ELECTRONIC RACK PACKAGING

by ⚑ HAMMOND MANUFACTURING

CATALOG 9R-3

Electronic Rack Packaging Color Chart

PAINTS

Please specify the finish you require on parts and accessories by adding these 3-digit suffixes to catalogue numbers eg. a textured Gulf Blue side panel is ordered as RSSB 00 021 17 GF1. Customer colors are available on special factory order.

Note: __ 1 designates Textured finish
__ 2 designates Smooth Semi Gloss finish
__ 3 designates Satin finish on basic rack only

__ 4 designates *Laminate finish which is used on woodcore desktops, rack tops and writing surfaces only

| STORM | SR1, SR2 | | CHESTNUT | CN1, CN2 |

| GULF | GF1, GF2 | | EARTH | ER1, ER2 |

| BLACK | BK1, BK2 | BONE BN1, BN2 | RUST | RS1, RS2 |

| PUTTY | PY1, PY2 | | LEAF | LF1, LF2 |

| SMOKE SK1, SK2 | CHARCOAL CC1, CC2 | ASA61 GREY GY1, GY2 | MOSS MS1, MS2 | SAND SD1, SD2 |

LAMINATES

These are Arborite® high pressure laminates type GP. Not available as a substitute for painted surfaces.

SAND   SD4
Arborite® No. S-477 for wood core surfaces only.

WALNUT   WN4
Arborite® No. 49-W-335 for wood core surfaces only.

These are printed reproductions of actual paint colors and therefore should be used as a color guide only.

INDEX

Items in this catalog in most cases are fully modular. Each piece of a system must be ordered separately, eg. rack, side panels, door & accessories all require separate part numbers. The explanation (below) of the part number systems used in this catalog will help you match your choice of accessories.

To further simplify ordering, we have available an ordering guide insert which matches accessories to specific system racks and desks. We suggest you use the insert as a work sheet when ordering items from this catalog. Additional ordering guides are available from distributors, sales reps, or our office.

Part number explanation

The following examples explain how the part numbers were derived. This explanation will help you to define products for ordering.

Type of item		Significant Dimensions (in)			Finish
R E F K	**1 9**	**0 3 5**	**1 7**		**B K 1**
Knockdown Frame Rack	Width	Panel Height	Depth		Color Texture

When ordering accessories for this series correct sizing can be checked by matching width, height or depth numbers to the specific rack you are ordering. For example a correct door for the rack in the example above, would be RSDC 19 035 (Choice of color)

SHIPPING WEIGHTS

Shipping weights for the majority of products in this catalog are provided on the Electronic Rack Packaging Price List.

IMPORTANT NOTE PANEL OR U HEIGHT

Rack panel or u height is an industry wide reference dimension used for ordering racks and accessories. It refers to the height of the space (IU = 1.75") that can be filled by panels **not** the overall height. **Overall height can be 6 or 7 inches greater than panel height.** Please refer to dimension tables if you require overall height for calculation of space requirements.

WARRANTY

We warrant Hammond products to be free from defects in workmanship or material, and will, without charge, replace or repair within one year from date of shipment from our factory and products that may be found defective upon inspection at our factory. This warranty does not obligate us where products have been subjected to careless handling, improper application or faulty installation, and we expressly disclaim any obligation, warranty or liability whatsoever except as above stated.

Hammond Products are continually being revised and improved, to use the best materials available. For this reason, Hammond Manufacturing Company Limited reserves the right to modify existing electrical or mechanical characteristics of any catalog item without notice.

HAMMOND
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RSFS Frame

Typical ganged RSFS racks
with optional doors and
I.D. Cowling

Typical REFK with optional door

HAMMOND MANUFACTURING™

RSFS System Racks combine design excellence with contemporary styling to provide distinctive packaging for your products at affordable costs.

This system is designed for single or multiple cabinet assemblies. Interlocking ribs provide a mere 1.0″ space loss on side ganged cabinets. Conformation to EIA spacing on overall cabinet height allows for front to back ganging.

Side panels and doors, (ordered separately) are removable from the outside and provide easy access for equipment installation, repair and maintenance. The doors, trim and panels conceal the frame when assembly is complete. Four adjustable panel rails and a large range of accessories provide versatile options for mounting equipment.

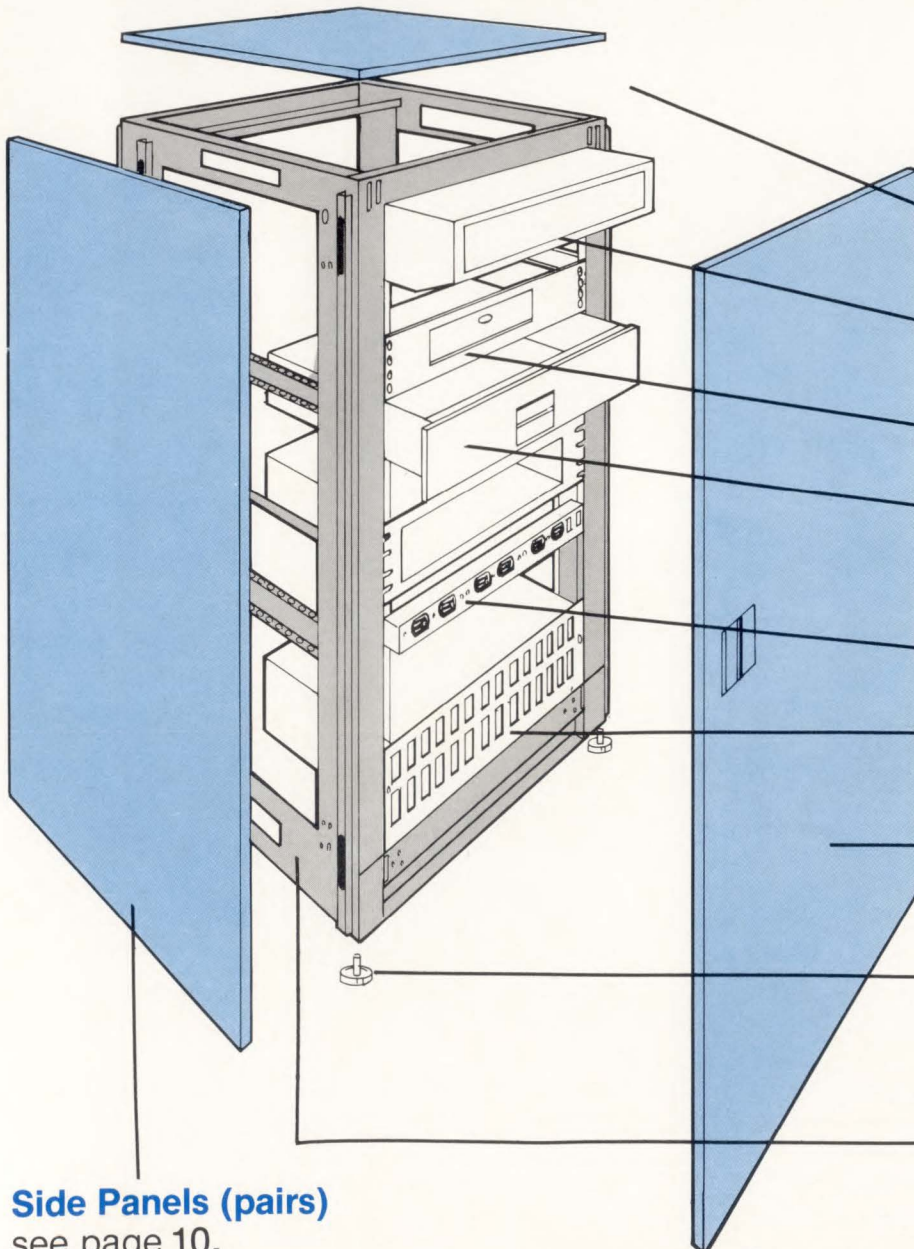RSFS 19″ panel racks are available in 10 heights each in three depths.

RAPID RACK

Certain RSFS cabinets are available from stock completely assembled with door, top, side panel rails and trim. These are available in two popular colors, Grey and Gulf Blue. See Hammond Rapid Rack Catalog.

FLOOR PLATES

These optional plates are available to enclose the bottom of RSFS racks. Finished in BK3.

Depth of Rack	Part Number
17.5	RSAF 19 000 17 BK3
24.5	RSAF 19 000 24 BK3
31.5	RSAF 19 000 31 BK3

Tops see page 12.

Turrets see pages 36,37.

Special panels see pages 34,35.

Drawers see pages 29,30.

Power Bars see pages 20,34,46.

Cooling accessories see pages 31,32.

Rack mount doors see page 13.

**Casters** (rack comes with 4 leveling feet) see page 44.

Extra accessory rails (rack comes complete with 4 rails) see page 33.

Side Panels (pairs) see page 10.

RSFS System rack frames

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Rack Panel Height		Order Part No.	Overall Height	Panel Width	Depth	Qty. of Clip nuts
E	U		C[2]	A	B	
21.0	12	RSFS 19 021......BK3[1]	28.0	19.1		32
28.0	16	RSFS 19 028......BK3	35.0	19.1		
35.0	20	RSFS 19 035......BK3	42.0	19.1	As specified in part no. [1] 17.5" 24.5" or 31.5"	50
42.0	24	RSFS 19 042......BK3	49.0	19.1		
49.0	28	RSFS 19 049......BK3	56.0	19.1		
56.0	32	RSFS 19 056......BK3	63.0	19.1		80
63.0	36	RSFS 19 063......BK3	70.0	19.1		
70.0	40	RSFS 19 070......BK3	77.0	19.1		
77.0	44	RSFS 19 077......BK3	84.0	19.1		
84.0	48	RSFS 19 084......BK3	91.0	19.1		

[1]Specify overall depth in blanks
 17 = 17.5" deep, 24 = 24.5" deep or 31 = 31.5" deep

[2]Levelling feet add at least 1" to height
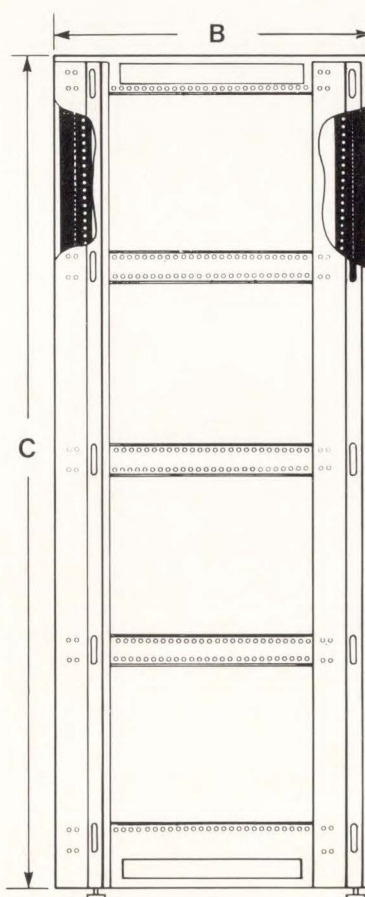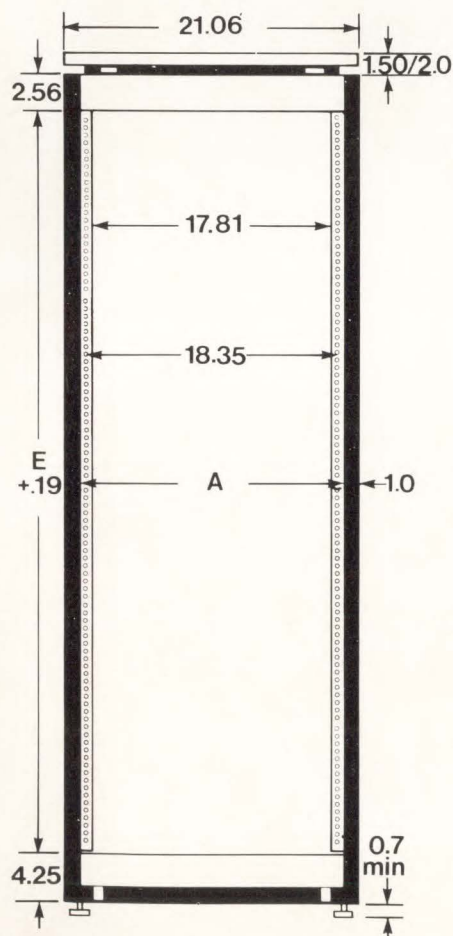
FINISH
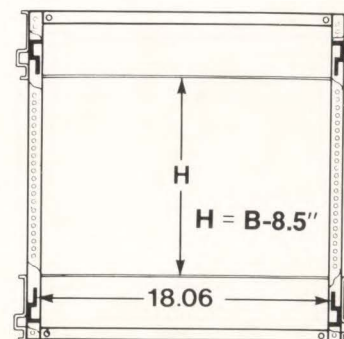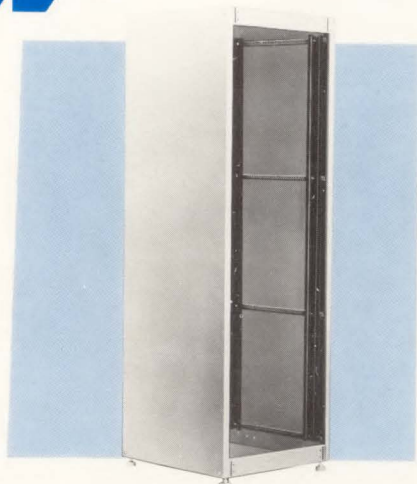Racks are finished in textured, black, baked enamel.

PARTS LIST
- 1 RACK FRAME
- 4 panel/accessory rails
- ¼ - 20 nuts and bolts
- 10 - 32 clip nuts (qty. see table)
- 4 levelling feet (attached)

MATERIAL
Frame - 16 gauge CRS
Rails - 14 gauge CRS

$H = B-8.5"$

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ECONOMY RACK

A knock-down cabinet that couldn't be simpler to assemble —only one bolt in each corner locks the cabinet sides to the top and bottom. The strength comes from the interlocking structure.

The economy racks are designed to be used as single, freestanding units and are not used with system ganging kits.

The four combination panel-accessory rails are fully adjustable. Because more than 2 rail supports are used on cabinets over 42.0" high,

partial height rails can be installed.

Four adjustable levelling glides are standard on all models.

The Economy Rack is designed to accept the same doors as the System Rack. (Doors are on Page 13 of this catalog.) Flush doors will fit on either front or rear of the cabinet. Clear swing doors fit on one side only to permit the opposite side to remain unpunched for use as the cabinet front, without a door, thus eliminating the need for decorative cowling covers.
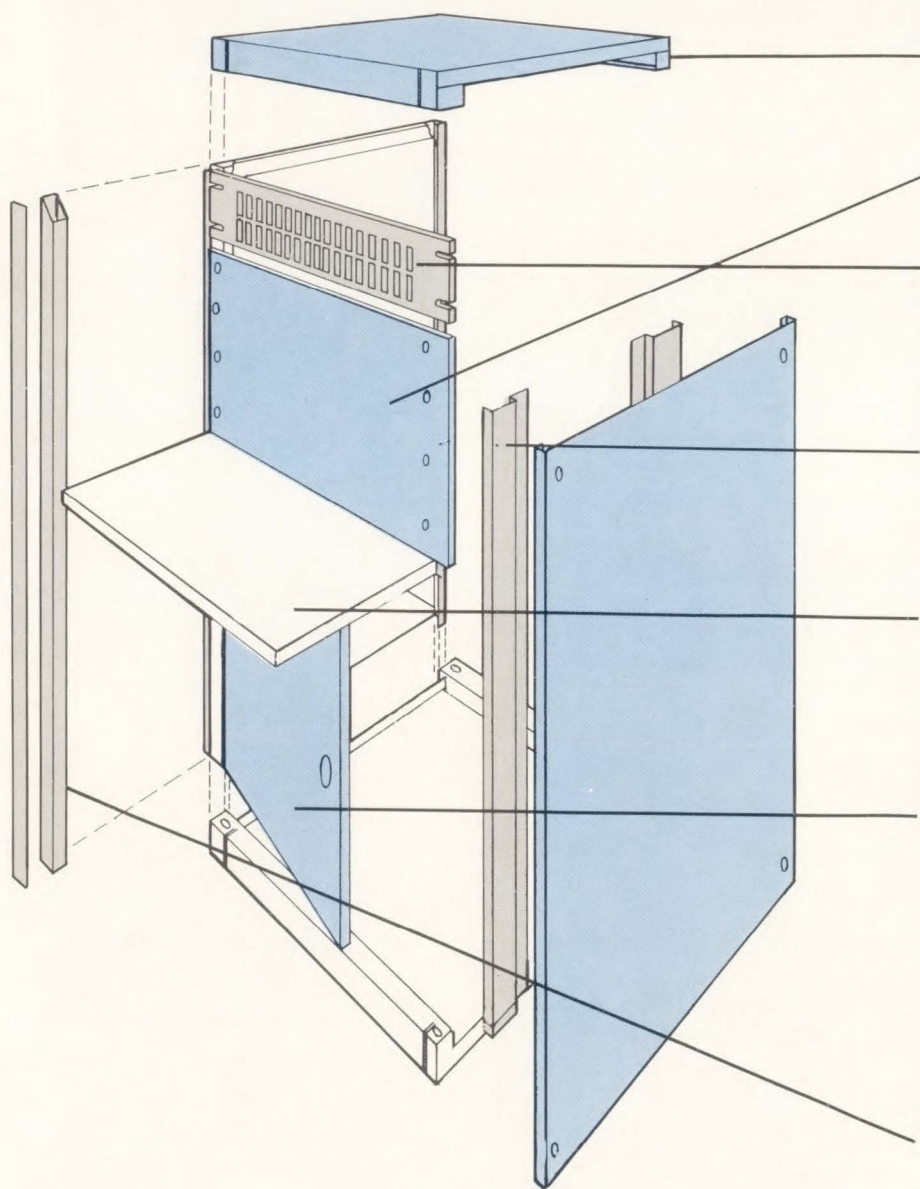
Bottom top and sides are integral part of rack

Panels 19″
see page 10.

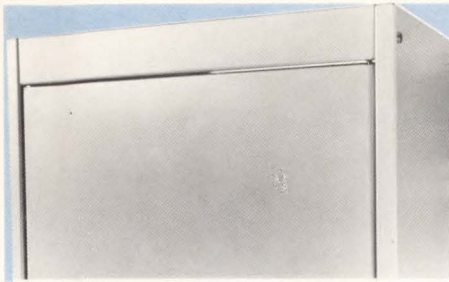**Cooling accessories and panels**
see pages 31, 32.

Extra panel and accessory rails
(rack comes with 4 rails)
see pages 33, 34, 35.

Rack desks
see page 9.

Doors
See pages 34, 13 & 14.

Trim Kit
see pages 7.
also see pg. 16 for example.

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To provide an attractive cowling appearance when using Flush Doors the top and bottom cowling on one side of the REFK is **not** punched. Only plain or louvred Flush Doors (see pp 13) may be used on this side.

The top and bottom cowling on the opposite side of the REFK is punched to accept hardware for clear swing doors (see pp 13). This side will also accept Flush Doors, but punching will be visible.

PARTS LIST ... 1 knock-down frame, 4 panel/ accessory rails with 1/4-20 bolts and nuts. 4 levelling feet and 1 pkg. of clip nuts

MATERIAL ..... 16 gauge CR steel rack 14 gauge CR steel rails

DRESS TRIM KIT
This is an attractive, brushed aluminum extruded trim kit which attaches to the cabinet face by means of concealed screws. Comes in kit form for field assembly. See photo pp. 16.
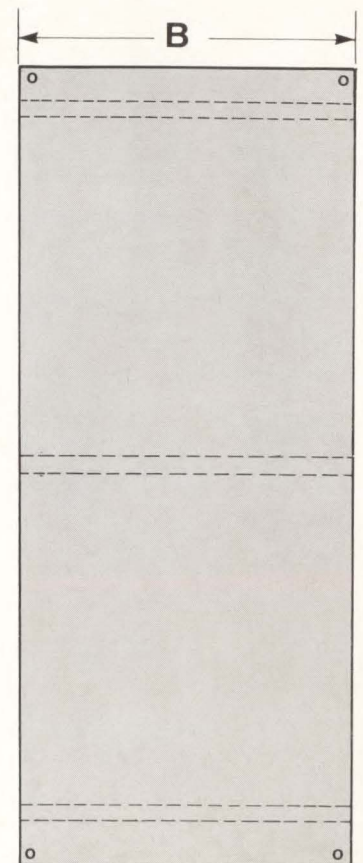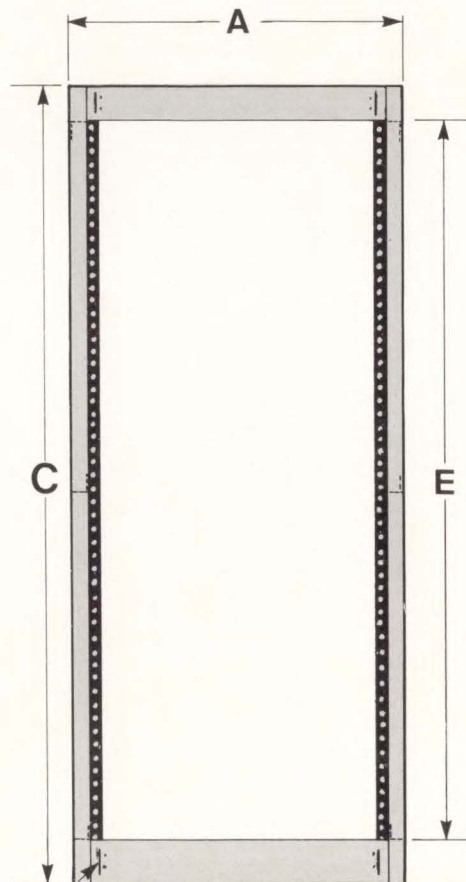
Panel Height		
U	In	Part Number
20	35	RETK 19 035
24	42	RETK 19 042
28	49	RETK 19 049
32	56	RETK 19 056
36	63	RETK 19 063
40	70	RETK 19 070
44	77	RETK 19 077
48	84	RETK 19 084

Rack Panel Height		Order Part No.	Overall Height	Overall Width	Depth	Qty. of Clipnuts
E	U		C^3	A	B	
35.0	20	REFK 19 035_[1]_ _[2]_	40.0	21.06	As specified in part no. [1] 17.5" or 24.5".	50
42.0	24	REFK 19 042_ _	47.0	21.06		
49.0	28	REFK 19 049_ _	54.0	21.06		
56.0	32	REFK 19 056_ _	61.0	21.06		80
63.0	36	REFK 19 063_ _	68.0	21.06		
70.0	40	REFK 19 070_ _	75.0	21.06		
77.0	44	REFK 19 077_ _	82.0	21.06		
84.0	48	REFK 19 084_ _	89.0	21.06		

[1]Specify depth required 17 = 17.5" deep or 24 = 24.5" deep
[2]Specify 3 digit color code from color chart inside front cover
[3]Levelling feet add at least 1" to overall height

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GANGING KITS

Straight line ganging of System Racks requires a ganging kit of the appropriate height. Order by nominal Rack Panel Height. Although conventional ¼ - 20 x 1.5" bolts can be used for joining, the ganging kit, which is installed from the outside of the cabinet, eliminates the need to leave interior access space. The kit also includes a front and rear extrusion which gives a custom appearance to the assembly

PANEL HT. OF RACK	U	CAT. NO.
21.0	12	RSAG 00 021 BK2
28.0	16	RSAG 00 028 BK2
35.0	20	RSAG 00 035 BK2
42.0	24	RSAG 00 042 BK2
49.0	28	RSAG 00 049 BK2
56.0	32	RSAG 00 056 BK2
63.0	36	RSAG 00 063 BK2
70.0	40	RSAG 00 070 BK2
77.0	44	RSAG 00 077 BK2
84.0	48	RSAG 00 084 BK2

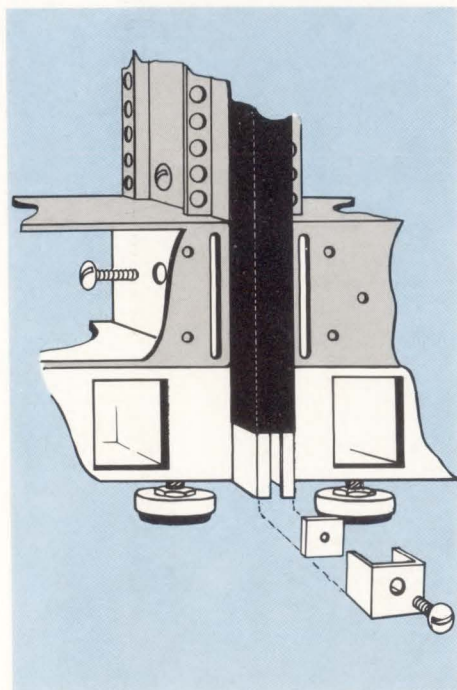Order by Rack Panel height.

FINISH ...... Semigloss black
PARTS
LIST .... 4 nuts and bolts 1/4-20 x 1.5", 2 joining clamps, 2 extrusions
MATERIAL ... ABS extrusion CR steel clamps

Note: Not for use on REFK.

SYSTEM WEDGES

The wedges required to create wrap-around control centres are knock-down kits which can be stored flat until required.

Mounting of the wedge can be done entirely from the outside of the cabinet after equipment installation. Access may be gained, without affecting the strength of the assembly, by removing the rear or top panels of the wedge.

PANEL HT. OF RACK	u	30° WEDGES	60° WEDGES
21.0	12	RSFW 30 021 ——	RSFW 60 021 ——
28.0	16	RSFW 30 028 ——	RSFW 60 028 ——
35.0	20	RSFW 30 035 ——	RSFW 60 035 ——
42.0	24	RSFW 30 042 ——	RSFW 60 042 ——
49.0	28	RSFW 30 049 ——	RSFW 60 049 ——
56.0	32	RSFW 30 056 ——	RSFW 60 056 ——
63.0	36	RSFW 30 063 ——	RSFW 60 063 ——
70.0	40	RSFW 30 070 ——	RSFW 60 070 ——
77.0	44	RSFW 30 077 ——	RSFW 60 077 ——
84.0	48	RSFW 30 084 ——	RSFW 60 084 ——

Specify depth of cabinet in the blanks   17 = 17.5   24 = 24.5   31 = 31.5
Specify rear panel finish with a 3 digit suffix from the color chart
Order by Rack Panel Height.

FINISH ...... Black satin frame and top, choose rear panel color from the color chart
STANDARD PARTS ...... 2 vertical corners 2 rear cowlings 1 wedge top, 1 rear panel 1 front combination joining and trim assembly
MATERIAL ... CR steel
**Note** Not for use on REFK

RSFS REFK Rack mounted desks

Rack mounted desks are ideal for any rack applications where a writing surface or a keyboard or instrument mounting surface is required. These desks are available for single or multiple rack applications.

These desks mount against the rack frame and extend 1.7" into the panel space. This allows you to recess the panels without leaving a gap.

The single straight desk is suitable for mounting on system racks or on the Economy Rack.
All other desks are for System Racks only.
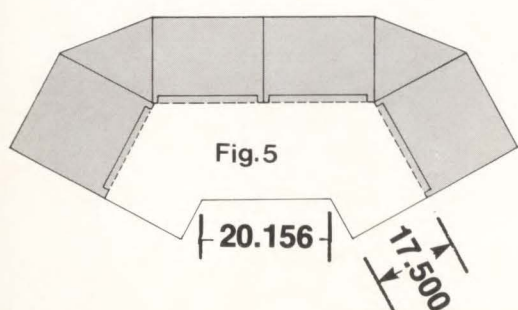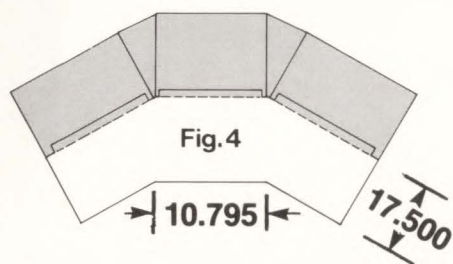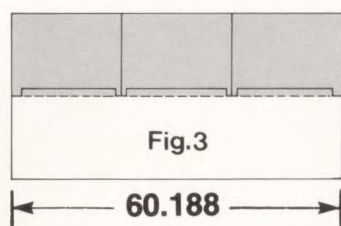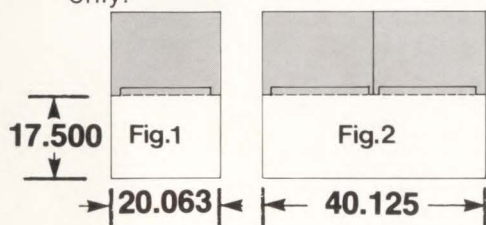
FINISH ...... Sand, Semigloss laminate

PARTS LIST .... 1 desk surface, 2 support channels (per cabinet) plus mounting hardware, fillers for panel rail gaps (if rails are recessed).

MATERIAL ... Wood and high pressure laminate. 14 gauge support channels.

