




technical seating

spec guide

v.02-04 



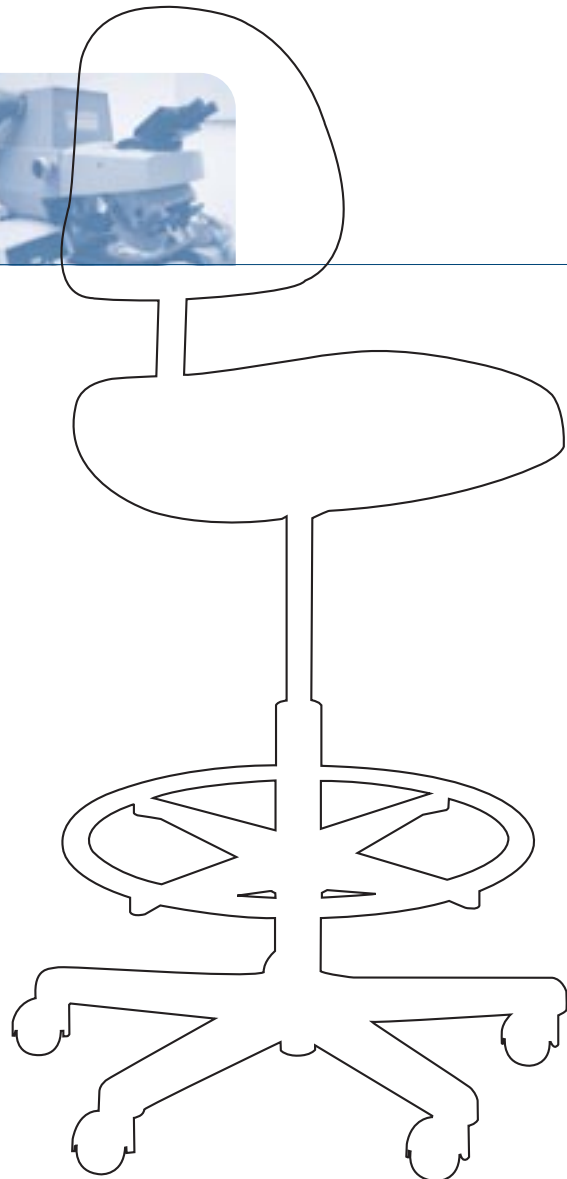
improve productivity

protect your critical environment

At ISE, we understand that critical environments need specialized solutions. With this in mind, we have created a line of technical seating that ensures the integrity of a sensitive environment, while at the same time protects the well being of its employees.

In this guide, you will find a number of seating options that are perfect for any industrial environment, including ESD and cleanroom. Our cleanroom chairs are manufactured using Gore-Tex®-like filters which allow the chairs to breathe when the seat is compressed, while at the same time controlling particulate emissions.

All of our chairs meet or exceed industry standards and are unsurpassed for quality, comfort and function.

