

PRODUCT CATALOG







ESD PRODUCTS





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PROTECT ELECTRO STATIC SENSITIVE DEVICES

ABOUT ELECTROSTATIC DISCHARGE (ESD)

To a greater or lesser extent all contact between objects, every separation of one item from another, each sliding of one thing on another, causes a disturbance of electrical charge. When charge disturbance take place faster than charge redistribution, static charge accumulates. ESD occurs where charges of different electrostatic potentials meet. The flow of electrons is usually sudden and releases energy that can damage electrostatic sensitive devices (ESDs) This is referred to as tribo electric generations.

Static charges of upto 30000 volts are not uncommon and can be generated by the simple act of walking across a floor, yet a discharge of only 10 volts can destroy a class 1 ESD sensitive device.

A material that inhibits the generation of tribo electric generation is classified as anti-static. An anti-static material can be

conductive (10³ -10⁶ ohms/sq),

static dissipative (10⁷ -10⁹ ohms/sq), anti-static (10¹⁰ - 10¹² ohms/sq) or even

insulative (greater than 10¹² ohms/sg)

Only conductive or static dissipative anti static material should be used in ESD protected areas .

10³ 10⁴ 10⁵ 10⁶

CONDUCTIVE

10 10 10 10 STATIC DISSIPATIVE

10 10 10 12 ANTI STATIC 10¹³ INSULATIVE

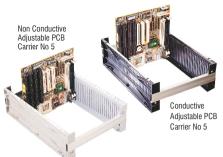




PCB CARRIERS

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CONDUCTIVE AND NON CONDUCTIVE ADJUSTABLE PCB CARRIERS









ALKON adjustable PCB Carriers can be used for protection of boards during storage or transport in assembly line or integrated with automatic component insertion machines. They can be stacked one on each other. Each PCB Carrier has 31 distinct slots which can hold a maximum of 31 PCB's. Special Aluminium Guides have a unique design which remains flush with the PCB Carriers.

They help in adjusting the width as per the size of the PCB's Three lengths of aluminium guides are available i.e. 253mm, 353mm and 553mm.

ADJUSTABLE PCB CARRIER NO: 5

Useful for small to medium boards.
Size of sides 350mm (L) x 105mm (H)
Use different size of Aluminium guides to make the configuration as per the size of the PCB.
Different sizes of PCB's can be fitted in two PCB Carriers as shown in the picture.

Conductive Adjustable PCB Carrier No : 5

Set of 2 pcs.- Colour Black made from conductive polystyrene.

Art No : APCR5 - C

Non Conductive Adjustable PCB Carrier No: 5

Set of 2 pcs.- Colour Grey made from high impact polystyrene.

Art No : APCR5 - N

Order aluminium guides separately.

ALUMINIUM GUIDES

Are available in three standard lengths:

Art No: APCRG - 2 253 mm Set of 2 pcs. Art No: APCRG - 3 353 mm Set of 2 pcs. Art No: APCRG - 5 553 mm Set of 2 pcs.

ADJUSTABLE PCB CARRIER NO.: 6

Useful for medium sized Boards.
Size of sides 350mm (L) x 210mm (W)
2 Sets of Aluminium guides are required for Carrier No 6
Conductive Adjustable PCB Carrier No : 6
Set of 2 pcs. - Colour Black. Art No : APCR6 - C
Made from conductive polystyrene.

Non Conductive Adjustable PCB Carrier No : 6 Set of 2 pcs. - Colour Grey. Art No : APCR6 - N

Made from high impact polystyrene. Order Aluminium guides separately. Made from high impact polystyrene.

CONDUCTIVE & NON CONDUCTIVE FIXED PCB CARRIERS

Economical carriers for handling clinched SMD's, Soldered or bare boards of any size.

Tapered slots to keep PCB's in taper position.

Easy to carry.

Size 458mm (L) x 140mm (W)

25 Slots

Black Colour for conductive. Art No: APCR1-C

Made from conductive polystyrene.

Grey Colour for non conductive. Art No: APCR1-N

Made from high impact polystyrene.

Packing: Fixed PCB Carriers are packed 5 pcs. in a box.

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FIXED PCB CARRIERS - L TYPE







It is a two side support PCB carrier of conductive or non conductive material for stronger card holding. Conductive PCB carriers are excellent PCB carriers for work benches. Easy to handle and does not occupy much space.