STRAIGHT DESKS

	FIG.	CAT. NO.
Single	1	RSAD 19 001 17 SD4
Double	2	RSAD 19 002 17 SD4
Triple	3	RSAD 19 003 17 SD4

ANGLED DESKS

	FIG	CAT. NO.
Triple Wedge	4	RSAD 19303 17 SD4
Quad Wedge	5	RSAD 19604 17 SD4

17.500 Fig.1 Fig.2
→|20.063|← ← 40.125 →

Fig.3
← 60.188 →

Fig.4
→|10.795|← 17.500

Fig.5
|20.156| 17.500

(1U = 1.75")

15.9 MAX.
16.0
EXTENDS 1.7 INTO THE CABINET

9

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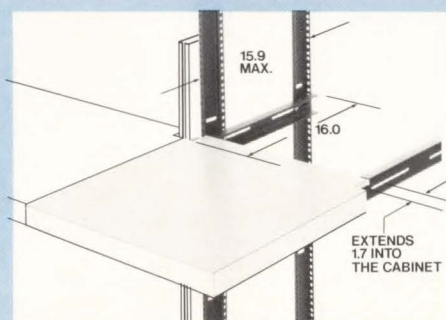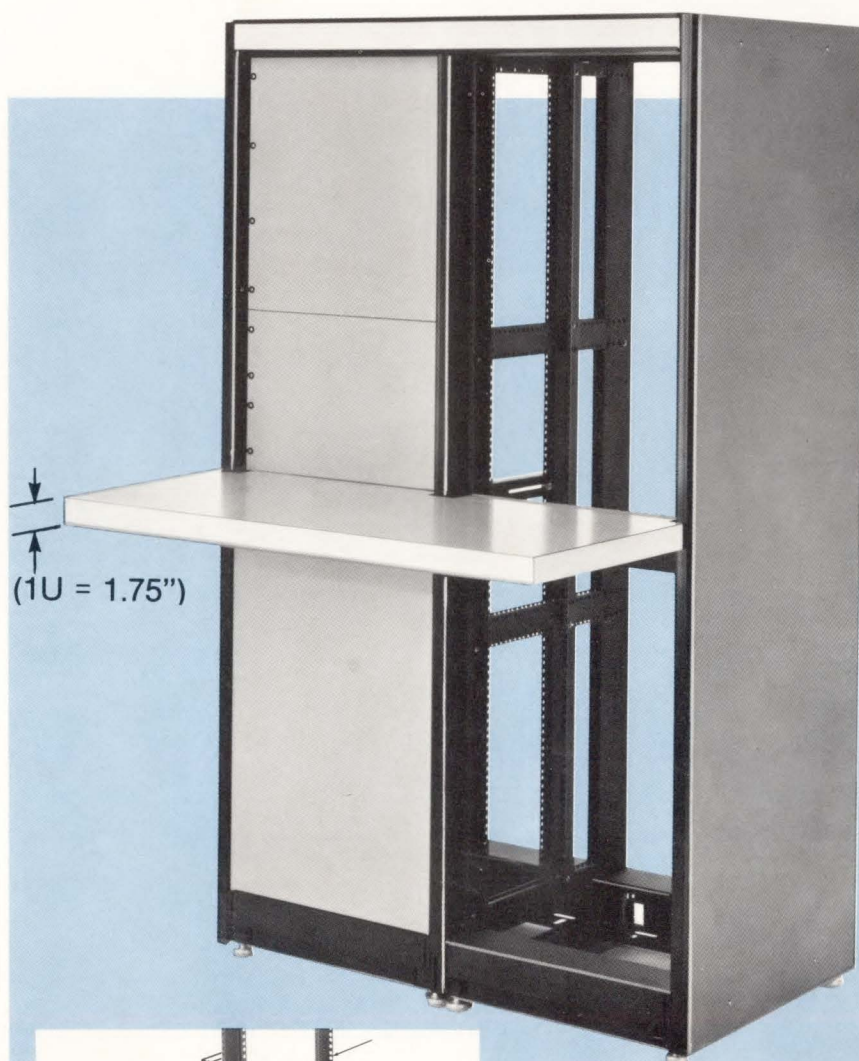
SYSTEM RACK SIDE PANELS

Panels can be mounted entirely from the outside of the cabinet —no need to leave inside access.

The ABS extrusions and neoprene gasketing isolate the metal panel from the frame to reduce vibration noise. Equipment generated noise can be further reduced by adding acoustic foam to the inner surface of the panel.

FINISH ...... Choose from the color chart

PARTS 2 side panels

LIST .... 4 corner extrusions neoprene gasketing 2 mounting brackets and hardware

MATERIAL ... 18 gauge CRS panels, ABS extrusions

Inches	U	17.5" Depth	24.5" Depth	31.5" Depth
21.0	12	RSS[2]....00 021 17[1]....	RSS[2]....00 021 24[1]....	RSS[2]....00 021 31[1]....
28.0	16	RSS......00 028 17	RSS......00 028 24	RSS......00 021 31 ....
35.0	20	RSS......00 035 17	RSS......00 035 24	RSS......00 035 31 ....
42.0	24	RSS....00 042 17	RSS......00 042 24	RSS......00 042 31 ....
49.0	28	RSS......00 049 17	RSS......00 049 24	RSS......00 049 31 ....
56.0	32	RSS......00 056 17	RSS......00 056 24	RSS......00 056 31 ....
63.0	36	RSS......00 063 17	RSS......00 063 24	RSS......00 063 31 ....
70.0	40	RSS......00 070 17	RSS......00 070 24	RSS......00 070 31 ....
77.0	44	RSS......00 077 17	RSS......00 077 24	RSS......00 077 31 ....
84.0	48	RSS......00 084 17	RSS......00 084 24	RSS......00 084 31 ....

[1] Specify finish with a 3 digit suffix the color chart. [2] Specify Blank panel (B) or Louver panel (L).

Note* Rack panel or u height is a common reference dimension used for ordering accessories. Actual side panel height matches rack of like Rack Panel or u height. (1U = 1.75")

TOP VIEW

Detail showing side panel and extrusion assembled.
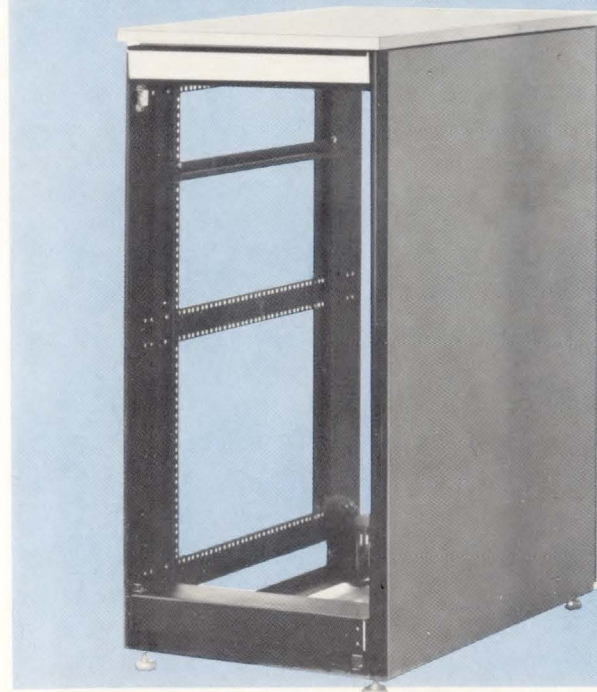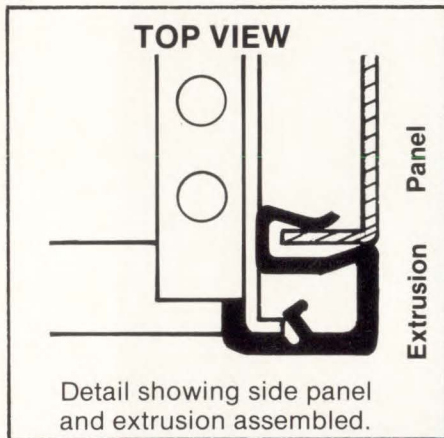
Plain Panel
Sold in pairs.
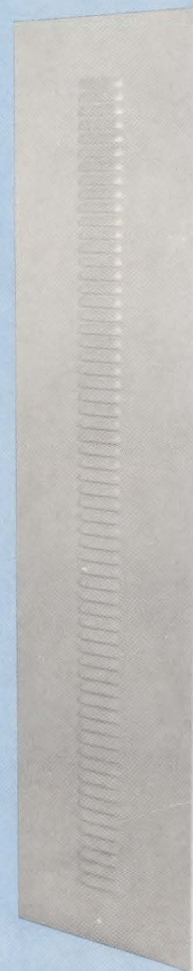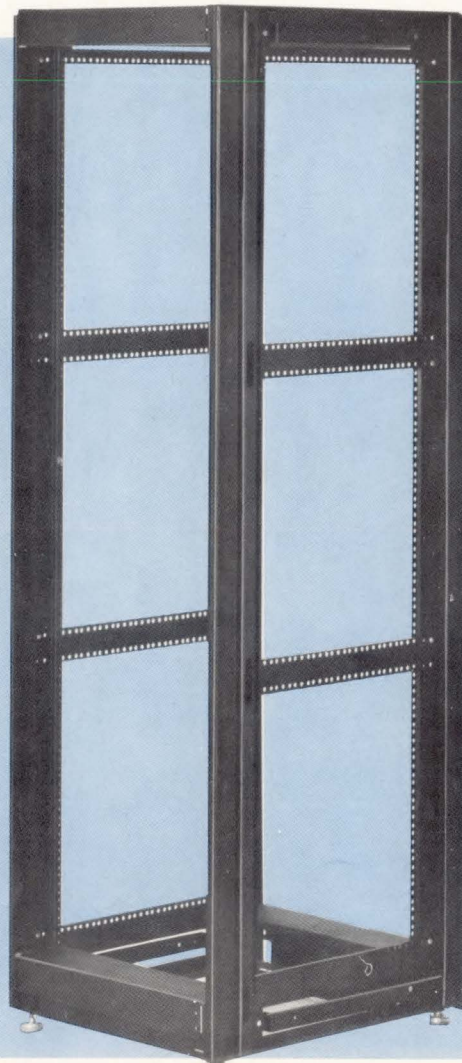
Louvred Panel
Sold in pairs.

RSFS Top accessories

LIFT-UP TOPS

These tops provide a solid work surface and convenient access into the rack from the top. Primarily used on racks with 49' panel height or less. The support arms hold the top open securely at 90°.

FINISH .... Sand semigloss laminate

PARTS LIST ... 1 top with piano hinge for each rack, 2 support arms.

MATERIAL ..... Particle board with high pressure plastic laminate on all sides.

DIMENSIONS .. Width = 21.0, 41.0 or 61.0
Depth = 17.5", 24.5" or 31.5"
Height = 1.2"

NO. OF RACKS	CAT. NO.
Single	RSTL21 000 ___ SD4
Double	RSTL41 000 ___ SD4
Triple	RSTL61 000 ___ SD4

Specify depth in the blanks
18 for 17.5 racks
25 for 24.5 racks
32 for 31.5 racks

STANDARD BLANK PANELS

For economical rack tops or when using racks of 63" panel heights or more (above normal sight line), the system rack will accept standard blank panels. (See page 35)

Fig. A Shows a full depth flat panel used with the ID cowling or clear swing doors.

Fig. B Shows a louvred steel panel used with the plain cowling.

Fig. B2 Shows a blank steel panel used with plain cowling.

Cabinet depth	Fig. A panel space	Fig. B1 & B2 panel space*
17.5	17.5	14.0
24.5	24.5	21.0
31.5	31.5	28.0

*Use of cowling cover (page 15) reduces top opening space

These panels are available on page 32, & 35, along with other special purpose panels, which may also be used as top covers.

A

B1   B2

Top Lowered

Top raised

Air flow
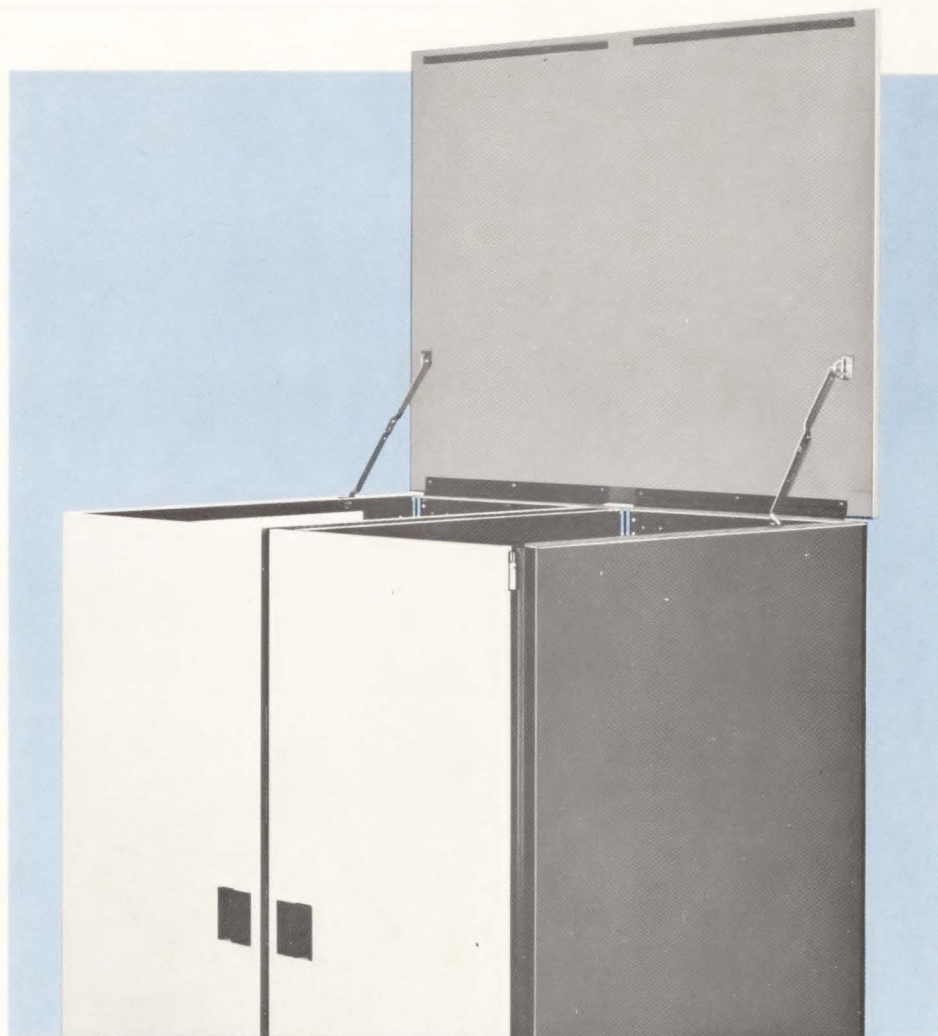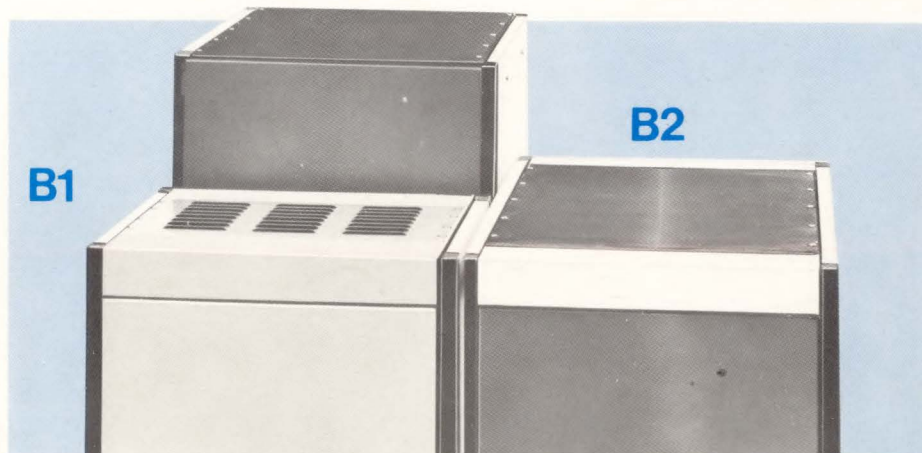
RAISED STEEL TOPS - for 19" racks

These tops are used when an attractive solid top is required OR when top ventilation is required without the risk of dust, liquid or falling objects entering the cabinet.

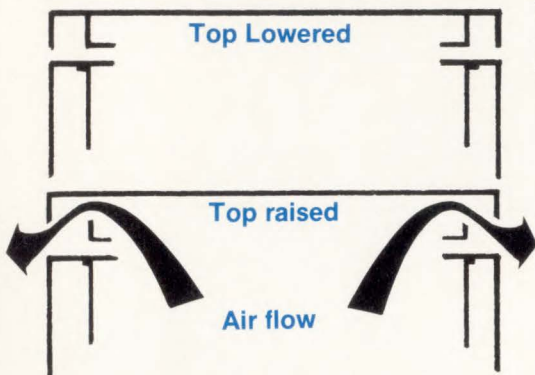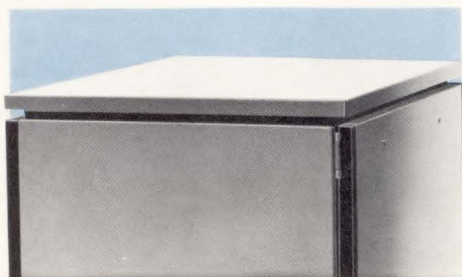Tops may be completely removed from the outside. Slots and tabs at the back and friction catches at the front hold it in place.

By adjusting the top to the upper position, a 0.5" gap allows warm air to flow out on all 4 sides.

Combinations of our 3 top styles will provide attractive closure for any system design.

FINISH ...... Black satin inner ring, top is your choice from the chart.

PARTS LIST .... 1 inner frame per cabinet, one top, gasketing, catches.

MATERIAL ... 12 gauge CRS frame, 14 gauge CRS top.

DIMENSIONS Overall Width, see table (for 19" racks only)
Overall Depth = 18.7, 25.7 or 32.7"
Overall Height = 1.2" when down, or 1.7" when raised for ventilation.

Specify color with 3 digit suffix from color chart

NUMBER OF RACKS TO COVER	COMPLETE UNIT TOP	CONTINUOUS TOP	INTERSPACE TOP
Single	RSTS 21 000--	RSTG 20 000--	RSTM 19 000....
Double	RSTS 41 000--	RSTG 40 000--	
Triple	RSTS 61 000--	RSTG 60 000--	

Specify depth in the blanks   19 for 17.5" deep racks 26 for 24.5" deep racks
33 for 31.5" deep racks

COMPLETE UNIT TOPS

RSTS tops come in single, double and triple cabinet units. They are used as a one piece top for 1, 2 or 3 cabinets, ganged in a straight line.

Top View.

Front

RSTS 21

RSTS 41

RSTS 61
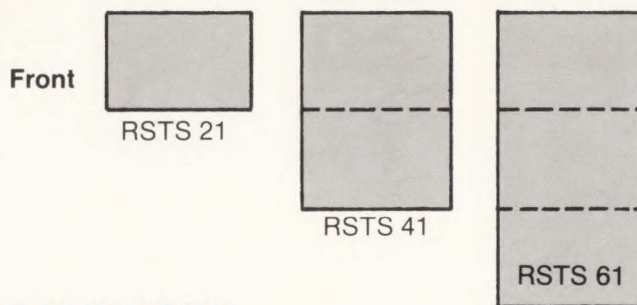
CONTINUOUS TOPS

RSTG tops come in single, double and triple units, but are 5/8" narrower than cabinet width (adjustable to left or right) to allow them to be butted with other RSTG tops to cover 4, 5 or 6 cabinets ganged in a straight line, or to be used with RSFW wedge kit tops.

RSTG 20   RSTG 40

RSTG 40   RSTG 20

RSTG 60

RSTG 60
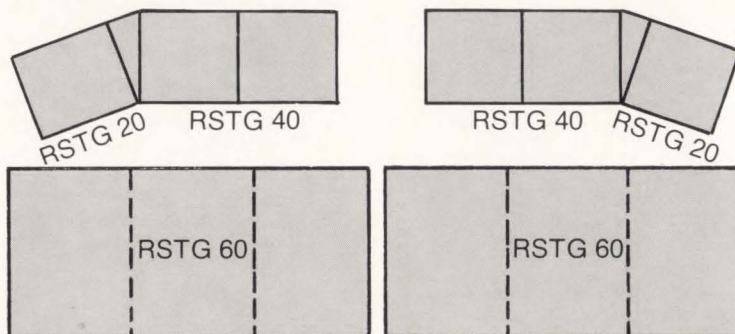
INTERSPACE TOP

RSTM tops come in single cabinet units only. They are 1¼" narrower than full cabinet width to allow them to be used between any two RSFW wedge kit tops. They may also be used between any two RSTG continuous tops.

RSTM 19

RSTG 20   RSTG 20

RSTG 20   RSTG 20

RSTM 19

RSTG 40   RSTM 19   RSTG 40

RSFS REFK Doors
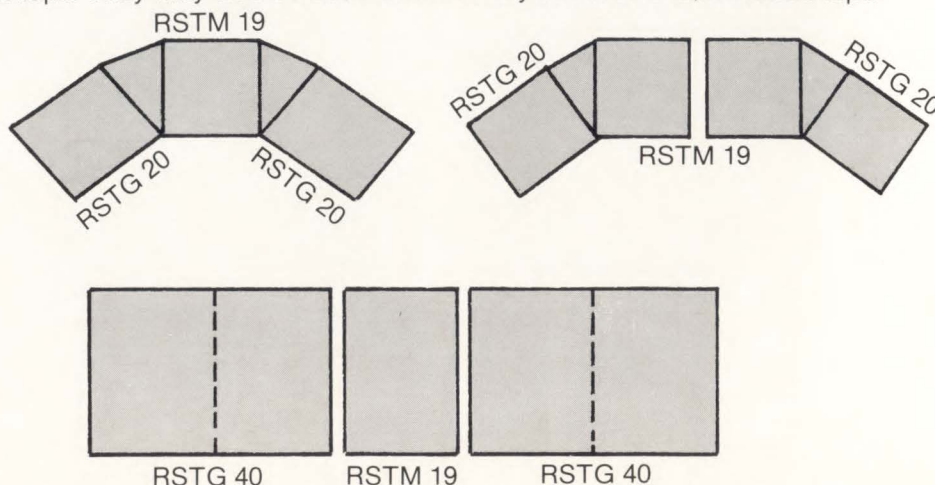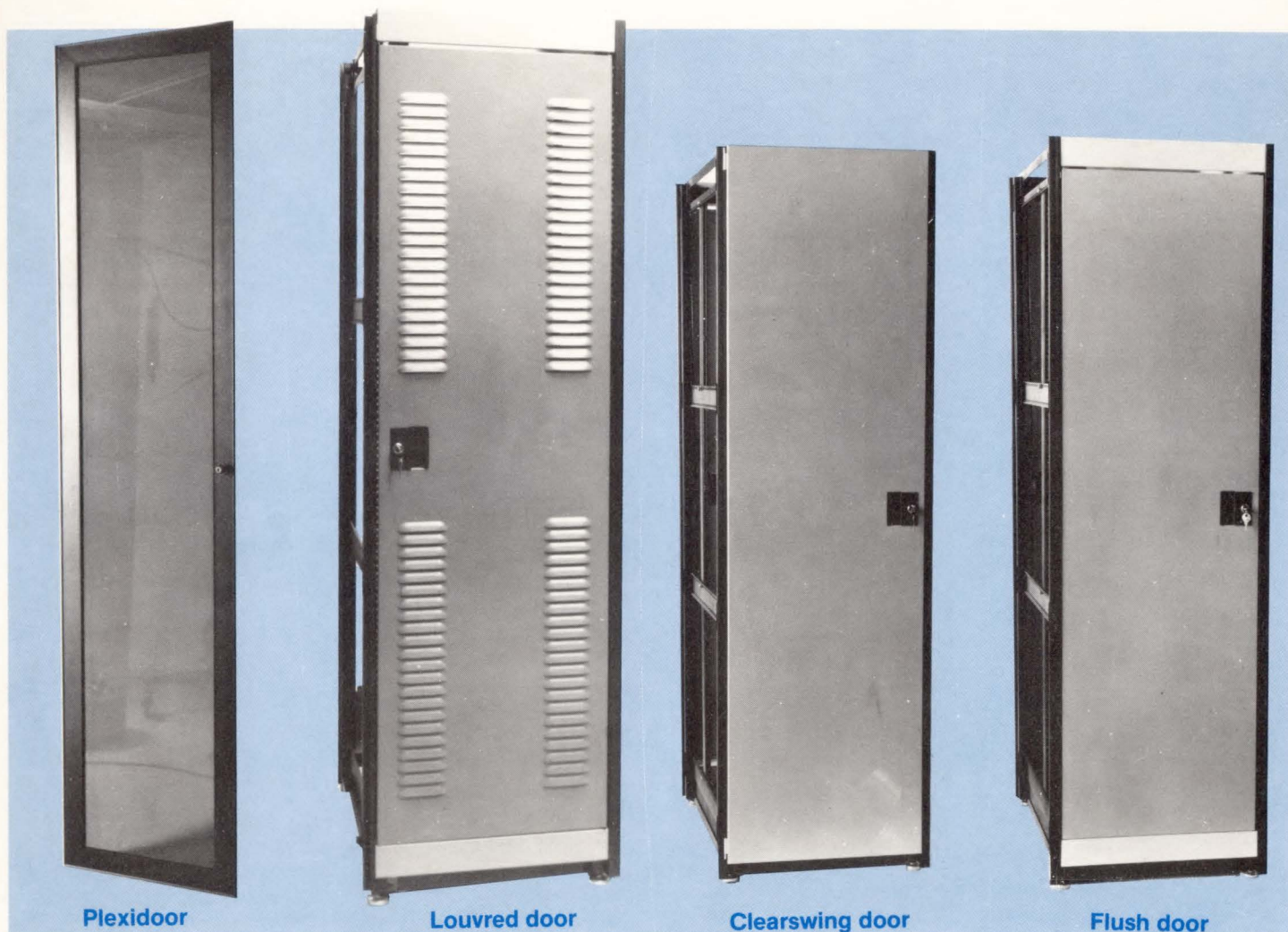
Plexidoor   Louvred door   Clearswing door   Flush door

Louvred Door

Fits either side of RSFS or REFK racks. These doors fill the panel space and close flush with the cabinet frame. When open, the space between the panel rails is completely accessible.

Note: These doors should be used on the non-punched side of REFK racks for best appearance.

Doors are right hand opening only (excluding plexidoor).

COMMON FEATURES

- 2 point keyed locking.
- Instant removal by spring loaded hinge pins.
- Recessed handles with nameplate strips.
  Reversible for left or right hinging (by inverting the door).
- **Magnetic catch on clear swing door.**
- **Roller catch on flush or louvred door.**

FLUSH DOOR

Fits either side of System and Economy Racks.

These doors fill the panel space and close flush with the cabinet frame. When open, the space between the panel rails is completely accessible.

CLEAR SWING DOOR

Fits either side of System Racks and one side of Economy Racks.

These doors cover the top and bottom cowlings and sit in front of the frame when closed. When open, the entire panel space, including panel rails is accessible.

Plexi Door

Fits either side of RSFS racks and one side only of REFK rack. These doors cover top and bottom cowling and sit in front of the frame when door is closed. Comes complete with top and bottom trim rails. Smoke plexi only.

| Panel space		Cat. No.
ins	u	
21.0	**12**	RS __ 19 021
28.0	**16**	RS __ 19 028
35.0	**20**	RS __ 19 035
42.0	**24**	RS __ 19 042
49.0	**28**	RS __ 19 049
56.0	**32**	RS __ 19 056
63.0	**36**	RS __ 19 063
70.0	**40**	RS __ 19 070
77.0	**44**	RS __ 19 077
84.0	**48**	RS __ 19 084

Specify type of door in the blanks
DC = solid clear swing door
DF = solid flush door
DL = louvred flush door*
PD = plexi door (specify BK1)

1 Order door with same panel space dimension as your rack do not order by overall rack height. (As clearswing and plexidoor cover the whole rack their actual dimensions will be larger than the nominal panel space.)

13
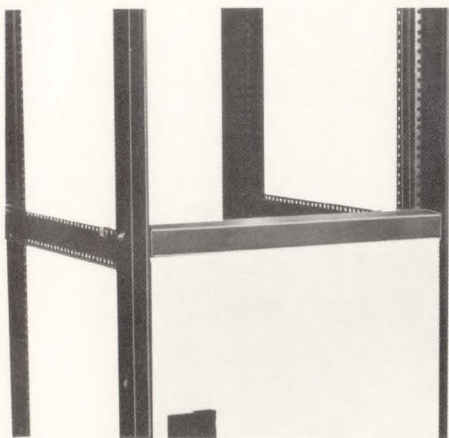
DOOR SUPPORTS
for partial height flush doors
- Uses 1.75" of panel height.
- Positions inside of door 1.7" from panel rail.
- If one end of door is hinging in the cabinet cowling, then panel rail must be recessed 2.25".
- If door is to be level with standard 19" panels, then the panel rails must be staggered accordingly (normally by cutting the rail).

FINISH ...... Black satin
PARTS 1 support bar
LIST .... 2 bolts 1/4-20
MATERIAL ... 14 gauge CRS

RSDS 19 BK3 for 19" panel spaces

Suitable only for flush doors.
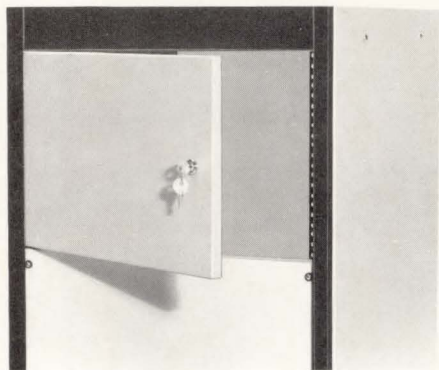
PANEL RAIL MOUNTED DOOR

Can be installed on any 19" panel space. Hinges bolt directly to the panel rail. When door is open the space between the panel rails is completely accessible. Overall depth of closed door matches the raised panels on page 35.

Panel Height		Cat. No.
in	u	
10.5	6	RSDP 19 010
12.25	7	RSDP 19 012
14.0	8	RSDP 19 014
17.5	10	RSDP 19 017
22.75	13	RSDP 19 022
28.0	16	RSDP 19 028

Specify finish with a 3 digit suffix from the color chart

ACCESS DOOR PANEL
- Use as is for equipment access or fasten a chassis on the 3.5" space provided below the door.
- 14 gal. steel door with a 1427 B lock.

Cat. No.	Panel Height u		Door Size
5-1050 DS	10.5	6	6.0 x 15.0
Finish — ASA 61 grey only			
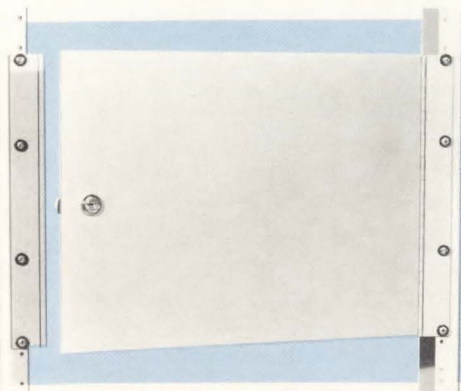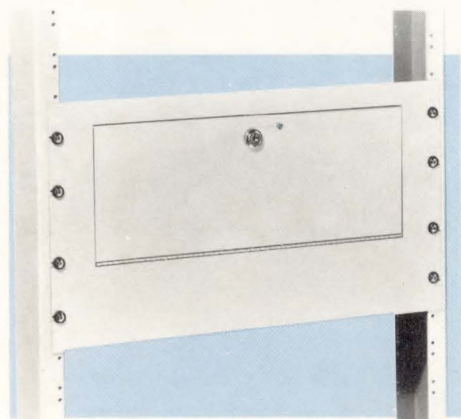
HINGED DOOR PANELS
- 14 ga. steel door with a 1427 B lock (see page 44).
- Opening is full panel height by 16.2" wide.

Panel Height		Cat. No.
in	u	
5.25	3	PHPF 19 005
8.75	5	PHPF 19 008
12.25	7	PHPF 19 012

Specify finish with a 3 digit suffix from the color chart

Frame accessories

ID COWLING

When clear-swing doors are **not** used, the cowling can be covered with an identification strip which matches the corner and ganging trims. When 2 or 3 System Racks are ganged, a single width strip gives a custom appearance to the assembly.

Each cowling comes with a steel sign panel and a protective plastic panel.

FINISH ...... Black semigloss plastic, painted metal insert

PARTS 1 ID strip,
LIST .... 1 piece of plexi, 1 metal panel

| No. Of Racks	19" Racks
1	RSAC 19
2	RSAC 39
3	RSAC 59

Specify finish of the metal panel with a 3 digit suffix from the color chart.