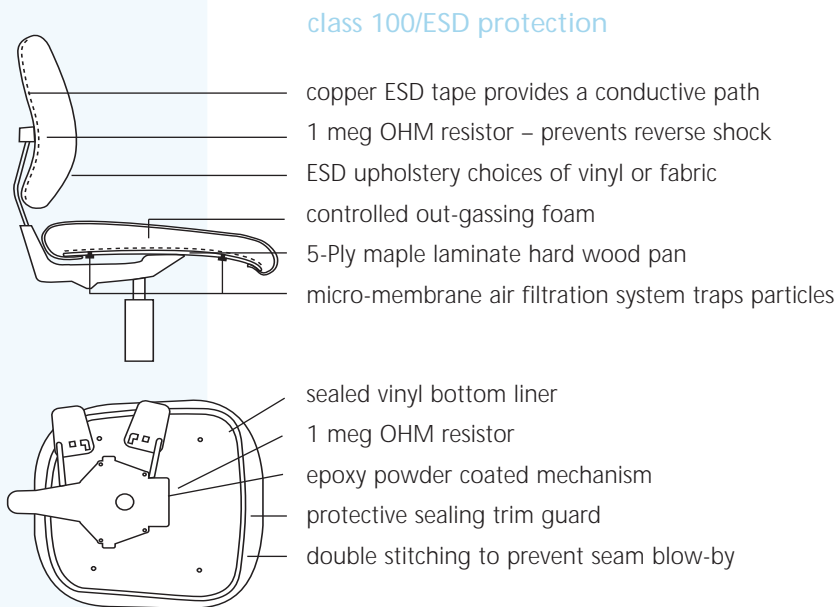


static control (ESD)

This ensures complete static drainage through the use of special ESD upholstery materials (vinyl or fabric), conductive casters/glides and exposed surfaces of chrome plated steel, stainless steel or cast aluminum. Conductive adhesive is also applied to the chair seat and back pans while adding two 1 meg OHM resistors. The completed chair is then subjected to an ESD discharge test. A megometer with two probes is activated and must range between 10^6 and 10^9 OHMs to pass. Test results, including relative humidity and temperature are recorded and included with each chair. ESD/cleanroom upholstery uses advanced materials layered with outside vinyl surface and unexposed carbon underneath. Duratech 2 uses impregnated polyurethane for conductivity and a drag chain to complete the electrical path to the floor.

cleanroom seating

Strategically placed micro membrane filters trap particulate, and allow proper air flow through the chair to prevent seam blow-by. Unique seat and back foams combined with a precise upholstery process, ensure comfort without risk of particulate emission. Specialized componentry such as non-outgassing foams, mechanism shrouds, advanced air filtration and stainless metallic casters are used depending on the class of cleanroom seating. All pivot points use bushings and are sealed to prevent particle fall out. Elimination of sharp edges, burrs and pinch points protect against glove/gown puncture.



ESD test station



classic

a proven performer



specifications

To make your ordering easier, we have developed four specifically designed combinations. They come standard with a 23" 5-star polished aluminum base with brake-when-out casters, chrome gas lift, black mechanism, chrome oval back tube and a black back cap.

If you prefer to configure the chair yourself, you can choose from our extensive list of accessories and options, including seat, back and lift sizes. See the à la carte page for details.

mechanism control

This heavy duty black hinge plate mechanism provides outstanding ergonomic performance. Lever-lock back height adjustment makes movements easy.

arm options

model# ARHA12: height adjustable 'T'-arms,
model# ARHAWA: height & width adjustable 'T'-arms.

footring options

model# ACFRFL: 18" flat
model# ACFRLFL: 20" flat

bench height stool

model# C-COMB07-YG

back size: 16½" wide by 16" high
seat size: 20" wide by 18" deep
seat range: 23½"-33½"

\$917

S M L
S M L

Medium seat, medium back, polished chrome base with casters, long lift and large 20" flat footring. Package comes complete upholstered in yew green (YG) vinyl* (as shown).



combo 2 cleanroom class 1/ESD bench height stool

model# C-COMBO2-BM \$1311
 back size: 16½" wide by 16" high S M L
 seat size: 20" wide by 18" deep S M L
 seat range: 23½"-33½"

Medium seat, medium back, polished chrome base with ESD casters, long lift and large 20" flat footring. Package comes complete upholstered in blue marina (BM) ESD vinyl* (as shown)



combo 3 cleanroom class 100/ESD bench height stool

model# C-COMBO3-MD \$1146
 back size: 15½" wide by 13" high S M L
 seat size: 20" wide by 18" deep S M L
 seat range: 23½"-33½"

Medium seat, small back, polished chrome base with ESD casters, long lift and large 20" flat footring. Package comes complete upholstered in midnite black (MD) ESD vinyl* (as shown).



combo 4 cleanroom class 100/ESD chair

model# C-COMBO4-BM \$1150
 back size: 17½" wide by 19½" high S M L
 seat size: 20" wide by 19" deep S M L
 seat range: 16"-22"

Large seat, large back, polished chrome base with ESD casters and regular lift. Package comes complete upholstered in blue marina (BM) ESD vinyl* (as shown).