- Holds boards on two contigious edges.
- Nestable when not in use.
- Conductive PCB carrier available in Black colour.
- Made from conductive polystyrene.
- Non conductive PCB carriers available in Grey colour.
- Made from high impact polystyrene.
- Size: 207mm (D) x 273mm (W) x 95 mm (H)
- 25 grooves, 9mm Pitch, 3mm width.

CONDUCTIVE COMPONENT ORGANISER





Conductive Component Organiser

COMPONENT ORGANISER

- Conductive Component Organiser provides systematic storage of electrostatic sensitive devices.
- It consists of a cabinet with 25 small drawers.
 Size of Cabinet:
 - 400mm (W) x 250mm (H) x 160mm (D)
- Size of the Drawers : 150mm (L) x 75mm (W) x 35mm (H)
- Art No : ACO 25 C Conductive
- Made from conductive polystyrene.



ESD WORKSTATION

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Today's electronic manufacturers need a workstation designed to help reduce harmful discharges from reaching vulnerable parts and assemblies. Part of the overall solution is to have a workstation designed with the proper grounding system to dissipate any charge away from the product you're producing. Our custom made workstations are designed to withstand the toughest of environments, allow total flexibility for future upgrades and meet your organization's ESD needs.

Standard Features

- Workstation structure made from 20mm x 40mm rectangular pipes of 18 Gauge.
- Available in powder coated in light grey RAL 7035 colour.
- ESD Mat for table top with grounding cord.
- Universal spike protector 230V / 50Hz, 15 Amps with four sockets.
- Four conductive leveling screws for base with height adjustment facility.
- Foot rest for user convenience.
- 28 W flicker free swivel Light.
- Louver panel.
- Conductive Bins as required.
- Tool Tray with option of fitting on Left or Right side.
- Alkon Modular System with lock. 1 No as per image above.
- Writing & Felt Board supplied only for AWS12060.





Available in standard sizes as below:

Art No	Size
AWS 12060	Table Top Size : 1200mm (W) X 600mm (D) over all height 1800mm

Available in standard sizes as below:

Art No	Size			
AWS 12060 SP	Table Top Size : 1200mm (W) X 600mm (D) over all height 1500mm			

Work Station for Non ESD application also available.

MODULAR SYSTEM - CONDUCTIVE



Modular system is an ideal storage system for Electrostatic sensitive devices based on standard modules which can be interlocked and stacked one on top of each other.

The basic system is based on four drawer sizes

which can be interchanged in the ratio of : 1:2:3:4.

All cabinets can be supplied with / without central lock.

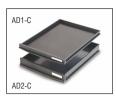
Made from conductive polystyrene.





MODULAR SYSTEM - CONDUCTIVE

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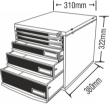


SPECIAL STOPPERS Special stoppers are provided to stop the drawers when opened fully. To remove drawer from the cabinet lift the drawer up & remove from cabinet









INTERNAL SIZE OF DRAWERS

AD 1-C: 360mm (D) x 270mm (W) x 16mm (H) AD 2-C: 360mm (D) x 270mm (W) x 39mm (H) AD 3-C: 360mm (D) x 270mm (W) x 62mm (H) AD 4-C: 360mm (D) x 270mm (W) x 87mm (H)

AMS 12-C: Modular system with 12 Nos of AD 1 Drawers. AMS 6-C: Modular system with 6 Nos of AD 2 Drawers. AMS 4-C: Modular System with

4 Nos of AD 3 Drawers.

AMS 3-C : Modular System with
3 Nos of AD 4 Drawers.

MIXED DRAWER SYSTEM

Modular System can be fitted with different size of drawers in the same cabinet. For example, one AD 4-C drawers can be replaced by two AD 2-C drawers or one AD 1-C drawer and one AD 3-C drawer.

INDICATOR

Name plate can be changed by pushing out the paper from the indicator as shown.

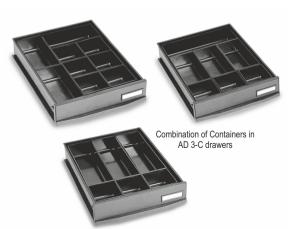
BASE UNIT

Base unit can be used with castors to make a mobile unit. One or more base units can be used (Joined by set of four dowels provided) under the Modular system to raise the cabinet from the floor. Height of the base unit is 35mm.

CENTRAL LOCKING SYSTEM

Is provided OPTIONALLY. Product numbers for cabinet with locks will be AMS 12L-C , AMS 6L-C, AMS 4L-C & AMS 3L-C

CONDUCTIVE UTILITY CONTAINERS : FOR STORAGE OF SMALL PARTS. THREE SIZES OF CONTAINER IN BLACK COLOUR ARE AVAILABLE TO FIT IN AD 3-C / AD 4-C DRAWERS.