MATERIAL ... ABS extrusion polystyrene sheet
DIMENSIONS Depth = 0.4"
Height = 2.6"
Signage area = 1.9" high

PLAIN COWLING COVER

A slip-on cover for System Rack cowlings that may be color co-ordinated to match frames, panels, etc.

Because the top cowling extends slightly into the top opening of the rack, it reduces the opening by 1.75" front and rear.

For an improved top appearance, use a cowling on front and rear with a formed panel between.

FINISH ...... Choose from the color chart

PARTS
LIST .... 1 cowling cover
MATERIAL ... 20 gauge CR steel
DIMENSIONS Width 19" or 24"

For Use With	Top Cowling Pair	Bottom Cowling Pair
Flush Doors	RSAC 1914	RSAC 1912
No Doors	RSAC 1904	RSAC 1902
RSTL Lift Top	RSCL 19	

Specify color with 3 digit suffix from color chart.
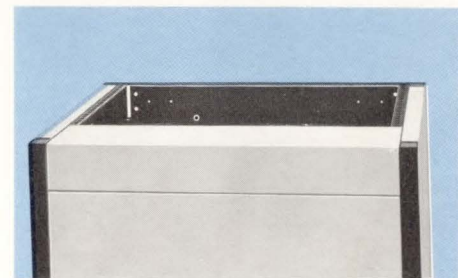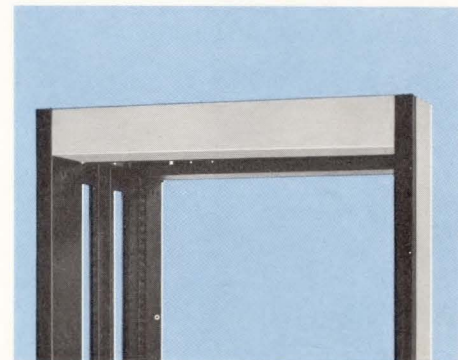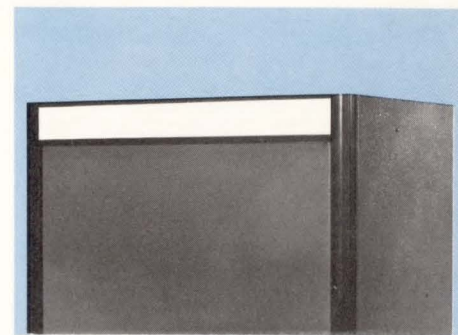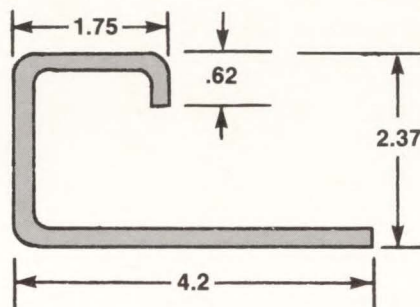
CASTOR BASES

The castor base fits into the System Rack and bolts into the levelling feet holes. The overall extension in depth adds stability and the recessed base adds only 2" to the overall height of the cabinet (levelling feet add a minimum of 1").

Cat. No. RABC 19 BK3   19" width

FINISH ..... Satin Black
PARTS 2 bases, 4 castors,
LIST .... 4 bolts (5/16—18)
MATERIAL ... 12 gauge CR steel
DIMENSIONS Width = 19"
Height = 3.7" with castors
Depth — adds 2.2" to cabinet (plus castors)

RETRACTABLE STABILIZERS

To prevent racks from tipping when heavy equipment is withdrawn on slides. Can be installed in System Racks in either front or rear kickbases.

Cat. No. RSAS 16 BK3

1564 racks with optional wedge
units, desk and panels.

1469 with optional plexi door.

REFK with optional door, trim kit
and castors

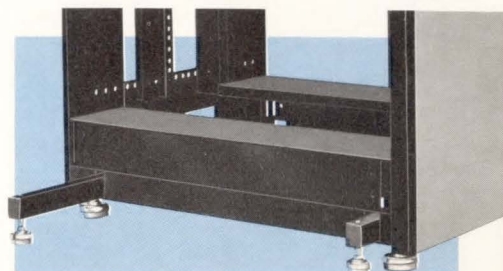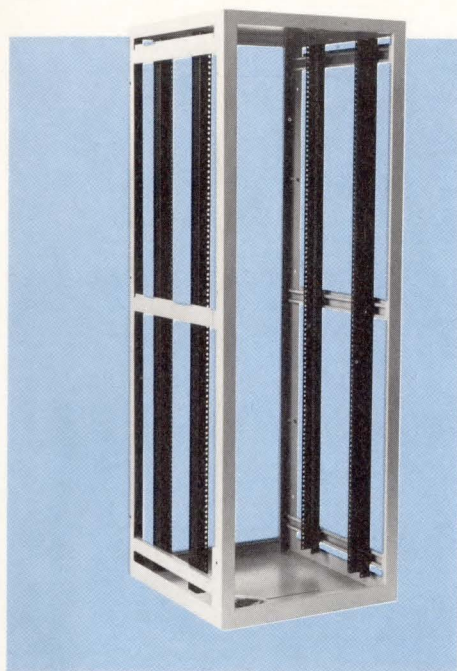The 1469 rack is a modular **19" enclosure made for situations** where heavier equipment is to be mounted in an attractive package. This rack is extremely sturdy when used as a single unit and even more sturdy when ganged.

Four combination rails are included which are compatible with all the universal 19" mounting accessories found in this catalog. While doors, side panels and ganging kits are not interchangeable with System Racks, a wide choice of available finish options can be found on the following pages.

1469 racks are available in all standard colors found on Color chart

Two .50 - .75" conduit knockouts are provided in the bottom rear flange. A 9.5 x 9.5" conduit cutout is provided in the bottom complete with bolted cover plate.

A set of wiring clips are installed in each rack. A & B series have 2 each front and rear, C, E and F series have 4 each, front and rear.

RAPID RACK

Certain 1469 series cabinets are available from stock, completely assembled with door, side panel and accessory rails. These are available in 2 popular colors ASA 61 grey and Gulf Blue. See Hammond Rapid Rack brochure.
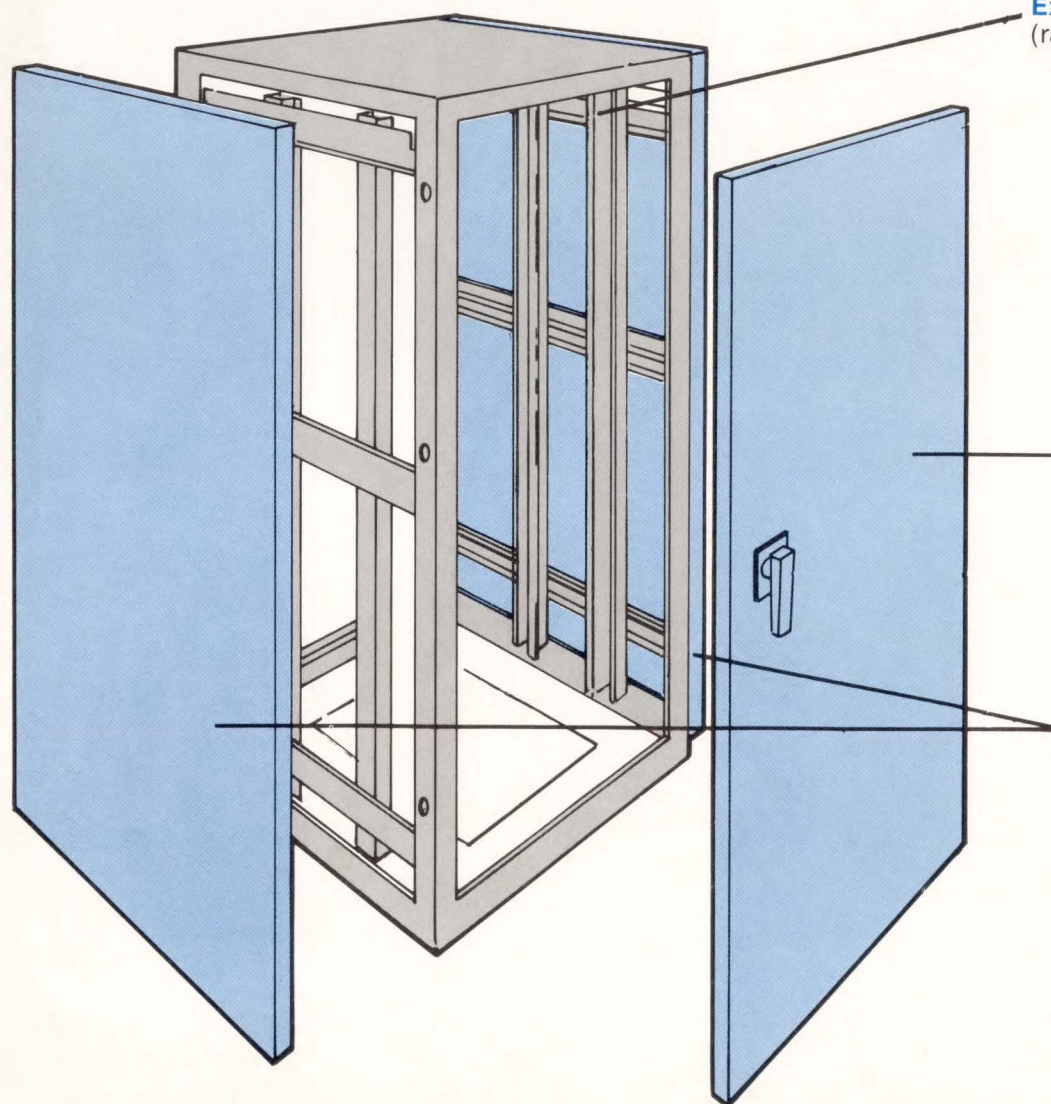
Extra Combination rails
(rack comes with 4 rails) see page 20

Special Panels
(see pages 34, 35)

Drawers
(see pages 29, 30)

Cooling Accessories
(see pages 31, 32)

Doors
(see page 19)

Power Strips
(see pages 20, 34, 36.)

Dress panels
(see page 19)

Cat. No. [1]	Overall Frame			D	Panel Space		F	G	Inside		Qty. of Clip Nuts	Ship Wt. Lb.
	A	B	C		E	U			H	J		
1469 A1	22.5	17.5	52.5	19.0	49.0	28	18.38	17.8	16.0	20.7	50	100
1469 A2	22.5	24.0	52.5	19.0	49.0	28	18.38	17.8	22.5	20.7	50	120
1469 A3	22.5	31.5	52.5	19.0	49.0	28	18.38	17.8	30.0	20.7	50	120
1469 A4	27.5	24.0	52.5	24.0	49.0	28	23.38	22.8	22.5	25.7	50	120
1469 A5	27.5	31.5	52.5	24.0	49.0	28	23.38	22.8	30.0	25.7	50	120
1469 B1	22.5	17.5	64.7	19.0	61.25	35	18.38	17.8	16.0	20.7	80	120
1469 B2	22.5	24.0	64.7	19.0	61.25	35	18.38	17.8	22.5	20.7	80	135
1469 B3	22.5	31.5	64.7	19.0	61.25	35	18.38	17.8	30.0	20.7	80	160
1469 B4	27.5	24.0	64.7	24.0	61.25	35	23.38	22.8	22.5	25.7	80	160
1469 B5	27.5	31.5	64.7	24.0	61.25	35	23.38	22.8	30.0	25.7	80	160
1469 C1	22.5	17.5	73.5	19.0	70.0	40	18.38	17.8	16.0	20.7	80	160
1469 C2	22.5	24.0	73.5	19.0	70.0	40	18.38	17.8	22.5	20.7	80	160
1469 C3	22.5	31.5	73.5	19.0	70.0	40	18.38	17.8	30.0	20.7	80	195
1469 C4	27.5	24.0	73.5	24.0	70.0	40	23.38	22.8	22.5	25.7	80	195
1469 C5	27.5	31.5	73.5	24.0	70.0	40	23.38	22.8	30.0	25.7	80	195
1469 E1	22.5	17.5	84.0	19.0	80.50	46	18.38	17.8	16.0	20.7	80	180
1469 E2	22.5	24.0	84.0	19.0	80.50	46	18.38	17.8	22.5	20.7	80	180
1469 E3	22.5	31.5	84.0	19.0	80.50	46	18.38	17.8	30.0	20.7	80	195
1469 E4	27.5	24.0	84.0	24.0	80.50	46	23.38	22.8	22.5	25.7	80	220
1469 E5	27.5	31.5	84.0	24.0	80.50	46	23.38	22.8	30.0	25.7	80	220
1469 F2	22.5	24.0	90.0	19.0	85.75	49	18.38	17.8	22.5	20.7	80	195
1469 F3	22.5	31.5	90.0	19.0	85.75	49	18.38	17.8	22.5	20.7	80	195
1469 F4	27.5	24.0	90.0	24.0	85.75	49	23.38	22.8	22.5	25.7	80	235
1469 F5	27.5	31.5	90.0	24.0	85.75	49	23.38	22.8	30.0	25.7	80	235

NOTE: If total panel space is to be used, remove front door for ease of installation. All dimensions are in inches.

[1]**FINISH** .... Specify BK1 or GY2.

PARTS LIST ....
1 pair panel/accessory rails
.¼ - 20 bolts & nuts
.10-32 clip nuts (qty see table)
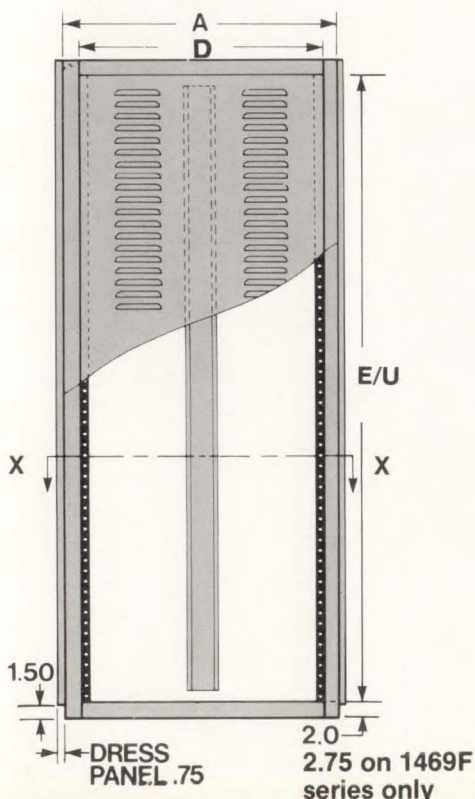.bolted bottom cover plate

MATERIAL ...
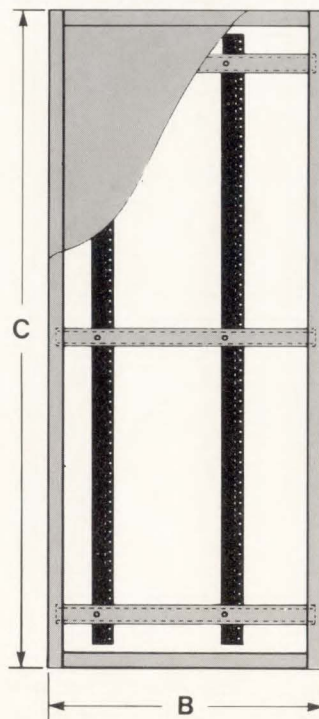Frame - 14 gauge - CRS
Rails - 10 gauge CRS

CUSTOM SERVICES

The following are available on special request from our factory:

- Non standard sizes
- Special colors and finishes
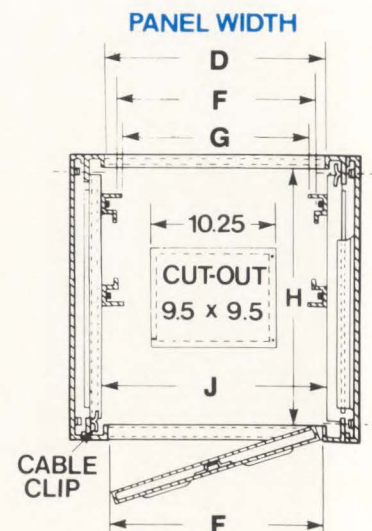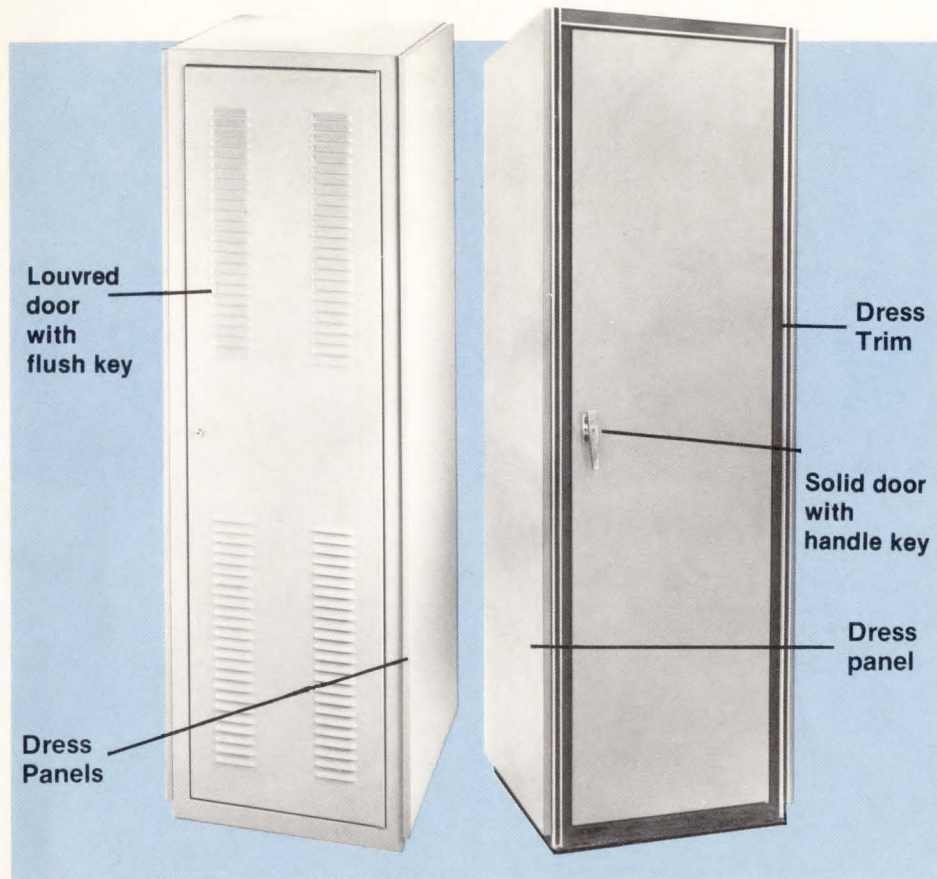- Special corner wedge units
- Special Punching

FRONT/REAR VIEW

SIDE VIEW

VIEW XX

PANEL WIDTH

DRESS PANEL .75

2.75 on 1469F series only

18

HAMMOND MANUFACTURING™

OPTIONAL ACCESSORIES

(order separately)

DRESS PANELS

Formed panels are 0.75" thick, hook over Amhal strut and can be secured from the inside. Flat panels are 16 gauge and are bolted on through the frame.

Dress panels are sold in pairs

EXTRUDED DRESS TRIM

Attractive brushed aluminum extruded dress trim attached to cabinet face by means of concealed screws.

DOORS

Choice of solid or louvred door with flush key lock or automotive type locking handle. Cabinet door frame is pre drilled for hinges and door stops. Plexi doors are available for applications requiring continuous monitoring of equipment.

NOTE

- If total panel space is used, remove front door for ease of installation.
- All dimensions in inches.

1469 SERIES DOORS

For Rack	Louvre Door Flush Key*	Louvre Door Handle Key*	Solid Door Flush Key*	Solid Door Handle Key*	Plexi Door
1469 A1,2,3,	1469 A1LF	1469 A1LA	1469 A1SF	1469 A1SA	1469 A1CPSK2
1469 A4,5	1469 A4LF	1469 A4LA	1469 A4SF	1469 A4SA	1469 A4CPSK2
1469 B1,2,3,	1469 B1LF	1469 B1LA	1469 B1SF	1469 B1SA	1469 B1CPSK2
1469 B4,5,	1469 B4LF	1469 B4LA	1469 B4SF	1469 B4SA	1469 B4CPSK2
1469 C1,2,3,	1469 C1LF	1469 C1LA	1469 C1SF	1469 C1SA	1469 C1CPSK2
1469 C4,5,	1469 C4LF	1469 C4LA	1469 C4SF	1469 C4SA	1469 C4CPSK2
1469 E1,2,3,	1469 E1LF	1469 E1LA	1469 E1SF	1469 E1SA	1469 E1CPSK2
1469 E4,5,	1469 E4LF	1469 E4LA	1469 E4SF	1469 E4SA	1469 E4CPSK2
1469 F2,3,	1469 F1LF	1469 F1LA	1469 F1SF	1469 F1SA	1469 F1CPSK2
1469 F4,5	1469 F4LF	1469 F4LA	1469 F4SF	1469 F4SA	1469 F4CPSK2

*Specify Color Code with a 3 digit suffix from the color chart.

1469 SERIES DRESS PANELS (PAIRS)   *Specify color code. Sold in pairs.

For Rack	Formed panel*	Wt. lb.	Flat panel*	Wt. lb.
1469 A1	1469 A1P....	40	1469 A1Q....	23
1469 A2,4	1469 A2P....	50	1469 A2Q....	33
1469 A3,5	1469 A3P....	60	1469 A3Q....	43
1469 B1	1469 B1P....	50	1469 B1Q....	33
1469 B2,4	1469 B2P....	65	1469 B2Q....	32
1469 B3,5	1469 B3P....	78	1469 B3Q....	56
1469 C1	1469 C1P....		1469 C1Q....	
1469 C2,4	1469 C2P....	75	1469 C2Q....	50
1469 C3,5	1469 C3P....	90	1469 C3Q....	64
1469 E1	1469 E1P....		1469 E1Q....	
1469 E2,4	1469 E2P....	85	1469 E2Q....	55
1469 E3,5	1469 E3P....	102	1469 E3Q....	71
1469 F2,4	1469 F2P....	90	1469 F2Q....	60
1469 F3,5	1469 F3P....	108	1469 F3Q....	78

**Plexi Door**

HAMMOND MANUFACTURING™
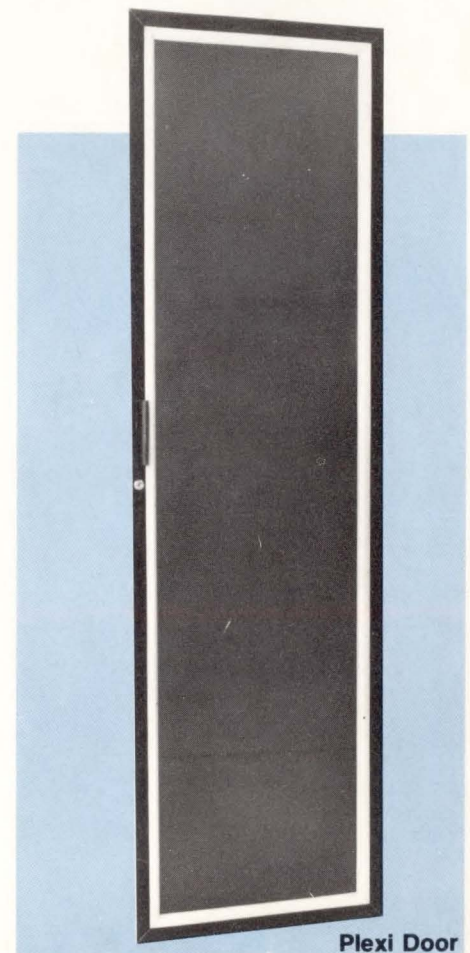
CABINET DOLLIES 1424 SERIES

- Constructed of .12" thick steel angles.
- Max. load approx. 600 lb.
- Ball Bearing swivel casters.
- Finished in Black BK1 or GY2 baked enamel.

Cat. No.	Inside Dimensions	
1424G[1]	22.7	17.7
1424J	22.7	24.2
1424K	27.7	24.
1424L	22.7	31.7
1424M	27.7	31.7

[1]Specify color BK1 or GY2
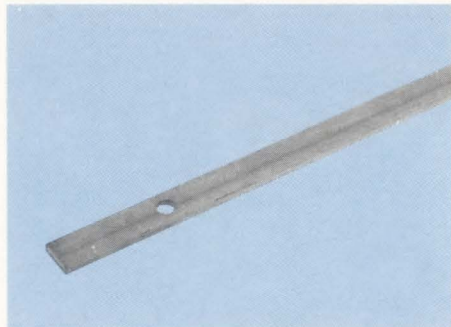
Cat. No.	Order
1584 MK1	....

POWER BAR MOUNTING KIT

Comes with hardware to mount power bars to Systems Rack or Amhal Struts. See page 46 for more power bar data.

GROUND BUS STRIPS

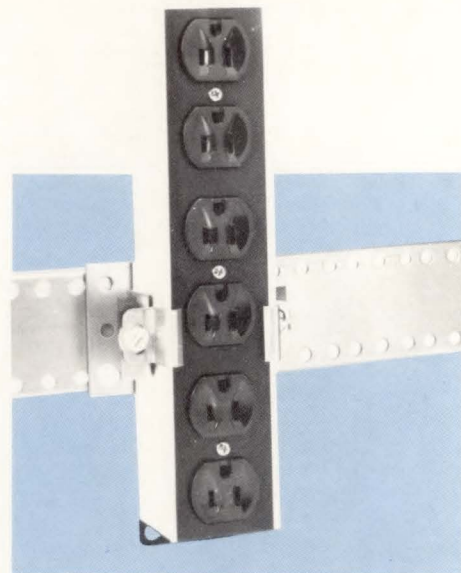Copper strip .125" x .625" with hardware for mounting on Amhal struts.
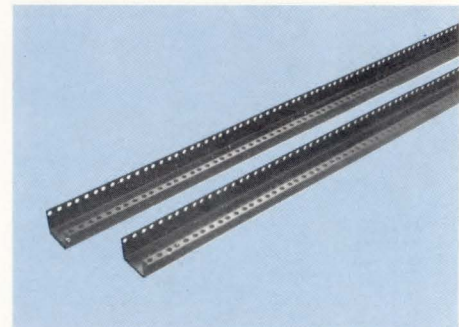

1584 MK1 with System Rack Mount.

EXTRA PAIRS RAILS

Extra pairs of combination panel rails complete with mounting hardware. Painted black. Rails have E1A hole centres of 5/8" - 5/8" -1/2" spacing and will accept 1/4" - 20 bolts or 10 - 32 clip nuts.

ELECTRICAL DISTRIBUTION STRIPS

CSA approved 120 VAC Power Bars have 8 receptacles and come in 4 or 6 foot lengths, each with 8 receptacles. Also see pages 46 for other rack mountable power bars.
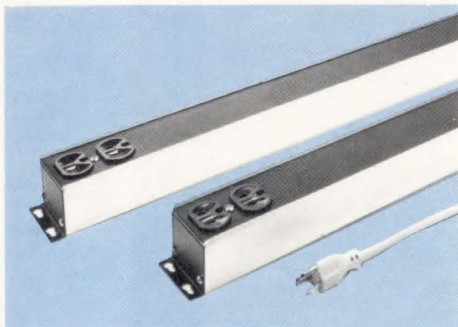
No. of Receptacles	Overall Length °	With 6' Cord	With 15' Cord
8	4 ft	1585H8A	1585H8B
8	6 ft	1587H8A	1587H8B

For Cabinet	Bus	Wt. Lb.
1469 A1,2	1469 AGB	3
1469 B1,2	1469 BGB	4
1469 C2	1469 CGB	5
1469 E2	1469 EGB	6
1469 C4	1469 CGB	5
1469 E4	1469 EGB	6
1469 F2	1469 FGB	7
1469 F4	1469 FGB	7

For Cabinet	Panel Rails	Qty. of Clip Nuts
1469 A1,2,3,4,5	1469AC	25
1469 B1,2,3,4,5	1469BC	40
1469 C1,2,3,4,5	1469CC	40
1469 E1,2,3,4,5	1469EC	40
1469 F1,2,3,4,5	1469FC	40

CORNER UNITS

45° corner units with removable rear cover plates. Frame available in Black (BK1) only. Specify color code for corner unit door from color chart.

1469 SERIES CORNER UNITS

For Rack	Corner	For Rack	Corner
1469 A1	1469 A1K	1469 C1	1469 C1K
1469 A2,4	1469 A2K	1469 C2,4	1469 C2K
1469 A3,5	1469 A3K	1469 C3,5	1469 C3K
1469 B1	1469 B1K	1469 E1	1469 E1K
1469 B2,4	1469 B2K	1469 E2,4	1469 E2K
1469 B3,5	1469 B3K	1469 E3,5	1469 E3K
		1469 F2,4	1469 F2K
		1469 F3,5	1469 F3K

TRIM KITS

For Cabinet	Trim
1469 A1,2,3	1469 A1T
1469 B1,2,3	1469 B1T
1469 C1,2,3	1469 C1T
1469 E1,2,3	1469 E1T
1469 A4,5	1469 A4T
1469 B4,5	1469 B4T
1469 C4,5	1469 C4T
1469 E4,5	1469 E4T
1469 F2,3	1469 F1T
1469 F4,5	1469 F4T

20

1564 Sloped Console frames
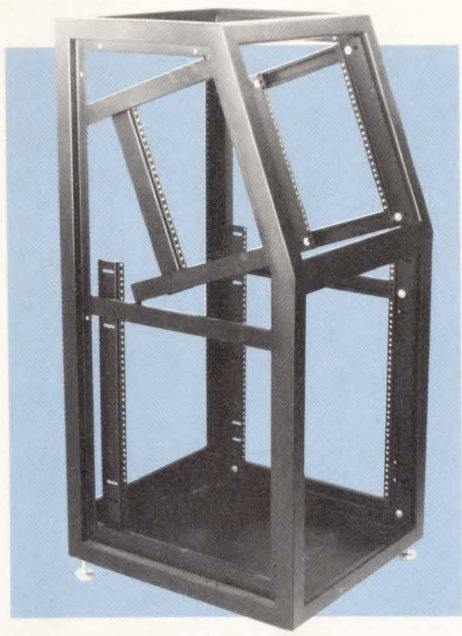
1564 Series racks provide an attractive, durable enclosure for control centre installations, or for protection of electronic, hydraulic, pneumatic, or electric equipment.

20° slope provides optimum viewing angle for control or instrument panel. Integral CRT mounting angles and optional desk panel provide versatility for many applications.

Two panel surfaces, each with **EIA** standard spaced mounting holes will accept all 19" or 24" panels listed in this catalog.

Ganging kits and wedge units are available as standard options.

1564 racks are finished in textured black enamel. Side panels and front surface panels are available in all standard colors

1564 SERIES RACKS

Cat. No.	Height	Width	Depth
1564 A2BK1	49.0	22.56	24.5
1564 B2BK1	49.0	22.56	31.5
1564 A4BK1	49.0	27.56	24.5
1564 B4BK1	49.0	27.56	31.5

(PAIRS) 1564 SERIES SIDE PANELS

For Rack	Panel
1564 A2, 4	1564 AP[1] . . .
1564 B2, 4	1564 BP . . .