* Other fabric options can be found on page 12. For additional ESD or cleanroom options please order the "à la carte" method on page 14.

vertex

outstanding value

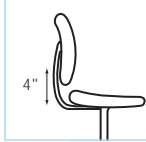
back rest tilt



seat pan tilt



back height range



specifications

The vertex chair is available in five specifically designed combinations. They come standard with a 23" 5-star polished aluminum base with brake-when-out casters, chrome gas lift, zinc plated mechanism, chrome oval back tube and a chrome back cap.

If you prefer to configure the chair yourself, you can choose from our extensive list of accessories and options, including seat, back and lift sizes. See the à la carte page for details.

mechanism control

Easy to activate hinge plate mechanism provides great adjustability and reliable performance.

arm options

model# ARHA12: height adjustable 'T'-arms,
model# ARHAWA: height & width adjustable 'T'-arms

footring options

model# ACFRFL: 18" flat
model# ACFRFL: 20" flat

model# V-COMBO1-FG

back size: 15½" wide by 13" high
seat size: 18" wide by 16½" deep
seat range: 23½"-33½"

\$705

S M L
S M L

bench height stool

Small seat, small back, polished aluminum base, brake-when-out casters, long lift and large 20" flat footing. Package comes complete upholstered in forest green (FG) vinyl* (as shown).

**combo 2****ESD chair**

model# V-COMBO2-BG

\$729

back size: 15½" wide by 13" high
seat size: 20" wide by 18" deep
seat range: 16"-22"**S M L**
S M L

Medium seat, small back, polished aluminum base with ESD casters, and regular lift. Package comes complete upholstered in burgundy (BG) ESD fabric* (as shown).

**combo 3****cleanroom class 1/ESD****chair**

model# V-COMBO3-BM

\$1019

back size: 15½" wide by 13" high
seat size: 18" wide by 16½" deep
seat range: 16"-22"**S M L**
S M L

Small seat, small back, polished aluminum base with ESD casters, regular lift and large 20" flat footring. Package comes complete upholstered in blue marina (BM) ESD vinyl* (as shown).

**combo 4****cleanroom class 100/ESD****chair**

model# V-COMBO4-MD

\$920

back size: 16½" wide by 16" high
seat size: 20" wide by 18" deep
seat range: 16"-22"**S M L**
S M L

Medium seat, medium back, polished aluminum base with ESD casters and regular lift. Package comes complete upholstered in midnite black (MD) ESD vinyl* (as shown).

**combo 5****cleanroom class 100/ESD****bench height stool**

model# V-COMBO5-BM

\$941

back size: 15½" wide by 13" high
seat size: 18" wide by 16½" deep
seat range: 23½"-33½"**S M L**
S M L

Small seat, small back, polished aluminum base, ESD casters, long lift and large 20" flat footring. Package comes complete upholstered in blue marina (BM) ESD vinyl* (as shown).

* Other fabric options can be found on page 12. For additional ESD or cleanroom options please order the "à la carte" method on page 14.

duratech

economical, durable, quality seating



specifications

These outstanding, inexpensive chairs come standard with puncture resistant polyurethane seats and backs, a black nylon 25" base with soft non-braking casters, a black lift, black mechanism, black flat back tube and black back cap.

mechanism control

This durable chair is height adjustable only.

INPPRR30 cleanroom class 100 \$420

back size: 16½" wide by 12" high
seat size: 18" wide by 17" deep
seat range: 16"-22"

additional options:

footrings - see accessories page

bases - black aluminum base available, simply change the 5th digit of the code from a **P** to a **B** when ordering (i.e. **INPPBRR30**) upcharge \$120



INMSPRR30 cleanroom class 100 \$490

back size: 16½" wide by 16" high
seat size: 18" wide by 16½" deep
seat range: 16"-22"

same specifications as the duratech, with fully upholstered vinyl seat and back. Specify vinyl, eg. **FB-RB** – royal blue

duratech2 (ESD)



specifications

Features the same standard options, with a black nylon 25" 5-star base with soft non-braking casters. Seat and back of this model comes standard in ESD. Base has an ESD drag chain.

mechanism control

Height adjustment only.