Sizes of Containers :

Art No : UC 1-C

Size: 85mm (L) x 85mm (W) x 55mm (H) 12 Containers fit in one AD3-C / AD4-C drawer.

Art No: UC 2-C

Size: 175mm (L) x 85mm (W) x 55mm (H) 6 Containers fit in one AD3-C / AD4-C drawer.

Art No: UC 3-C

Size: 255mm (L) x 85mm (W) x 55mm (H) 4 Containers fit in one AD3-C / AD4-C drawer.

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SUPRA BINS - CONDUCTIVE





SB 1-C





SB 4-C

SB 5-C

SB 3-C

SB 6-C





Made from Conductive Polypropylene.

- Strong rear lip for use with louvred panels.
- Strong heavy duty, with reinforced base side & stacking rim.
- Resistant to most industrial solvents.
- Clear access to contents.
- All bins with identification card holder slots.
- Incorporates a safety stop feature in SB 4-C, SB 5-C, SB 6-C, at the back for use in shelves.

Colour - BL ACK



Art No	Outside	Dimensio	ns in mm	Inside Dimensions in mm			
AITHO	Length	Width	Heigth	Length	Width	Heigth	
SB 1-C	125	100	60	117	80	52	
SB 2-C	170	100	85	157	80	75	
SB 3-C	SB 4-C 290	130	125	200	115	115	
SB 4-C		178	143	265	155	130	
SB 5-C		363	145	265	340	130	
SB 6-C	440	180	145	415	154	130	
SB 7-C	SB 7-C 435 42		215	405	380	208	
SB 8-C	600	425	300	530	375	290	

SB 8-C subject to MOQ.

All dimensions in mm approx.

Louvre Panel Mounted with Conductive Supra bins

SUPRA BIN PARTITIONS CONDUCTIVE

Horizontal partition for SB 4-C & SB 6-C

Art No : HP SB 4/6-C

Standard Packing: 10 pcs. per ctn.

Vertical partition for SB4-C & SB5-C

Art No : VP SB 4/5-C

Standard Packing: 10 pcs. per ctn.

Vertical partition for SB 6-C

Art No : VP SB 6-C

Standard Packing: 10 pcs. per ctn.

Vertical partition for SB 7-C

Art No : VP SB 7-C

Standard Packing: 10 pcs. per ctn.



SB5-C fitted with 1 No of VP SB 4/5 Conductive vertical partition



SB 4-C fitted with 1 No of HP SB 4/6 Conductive Horizontal partition

PSB 403-C



PANDA SHELF BINS - CONDUCTIVE

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PSB 404-C

PSB 405-C

■ MADE FROM CONDUCTIVE POLYPROPYLENE

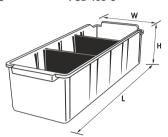
- Designed to fit roll post shelving systems.
- Five standard bin sizes to suit 400mm deep shelving.
- Resistant to most industrial solvents.

PSB 401-C

- Integral back stop for clear viewing of PANDA BIN contents.
- Partitions are notched to ensure positive location within the bins.

PSB 402-C

PANDA BINS feature a small handle to allow maximum area of the front face for sticking identification labels.



BIN DIMENSIONS

ART NO	Outer Dimensions			Inner Dimensions			No Of Partitions	Effective	Std.
AIII NO	Length	Width	Height	Length	Width	Height	with each bin	Height	Pack
PSB 401-C	415	100	60	393	86	55	3	55	24
PSB 402-C	415	100	110	393	86	105	2	105	24
PSB 403-C	415	150	110	393	136	105	2	105	12
PSB 404-C	415	220	135	393	210	130	2	130	12
PSB 405-C	415	300	135	393	282	130	2	130	6







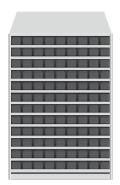
SHELVING UNIT SIZE 1275 (H) x 900 (W) x 400 (D) mm



ASU 6C

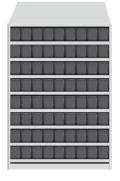
ASU 7C

ASU 8C



ASU 6C Shelving Unit Consists of

- 1 Set of ASUB 124 Shelving Body.
- ▶ 13 Nos of Shelves Art No : ASUS 400
- 1 No of Kick Plate Art No : ASUKP
- 9 Nos of PSB 401-C Bins on each shelf.
- Total 108 Nos of PSB 401-C Bins.