1564 SERIES WEDGE UNITS

For Rack	30° Wedge	60° Wedge
1564 A2, 4	1564 AW30[1]_	1564 AW60[1]_
1564 B2, 4	1564 BW30_	1564 BW60_

[1]Specify color with 3 digit suffix from color chart.
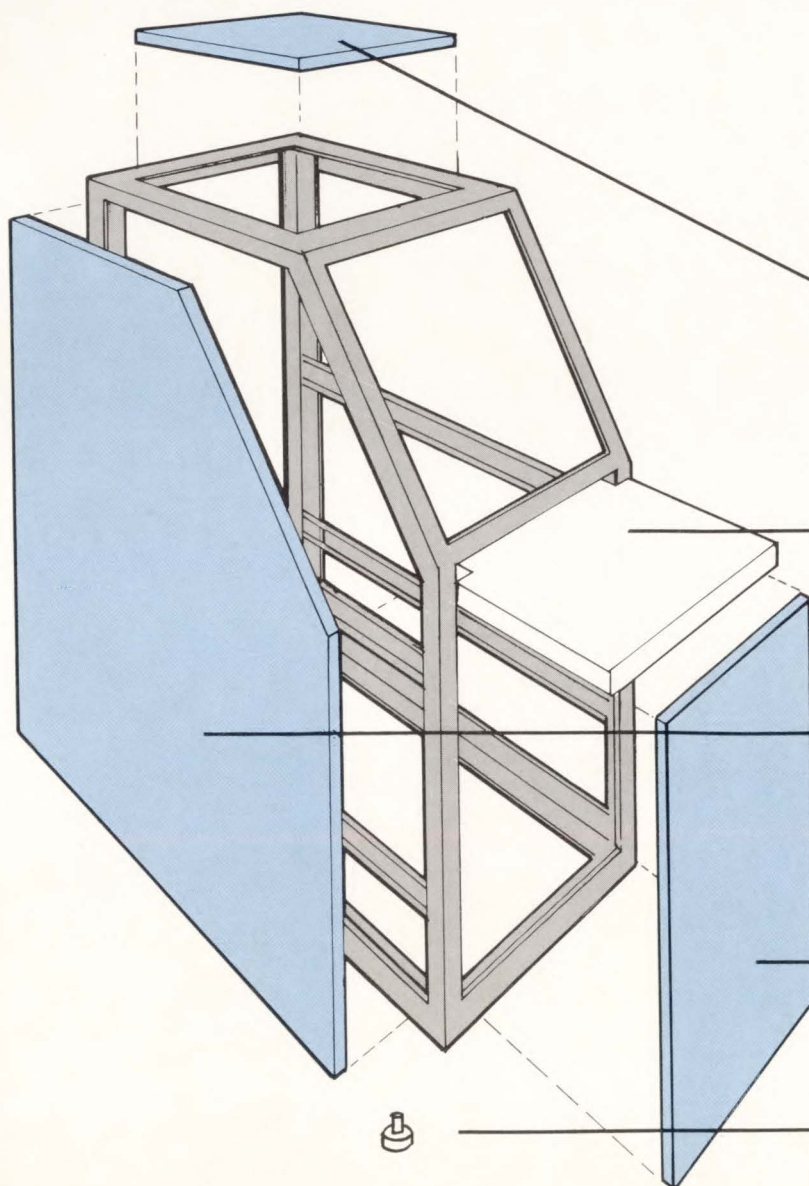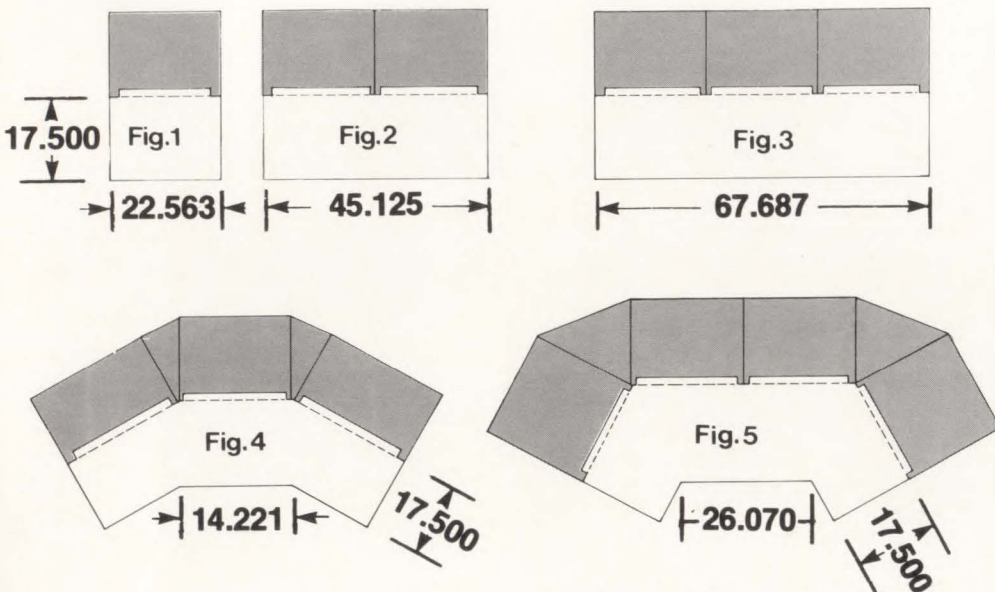
Rear doors use RSDF OR RSDL see page 13

Standard 19"or 24" raised panel see page 35

1564 & 1469 Rack mount desk see page 22

Pairs side dress panels see this page

Universal 19" or 24" panels see page 35

**Comes with 4 leveling feet. Optional castors available.** See page 44

HAMMOND MANUFACTURING™

Fig.1 — 17.500 — 22.563

Fig.2 — 45.125

Fig.3 — 67.687

Fig.4 — 14.221 — 17.500

Fig.5 — 26.070 — 17.500

Note Standard raised panels make ideal tops for 1564 consoles.

For Console	Order Panel
1564A2	PBRS 19 014 [1]
1564B2	PBRS 19 021 _
1564A4	PBRS 24 014 _
1564B4	PBRS 24 021 _

[1] Specific color with 3 digit suffix from color chart.

* **Note:** When maximum depth is used for equipment, Rack Mount desks have to be lowered to clear the equipment. On 24.5" rack desk is lowered 3.36". On 31.5" Rack desk is lowered 5.75". The open panel space may be filled with suitable panels (see page 35).
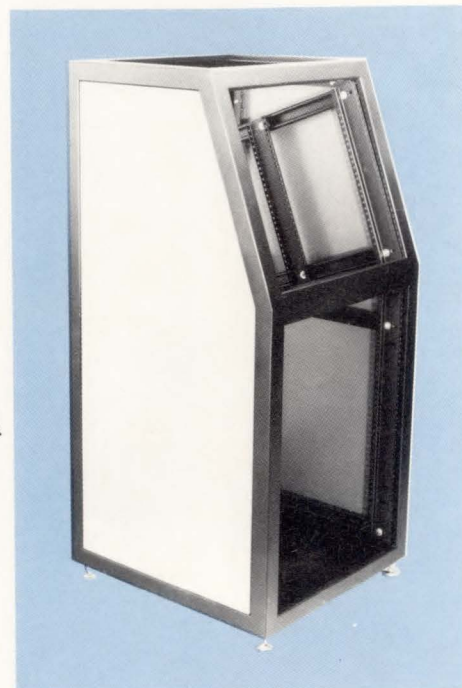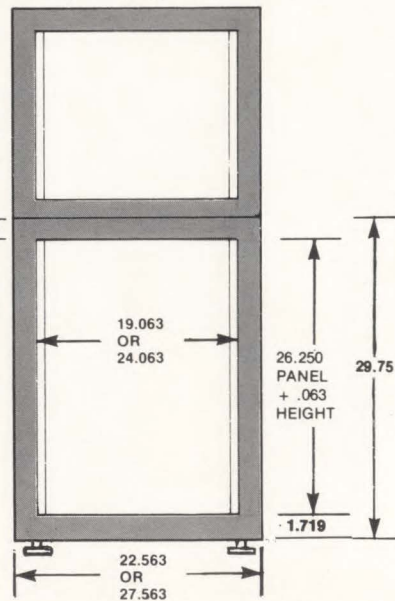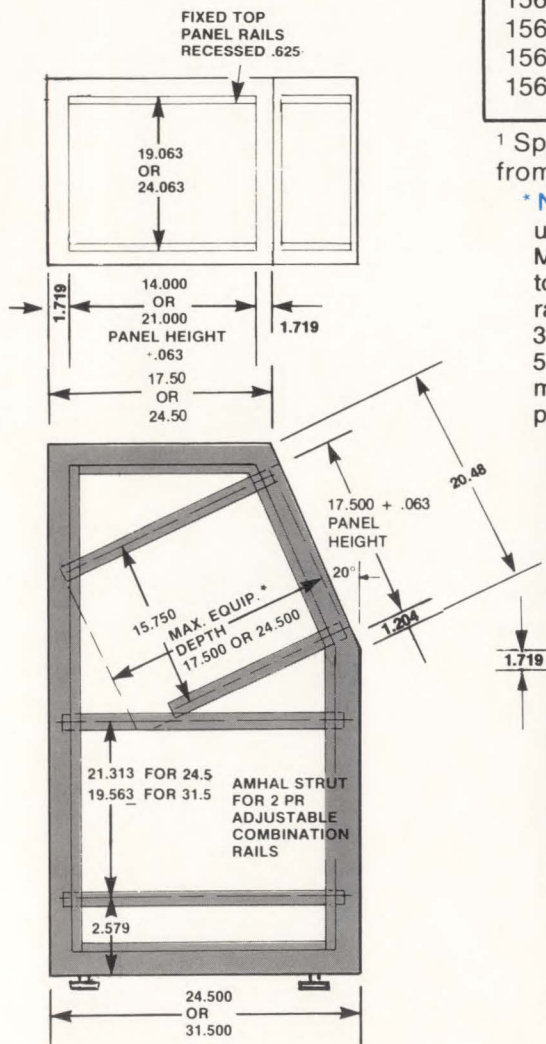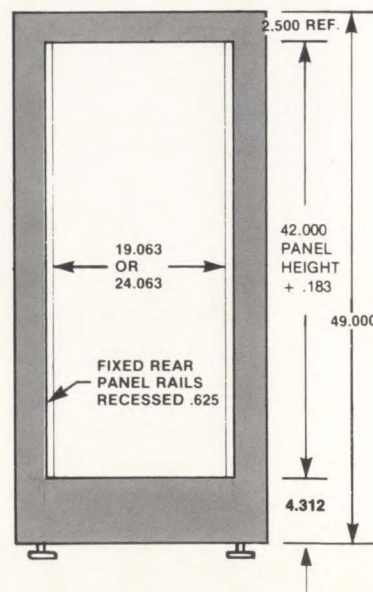
1564 & 1469 DESK UNITS

	FIG.	CAT. NO.
Single	1	1564 WD 19001 . . . [1]
Double	2	1564 WD 19002 . . .
Triple	3	1564 WD 19003 . . .

[1] Specify color from color chart.

1564 WEDGE UNIT DESKS

	FIG	CAT. NO.
30° for 3 consoles	4	1564 WD19 303 . . . [1]
60° for 4 consoles	5	1564 WD19 604 . . .

[1] Specify color from color chart.

FIXED TOP PANEL RAILS RECESSED .625

19.063 OR 24.063

14.000 OR 21.000 PANEL HEIGHT +.063

1.719

17.50 OR 24.50

17.500 + .063 PANEL HEIGHT

20.48

20°

1.204

15.750 MAX. EQUIP. DEPTH 17.500 OR 24.500

21.313 FOR 24.5
19.563 FOR 31.5

AMHAL STRUT FOR 2 PR ADJUSTABLE COMBINATION RAILS

2.579

24.500 OR 31.500

1.719

19.063 OR 24.063

26.250 PANEL +.063 HEIGHT

29.75

1.719

22.563 OR 27.563

2.500 REF.

19.063 OR 24.063

42.000 PANEL HEIGHT +.183

49.000

FIXED REAR PANEL RAILS RECESSED .625

4.312

**Data Terminal Workstation
System desks
Desk accessories**

HAMMOND
MANUFACTURING™

Data Terminal Workstations accessories
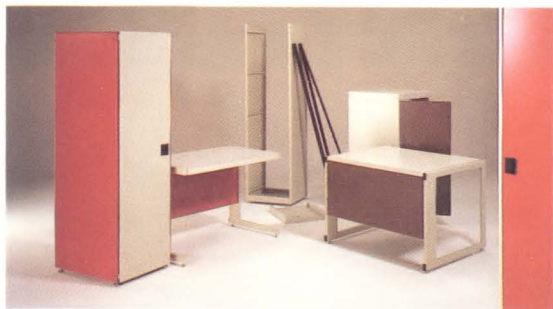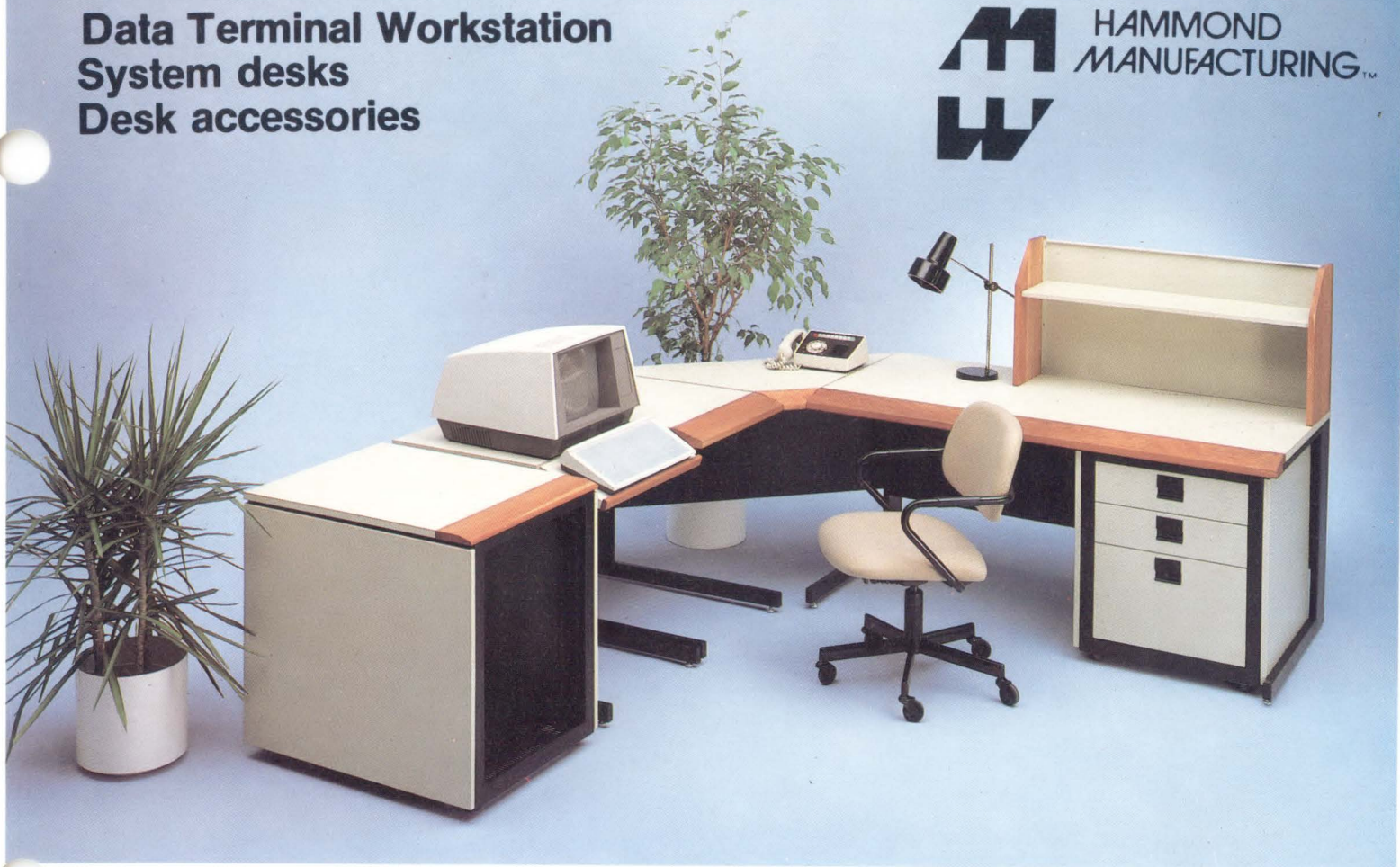
Hammond data terminal desks are ideal for the fast changing needs of modern computer room, communications, testing and word-processing centers. All units are fully modular and can be arranged in varying combinations to allow optimum use of work space.

Cantilevered leg design and cherrywood 'comfort-edge' desk top ensure operator comfort and efficiency.

Hardware mounting and storage is facilitated by the availability of several storage options: left-hand, right-hand and double pedestal desks provide built-in storage; roll-under or roll-beside cabinets provide convenient, moveable storage; and optional bookcase and floppy-disc cradle add more variety to the storage options.

Roll under/Roll beside cabinets

Roll under cabinet has metal top and is designed to roll under a DTOF desk. Comes with casters, vented back door and accessory rails. Black frame with removable sand colored side panels.

Roll beside cabinet has wood-laminate top and comfort-edge to match desk tops. Can be butted against standard desk for additional work surface or used on its own as a satellite storage unit. Comes with casters, accessory rails, vented back door, black frame with sand colored side panels.

Both cabinets will accept a wide range of optional drawers, chassis, slides or doors for a variety of equipment mounting or storage needs.
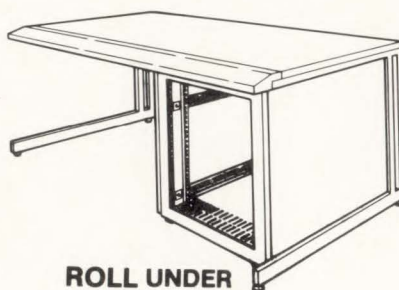
Data terminal open frame desk

Features cantilevered leg design and comfort-edge, wood-laminate desk top. Comes in 22" (558 mm), 42" (1067 mm) or 62" (1575 mm) desk widths. All desks are 31.5" (800 mm) deep. Comes with legs, leveling feet, modesty panels and comfort-edged top. Black and Sand only.
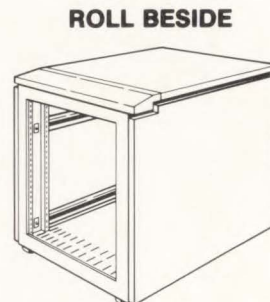
For complete details on these products, request Hammond Data Terminal Workstation Catalog 9DT-3.
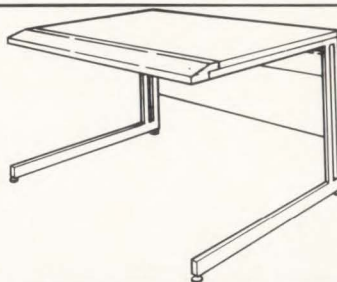
DATA TERMINAL HARDWARE ENCLOSURES

ROLL BESIDE

ROLL UNDER

Cat. No.	Height*	Width	Depth	Panel Height
Roll under DTRU SD1	27.00 in	24.00 in	24.50 ins.	22.75 in
	658 mm	609 mm	622mm	13 u
Roll beside DTRB2 SD1	29.50 in	24.00 in	31.50 ins.	22.75 in
	742 mm	609 mm	800 mm	13 u

OPEN FRAME DESK

Cat. No.	Height*	Width	Depth
DTOF 22BK1	29.25 ins.	22.213 ins.	31.50 ins.
	742 mm	564 mm	800 mm
DTOF 42BK1	29.25 ins.	42.275 ins.	31.50 ins.
	742 mm	1073 mm	800 mm
DTOF 62BK1	29.25 ins.	62.338 ins.	31.50 ins.
	742 mm	1583 mm	800 mm

*NOTE: Leveling feet add approx. 1.0" or 25.4 mm

Data Terminal Workstations and accessories

HAMMOND
MANUFACTURING..

Pedestal desks

Available with either left-hand, right-hand or double pedestal, (pedestal replaces cantilevered leg as desk support). Single pedestal desks are 47" (1194 mm) wide, double pedestal desks are 69" (1753 mm) wide. Complete with modesty panel, legs or pedestal, leveling feet and comfort edged top. Pedestals have vented sides, back and base. Black and Sand only.
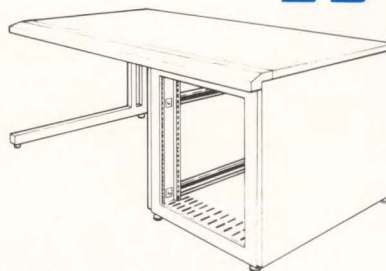
PEDESTAL DESKS

	Cat. No.	Height	Width	Depth
Left pedestal	DTLP 47BK1	**29.25 ins.** **742 mm**	47.50 ins. 1206 mm	31.50 ins. 800 mm
Right pedestal	DTRP 47BK1	**29.25 ins.** **742 mm**	47.50 ins. 1206 mm	31.50 ins. 800 mm
Double pedestal	DTDP 69BK1	**29.25 ins.** **742 mm**	69.00 ins. 1752 mm	31.50 ins. 800 mm

*NOTE: Leveling feet add approx. 1.0" or 25.4 mm
Panel heights are 22.75 ins. or 13 u

Wedge tops

Wedge tops enable modular arrangements of desk tops in angled positions. Wood-laminate finish matches desk tops. Easily assembled units come in 30°, 45°, 60° and 90° angles. Complete with assembly hardware.
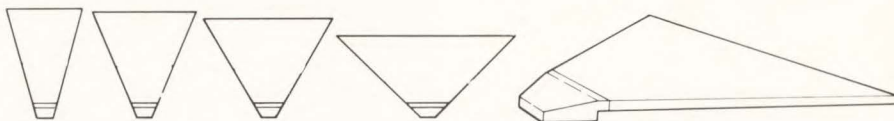
DATA TERMINAL WEDGE TOPS

Cat. No.	Wedge Angle	Cat. No.	Wedge Angle
DTWT 30	30°	DTWT 60	60°
DTWT 45	45°	DTWT 90	90°

Keyboard-tilt desk

This desk is adjustable to tilt the keyboard to optimum operator position. Crank operated 22" desk with matching wood-laminate top and cantilevered legs is available with left or right mounting crank. Comes with legs, modesty panel, leveling feet, Wood edged tilt-top. and crank. Black and sand only.
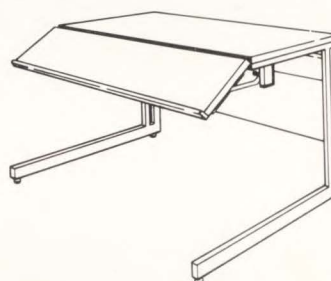
DATA TERMINAL KEY BOARD TILT

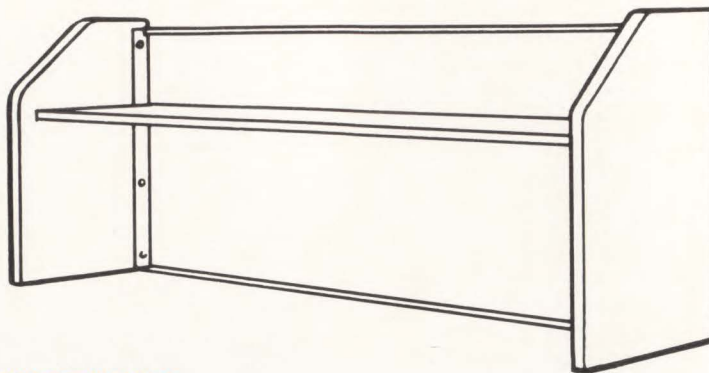|	Cat. No.	Height*	Width	Depth
Left hand mount	DTKT 22LHBK1	29.25 ins. 742 mm	22.213 ins. 564 mm	31.50 ins. 800 mm
Right hand mount	DTKT 22RHBK1	29.25 ins. 742 mm	22.213 ins. 564 mm	31.50 ins. 800 mm

Floppy disc cradle

This easily installed option screws to the bottom of desk and will house up to two floppy disc drives. Complete with mounting hardware. Comes in black only.

DATA TERMINAL FLOPPY DISC CRADLE

Cat. No.	Height	u	Width	Depth
DTFC BK1	10.50 ins. 266 mm	6	20.625 ins. 523 mm	23.50 ins. 596 mm

25

![Hammond Manufacturing logo]

HAMMOND MANUFACTURING™

Bookcase

This attractive option features solid wood sides and metal shelves in a baked enamel finish to match the desk tops. Bookcase is 40.5" (1029 mm) wide and will fit 42" (1067 mm), 62" (1575 mm) and 69" (1753 mm) double pedestal desk.

ACCESSORY BOOK CASE

Cat. No.	Height	Width	Depth
DTAB SD1	19.875 ins.	40.50 ins.	11.00 ins.
	504 mm	1028 mm	279 mm

Chairs

These comfortable, well designed, five-pronged base chairs add a finishing touch to the system.

DTSC	Steno Chair
DTCA	Optional Chair Arm

DTSC with optional arms

Desktop Accessories

A complete range of desktop liberators are available as options to the system. Please see our 9DT-3 Catalog for complete details.

The lamp is different from other light sources. It is designed so that the shade is always horizontal in every position. The combination of a newly developed light source with a high gloss anodized asymmetric reflector guarantees an outstanding, shadow free illumination. While the lamp provides illumination equivalent to a 75W light, it draws only 13.7W and the high tech design is an elegant final touch to your workstation.

Telephone carrier can be rotated 360° and guarantees a secure base when dialing. Letter Trays are easily installed and will rotate 360°. Available in 2 or 3 tray models. Replacement trays are available.

Plexi Doors

These attractive, black smoked plexi doors add a fine finishing touch to pedestal desks, roll under or roll beside cabinets. Door frames are black extruded aluminum and have locking latch.

DTPD 22	Complete door and hardware
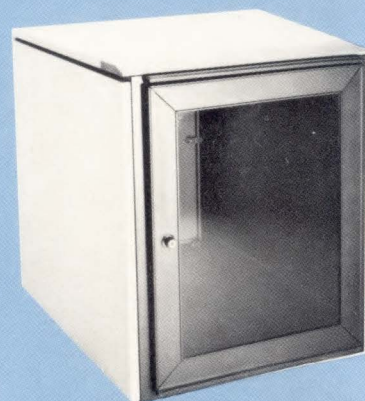
plexi door

System desks and Accessories

EQUIPMENT MOUNTING OPTIONS

Cradles are 19" rack mounting boxes suspended under desk tops. Each has permanent recessed panel rails, and accessory rails welded in place to accept all standard Hammond drawer slides. The open top and rear allow access when used with other desk accessories. Equipment cradles are available in 3' heights and 3' depths. The sides are spaced down approx. 3/4" to allow warm air to escape from equipment.

Wood and high pressure laminate tops — The extra strength 1-1/4" thick top can be easily cut to insert equipment.
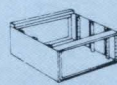
Rear channels

removable back panel covers a 5" deep x 17.5" high compartment which may be expanded by moving the inner panel forward.
The inner panel may also be mounted on the front legs to create a box the size of the desk.

(Limited availability)
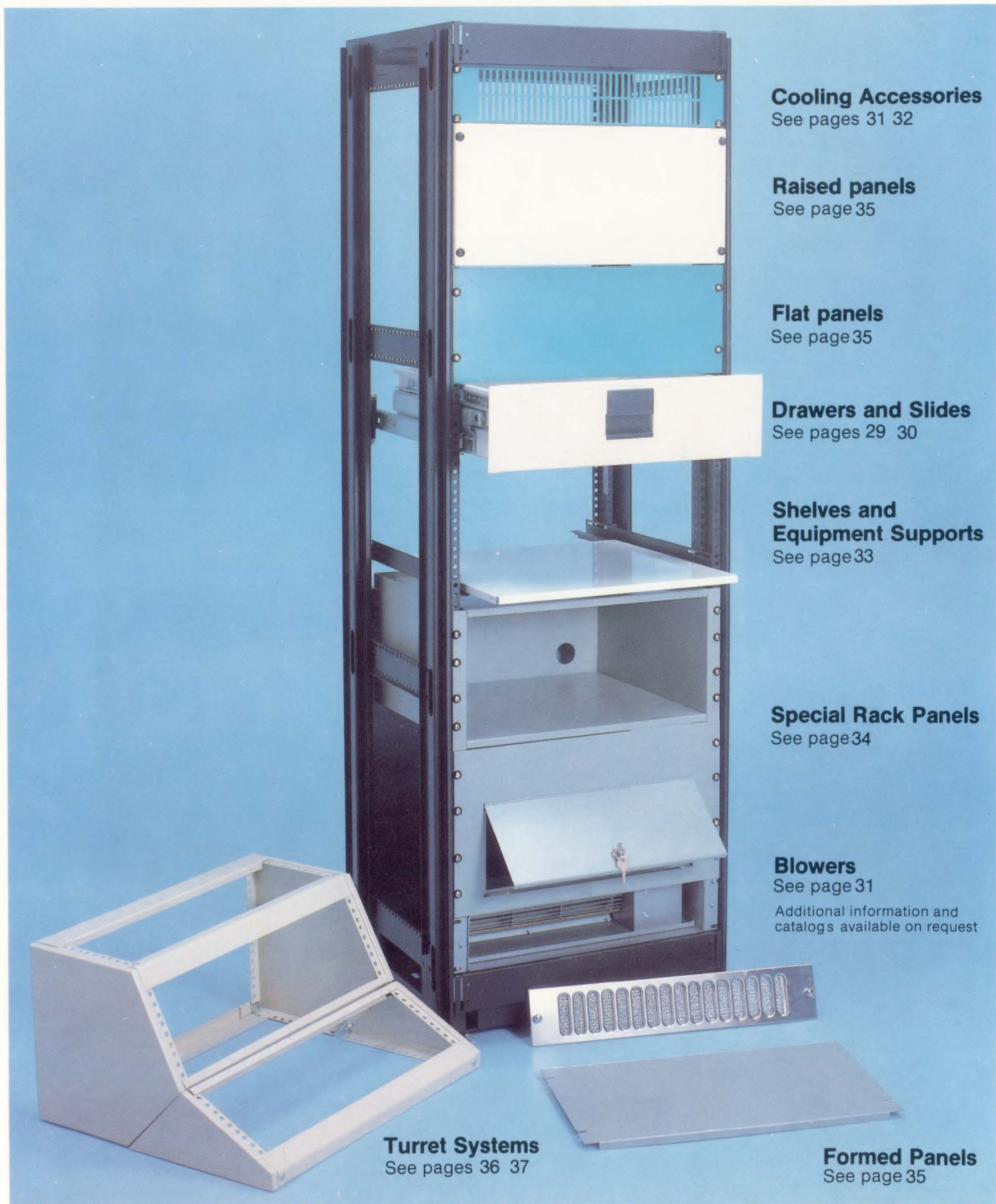
We are continuing to offer our modular "chroma" desk with limited availability. These desks will not be stocked, but will be available on 10-12 week delivery.