INUUPNL3E cleanroom class 100/ESD \$520

back size: 15" wide by 13½" high
seat size: 17½" wide by 16" deep
seat range: 23½"-33½"

additional options:

footrings small ESD **ACFRFLE** \$67
large ESD **ACFRLFLE** \$95

bases - black aluminum base available, simply change the 5th digit of the code from a **P** to a **B** when ordering (i.e. **INUUBNL3E**) upcharge \$120



INMSPRROE ESD \$595

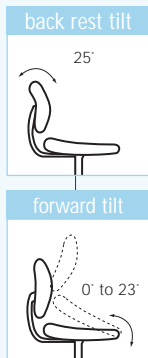
back size: 16½" wide by 16" high
seat size: 18" wide by 16½" deep
seat range: 16"-22"

same specifications as the duratech 2, with fully upholstered ESD vinyl seat and back. Remember to specify vinyl.

FB-BM – blue marina ESD
FB-MD – midnite black ESD

sit-stand

productivity enhancing tools



SS8

The SS8 model provides a well cushioned wide support with a generous waterfall edge for maximum comfort. Ideal for applications requiring a well supported dynamic posture.

The SS8 model is available with a standard 18" black trumpet base or a 22", five-star black cast aluminum nylon coated base with brake-when-in casters.

trumpet base

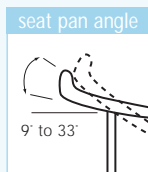
model# - SS8AL	\$720
back size	16" wide by 8" high
seat size	20" wide by 12" deep
seat range:	23"-33"

5-star aluminum base

model# - SS8BL	\$750
seat range:	23½"-33½"

ESD model - Class 10,000 standard

SS8BLOE	\$860
seat range:	23½"-33½"



SS9

Many people are required to stand at work. The Sit-stand mechanism allows for height adjustment tilt and swivel. It allows the user assume a wide angle semi-standing position which ergonomists consider to be a good working posture. Features a convenient carrying handle. Cleanroom Class 10,000 standard

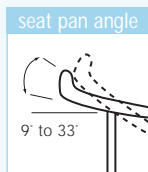
Available with a standard 18" black trumpet base or a 22", five-star black cast aluminum nylon coated base with brake-when-in casters.

trumpet base

model# - SS9AL	\$620
seat size:	14" wide by 10" deep
seat range:	21"-31"

5-star aluminum base

model# - SS9BL	\$650
seat range:	21½"-31½"



SS10

The SS10 provides a wide soft support seat, with a waterfall edge. Ideal for more comfort over long periods of time. Mechanism allows for height adjustment tilt and swivel.

Available with a standard 18" black trumpet base or a 22", five-star black cast aluminum nylon coated base with brake-when-in casters.

trumpet base

model# - SS10AL	\$620
seat size:	19" wide by 16" deep
seat range:	21"-31"

5-star aluminum base model

model# - SS10BL	\$650
seat range:	21½"-31½"

task stool

convenient and reliable



specifications

This handy height adjustable swivel stool, with a 5-star black aluminum base, with non-braking casters and black gas lift (as shown), is perfect for any industrial environment or as a temporary task stool.

mechanism control

Convenient lever allows for 5" of height adjustment. Seat rotation = 360°.

model# - CLTS \$406

seat size: 14" diameter seat

seat range: 18"-23"

cleanroom standards

class 1 model# CLTS1 \$565

class 100 model# CLTS3 \$496

class 10,000 model# CLTS5 \$460

ESD available

For ESD add "E" to the model number and add \$85 to the list price.

