type of socket	4 different sockets
DL	Compressed air strip	With, without
I_{typ}	Type of information board	7 different information boards
F_{typ}	Type of footrest	Footrest selectable
HLF	Cloth and bottle holder	With, without


T3
T2
DL
A Type
SL Type
S Type
M
TE
I Type
NM = 2
M
H2
TP
E
BA
T1A
HLF
H1A
FU
SV
SB Type
F Type
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