Front To Back Depth	Cut-Away Legs	Full Frame Legs	Modesty Panels	Wood/Laminate Tops	Metal Frame Tops
17.5	RDLC 00 ——— 17	RDLF 00 ——— 17		RDTW —— 000 17	RDFT —— 000 17
24.5	RDLC 00 ——— 24	RDLF 00 ——— 24	RDMS ——	RDTW —— 000 24	RDFT —— 000 24
31.5	RDLC 00 ——— 31	RDLF 00 ——— 31		RDTW —— 000 31	RDFT —— 000 31

Specify height in blank spaces 025 = 25.5" high 028 = 28.7" high Levelling feet add at least 0.7" to overall heights	Specify widths in blank spaces 20 = 20.1" wide 40 = 40.2" wide 60 = 60.3" wide Legs add approx. 2" to overall widths

Specify finish with a 3 digit suffix from the color chart .
Note: laminate tops only available in SD4 or WN4.

Front To Back Depth	Cradle Racks	Plain Side Panels (Single)
17.5	RDCS 19 ——— 12	RDSP 00 000 17
24.5	RDCS 19 ——— 16	RDSP 00 000 24
31.5	RDCS 19 ——— 22	RDSP 00 000 31
	Specify panel height in blank spaces 008 = 8.75" 010 = 10.5" 017 = 17.5"	Fits on right or left side. Used only with full frame legs.

Specify finish with a 3 digit suffix from the color chart

Wood laminate tops

Cradles

Modesty panels

Full frame legs
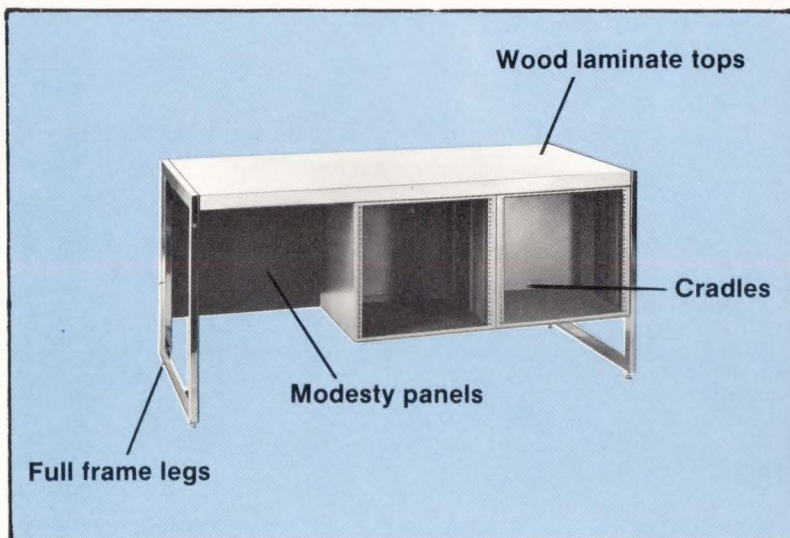
Cooling Accessories
See pages 31 32

Raised panels
See page 35

Flat panels
See page 35

Drawers and Slides
See pages 29 30

Shelves and Equipment Supports
See page 33

Special Rack Panels
See page 34

Blowers
See page 31

Additional information and catalogs available on request

Turret Systems
See pages 36 37

Formed Panels
See page 35

28

HAMMOND MANUFACTURING™

Ordering Guide 9R-3

ORDERING GUIDE

HAMMOND MANUFACTURING™

Ordering Guide.

This guide is designed to help users of this catalog, locate the parts required for each of our enclosure systems. It will also help the user avoid missing any necessary options that may be required.

To Use.

1) Locate the Rack or Data Terminal System in the left hand column under the heading Basic Component.

2) By following the shaded area to the right of the Basic Component, the Guide will lead you to all the major components and accessories you may require for the system. Catalog page numbers are provided to locate the part numbers in the catalog. Write the required components in the space provided below each component identification in the guide.

BASIC COMPONENT	SIDE PANELS	GANGING KITS	WEDGES 30° & 90°	RACK MOUNTED DESKS	TOPS	FULL HEIGHT DOORS	PANEL MTG. DOORS	COWLING	DRAWERS	CARD CHASSIS	BLOWER
RSFS FRAME PG. 5	RSSB or L PG. 10	RSAG PG. 8	RSFW PG. 8	RSAD PG. 9	RSTL RSTG PG. 11&12	RS... PG. 13	PG. 14	RSAC PG. 15	PG. 29	PG. 30	RAVB PG. 31
EXAMPLE RSFS 1904224BK3	RSSB 00424 0F1	—	—	—	RSTL 2100024 SD4	1 RSDF 19042 GF1	1 RSAC1914 RSCL19 1 RSAC1912 ALL GF1				RAVB 18003
REFK PG. 6&7	N/A	N/A	N/A	RSAD PG. 9	N/A	RS... PG. 13	PG. 14	N/A	PG. 29	RAVB PG. 30	PG. 31
1469 PG. 18	PG. 8 19	N/A	N/A	1564 PG. 22	N/A	PG. 19	PG. 14	N/A	PG. 29	PG. 30	PG. 31
1564 PG. 21	PG. 21	N/A	PG. 21	PG. 22	PG. 35	PG. 13	PG. 14	N/A	PG. 29	PG. 30	PG. 31
DATA FURNITURE PG. 24	N/A	N/A	PG. 25	PG. 9	N/A	DTPD PG. 26	PG. 14	N/A	PG. 29	PG. 30	PG. 31

N/A = NOT APPLICABLE TO SERIES
TO USE EFFECTIVELY INSERT REQUIRED PART # IN WHITE AREA BENEATH ITEM REQUIRED
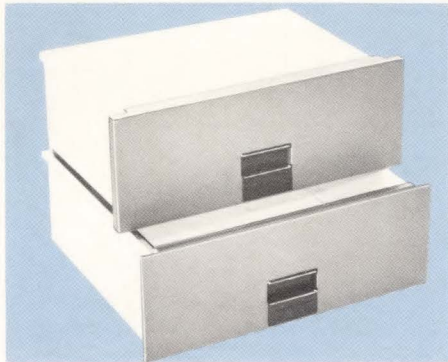* EXAMPLE OF 42" HIGH, 24" DEEP RSFS C/W DOORS SIDE PANELS TOP'S COWLING BLOWER IS SHOWN IN BLUE.

HAMMOND MANUFACTURING™

Example.

An example of a typical Component/Accessory order is provided in blue in the RSFS Rack system section.

Don't forget.

- Colors must be specified for most items. Add a 3 digit suffix from the color chart at the end of the item part number.
- Panel heights refer to the area of a rack filled by 19" panels, doors or other components. OVERALL HEIGHT will be GREATER than the panel height.
- When ordering side panels, be careful that you order panels of same depth as cabinet component ordered.

VENT PANELS	SHELF	EXTRA MTG. RAILS	SPECIAL PURPOSE PANELS	BLANK PANELS	TURRETS	MISC. HARD-WARE	TRIM KIT	CASTOR BASES	45° CORNER UNIT	DOLLIES	GRD. BUS.	RACK MTD. POWER BARS
PVSA PVSS **PVLK** PVBB PG. 32	PG. 33	RSRB RSRC RSRP PG. 33	PG. 34	PG. 35	RTSS PG. 36&37	PG. 44,45	N/A	RABC PG. 15	N/A	N/A	N/A	1584MK4 1585 PG. 34, 46.
—	—	—	—	—	—	—		—	—	—	—	—
PG. 32	PG. 33	PG. 33	PG. 34	PG. 35	PG. 36&37	PG. 44,45	RETK PG. 7	N/A	N/A	N/A	N/A	"
PG. 32	PG. 33	PG. 20	PG. 34	PG. 35	PG. 36&37	PG. 44,45	PG. 20	N/A	PG. 20	PG. 20	PG. 20	"
PG. 32	PG. 33	N/A	PG. 34	PG. 35	PG. 36&37	PG. 44,45	N/A	N/A	N/A	1424M PG. 20	N/A	"
PG. 32	PG. 33	N/A	PG. 34	PG. 35	PG 36&37	PG. 44,45	N/A	N/A	N/A	N/A	N/A	"

HAMMOND MANUFACTURING™

Storage drawers have gloss white interiors and interchangeable faces which may be painted your choice of colors.

Black handles match Hammond door handles and may be installed at the top or, by inverting the face, at the bottom.

Faces to match flat or raised panels are available.

SLIDE MOUNTING

Storage drawers come with smooth full-travel, ball bearing slides with a quick release drawer removal feature.

Slides mount on the accessory rails in such a way both front and rear, as to leave the panel rail completely free for mounting of other equipment or securing the drawer (as an alternate to the lock kit).

Extra slides are detailed on page 44 .
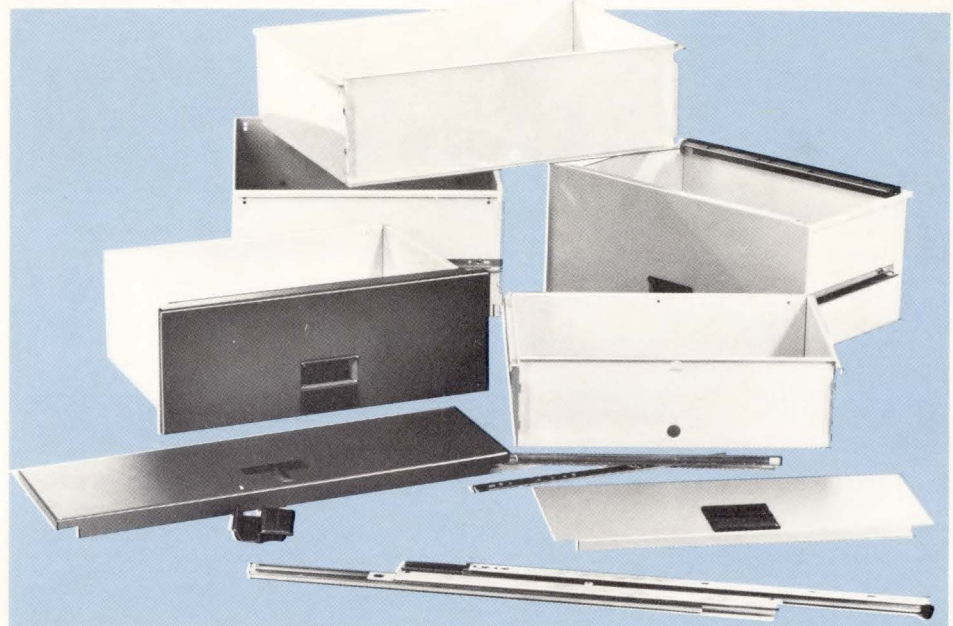
Panel Height u	in	Drawer Body	Flat Drawer Face	Raised Drawer Face
2	3.5	RDDS 19 003 —[1]— WH2	RDDF 19 003—[2]	RDDF 19 003 01—[2]
3	5.25	RDDS 19 005 —— WH2	RDDF 19 005——	RDDF 19 005 01——
4	7.0	RDDS 19 007 —— WH2	RDDF 19 007——	RDDF 19 007 01——
5	8.75	RDDS 19 008 —— WH2	RDDF 19 008——	RDDF 19 008 01——
6	10.5	RDDS 19 010 —— WH2	RDDF 19 010——	RDDF 19 010 01——
7	12.25	RDDS 19 012 —— WH2	RDDF 19 012——	RDDF 19 012 01——

[1] Specify depth in the blank spaces
12 = 11.3" inside
16 = 15.3" inside
22 = 21.3" inside

[2] Specify finish with a 3 digit suffix from the color chart (or see page 1). Applies to face only.

For 24" width drawers, substitute 24 in place of 19 in Cat. No.'s.
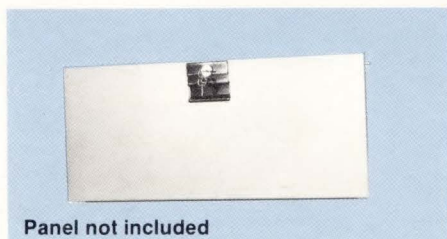
Panel not included

Locking Kits — a one point (behind the panel rail) lock rod. All hardware, including a replacement handle prepunched for lock is supplied.

Handle must be installed at the top when using locks.

Cat. No.	Face Type
RDDL 19	19" flat
RDDL 19 01	19" raised
RDDL 24	24" flat
RDDL 24 01	24" raised
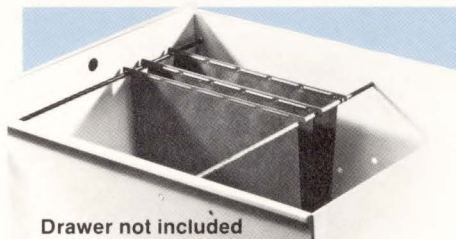
Drawer not included

Hanging File Kit — for models RDDS 19 012 16 WH2 and RDDS 19 012 22 WH2 only.

Rods clip into holes provided — 16" drawers take letter size, 22" drawers take letter or legal size files.
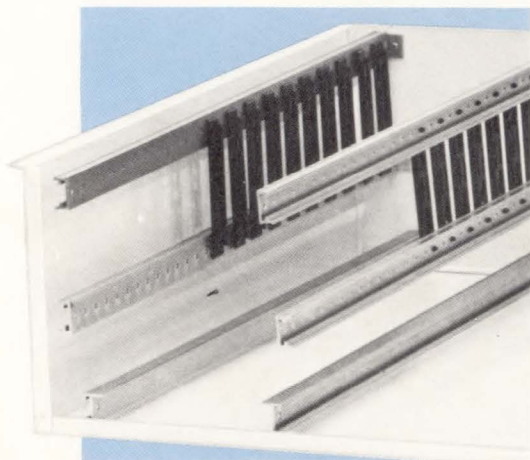
Cat. No. RDDH 19
For 19" widths only

Drawer not included

Lift-Up Writing Surface or Dust Cover — hinged approximately 1.5" from the rear of the drawer to allow opening beyond 90°. High pressure laminate matches sand (SD4) desk tops.

Cat. No.	For Drawer
RDDW 19 000 12 SD4	12" deep
RDDW 19 000 16 SD4	16" deep
RDDW 19 000 22 SD4	22" deep
For 19" widths only	

PROTOTYPING DRAWER

For proto type or custom applications we have provided an easily drilled soft aluminum box, which accepts moveable partitions in either direction or aluminum extrusions with Unitrack® p.c. card guides.

The 22″ long slides allow withdrawal up to 5″ beyond frame for easy access to the rear panel.

FINISH ..... Gloss White
PARTS   2 sides, all cross
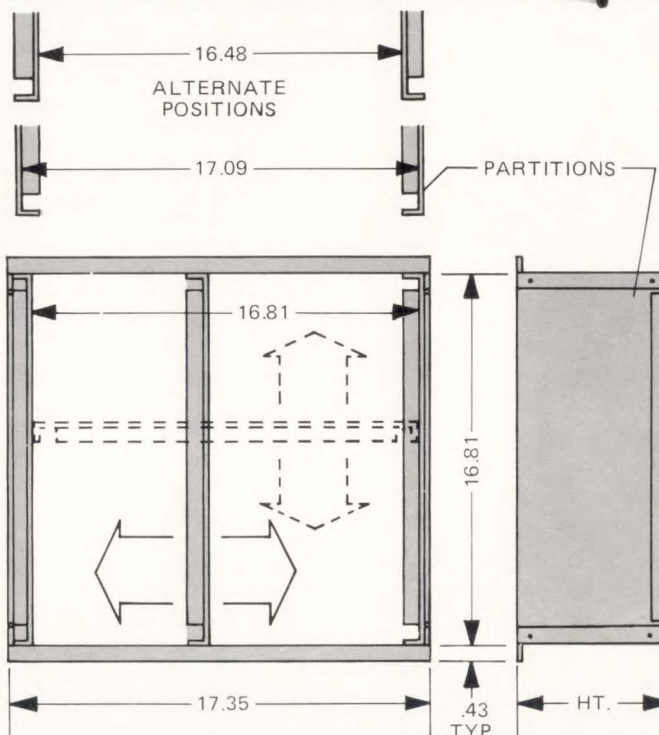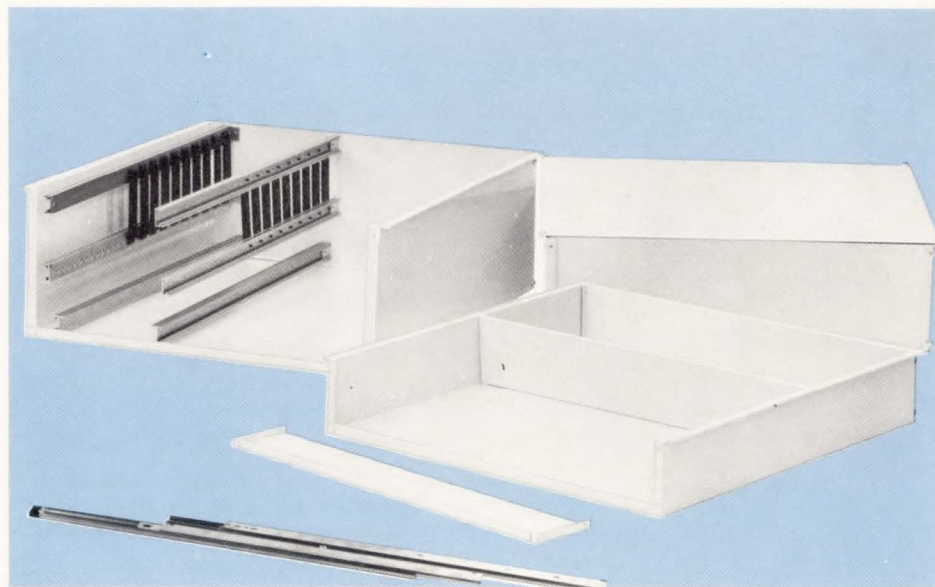**LIST** .... bars and necessary hardware plus ganging spacers.
MATERIAL ... .064 aluminum

DIMENSIONS see drawing
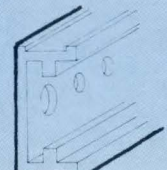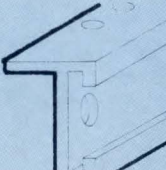
UNITRACK CARD GUIDES and EXTRUSIONS

Extrusions fit across the width of the chassis (see drawing) and can be turned to accept cards in any plane.

Guides snap into pre-drilled holes in the extrusions at 0.5″ centres. The connector rails will accept most card edge connectors at 0.5″ centres.

Card Guides (12 per pkg.)	
Cat. No.	Length
CGPP 21 41 12	4.1
CGPP 18 35 12	3.5
CGPP 27 25 12	2.5

16.48
ALTERNATE POSITIONS

17.09   PARTITIONS

16.81

16.81

17.35   .43 TYP.   HT.

Chassis Height	Chassis Cat. No.	Extra Partitions Cat. No.
3.0	RACC 19 003 WH2	RACP 19 003 WH2
4.75	RACC 19 005 WH2	RACP 19 005 WH2
6.5	RACC 19 007 WH2	RACP 19 007 WH2

	Guide Rails	Connector Rails
	CRHF 194	CRCF 192
	4 rails	2 rails
	8 brackets	4 brackets
	16 screws	8 screws

Blowers used in rack cabinets should be placed at the bottom to take advantage of convection currents.

Intake blowers have an advantage over exhaust in cooling efficiency and practicality. By pressurizing the cabinet with filtered air, dust is kept out and the greater turbulence created aids in the transfer of heat to the air.

Note: Additional blowers are detailed in our blower catalog. Available from factory or Hammond Sales Offices.

FEATURES

- Centrifugal blower wheels
- 3 wire line cord (without plug)
- Filter removable from the front
- Permanent washable filter
- Upward discharge at rear of unit except on sidewinders.

FINISH . . . . . . Blower assembly is grey, front panel is stainless steel.

PARTS LIST . . . . 1 blower assembly with filter, front panel and line cord

MATERIAL . . . Stainless steel front panel, aluminum mesh filter

DIMENSIONS see table

ELECTRICAL 115 V AC, 50/60 Hz

FILTER COAT

Provides a filter adhesive with a grease-like consistency which absorbs and traps dust particles.
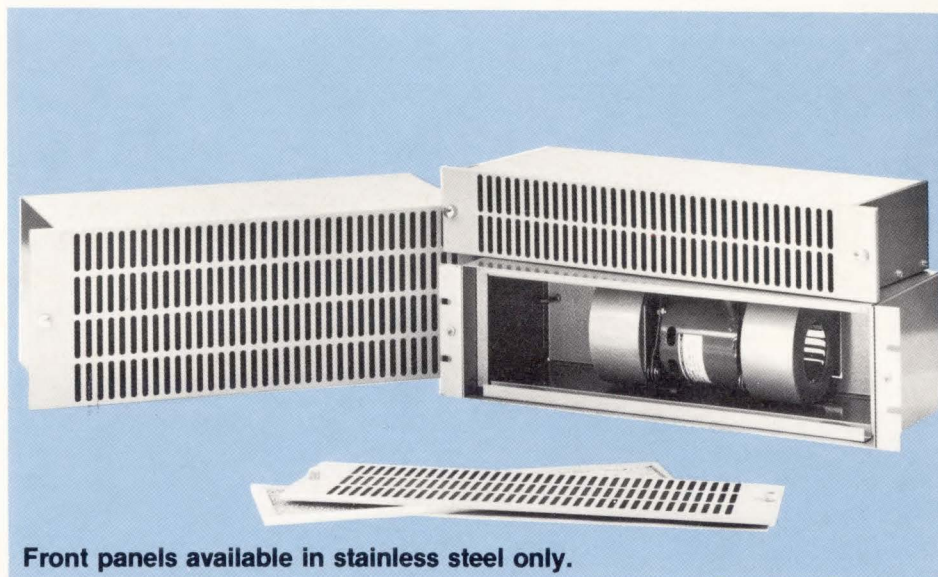
1475Q 1 pint spray can

QUANTITY OF AIR REQUIRED TO CARRY AWAY HEAT:

You must know the amount of dissipated heat to be removed and the temperature rise desired for the air. The equation relating the variables is $Q = MC_p (\Delta t)$, or the heat removed equals the weight of the air times the specific heat of the air times the temperature rise. If this equation is applied to air at room conditions on a rate basis, it reduces to:
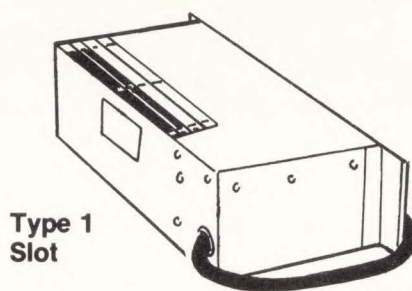
$$cfm = \frac{Btu/hr}{1.95 (\Delta t_C)} = \frac{1760 \; kw}{(\Delta t_C)}$$

for the cubic feet of air required per minute when the heat to be removed is known in Btu/hr or kilowatts and when the permitted average air temperature rise is known in Celcius degrees. In order
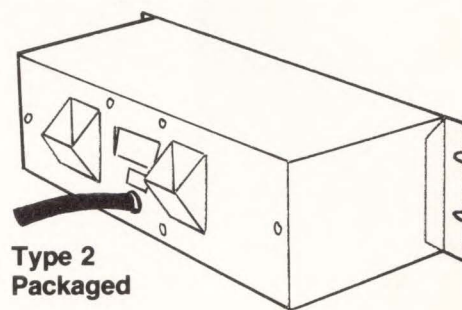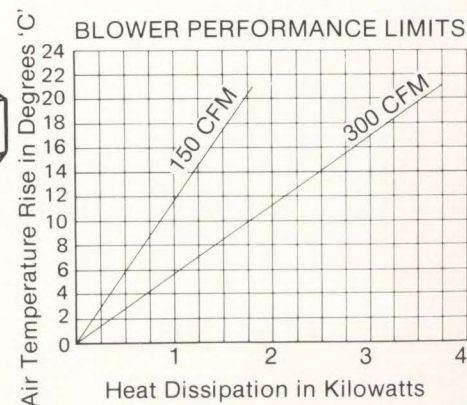
to insure adequate cooling in air pockets it is well to use about 25% excess air. A common design temperature rise is 10° C.

Front panels available in stainless steel only.

Type	Panel Height in	u	Cat. No.	Air CFM	Noise NC	Depth Into Rack	Extra Filters
1	3.5	2	RAVB 150 03	150	60	6.5	RAVF 03
2	5.25	3	RAVB 125 05	125	50	9.1	RAVF 05
2	5.25	3	RAVB 290 05	290	60	9.1	RAVF 05
2	7.0	4	RAVB 300 07	300	50	10.2	RAVF 07
3	3.5	2	RAVB 18003	Hi 180 / Lo 130	60 / 55	12	RAVF 03
3	5.25	3	RAVB 35005	Hi 350 / Lo 215	63 / 50	14.5	RAVF 05
3	7.0	4	RAVB 55007	Hi 550 / Lo 345	70 / 55	14.5	RAVF 07

Type 1 Slot

Type 2 Packaged
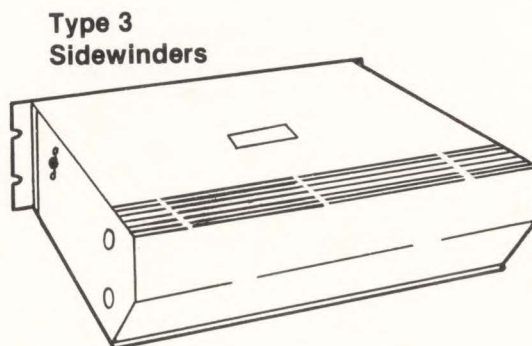
Type 3 Sidewinders

BLOWER PERFORMANCE LIMITS

Air Temperature Rise in Degrees 'C'

150 CFM   300 CFM

Heat Dissipation in Kilowatts
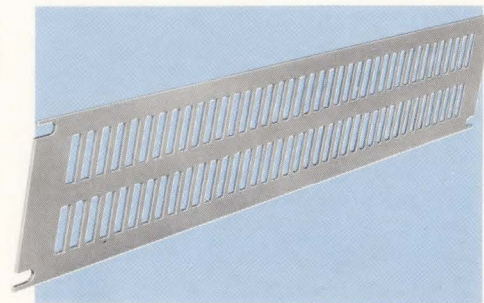
HAMMOND MANUFACTURING ™

SQUARE SLOT PANELS
- 14 ga. CRS or .125" aluminum.
- Slots are .25" x 1.0"
- 1.75" panels have 9.7 sq. in. of opening in 1 row.
- 3.5" panels have 19.4" sq. in. of opening in 2 rows.

| Panel Height		Cat. No.	Mat.
in	u		
1.75	1	PVSA 19 001	Alum.
3.5	2	PVSA 19 003	Alum.
1.75	1	PVSS 19 001	Steel
3.5	2	PVSS 19 003	Steel

Specify finish with a 3 digit suffix from the color chart.

ROUND SLOT PANELS
- Match the blowers on page 28.
- 16 ga. CRS formed panels.
- Slots are .23" x 1.5" on .65 centres, 36 per row.

| Panel Height		Cat. No.	Slots
in	u		
3.5	2	PVSS 19 003 01	2 rows
5.25	3	PVSS 19 005 01	3 rows

Specify finish with a 3 digit suffix from the color chart
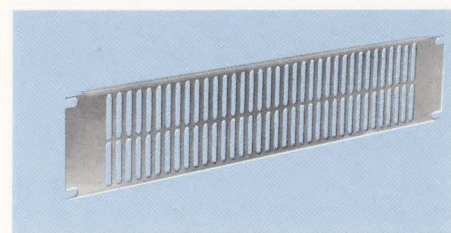
LOUVRED PANELS
- 16 ga. CRS formed panels.
- 3 rows of 4" wide louvres.
- All louvres face out except No. PVLK 19 005.

Panel Height		Cat. No.
in	u	
5.25	3	PVLK 19 005
5.25	3	PVLL 19 005
7.0	4	PVLL 19 007
8.75	5	PVLL 19 008
10.5	6	PVLL 19 010
12.25	7	PVLL 19 012
14.0	8	PVLK 19 014
21.0	12	PVLK 19 021
28.0	16	PVLK 19 028

Specify finish with a 3 digit suffix from the color chart
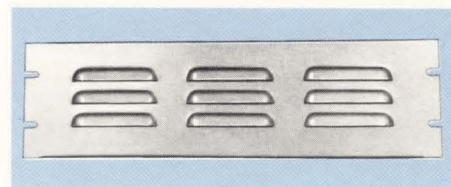
BAFFLED PANELS
- Rear sloping aluminum baffle for directing air flow has a bright natural finish on bottom for reflecting heat and dull black on top for absorbing heat.
- Extends approx. 14" behind panel rails.

Panel Height		Cat. No.
in	u	
1.75	1	PVBB 19 001
3.5	2	PVBB 19 003

Specify finish with a 3 digit suffix from the color chart

BAFFLES
- Fastens to accessory rails behind any standard panels to direct air flow towards the panel and protect components above from excessive heat.
- Has a bright natural aluminum finish on bottom for reflecting heat and dull black on top for absorbing heat.

Cat. No. PVBS 19 BK3

Extends approx. 14" behind panel rails.

Shelves and equipment supports

HAMMOND MANUFACTURING™

EQUIPMENT SHELF

A closed utility shelf with cord access holes 1.5″ dia. in each bottom corner.

MATERIAL ..... CR steel
18 ga. top and bottom
14 ga. sides

DIMENSIONS .. (Inside)
17.2″ wide
15.0″ deep
Height is 1.0″ less than panel space.

Panel Height	u	Cat. No.
8.75	5	RASE 19 008 15
10.5	6	RASE 19 010 15
12.25	7	RASE 19 012 15

Specify finish with a 3 digit suffix from the color chart
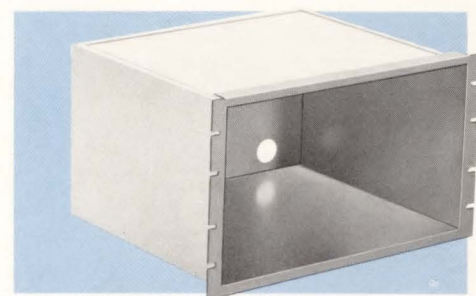
PULL-OUT CHASSIS/SHELF

Use as a permanently mounted support shelf between accessory rails or as a pull-out chassis. Will also accept 1.75″ H slides on page **44**

MATERIAL ... CR steel, 18 ga. shelf, 14 ga. brackets

DIMENSIONS (shelf) 16.8″ wide x .5″ high. See table for depth

The supports are slotted to allow 1.75″ adjustment in accessory rail position. Four holes in the shelf accept 10—32 bolts (supplied) or thumb screws (see page 43) for easy removal.