For example, for a **Class 100** Task Stool with ESD, order: **CLTS3E** = \$581 list.

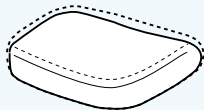
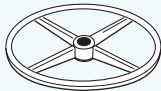
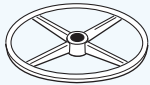
To order your task stool, use the **CLTS** code and then include the appropriate code for cleanroom and ESD specifications. The task stool is available in a number of fabric choices. Please see the fabric card for all your options and include the appropriate fabric code with your order.

For example, to order a task stool upholstered in royal blue vinyl (**RB**), order:

CLTS
FB-RB \$406

accessories

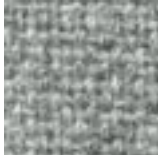
To order accessories for your chairs see the list of options below.
Complete your order form by including the appropriate code and fax to: 800 461-3182



description	model#	list
small flat footring (18" diameter). positive non-slip adjustment. chrome finish.	ACFRFL	\$67
ESD - small flat footring (18" diameter). positive non-slip adjustment. chrome finish.	ACFRFLE	\$67
large flat footring (20" diameter). positive non-slip adjustment. chrome finish.	ACFRLFL	\$95
ESD - large flat footring (20" diameter). positive non-slip adjustment. chrome finish.	ACFRLFLE	\$95
extra foam - adds thickness to seat	ACXF	\$26
adjustable "T" arms, 3" height range, 2 ¹ / ₄ " width range (pair)	ARHAWA	\$150
adjustable "T" arms, 3" height range (pair)	ARHA12	\$125

fabric options

ESD fabric



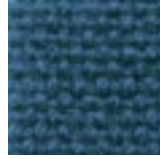
FB-GR
(graphite)



FB-AN
(anthracite)



FB-BK
(black)



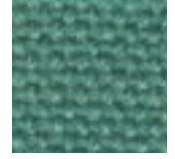
FB-NV
(navy)



FB-CN
(corinth)



FB-EG
(evergreen)



FB-JP
(juniper)



FB-BB
(bilberry)



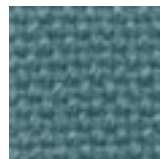
FB-BG
(burgundy)



FB-NT
(nut)



FB-MR
(mushroom)



FB-PS
(persian)



FB-RD
(red)

non-ESD vinyl



FB-TC
(terra cotta)



FB-WN
(wine)



FB-RB
(royal blue)



FB-EB
(ebony)



FB-YG
(yew green)



FB-FG
(forest green)



FB-OG
(ocean grey)

ESD vinyl



FB-BM
(blue marina)



FB-MD
(midnite black)

note:

colours of fabric and vinyl may vary slightly with different dye lots and suppliers

fabric specifications

ESD fabric

specifications

contents: 60% viscose, 40% wool
weight: 19-20 oz. /linear yard

performance

electrical resistivity: average 4.5×10^6 , 73°F 25%RH
length direction: side 1 = 4.2×10^5 (ohms)
side 2 = 1.7×10^5
cross direction: side 1 = 2.6×10^5
side 2 = 3.3×10^5

tensile & tear: meets **ASTM D3597**
colourfastness to light: L4 minimum (**AATCC 16A**)
colourfastness to crocking: class 4 minimum – dry & wet (**AATCC 8**)
colourfastness to water: class 4 minimum (**ASTM D3597**)
abrasion resistance: meets **ASTM D3597** – heavy duty

non-ESD vinyl

specifications

contents: vinyl fabric on jersey knit base
weight: 36.0 oz./linear yard .055 gauge

performance

abrasion resistance: passes **191A-5304**

Regular vinyl and ESD vinyl have outstanding cleanability, crocking, tear & stain resistance

flammability tests

for all fabrics/vinyl
state of California technical bulletin section 117: passes
UFAC Fabric Class: class 1
BIFMA X5.7 1991: class A
federal specification (**CCC-A-680a**):passes

cleanroom/ESD vinyl

specifications

contents: cast vinyl (conductive thermoset membrane) on poly/cotton knit
thickness: 50 mils +/- 5 mils

performance

surface resistivity: skin coat 10^8 - 10^9 (ohms)
conductive layer 10^4 or less
back 10^9
abrasion: 5000 cycles on **CS-17** wheel (face only)
500 gm wt. some deterioration