ASU 7C Shelving Unit Consists of

- 1 Set of ASUB 124 Shelving Body.
- 9 Nos of Shelves Art No : ASUS 400
- 1 No of Kick Plate Art No : ASUKP
- ▶ 9 Nos of PSB 402-C Bins on each shelf.
- Total 72 Nos of PSB 402-C Bins.



ASU 8C Shelving Unit Consists of

- 1 Set of ASUB 124 Shelving Body.
- 9 Nos of Shelves Art No : ASUS 400
- 1 No of Kick Plate Art No : ASUKP
- ► 6 Nos of PSB 403-C Bins on each shelf.
- Total 48 Nos of PSB 403-C Bins.

ASU 9C



ASU 9C Shelving Unit Consists of

- ▶ 1 Set of ASUB 124 Shelving Body.
- ▶ 8 Nos of Shelves Art No : ASUS 400
- ▶ 4 Nos of PSB 404-C Bins on each shelf.
- Total 28 Nos of PSB 404-C Bins.
- * (No Kick Plate in standard unit, if Kick Plate is required then there will be 7 Nos of ASUS 400 Shelves & 24 Nos of PSB 404-C Bins)



415mm 300mm 135mm

ASU 10C



ASU 10C Shelving Unit Consists of

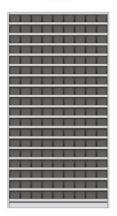
- 1 Set of ASUB 124 Shelving Body.
- > 8 Nos of Shelves Art No : ASUS 400
- 3 Nos of PSB 405-C Bins on each shelf.
- Total 21 Nos of PSB 405-C Bins.
- * (No Kick Plate in standard unit, if Kick Plate is required then there will be 7 Nos of ASUS 400 Shelves & 18 Nos of PSB 405-C Bins)



SHELVING UNIT SIZE 1875 (H) x 900 (W)x 400 (D) mm

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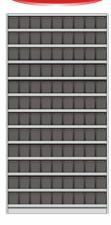
ASU 31C



ASU 31C Shelving Unit Consists of

- 1 Set of ASUB 184 Shelving Body.
- ▶ 19 Nos of Shelves Art No : ASUS 400
- 1 No of Kick Plate Art No : ASUKP
- 9 Nos of PSB 401-C Bins on each shelf.
- Total 162 Nos of PSB 401-C Bins.

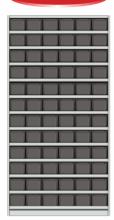
ASU 32C



ASU 32C Shelving Unit Consists of

- 1 Set of ASUB 184 Shelving Body.
- ► 13 Nos of Shelves Art No : ASUS 400
- ▶ 1 No of Kick Plate Art No : ASUKP
- 9 Nos of PSB 402-C Bins on each shelf. Total 108 Nos of PSB 402-C Bins.

ASU 33C



ASU 33C Shelving Unit Consists of

- 1 Set of ASUB 184 Shelving Body.
- ≥ 13 Nos of Shelves Art No : ASUS 400
- 1 No of Kick Plate Art No : ASUKP
- ► 6 Nos of PSB 403-C Bins on each shelf.
- Total 72 Nos of PSB 403-C Bins.

ASU 34C



ASU 34C Shelving Unit Consists of

- 1 Set of ASUB 184 Shelving Body.
- ▶ 11 Nos of Shelves Art No : ASUS 400
- 1 No of Kick Plate Art No : ASUKP
- ► 4 Nos of PSB 404-C Bins on each shelf.
- Total 40 Nos of PSB 404-C Bins.

PSB 401-C BIN SIZE Length Width Height 415mm 100mm 60mm PSB 402-C BIN SIZE Length Width Height







ASU 35C



ASU 35C Shelving Unit Consists of

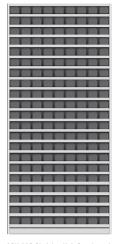
- 1 Set of ASUB 184 Shelving Body.
- ▶ 11 Nos of Shelves Art No : ASUS 400
- 1 No of Kick Plate Art No : ASUKP
- > 3 Nos of PSB 405-C Bins on each shelf.
- Total 30 Nos of PSB 405-C Bins.