Cat. No.	Shelf Depth	Bracket Depth
RASC 1912 WH2	11.9	13.25
RASC 1916 WH2	15.9	17.25
RASC 1922 WH2	21.9	23.25

NOTE: RASC 1916 WH2 will not fit 17.500 deep rack unless mounted on RASS Drawer Slides.
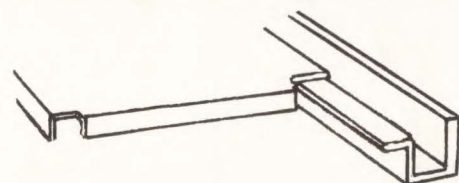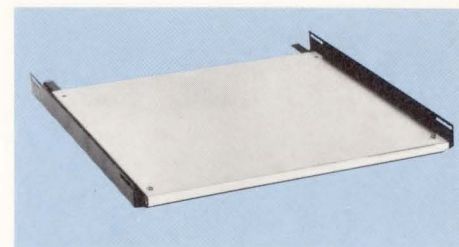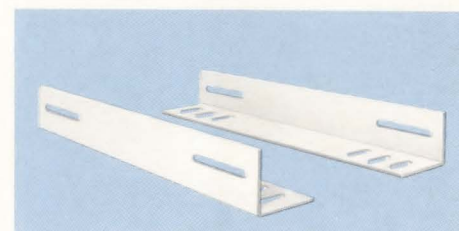

ADJUSTABLE SUPPORT ANGLES

Mount on accessory rails with either leg of angle used as support, depending upon requirements. Slots allow up-down or front back adjustments.

MATERIAL ... 14 ga. CRS
DIMENSIONS 1.75″ x 1.75″

Cat. No.	Length
RASA 12 WH2	9.97
RASA 16 WH2	16.28
RASA 22 WH2	22.28

ADJUSTABLE SUPPORT BAR

Fastens between accessory rails. Brackets can be located at 6 different heights within a 1.75″ panel space.

MATERIAL ... 16 ga. CRS
DIMENSIONS (channel) 1.1″ x 0.5″ x 17.8″

Cat. No. RASB 19 WH2

The cross channel can be fastened to the brackets or to your equipment (then it also maintains a front-to-back position).
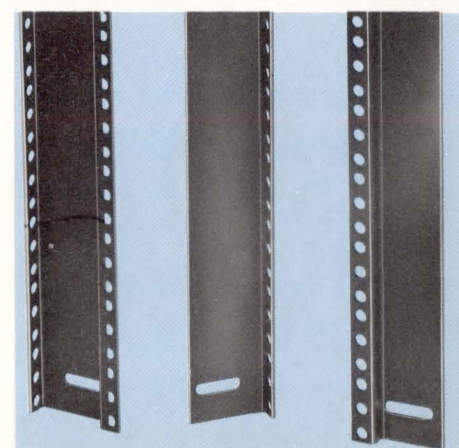

EXTRA MOUNTING RAILS

The combination rail is identical to those supplied with system or economy racks. All rails have full EIA panel mounting (.281″ DIA) for 1/4—20 bolts or 10—32 clip nuts. Each rail is adjustable in a 1.0 x .281″ slot.

MATERIAL ... 14 ga. CR steel

Specify type in the blank
C = combination A = accessory
P = panel

Height in	u	Cat. No.	Clip Nuts
17.5	10	RSR—00 017 BK3	
21.0	12	RSR—00 021 BK3	16
28.0	16	RSR—00 028 BK3	
35.0	20	RSR—00 035 BK3	
42.0	24	RSR—00 042 BK3	25
49.0	28	RSR—00 049 BK3	
56.0	32	RSR—00 056 BK3	
63.0	36	RSR—00 063 BK3	
70.0	40	RSR—00 070 BK3	40
77.0	44	RSR—00 077 BK3	
84.0	48	RSR—00 084 BK3	

Combination Rail Panel Rail Accessory Rail

Special purpose rack panels

POWER PANELS

- Rated for 15 Amps @ 125 Volts
- Contains 6 receptacles, a 15 Amp breaker, switch and pilot light.
- **Requires 1.75" (1u) panel height.**
- U-ground cord, plug and receptacles.
- Finished in ASA 61 grey.
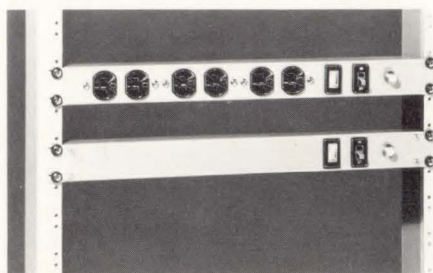
Panel Width	6' Cord Cat. No.	15' Cord Cat. No.
	Outlets on front	
19"	1582 H6A1	1582 H6B1
24"	1582 H6A2	1582 H6B2
	Outlets on rear	
19"	1583 H6A1	1583 H6B1
24"	1583 H6A2	1583 H6B2

ACCESS DOOR PANEL

- Use as is for equipment access or fasten a chassis on the 3.5" space provided below the door.
- 14 gal. steel door with a 1427 B lock.
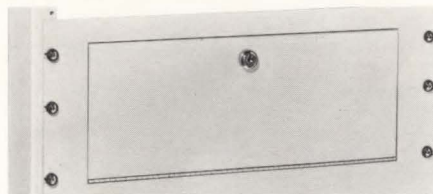
Cat. No.	Panel Height in	u	Door Size
5-1050 DS	10.5	6	6.0 x 15.0
Finish — ASA 61 grey only			

HINGED DOOR PANELS

- 14 ga. steel door with a 1427 B lock.
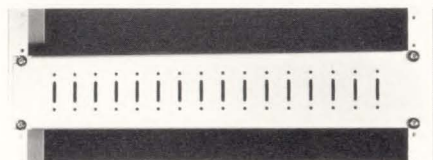- Opening is full panel height by 16.2" wide.

Panel Height in	u	Cat. No.
5.25	3	PHPF 19 005
8.75	5	PHPF 19 008
12.25	7	PHPF 19 012

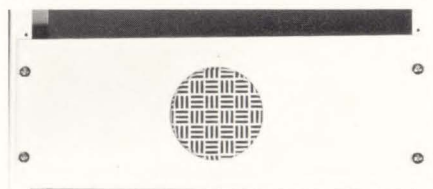Specify finish with a 3 digit suffix from the color chart

SWITCH PANEL

- 16 ga. formed steel panels, 3.5" high.
- 16 slots 1.0 x .156" at 1.0" centres. Switch mounting holes are .156" dia. at 1.625" centres.

Cat. No. 5-350 SW
Finish — ASA 61 grey only

SPEAKER PANELS

- 14 ga. steel panel with perforated steel grille over openings.
- Speakers are not included.

Cat. No.	Height in	u	Speaker Size
5-700 S	7.0	4	5"
5-1050 S	10.5	6	8"
Finish — ASA 61 grey only			

STEEL CHASSIS PANELS PLUS PANELS

- 16 ga. steel chassis is 17" wide by 3" deep.
- Special chassis punching to mount chassis to panel rails (screws supplied) and still allow panel mounting.
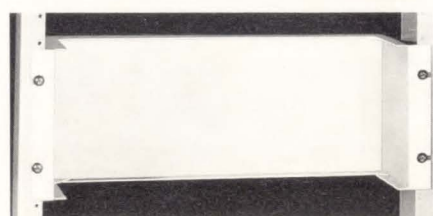
Finish — ASA 61 grey only

Cat. No.	Chassis Height	Panel Height in	u
5-350 D	3.1	3.5	2
5-525 D	4.9	5.25	3
5-700 D	6.6	7.0	4
5-875 D	8.4	8.75	5
5-1050 D	10.1	10.5	6
5-1225 D	11.9	12.25	7
5-1400 D	13.6	14.0	8

ALUMINUM CHASSIS PANELS

- .064" natural finish aluminum.
- Chassis measures 17" wide by 5.25" deep.

Cat. No.	Height u	in	Cat. No.	Height u	in
7-350D	2	3.5	7-1050 D	6	10.5
7-525 D	3	5.25	7-1225 D	7	12.25
7-700 D	4	7.0	7-1400 D	8	14.0
7-875 D	5	8.75			

HAMMOND MANUFACTURING™

FLAT STEEL OR ALUMINUM
Economical panels made from high quality cold rolled steel or aluminum.

FORMED STEEL
A .50" fold top and bottom adds strength without increasing the panel thickness.

RAISED STEEL
A .625" fold on four sides provides added strength so that only 4 mounting holes are required.

No. of Slots	Panel Height	u	Flat 14 Ga. Steel	Flat .125" Alum.	Formed 16 Ga. Steel
4	1.75	1	PBPS 19 001	PBPA 19 001	PBFS 19 001
	3.5	2	PBPS 19 003	PBPA 19 003	PBFS 19 003
	5.25	3	PBPS 19 005	PBPA 19 005	PBFS 19 005
	7.0	4	PBPS 19 007	PBPA 19 007	PBFS 19 007
	8.75	5	PBPS 19 008	PBPA 19 008	PBFS 19 008
8	10.5	6	PBPS 19 010	PBPA 19 010	PBFS 19 010
	12.25	7	PBPS 19 012	PBPA 19 012	PBFS 19 012
	14.0	8	PBPS 19 014	PBPA 19 014	PBFS 19 014
	15.75	9	PBPS 19 015	PBPA 19 015	PBFS 19 015
	17.5	10	PBPS 19 017	PBPA 19 017	PBFS 19 017
	19.25	11	PBPS 19 019	PBPA 19 019	PBFS 19 019
	21.0	12	PBPS 19 021	PBPA 19 021	PBFS 19 021
	22.75	13	PBPS 19 022	PBPA 19 022	PBFS 19 022
10	24.5	14	PBPS 19 024	PBPA 19 024	PBFS 19 024
	26.25	15	PBPS 19 026	PBPA 19 026	PBFS 19 026
12	28.0	16	PBPS 19 028	PBPA 19 028	PBFS 19 028
	29.75	17	PBPS 19 029	PBPA 19 029	PBFS 19 029
	31.5	18	PBPS 19 031	PBPA 19 031	PBFS 19 031

For 24" width panels substitute 24 for 19 in the cat. no. Aluminum panels, when ordered unfinished, are paper covered on one side.

Panel Height	u	RAISED 16 GA. STEEL
1.75	1	PBRS 19 001
3.5	2	PBRS 19 003
5.25	3	PBRS 19 005
7.0	4	PBRS 19 007
8.75	5	PBRS 19 008
10.5	6	PBRS 19 010
12.25	7	PBRS 19 012
14.0	8	PBRS 19 014
15.75	9	PBRS 19 015
17.5	10	PBRS 19 017
19.25	11	PBRS 19 019
21.0	12	PBRS 19 021
22.75	13	PBRS 19 022
24.5	14	PBRS 19 021
26.25	15	PBRS 19 022
28.0	16	PBRS 19 026
29.75	17	PBRS 19 026
31.5	18	PBRS 19 031
33.25	19	PBRS 19 033
35.0	20	PBRS 19 035
36.75	21	PBRS 19 036
38.5	22	PBRS 19 038
40.25	23	PBRS 19 040
42.0	24	PBRS 19 042

Specify finish with a 3 digit suffix from the color chart

PANEL WIDTH ADAPTORS
For adapting the flat 19" or 23" panels to 24" rack mounting. Screws (10—32) are not supplied.

| Panel Ht.	For .125" Al. 19" Widths	For 14 Ga. St. 19• Widths
1.75	PBAA 19 001	*PBAS 19 001
3.5	PBAA 19 003	*PBAS 19 003
5.25	PBAA 19 005	* PBAS 19 005
7.0	PBAA 19 007	*PBAS 19 007
8.75	PBAA 19 008	*PBAS 19 008
10.5	PBAA 19 010	PBAS 19 010
12.25	PBAA 19 012	PBAS 19 012
14.0	PBAA 19 014	PBAS 19 014

PANEL THICKNESS ADAPTORS
To raise the flat or formed panels (above) to the level of the raised panels, (.625"). Use 2 or more spacers per side for large panels. Finished in satin black.

Length	Cat. No.
1.75	PBAF 0175 BK3
3.5	PBAF 0350 BK3
5.25	PBAF 0525 BK3
7.0	PBAF 0700 BK3
8.75	PBAF 0875 BK3
10.50	PBAF 1050 BK3

WIDTH ADAPTOR

THICKNESS ADAPTOR   ADAPTOR
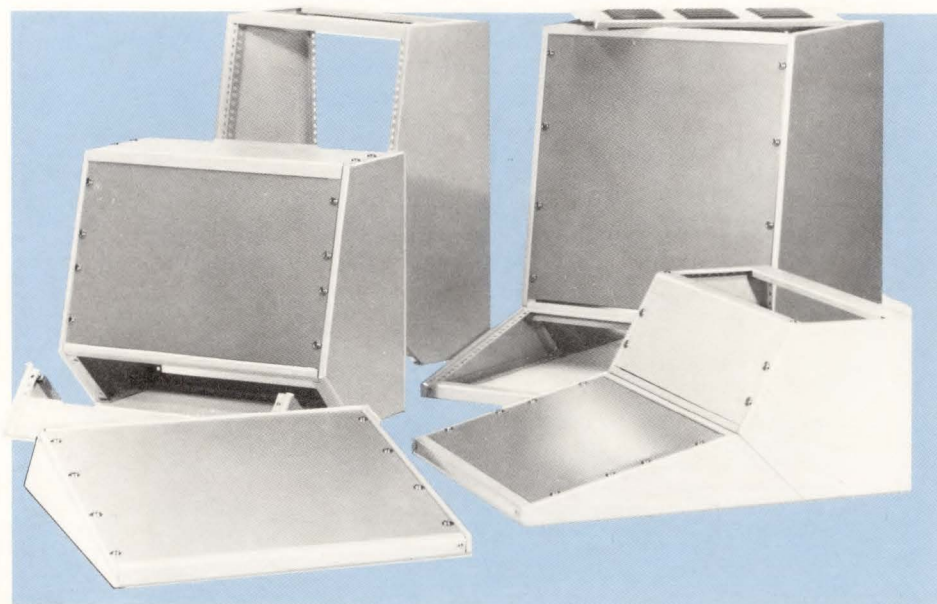
PANEL RAIL
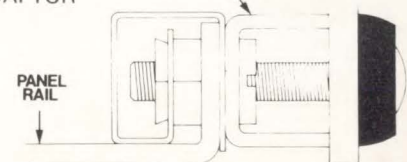
*23" to 24" adaptors in these heights only Substitute 23 for 19 in the cat. no. Specify finish with a 3 digit suffix from the color chart.

DESCRIPTION

Turrets are used with rack cabinets or desks to create inclined panel surfaces. Each turret has a 45° angle side which can be connected to any other turret to complete a console arrangement.

These wedge shaped sections are assembled from formed sides and cross bars to make 19" rack mounting turrets. Four basic angled sections are available, each in 3 box depths (an optional extension creates 3 additional depths).

All sides (except the ganging side) use standard 19" panels, either formed or flat — see page 35

PLANNING YOUR ARRANGEMENTS

Each turret can be arranged so that any side is "up". To calculate space required use the nominal sizes for the mounting side given in the table.

The extension box can be mounted onto the long side of any of the other wedges to create depths not available as one piece.

To ensure a useful arrangement, refer to the Human Factors data on page 57 .

FINISH	Choose from the color chart
PARTS LIST	2 sides, all cross bars and necessary hardware plus ganging spacers
MATERIAL ...	18 ga. CR steel sides, CR steel cross bars (except models noted in table which have a .125" alum panel/bar combination)

ORDERING

We have diagrammed some typical arrangements possible on desk and cabinet tops as well as rack cabinet faces. Some assemblies are suitable for standing operators and others for seated operators. Mounting heights may be adjusted accordingly.

We have selected one profile in each illustration to draw with a heavy line. This is only an example of one assembly that may be derived from the drawing. Note that raised panels have been used on the cabinet faces to fill the spaces between separated turrets.

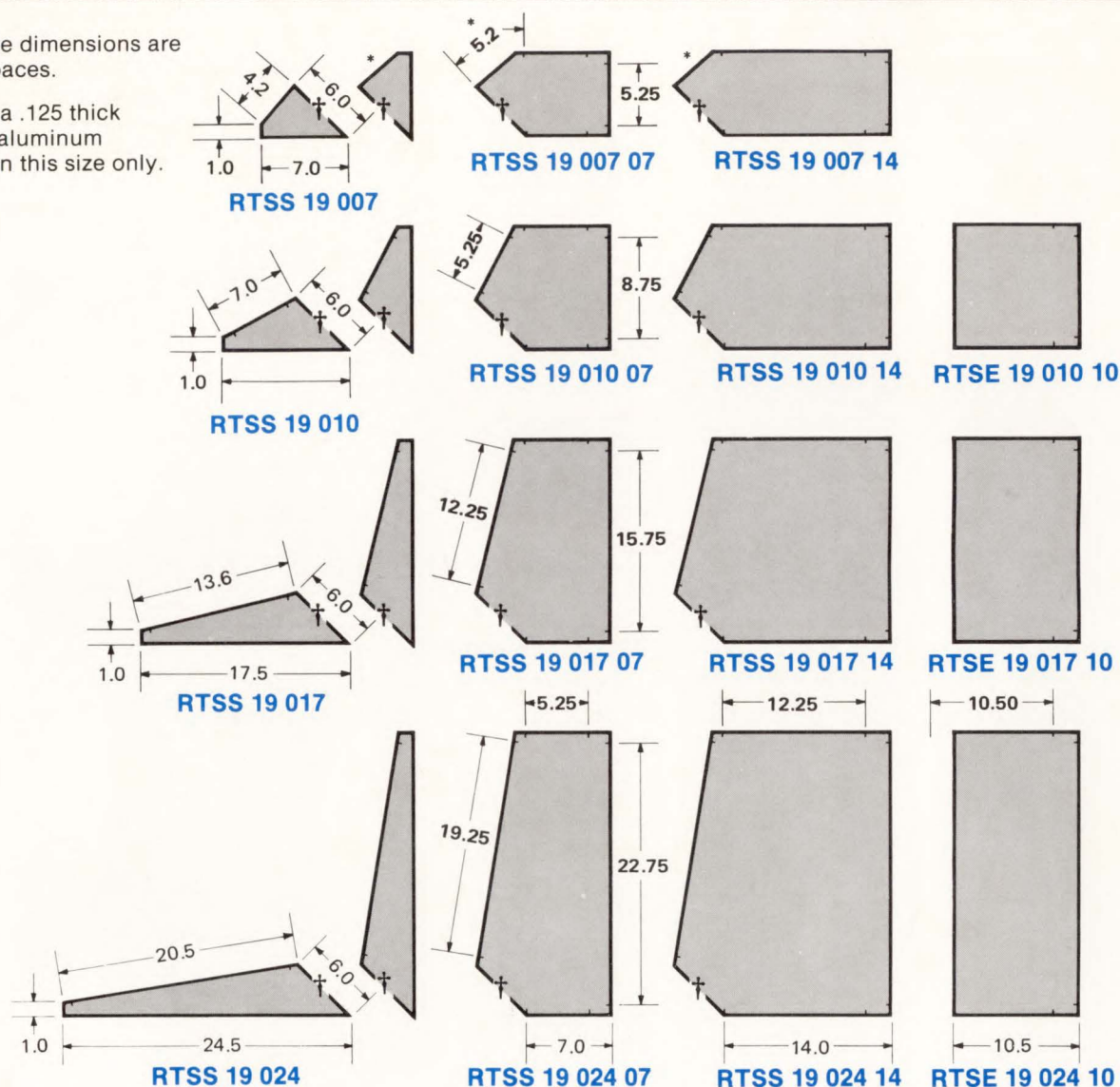**Typical Turret Uses**
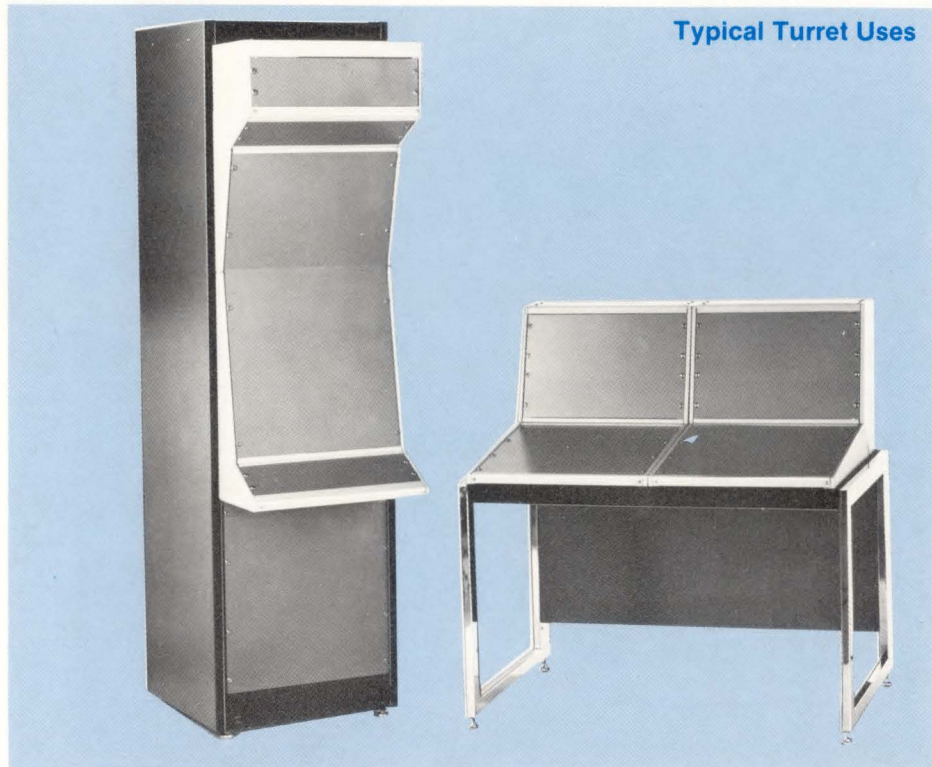
MOUNTING THE TURRETS

The overall width is 20.0", which allows side-by-side arrangements on desk tops and ganged system racks.

For assembly, panel rails must be fully forward, flush with the cabinet face. If flat or formed panels are to be used on the same rack, you may want to cut and recess the rails for them.

Ordering: L & R units come in pairs with necessary cross bars and hardware.

HAMMOND
MANUFACTURING™

Bold face dimensions are panel spaces.

*This is a .125 thick formed aluminum panel, on this size only.

RTSS 19 007

4.2 6.0 *

1.0 7.0

5.2 *

5.25

RTSS 19 007 07 **RTSS 19 007 14**

RTSS 19 010

7.0 6.0

1.0

5.25 8.75

RTSS 19 010 07 **RTSS 19 010 14** **RTSE 19 010 10**

RTSS 19 017

13.6 6.0

1.0 17.5

12.25 15.75

RTSS 19 017 07 **RTSS 19 017 14** **RTSE 19 017 10**

5.25 12.25 10.50

RTSS 19 024

20.5 6.0

1.0 24.5

19.25 22.75

7.0 14.0 10.5

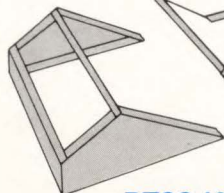**RTSS 19 024 07** **RTSS 19 024 14** **RTSE 19 024 10**

† A special panel for this surface is available when not used for ganging Cat. No. RTSP 19. Specify finish with a 3 digit suffix from the color chart .
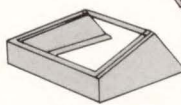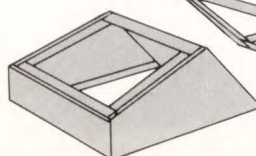
Typical Arrangements

RTSS 19 017 07
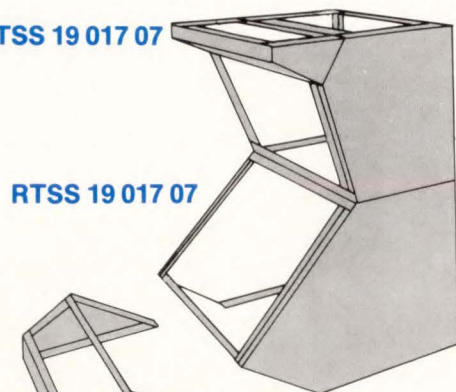
Inverted
RTSS 19 007

RTSS 19 007 14
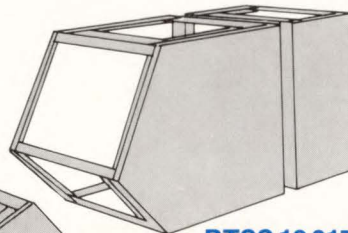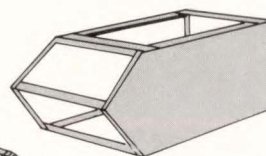
RTSS 19 017 07

RTSS 19 017

RTSS 19 007

RTSS 19 010

RTSS 19 007

RTSS 19 017 14

RTSS 19 024

ACRM
Rackmount Consoles Pg. 39.

RCBS Table Top Rack Pg. 40.

RCHS
Table Top
Rack
Pg. 40.

ACDT
Desktop Consoles Pg. 39
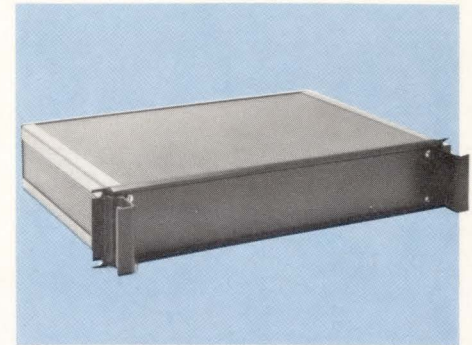
Rack cases

HAMMOND MANUFACTURING™

This new addition to the Hammond family of quality enclosures brings an added dimension to rack and desktop cabinets. We have developed two rugged, all aluminum case styles to suit the needs of todays smaller, lighter electronic designs. Designers will find these attractive new cases ideally suited for prototyping or use in O.E.M. instrumentation, metering, monitoring, communications and other applications.

DESKTOP CASES

This Desktop case is styled for portable, desktop equipment. These units feature extra sturdy, side mounted diecast carry handles and diecast mounting feet with flip-down front feet that allow user to tilt the case to the optimum viewing angle. The case will stack for multiple instrument functions. Stocked in GF1 or SD1 **Available in all standard colors on special order.**

RACK MOUNT

The Rack mounting case is styled for mounting in standard 19". EIA hole spaced racks. Comes with panels.

These cases have sturdy extruded front-mounting carry handles and come in sized to fit standard U panel spaces. Stocked in GF1 and SD1 available in all standard colors.

COLORS

Both ACDT and ACRM styles come in a choice of two color combinations:

Specify SD1 for: Black textured frame, Sand semi-gloss front and rear panels, Sand textured body panels.*

Specify GF1 for: Black textured frame, Black semi-gloss front and rear panels, Gulf blue textured body panels.*

*Note: Rack mount units have ventilated body panels, Desktop units have solid body panels.

Cases come completely assembled.

DESKTOP ACDT

RACK MOUNT ACRM

Desktop Part No.	Panel height			Overall height		Depth	
	u	mm	in	mm	in	mm	in
ACDT 1900317*_	2	89	3.5	105	4.125	445	17.5
ACDT 1900717 _	4	178	7.0	194	7.625	445	17.5
ACDT 1900724 _	4	178	7.0	194	7.625	622	24.5
ACDT 1901024 _	6	267	10.5	283	11.125	622	24.5
ACDT 1901031 _	6	267	10.5	283	11.125	800	31.5
ACDT 1901424 _	8	356	14.0	371	14.625	622	24.5
ACDT 1901431 _	8	356	14.0	371	14.625	800	31.5
ACDT 1901724 _	10	445	17.5	460	18.125	622	24.5
ACDT 1901731 _	10	445	17.5	460	18.125	800	31.5

*Specify color with 3 digit suffix GF1 or SD1.

| Rack Mount Part No.	Panel height			Overall height		Depth	
	u	mm	in	mm	in	mm	in
ACRM 1900313*_	2	89	3.5	88	3.468	330	13.0
ACRM 1900317 _	2	89	3.5	88	3.468	432	17.0
ACRM 1900323 _	2	89	3.5	88	3.468	584	23.0
ACRM 1900713 _	4	178	7.0	177	6.968	330	13.0
ACRM 1900717 _	4	178	7.0	177	6.968	432	17.0
ACRM 1900723 _	4	178	7.0	177	6.968	584	23.0
ACRM 1901013 _	6	267	10.5	266	10.468	330	13.0
ACRM 1901017 _	6	267	10.5	266	10.468	432	17.0
ACRM 1901023 _	6	267	10.5	266	10.468	584	23.0

*Specify color with 3 digit suffix GF1 or SD1.

RACK MOUNT DIMENSIONS

Front View
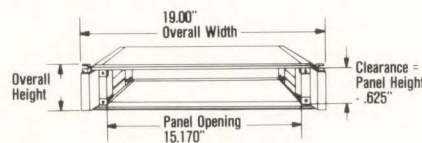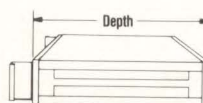
Side View

DESKTOP DIMENSIONS

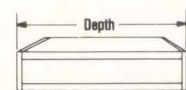Front View

Side View

HAMMOND MANUFACTURING™
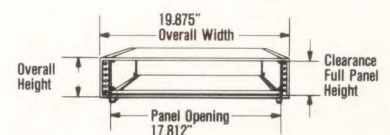
TABLE TOP RACKS AND ACCESSORIES

RCBS racks have fixed panel rails only. Recessed 0.3" front and rear with full EIA spaced .281" dia. holes for ¼-20 bolts or 10-32 clip nuts. Racks have integral side lifting handles and raised bottom with rubber mounting feet. Stocked in GY2 grey, available in all standard colors. RCHS racks have fixed panel rails recessed 0.3" on front and rear. Also fixed accessory rails positioned to accept drawer slides and other accessories. Both have full EIA spacing of .281" dia holes which accept ¼-20 bolts or 10-32 clip nuts. Racks have base stiffeners and support dimples. Stocked in Charcoal grey or gulf blue. Available in all standard colors.

Panel in.	Space U	17.5 Depth Cat. No.	24.5 Depth Cat. No.	No. of Clip Nuts
8.75	5	RCHS 19 008 17__		8
10.5	6	RCHS 19 010 17__	RCHS 19 010 24__	16
14.0	8	RCHS 19 014 17__	RCHS 19 014 24__	16
17.5	10	RCHS 19 017 17__	RCHS 19 017 24__	16
22.75	13	RCHS 19 022 17__	RCHS 19 022 24__	16
28.0	16	RCHS 19 028 17__	RCHS 19 028 24__	16

Note: Heights and widths are 2.0" larger than panel space

| Panel in.	Space U	13.0 Depth Cat. No.	17.5 Depth Cat. No.	No. of Clip Nuts
3.5	2	RCBS 19 003 13__		
5.25	3	RCBS 19 005 13__	RCBS 19 005 17__	
7.0	4	RCBS 19 007 13__	RCBS 19 007 17__	8
8.75	5	RCBS 19 008 13__	RCBS 19 008 17__	
10.5	6	RCBS 19 010 13__	RCBS 19 010 17__	
12.25	7	RCBS 19 012 13__	RCBS 19 012 17__	16
14.0	8	RCBS 19 014 13__	RCBS 19 014 17__	

*Specify color with 3 digit suffix from color chart
Note: Heights and widths are 1.0" larger than panel space.