à la carte

classic & vertex custom fit for your needs

- When ordering non-combo classic or vertex chairs choose options from the columns below.
- Ensure you end up with a 9-digit code. eg. **ICMMBEROE**
- Your list price is the total of each option
- Use a separate line to indicate your fabric choice. fabric options on next page. eg. **FB-BM**
- Any additional accessories should be ordered on a separate line. eg. **ACFRLFLE \$95**

chair type	mechanism	back size	seat size	base	casters	lift	cleanroom class	ESD
I industrial	C \$170 classic (black)	S \$120 15½" Width 13" Height small	S \$120 18" Width 16½" Depth small	C \$140 23" polished cast aluminum. Must be used with all cleanroom class chairs	I \$103 brake-when-in, dual-wheel	R \$40 regular (16"-22")	0 none	E \$144 ESD
	Z \$170 vertex (zinc plated)	M \$173 16½" Width 16" Height medium	M \$175 18" Width 18" Depth medium	B \$140 23" black cast aluminum	N \$70 non-braking, dual-wheel	L \$74 long (21"-29")	1 \$250 class 1	O non ESD
	V \$120 vertex (black)	L \$233 17½" Wide 19½" Height large	L \$195 20" Width 19" Depth large		G \$70 glides	S \$60 short (15"-19")	2 \$166 class 10	
					O \$70 brake-when-out, dual-wheel		3 \$138 class 100+	
					E \$110 ESD brake-when-out			
I	V	M	M	B	O	L	0	O
\$0	\$120	\$173	\$175	\$140	\$70	\$74	\$0	\$0

Total = \$752

Another example: ICMLCIR10

Industrial chair with **C**lassic mechanism, **M**edium back and **L**arge seat, **C**hrome base (polished aluminum), brake-when-**I**n, dual wheel casters, **R**egular lift, built for cleanroom class **1** without ESD capability = \$1071

Lead time for all technical seating is 10 business days.

For individual parts prices, call customer support at 800 463-7731

ISE industrial seating limited warranty

this warranty covers...

Your ISE chair is warranted to be free from all defects in material and workmanship in normal single-shift use for a period of 10 years (5 years for the duratech series). This warranty is subject to the following provisions:

Cushions including fabric, vinyl, foam and workmanship are guaranteed to be serviceable with normal single-shift usage for a period of 5 years.

warranty for multiple shift applications

All items listed in the standard warranty shall be covered for a period of 5 years (2 years for the duratech series) from the date of purchase. Normal wear of fabrics shall be covered for two years.

exceptions

Any product which has been modified or removed, neglected or abused is not covered.

what ISE will do

ISE will, at its option, repair or replace a defective part that is covered by this warranty. As a matter of policy, ISE will not refund the purchase price.

obtaining warranty service

For the location of the nearest authorized dealer or for service information phone: 800 463-7731

When returning parts for repair, please include the model and chair type and a description of the problem(s).

note

All products returned to ISE for service must have prior approval; this may be obtained by calling the above numbers.

ISE supports extended warranties for negotiated national purchasing agreements.

ISE supports its warranties through telephone, technical and on-line support by way of detailed instructional diagrams for repair. ISE will supply unique tools for any such repair upon request.

value-added services

ez track

A quick way to track order status 24 hours a day, seven days a week. Access EZ Track on the Internet at: www.ise-ergonomics.com then click on the ez track button.

customer support

One-stop shop for dealers and customers, offering knowledgeable, friendly and helpful service.

tel: 800 463-7731 fax: 800 461-3182

Solutions for Industrial, ESD & Cleanroom Environments

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