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SHELVING UNIT SIZE 2175 (H) x 900 (W) x 400 (D) mm



ASU 56C



ASU 56C Shelving Unit Consists of

- 1 Set of ASUB 214 Shelving Body.
- 22 Nos of Shelves Art No : ASUS 400
- 1 No of Kick Plate Art No : ASUKP
- 9 Nos of PSB 401-C Bins on each shelf.
- Total 189 Nos of PSB 401-C Bins.

ASU 57C



ASU 57C Shelving Unit Consists of

- ▶ 1 Set of ASUB 214 Shelving Body.
- ► 15 Nos of Shelves Art No : ASUS 400
- ▶ 1 No of Kick Plate Art No : ASUKP
- ▶ 9 Nos of PSB 402-C Bins on each shelf.
- Total 126 Nos of PSB 402-C Bins.

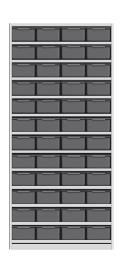
ASU 58C



ASU 58C Shelving Unit Consists of

- 1 Set of ASUB -214 Shelving Body.
- ▶ 15 Nos of Shelves Art No : ASUS- 400
- ▶ 1 No of Kick Plate Art No : ASUKP
- ► 6 Nos of PSB 403-C Bins on each shelf.
- Total 84 Nos of PSB 403-C Bins.

ASU 59C 🗋



ASU 59C Shelving Unit Consists of

- ▶ 1 Set of ASUB 214 Shelving Body.
- ▶ 13 Nos of Shelves Art No : ASUS 400
- 1 No of Kick Plate Art No : ASUKP 4 Nos of PSB 404-C Bins on each shelf.

Total 48 Nos of PSB 404-C Bins.

PSB 401-C BIN SIZE Length Width Height 415mm 100mm 60mm PSB 402-C BIN SIZE Length Width Height 415mm 100mm 110mm PSB 403-C BIN SIZE Length Width Height 415mm 150mm 110mm PSB 404-C BIN SIZE Length Width Height 415mm 220mm 135mm

PSB 405-C BIN SIZE

Length Width Height

415mm 300mm 135mm

ASU 60C



ASU 60C Shelving Unit Consists of

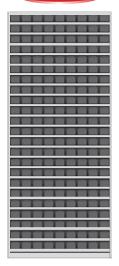
- ▶ 1 Set of ASUB 214 Shelving Body.
- ► 13 Nos of Shelves Art No : ASUS 400
- 1 No of Kick Plate Art No : ASUKP
- 3 Nos of PSB 405-C Bins on each shelf.
- Total 36 Nos of PSB 405-C Bins.



SHELVING UNIT SIZE 2375 (H) x 900 (W) x 400 (D) mm

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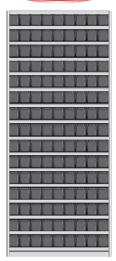
ASU 81C



ASU 81C Shelving Unit Consists of

- 1 Set of ASUB 234 Shelving Body.
- 24 Nos of Shelves Art No : ASUS 400
- 1 No of Kick Plate Art No : ASUKP
- ▶ 9 Nos of PSB 401-C Bins on each shelf.
- Total 207 Nos of PSB 401-C Bins.

ASU 82C



ASU 82C Shelving Unit Consists of

- ▶ 1 Set of ASUB 234 Shelving Body.
- ► 16 Nos of Shelves Art No : ASUS 400
- ▶ 1 No of Kick Plate Art No : ASUKP
- ▶ 9 Nos of PSB 402-C Bins on each shelf. Total 135 Nos of PSB 402-C Bins.

ASU 83C



ASU 83C Shelving Unit Consists of

- ▶ 1 Set of ASUB -234 Shelving Body.
- ► 16 Nos of Shelves Art No : ASUS- 400
- ▶ 1 No of Kick Plate Art No : ASUKP
- ► 6 Nos of PSB 403-C Bins on each shelf.
- Total 90 Nos of PSB 403-C Bins.

ASU 84C



- ▶ 1 Set of ASUB 234 Shelving Body.
- ▶ 14 Nos of Shelves Art No : ASUS 400
- 1 No of Kick Plate Art No : ASUKP
- 4 Nos of PSB 404-C Bins on each shelf.
- Total 52 Nos of PSB 404-C Bins.



ASU 85C



ASU 85C Shelving Unit Consists of

- ▶ 1 Set of ASUB 234 Shelving Body.
- ► 14 Nos of Shelves Art No : ASUS 400
- 1 No of Kick Plate Art No : ASUKP ▶ 3 Nos of PSB 405-C Bins on each shelf.
- Total 39 Nos of PSB 405-C Bins.



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