RABT Tilt Base is designed to be used on the desk tops or on top of racks to position case rack at optimum viewing angle. Will fit both RCHS and RCBS racks. Available in black only.

RABT 19 13 BK3 for 13.0" deep cases
RABT 19 17 BK3 for 17.5" deep cases

RABT Tilt Base
Rack not included

Panel Screw Covers stainless steel screw cover strips are available for both the RCHS and RCBS to provide an attractive finish trim.

1421 Q3	3.5	1421 Q14	14.0
1421 Q5	5.25	1421 Q17	17.5
1421 Q7	7.0	1421 Q21	21.0
1421 Q8	8.75	1421 Q22	22.75
1421 Q10	10.5	1421 Q28	28.0
1421 Q12	12.25		

RABT	1421 panel screw covers

Panel Screw Covers
Rack not included

RCHS

RCBS
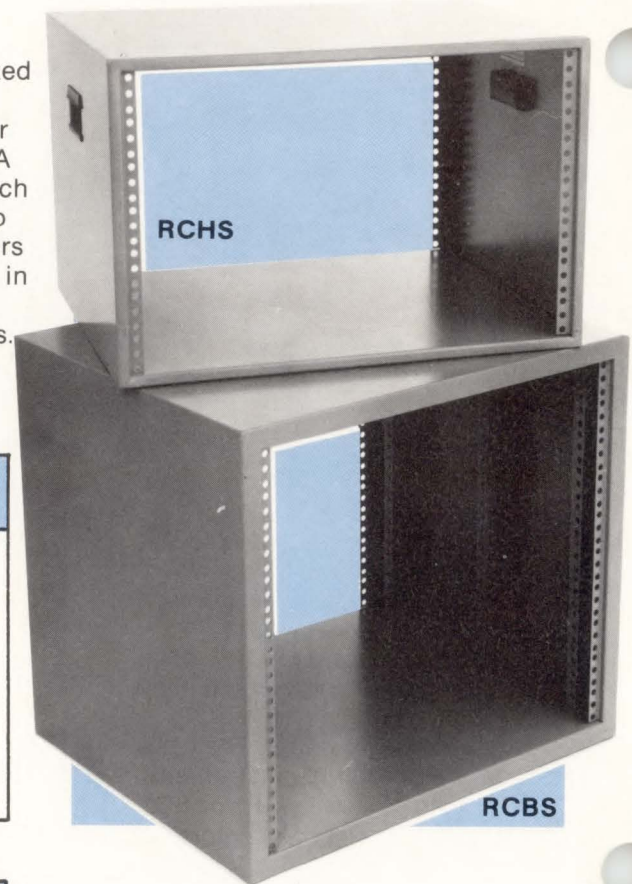
Wallmounting racks
Relay racks

WMAC Series Swingout Wall Cabinets. These are all welded steel cabinets with hinged rear door. This allows the whole cabinet to be swung out 90° from the wall giving access to internal wiring. Rack comes complete with rear door (provided with conduit knockouts), locking front door and internal louvres. Standard 19" panel rails are punched .281 on standard EIA spacing to accept clipnuts and 10-32 screws Stocked BK2 only.

Available in all standard colors on special order.

Panel Space		Catalog	Qty of clipnuts
in	U	number *	
17.5	10	WMAC 17 BK2	16
21.0	12	WMAC 21 BK2	32
26.25	15	WMAC 26 BK2	32
28.0	16	WMAC 28 BK2	32
42	24	WMAC 42 BK2	50
61.25	35	WMAC 61 BK2	80

WMAC

OPEN WALL OR TABLE RACKS

- Economical open modular rack for 19" panels, suitable for wall or table mounting.
- Three .5-.75" conduit knock-outs top and bottom rear for cable entrance.
- Rear has key holes for ease of wall mounting.
- Open top, bottom, sides and rear for equipment access.
- All welded 16 gauge formed steel, finished in standard ASA 61 baked grey enamel.
- Sold with top and bottom cover panels installed.
- Four screw-on rubber feet for table mounting when required.
- Cabinet comes pre-drilled for flat side panels, available in pairs as an option.

1459

Racks					Side Panels (Pairs)	
Panel Space			Overall	Wt.		Wt.
in	u	Cat. No.	Height	Lb.	Cat. No.	Lb.
22.75	13	1459 F	24.7	25	1459 FQ	15
33.25	19	1459 J	35.2	30	1459 JQ	20
47.25	27	1459 M	49.2	35	1459 MQ	30

TABLE RELAY RACKS

- Welded, formed 18 ga. steel construction for desk or bench mounting.
- Deep bases with four rubber feet provide maximum stability.
- Standard finish is ASA 61 grey baked enamel.
- Rails are punched with 0.281" holes to accept 1/4-20 bolts or 10-32 clip nuts.
- For 19" panels.

1465

Panel		Cat.	Overall	Wt.
in	u	No.	Height	Lb.
21.0	12	1465 B	23.0	13
28.0	16	1465 C	30.0	17
35.0	20	1465 E	37.0	23
42.0	24	1465 G	44.0	30

4 clip nuts are supplied for each 7" of panel height.

HAMMOND MANUFACTURING™

1466 — 1476 SERIES
Common Features
- A heavy duty rack in 2 types, both with 4" x 6" x .37" welded angle iron bases. With mounting holes .75" dia.
- Standard finish is ASA 61 grey baked enamel.
- Mounting rails drilled and tapped 10-32 to EIA .5 - 1.25 spacings.

1466 Series
- Formed from 10 ga. CR steel into channels 3.0" x 1.4".
- For 19" panels.

1466 C Series
- Constructed from rolled channel iron, 4.1 lb./ft.
- Channel is 3.0" x 1.4".
- For 19" panels.

1476 Series
- Formed from 10 ga. CR steel into channels 3.0" x 1.4".
- For 23" panels (telephone standard).

| Panel Height		Cat.	Overall	Wt.
in	u	No.	Height	Lb.
19" Panels, formed steel				
63.0	36	1466 D	69.1	77.0
70.0	40	1466 F	76.1	80.0
77.0	44	1466 H	83.1	82.0
84.0	48	1466 K	90.1	87.0
101.5	58	1466 M	107.6	91.0
131.25	75	1466 P	137.3	100.0
19" Panels, channel iron				
63.0	36	1466 CD	69.1	95.0
70.0	40	1466 CF	76.1	100.0
77.0	44	1466 CH	83.1	105.0
84.0	48	1466 CK	90.1	110.0
101.5	58	1466 CM	107.6	120.0
131.25	75	1466 CP	137.3	140.0
23" Panels, formed steel				
70.0	40	1476 F	76.1	110.0
77.0	44	1476 H	83.1	115.0
84.0	48	1476 K	90.1	120.0
101.5	58	1476 M	107.6	130.0
131.25	75	1476 P	137.3	150.0
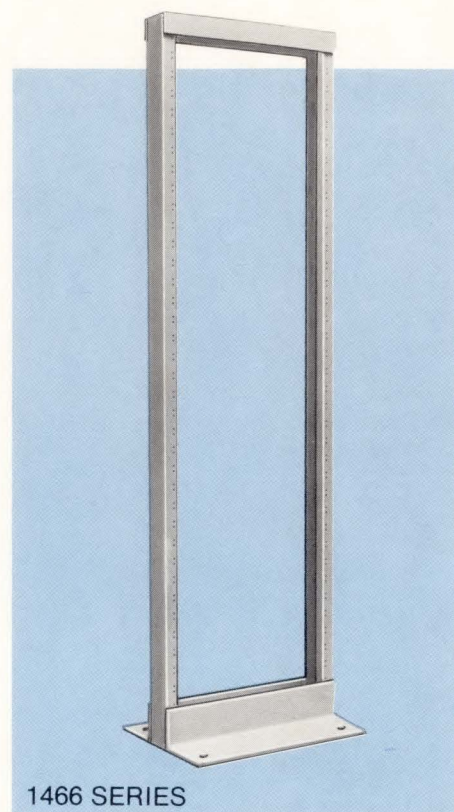
1466 SERIES

1467 SERIES
- A lighter version of the heavy duty 1466 series.
- Welded, formed, 12 gauge steel construction.
- Standard finish is ASA 61 grey baked enamel.
- Mounting rails are drilled and tapped 10-32 to EIA .5 - 1.25 spacings.
- For 19" panels.
- Base has two .43" diameter holes on 16.75" centres located midway between front and rear.

Panel Height		Cat.	Overall	Wt.
in	u	No.	Height	Lb.
47.25	27	1467 A	49.8	35
56.00	32	1467 B	58.6	38
63.00	36	1467 D	65.6	41
70.0	40	1467 F	72.6	42
77.0	44	1467 H	79.6	45
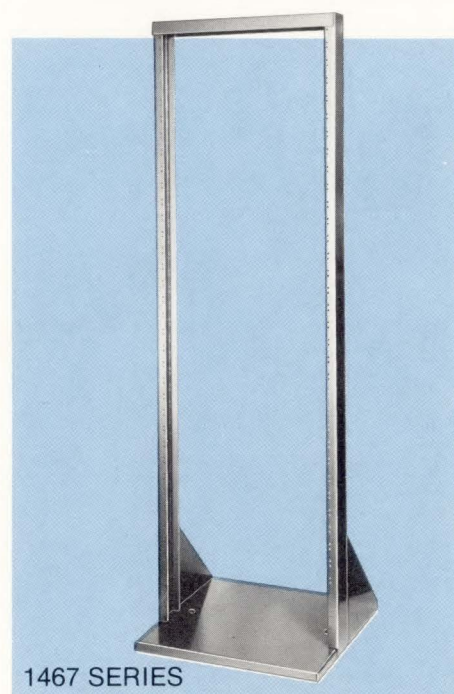
On Special Order — All rack series
- Racks to accept 24" panels, specify as 1466 H24 or 1467 H24, etc.
- Special height and paint finishes.
- Mounting rails drilled and tapped for 10-24 or 12-24 screws.
- Rails drilled and tapped front and back to EIA-RETMA standards.

1467 SERIES

DOLLY
- Mounting holes suit series 1466 and 1467 relay racks.
- 2.0" diameter castors with a total capacity of 600 lb.

Cat. No. 1424T — 28.0 x 21.5 x 2.7"

Hardware

PANEL SCREWS AND WASHERS

Nickel plated 10-32 x .5"
countersunk, slotted oval head.

1421 E25B pkg. of 25
1421 E100B pkg. of 100

Nickel plated metal cup washers for
countersunk 10-32 screws.

1421 E25W pkg. of 25
1421 E100W pkg. of 100

10-32 x .75" philips oval head screws
with plastic cup washers.

1421A pkg. of 4 screws
and 4 washers

Nickel plated 10-32 x .75"
countersunk, philips oval head.

1421 A25B pkg. of 25
1421 A100B pkg. of 100

Black plastic cup washers for
countersunk 10-32 screws.

1421 A25W pkg. of 25
1421 A100W pkg. of 100

Nickel plated 10-32 x .37" slotted
binding head with flat nylon washers.
(Same as supplied on system rack side
panels and turrets.)

1421G pkg. of 8 screws
and 8 washers

Stainless Steel 10-32 x 1.25"
countersunk, philips oval head (the extra
length is necessary for RAISED panels).

1421 F25 pkg. 25

10-32 x .5" slotted oval head screws
with steel cup washers.

1421 pkg. of 4 screws
and 4 washers

Nickel plated 10-32 x .5" thumb
screws with threaded washers for
captivating in panels up to 0.09"
thick. Head is .62" dia. x .37" high.

1421B pkg. of 4 screws
and 4 washers

TOUCH UP PAINT

CAT. NO.	COLOR
¼ pint tins of standard Hammond paint	
1413 BK	Black
1413 BN	Bone white
1413 CC	Charcoal grey
1413 CN	Chestnut
1413 ER	Earth brown
1413 GF	Gulf blue
1413 L	ASA 61 grey
1413 LF	Leaf green
1413 MS	Moss green
1413 PY	Putty grey
1413 RS	Rust brown
1413 SD	Sand
1413 SK	Smoke grey
1413 SR	Storm blue

Larger spray cans of quick drying
lacquer.
1413 LS ASA 61 grey.
1413 BS Black
1413 BGS Sand.

MISCELLANEOUS HARDWARE

Polished stainless steel ¼-20 x .87"
thumb screws with nylon washers
and steel nuts for captivating in
panels up to 0.4" thick. Head is .68"
dia. x .25" high. (Same as on desk
modesty panels).

1421 B2 pkg. of 2 screws,
nuts and washers

Nickel plated ¼-20 x .5" slotted
binding head screws with nylon
washers (Same as on Economy
Racks.)

1421 H pkg. of 8
screws and washers

Zinc plated ¼-20 x .5" slotted round
head screws with keps nuts (captive
star washers). Supplied with all
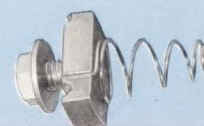panel rails and racks.

1421 K25 pkg. of 25 screws
and nuts
1421 K100 pkg. of 100 screws
and nuts

10-32 clips nuts for all chroma panel
rails and most other mounting
positions in chroma products. Has
the holding strength of a standard
10-32 nut.

1421 N25   pkg. of 25
1421 N100 pkg. of 100

Special spring loaded nuts for Amhal
structs

1463 S 3/pkg. of 3/8-16 nuts with
washers and .75" bolts (used
on 1469 series racks).

1421 S 4/pkg. of 1/4-20 nuts with
washers and .62" round
head bolts (used on desk
"equipment side panels").

CAM (FLUSH) LOCK

- Inconspicuous flush mounting in a .75" dia. hole.
- Chrome plated brass housing with reversible cam.
- All locks are keyed alike.

1427 BK 1 lock kit

PANEL SCREW COVERS

- Polished stainless steel strips to cover panel mounting screws.
- Sold in pairs with mounting clips.
- May be seen on page 40.

CAT. NO.	LENGTH	CAT. NO.	LENGTH
1421 Q3	3.5	1421 Q28	28.0
1421 Q5	5.25	1421 Q35	35.0
1421 Q7	7.0	1421 Q42	42.0
1421 Q8	8.75	1421 Q49	49.0
1421 Q10	10.5	1421 Q56	56.0
1421 Q12	12.25	1421 Q63	63.0
1421 Q14	14.0	1421 Q70	70.0
1421 Q17	17.5	1421 Q77	77.0
1421 Q21	21.0	1421 Q84	84.0
1421 Q22	22.0		
1421 Q26	26.25		

Pan head screws are required on all panels to be covered.

1421 D pkg. of 25 zinc plated 10-32 x .5" slotted pan head screws.

RASS 001
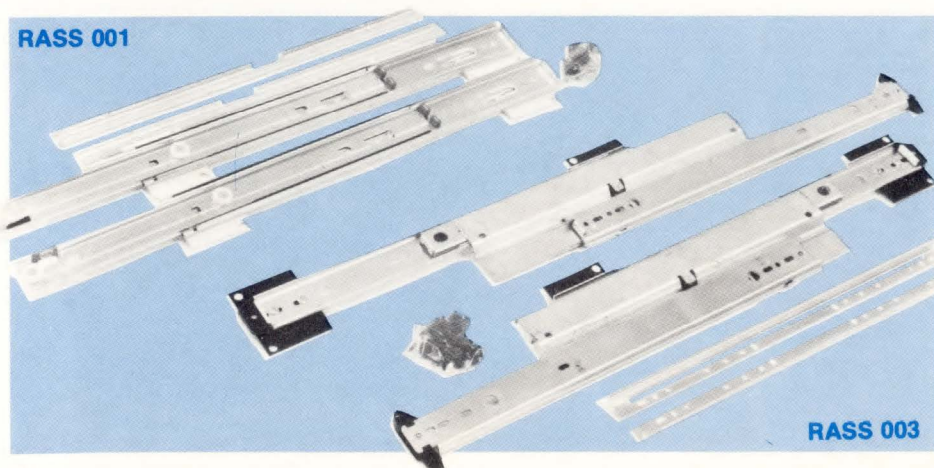
CASTERS

- Ball bearing: swivel, hard composition wheels.
- Set of 4 with mounting hardware.
- Cabinet are not pre-drilled.

Set of 4 Cat. No.	Wheel dia.	Overall Height	Capacity Per Set
1425 A	2	2.5	600 lb.
1425 B	3	3.7	360 lb.
1425 C	4	5.0	460 lb.
1425 D*	4	5.0	800 lb.

*(with foot operated braking lever)

- Twin nylon swivel wheel on zinc axle and hood.
- 2.37" wheel dia. with 2.75" mounted height.
- 5/16-18 threaded stem.

1425 P Set of 4. Capacity 400 lb. per set.

EQUIPMENT SLIDES

- For equipment of 4" height or more.
- Heavy duty 3 extension construction.
- Full travel, positive in and out stops.
- Extremely quiet ball bearing action.
- Quick disconnect catches hold equipment on slides during shipping.
- Mounts onto accessory rails of all Chroma cabinetry.

CAT. NO.	LENGTH	LOAD
RASS 05 003 12	12	150
RASS 05 003 16	16	150
RASS 05 003 22	22	130

- For equipment of 1 3/4" height or more.
- Light duty 3 extension construction.
- Full travel, positive in and out stops.
- Ball bearing and nylon wheel action.
- Quick disconnect equipment removal.
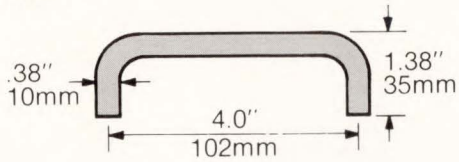- Mounts onto accessory rails of all Chroma cabinetry.

CAT. NO.	LENGTH	LOAD
RASS 05 001 12	12	50
RASS 05 001 16	16	50
RASS 05 001 22	22	42

RASS 003

.62
.59
.37
3.20
2.62
.68
.63
.18 TYP.

2.62
.18 TYP.
1.75
.06
.62
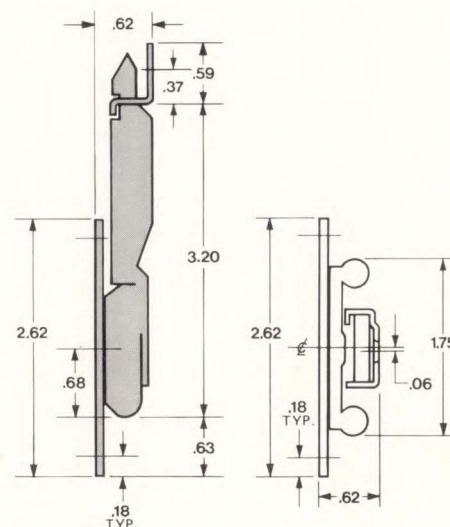
For heavy load RASS 003   **For light load RASS 001**

Handles

HAMMOND MANUFACTURING

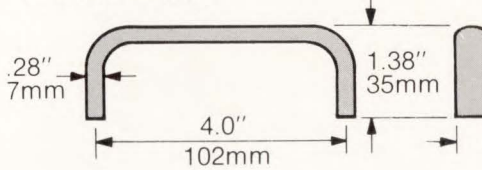## 1427 SERIES HANDLES

*1427C1
4" handle
.38" dia. bright nickel finished brass

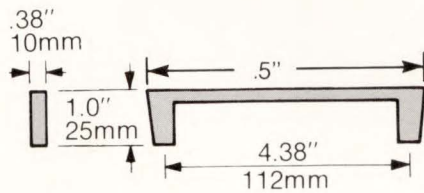.38" 10mm | 1.38" 35mm
4.0" 102mm

*1427C2
4" handle
.28" x .63" oval, satin nickel finished brass.

.28" 7mm | 1.38" 35mm
4.0" 102mm | .63" 160mm

*1427C3
3.25" handle
clear anodized satin finished aluminum

.38" 10mm | .5"
1.0" 25mm | 3.25" 83mm
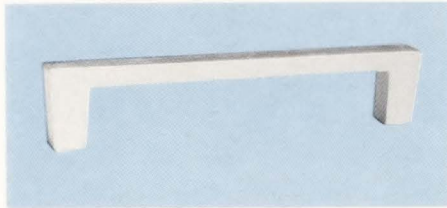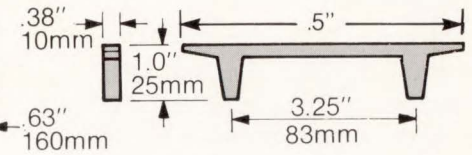
*1427C4
4.38" handle
black anodized satin finished aluminum

.38" 10mm | .5"
1.0" 25mm | 4.38" 112mm

*1427C5
4" handle
clear anodized satin finished aluminum.

.25" 6mm | 1.38" 35mm
4.0" 102mm | .88" 22mm
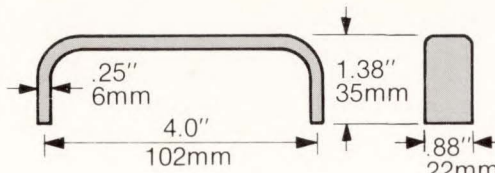
*1427C6
2.75" handle
clear anodized satin finished aluminum

.56" 14mm | 1.50" 38mm
.375" | 2.75" 70mm | .38" 10mm
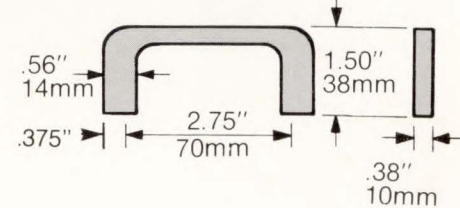
*1427C7
5" handle
black anodized satin finished aluminum

.50" 13mm | 4.0" 102mm | 1.0" 25mm | 1.0" 25mm
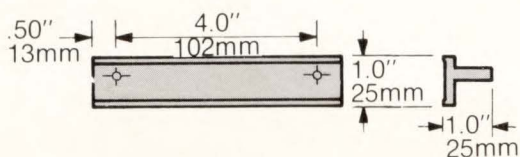
*1427C8
5" handle
black anodized satin finished aluminum

.50" 13mm | 4.0" 120mm | 1.0" 25mm | 1.0" 25mm

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HAMMOND MANUFACTURING™
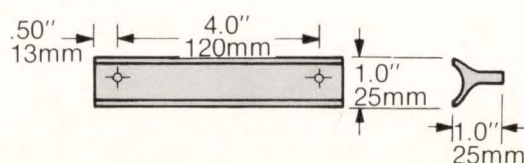
NEW DESIGN

These new Hammond power bars feature an attractive, extruded, brushed aluminum case with matte black receptacle housing. Screw tabs are provided if permanent mounting on work surface is required. Choose from 4', 6' or 8' receptacle models; with 6' or 15' cords; with or without lighted ON-OFF switch. Extra long 4' and 6' powerbars with 8 receptacles are also available.

Series H power bars feature lighted, rocker-type ON-OFF switch for master power shut-off. Series T power bars have no switch.
CSA approved Hammond Power bars have 15 A 125 V resettable circuit breakers to prevent accidental line overload.

Also see our British style power bars below.

1584 MK1 with system mount.

1584 MK1 with Amhal Mount.

British Style Power Bar
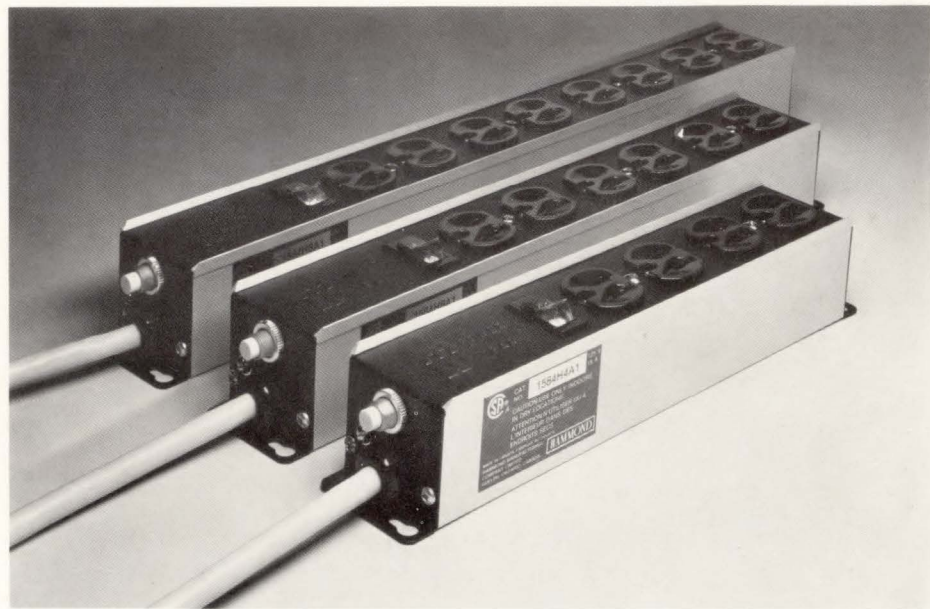
STANDARD POWER BAR

Number of Receptacles	Lighted ON-OFF Switch	With 6' cord Part No. Wt. lb.	With 15' cord Part No. Wt. lb.
4	Yes	1584H4A1	1584H4B1
6	Yes	1584H6A1	1584H6B1
8	Yes	1584H8A1	1584H8B1
4	No	1584T4A	1584T8B
6	No	1584T6A	
8	No	1584T8A	

LONG POWER BAR

No. of Receptacles	Overall Length	With 6' Cord	With 15' Cord
8	4 ft.	1585H8A	1585H8B
8	6 ft	1587H8A	1587H8B

BRITISH STYLE POWER BAR

No. of Receptacles	Length Overall	with 2m cord
4	19"	DP 2004
5	19"	DP 2005
7	19"	DP 2007
3	13.4"	DV 2203
4	16.34"	DV 2204
5	19.30"	DV 2205
7	25.20"	DV 2206

Finished in grey.

STYLE DP

STYLE DV

46
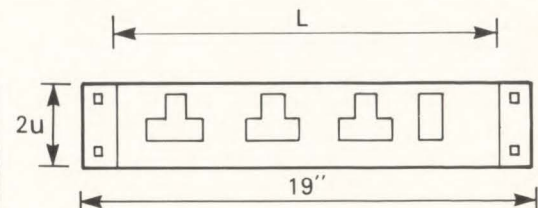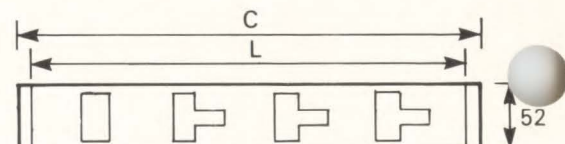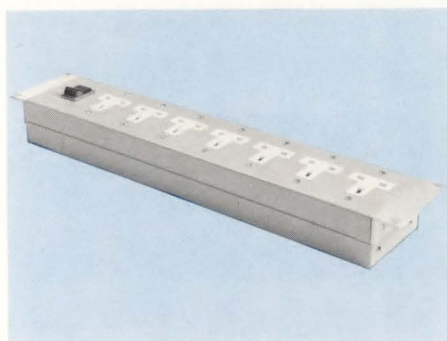
EQUIPMENT SLIDE
# ASSEMBLY DRAWINGS

HAMMOND MANUFACTURING™

ASSEMBLY INSTRUCTIONS

1. If mounting slides on rack or economy rack accessory rails, adjust rails to suit mounting centres as shown in Dim. D.

   If mounting slides in drawer cradle or RCHS rack with fixed accessory rails, you will find the rails are already spaced correctly.

2. Position mounting plate so that both top and bottom holes in the plate line up with the E.I.A. spaced holes in accessory rail. See Fig. C. If this does not occur, it may be necessary to move up or down one hole space.

Fig. C
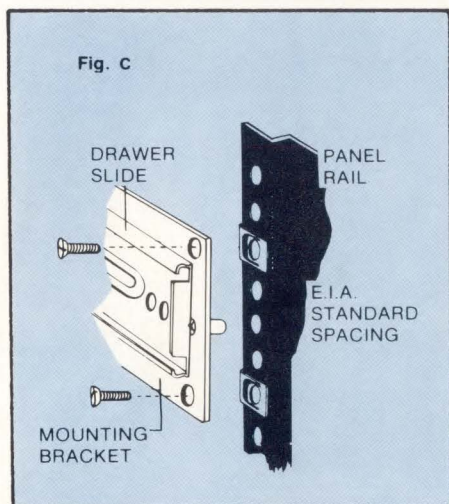
3. Use #10-32 clipnut and machine screw to secure plates to accessory rails.

   Note:
   If drawer or chassis must be mounted at extreme bottom of RSFS or RCHS, mounting plate will have to be sheared to provide clearance for rack cowling only on 3.5 and 5.25 in. deep drawers and card chassis.

4. Use #8-32 screws, hexnuts and lock washers to attach mounting fixture to drawer (or chassis).

RASS 05 001 Series (See Fig. A)
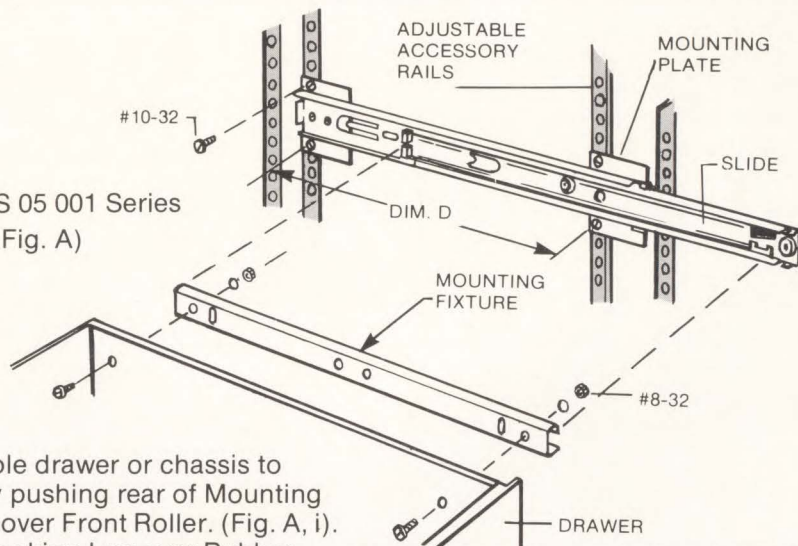
Assemble drawer or chassis to slide by pushing rear of Mounting Fixture over Front Roller. (Fig. A, i). Glide Locking Lug over Rubber Stop (Fig. A, ii) and push Mounting Fixture over Central roller and continue towards rear of slide. (Fig. A, iii).

| Cat. No.	Slide Length	Mtg. Centre Dim. D
RASS 05 001 12	12"	6.96"
RASS 05 001 16	16"	13.28"
RASS 05 001 22	22"	19.28"
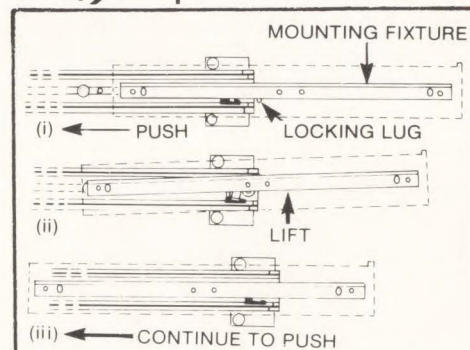
RASS 05 003 Series (See Fig. B)
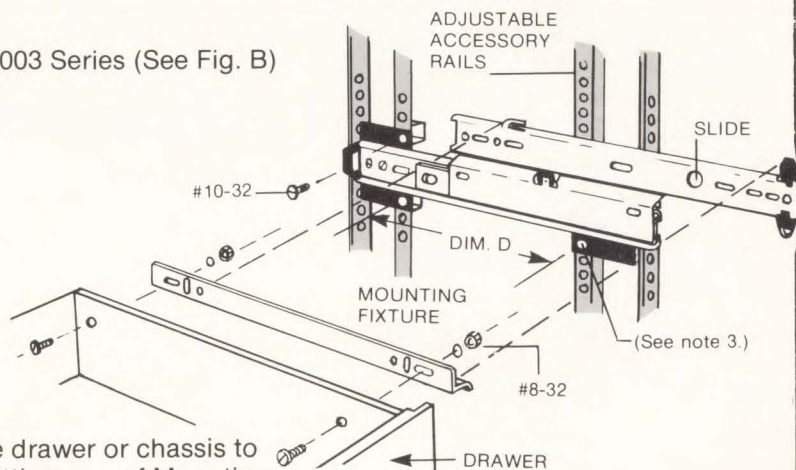
Assemble drawer or chassis to slide by fitting rear of Mounting Fixture slot under clip located on top of slide (fig. i) then pushing front of drawer down so that catch (z) locks into front of Mounting Fixture slot (y) (fig. i).

Cat. No.	Slide Length	Mtg. Centre Dim. D
RASS 05 003 12	12"	6.96"
RASS 05 003 16	16"	13.28"
RASS 05 003 22	22"	19.28"

![Hammond Manufacturing logo] HAMMOND MANUFACTURING™
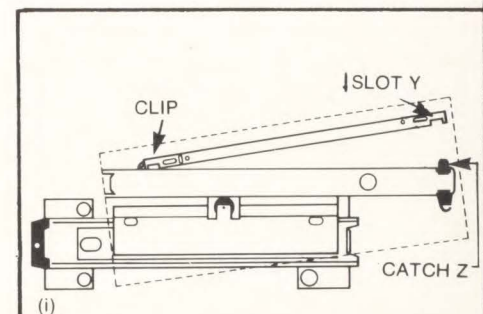
STANDARD DRAWER

1. Locate drawer face as in drawing below so that mounting angles (M) at rear of face fit inside pan at front of drawer body.

2. Secure drawer face with the four self tapping screws (C) through holes provided at drawer front side.

3. Tolerance has been provided to allow some vertical adjustment of drawer face for fitting multiple drawer units.
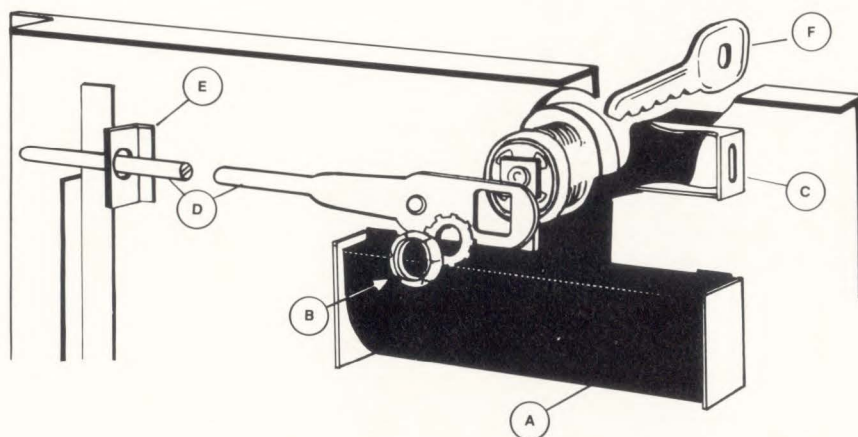
No.	Qty.	Description
A	1	Drawer Face
B	1	Handle
C	4	Screws
M	2	Mounting Angles
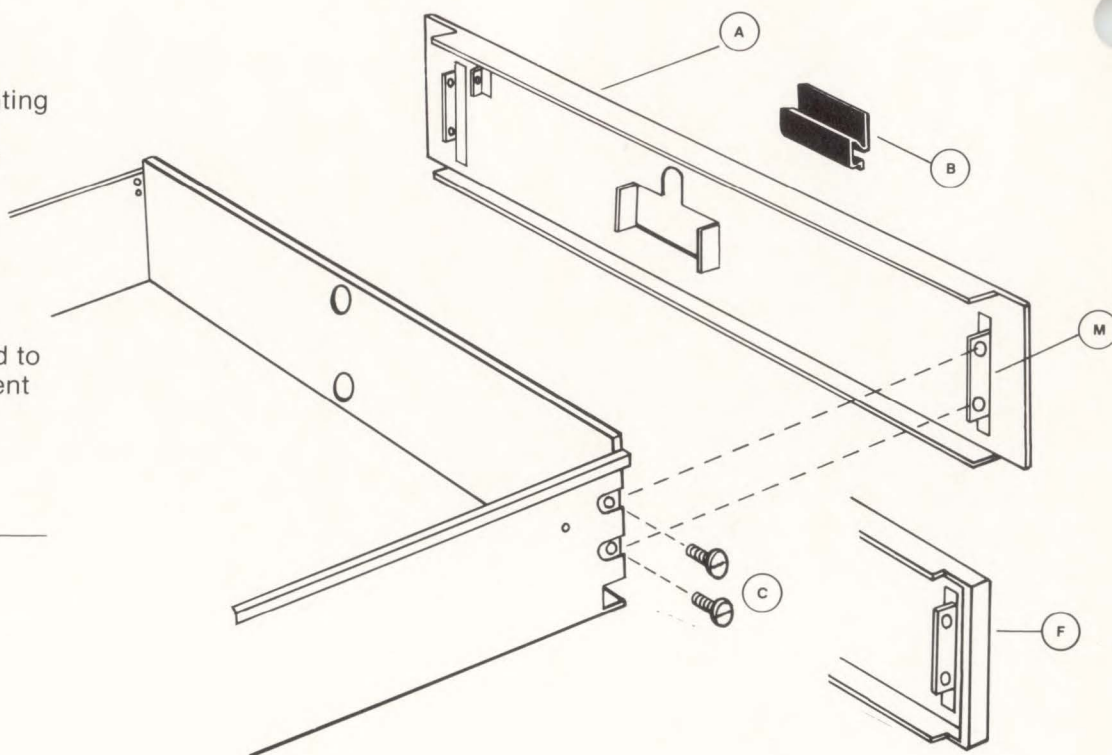
ASSEMBLY INSTRUCTIONS

1. If installing on existing drawer, remove drawer face and knock out non locking handle.

2. Push in black plastic handle with lock hole in upper position as shown.

3. Remove lock nut (B) and disassemble locking bar (D).

4. With key (F) vertical/teeth down insert lock through handle hole and fix with spring clip (C).

5. Slide locking bar through bracket (E) and position lock rod cam in the locked position as shown.

6. Fasten with washer and lock nut (B).

7. For 5.25" and 7" drawers, bend leading edge of slide mounting fixture E back 90° to clear lock rod.

DRAWER LOCKING KIT ASSEMBLY DRAWINGS

PARTS LIST

No.	Qty.	Description
A	1	Black Plastic Handle
B	1	Lock Nut
C	1	Spring Clip
D	1	Locking Bar
F	2	Keys
E		Slide Mounting Fixture

REFK CABINET
ASSEMBLY DRAWINGS

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PARTS LIST

Item	Qty.	Description
1	1	Top
2	1	Bottom
3	2	Sides
4	4	levelling feet
5*	12, 16, 20	R.H. mach. screws 1/4 - 20 x 1/2
6*	12, 16, 20	1/4 - 20 keps nuts
7*	50,80	#10 - 32 clip nuts
8	8	1/4 nylon washers
9	8	1/4 - 20 truss HD screws

ASSEMBLY SEQUENCE

1. Insert levelling feet into base from underside.

2. Locate sides into base interlocking corners insuring cross rails are pointing upward.

3. Locate top onto sides.

4. Secure sides to top and bottom using 1/4 - 20 slotted truss head screws and nylon washers.

   NOTE: If doors are to be assembled do not tighten sides to allow for adjustment.

5. Locate panel rails in desired locations on cross supports and secure using 1/4 - 20 round head screws and keep nuts supplied. Alternate method of mounting using clip nuts & 10-32 panel screws may be used if desired.

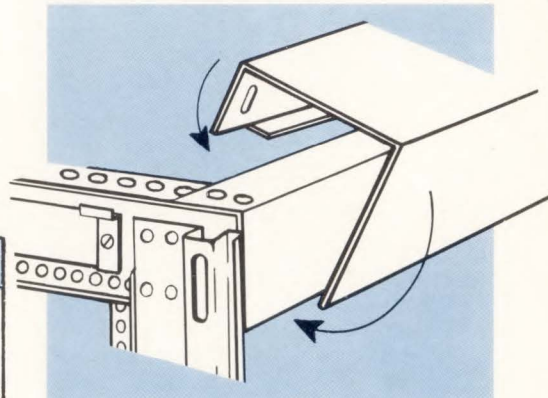Holes Up

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PLAIN COWLING

The top cowlings whether for use with or without flush doors must be assembled prior to installation of panel rails.

Install cowling at an angle and rotate into position as shown in diagram.

Once in position secure using 10-32 screws and clip nuts thru holes provided in top edge of cowling. Clip nuts should be located before cowling is snapped into place.

BOTTOM PLAIN COWLING

Bottom cowlings for use with or without flush doors follow the same installation procedure. It is recommended that installation is done prior to mounting of cabinet rails.

Locate double sided adhesive strips supplied to inside of front face of cowling.

NOTE: If raised steel top is to be used in conjunction with cowling do not secure cowling. This should be done when top mounting ring is secured.

Part	Qty.	Description
A	1	Cowling
B	2	10-32 Clipnuts
C	2	10-32 Panel Screws

Slide cowling straight onto bottom frame of cabinet. Adhesive strips will hold in place and prevent vibration.

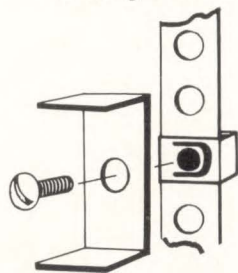| Part	Qty.	Description
A	1	Cowling
B	2	Double Sided Adhesive Strips

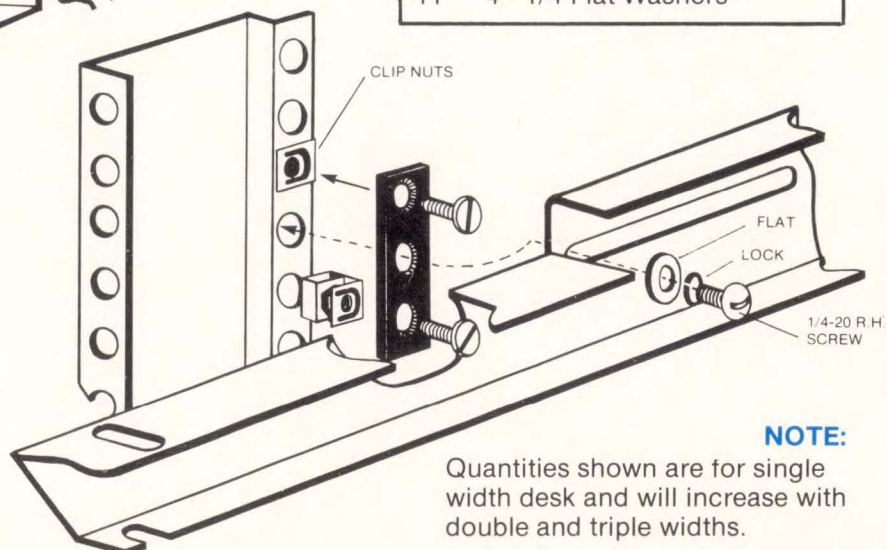ADHESIVE STRIPS
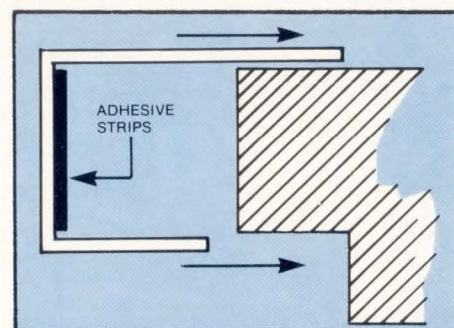
RACK MOUNTED DESKS ASSEMBLY

1. Locate position of desk desired and mount spacers part 4 to front and rear accessory rails ensuring that all holes line up. (If these holes do not line up with holes in accessory rail desk will not be properly centred in the panel space). Use 10-32 clip nuts and flat head counter-sunk screws for this part of assembly.

2. Mount part 2 mounting brackets to the spacers using the 1/4-20 R.H. screws in conjunction with the 1/4 flat and lock washers. DO NOT TIGHTEN.

3. Filler brackets are provided to fill gap existing between cantilevered top and the panel rails. These should be located at this time. Bolt into place on panel rail. Do not tighten too tight as after installation of top bracket will probably require tapping to sit flush!

4. With mounting brackets still loose now assemble top into place securing with 10-32 panel screws and lock washers thru brackets into tee-nuts provided in underside of desk.

5. Slide desk and brackets into place so that top fits snugly against cabinet corner extrusions and tighten all existing mounting screws.

Item	Qty.	Description
1	1	Laminate Desk Top
2	1 pr.	Mounting Brackets
3	2	Filler Brackets
4	4	Spacer
5	8	#10-32 Clipnuts
6		Flat Hd. Csk. Screws
	8	#10-32 x 5/8
7	4	10-32 x 1/2 Panel Screws
8	4	#10 Lock Washers
9	4	1/4-20 x 3/8 R.H. Mach. Scr.
10	4	1/4 Lock Washers
11	4	1/4 Flat Washers

CLIP NUTS

FLAT
LOCK
1/4-20 R.H. SCREW

NOTE:
Quantities shown are for single width desk and will increase with double and triple widths.

STRAIGHT GANGING KIT ASSEMBLY DRAWINGS

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ASSEMBLY SEQUENCE

1. Install panel rails to desired position prior to ganging.

2. Level the heights of the cabinets to be ganged together.

3. Bolt the frames together using 1/4-20 x 1 1/2 lg machine screws and nuts provided through holes in side of frames above equipment space at front and rear. (Do not tighten).

4. Cabinets may be bolted at bottom if necessary but caution should be taken to ensure bolts do not interfere with equipment mounting. (Again do not tighten)

5. Assemble extrusions front and rear so as to line up flush with tops of cabinets.
   NOTE: If I.D. cowling is to be used for multiple widths extrusion must be cut 2 5/8" short of top of cabinets.

6. Assemble spacer and spacer cover using 1/4-20 x 3/4 machine screws directly below ganging extrusion.

7. Tighten all clamps and ganging bolts.

8. Assemble filler strip between cabinets at top to cover gap as shown. (Snap off filler strip segments to obtain appropriate length).

THIS AMOUNT TO BE CUT OFF WHEN MULTI-WIDTH I.D. COWLING USED

PARTS LIST

Part	Qty.	Description
A	2	Plastic extrusion
B	2	Spacer
C	2	Spacer cover
D	2	R.H. Mach. Screw 1/4-20 x 1 1/2
E	2	R.H. Mach. Screw 1/4-20 x 3/4
F	2	Hex nut 1/4-20
G	2	Lock washer 1/4
H	1	Filler strip
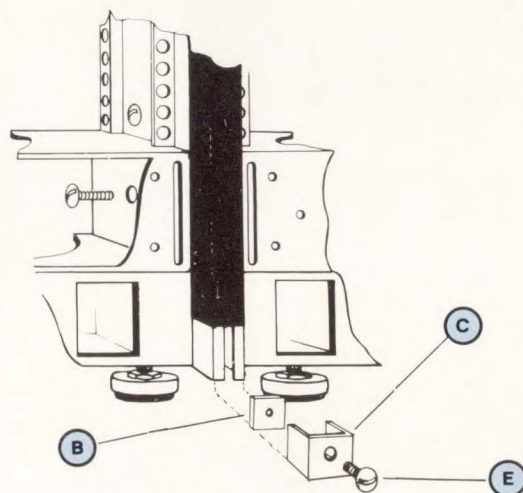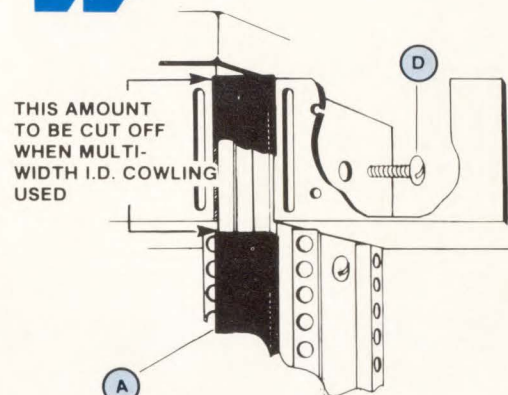
CLEAR SWING DOOR ASSEMBLY DRAWINGS
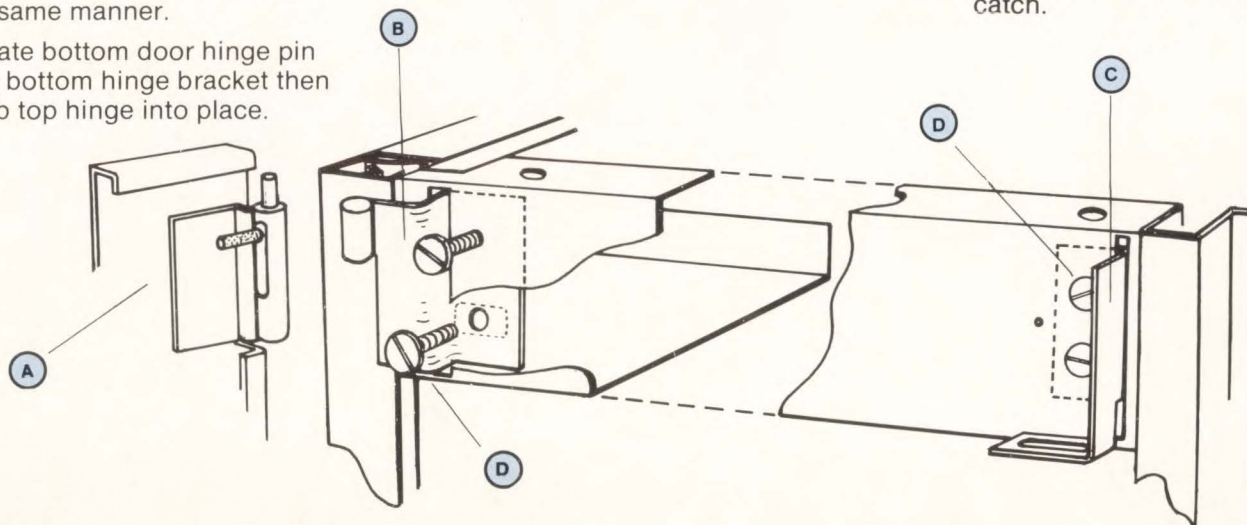
ASSEMBLY INSTRUCTIONS

1. After selecting side on which door is to be hinged, install hinge brackets through vertical slot in cowlings and secure using 10-32 pan head screws as shown in diagram.

2. Install latch brackets in vertical slots on side opposite hinges in the same manner.

3. Locate bottom door hinge pin into bottom hinge bracket then snap top hinge into place.

4. Slight alignment of door may be required after installation. This can be accomplished by the loosening of the hinge brackets and re-tightening.
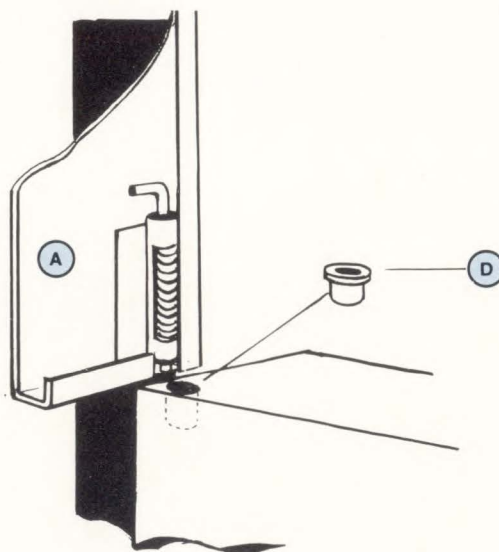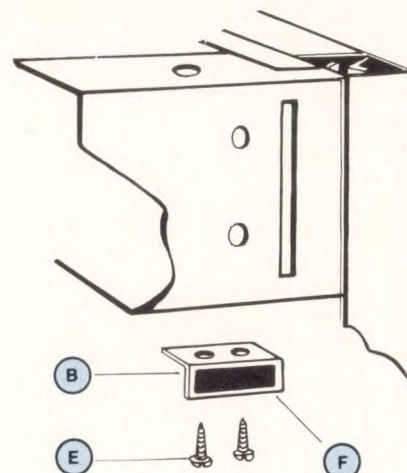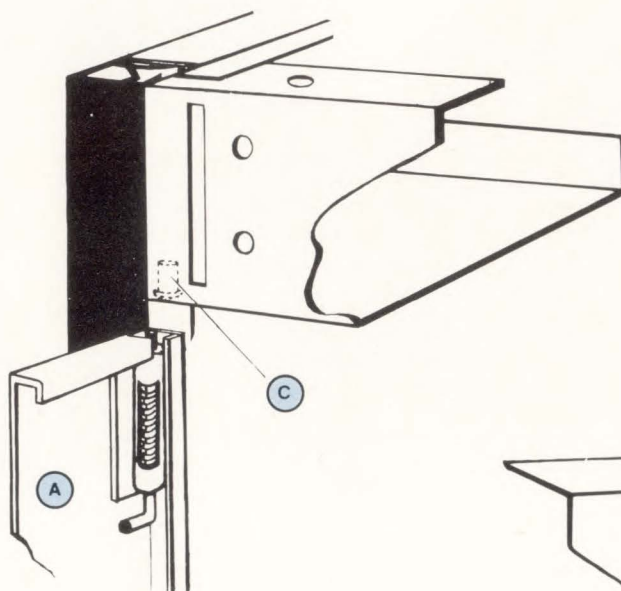
Item	Qty.	Description
A	1	Clear Swing Door
B	1 pr.	Hinge Brackets
C	1 pr.	Latch Brackets
D	8	#10-32x½ Pan. Head Machine Screws.

Note: Plexidoor has magnetic catch.

HAMMOND
MANUFACTURING™

ASSEMBLY INSTRUCTIONS

1. Cabinet must be leveled prior to assembly of door.

2. Install the 3 nylon bushings in holes in the horizontal face of the top and bottom cowlings with 1 brass bushing in the bottom hole where door hinge is to be located.

3. Using the 4 self tapping screws supplied locate door stops on cowling in holes provided opposite hinge side top and bottom.

4. Apply small strips of gasket to door stops to act as cushion.

5. Locate door into bushings by means of the spring loaded hinge pins.

6. When using partial height doors, panel rails must be recessed to allow installation of the "RDSP" partial height door support.

7. Louvered flush doors to be hinged on right hand side only.

PARTS LIST

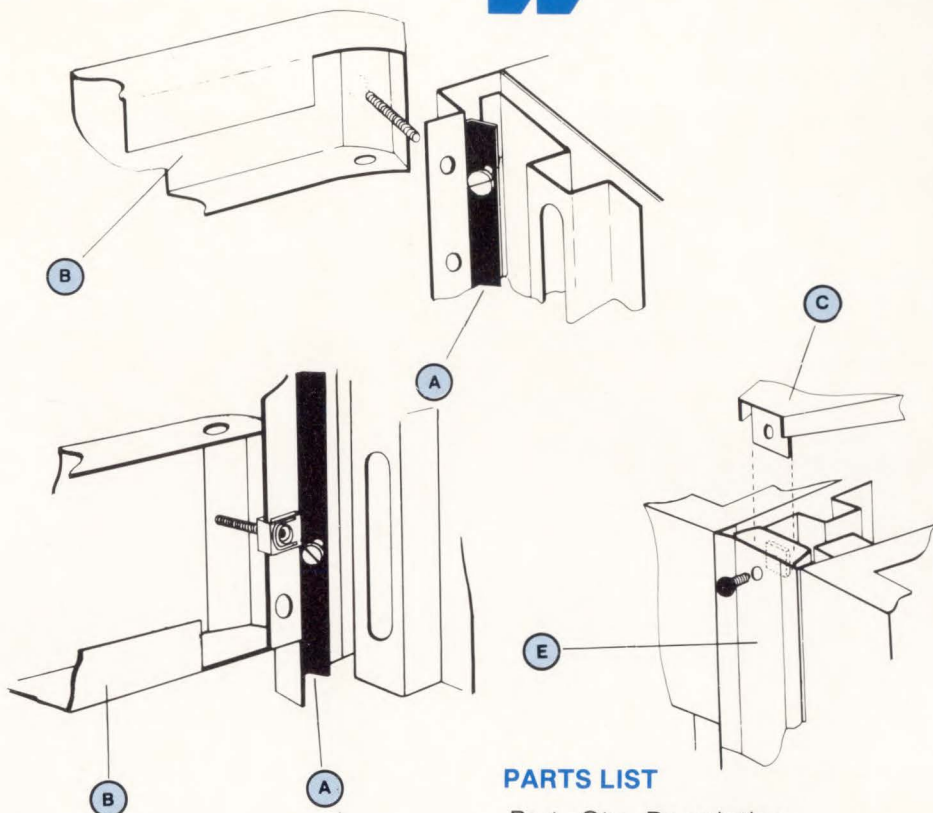| No.	Qty.	Description
A	1	Flush Door
B	2	Door Stops
C	3	Nylon Bushing
D	1	Bronze Bushing
E	4	Screws
F	2	Gasket Strips

FLUSH MOUNT DOOR

52
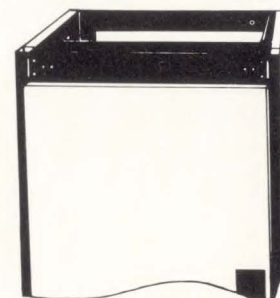
ASSEMBLY SEQUENCE

1. Assemble corner verticals (A) to rear corners of cabinets to be hanged together flush with tops. Notch in corner vertical should go towards bottom. SECURE verticals by means of 10-32 panel screws through angle brackets as shown in sketch. Do not over tighten as this is only to prevent verticals from slipping.

2. Assemble cowlings in to above using long black 10-32 screws and clipnuts provided in line with wide frame section of cabinets. 3/8" diameter holes in cowlings should be facing down in top cowling and up in bottom cowling.

3. Assemble front joining members of wedge unit to cabinet front corner members but do not tighten top screw.

4. Install top panel, tighten top screw of front joining member to lock in front of panel. Assemble clamps as shown at rear of top panel with wing nuts to secure rear.

5. Mount rear panel using 10-32 screws and clip nuts provided.

PARTS LIST

| Part	Qty.	Description
A	1 pr.	Corner verticals
B	2	Cowlings
C	1	Top panel
D	1	Rear panel
E	1	Front joining assembly
F	1	Hardware package

SIDE PANELS ASSEMBLY DRAWINGS

ASSEMBLY ON RACK SIDE PANELS

1. Attach plastic extrusions to corners of cabinet as shown in sketch A, ensuring each is flush to top of cabinet. Do not use a metal hammer for securing extrusions as this may cause damage. Plastic or rubber mallet is, if necessary recommended.

2. Locate hat shaped mounting bracket in long opening at bottom of side frame Fig. B (Locate the two small angle brackets at the holes immediately beside the long opening at top of side frame and secure with 10-32 screws and nuts provided. This will prevent side panel from sliding too low when installing.

3. Assemble side panels starting at top and working side edges into grip on extrusions, as shown in Fig. A.

4. Once side panel is located, it may be secured with nickel plated screws and nylon washers supplied through hole in sides.

Fig. A


Fig. B

PARTS LIST

Item	Qty.	Description
A	2	Side panels
B	2	Mounting Brackets
C	4	Small angle brackets
D	8	10-32 pan head screws
E	2	Nickel plated panel screws
F	2	Nylon washer
G	4	Plastic extrusions
H	4	Hex Nuts 10-32

![Hammond Manufacturing logo] HAMMOND MANUFACTURING™
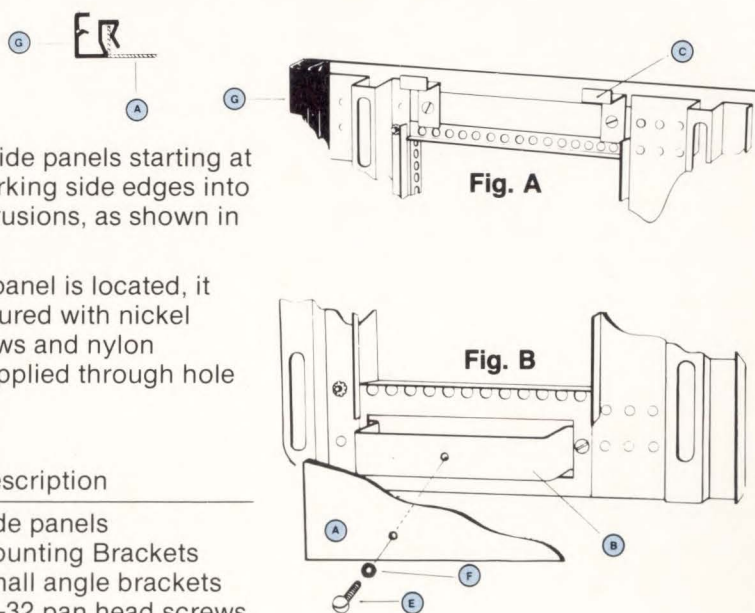
ASSEMBLY SEQUENCE

1. Locate top to cabinet using panel screws and keps nuts provided thru hinge and holes in cabinet cowling at rear.

2. Open braces to locked position and locate on side rails of cabinet top to dimension shown in diagram, using clip nuts and panel screws.

3. Assemble locking arm as shown in diagram using 1/4" flat washers and 1/4 - 20 bolt into tee nut in front of top.

NOTE: A special plain cowling is available for use with the lift-up top if desired. Please specify RSCL 19 and desired color code. This cowling is also required at front of cabinet if I.D. cowling or clear swing door is not being used.
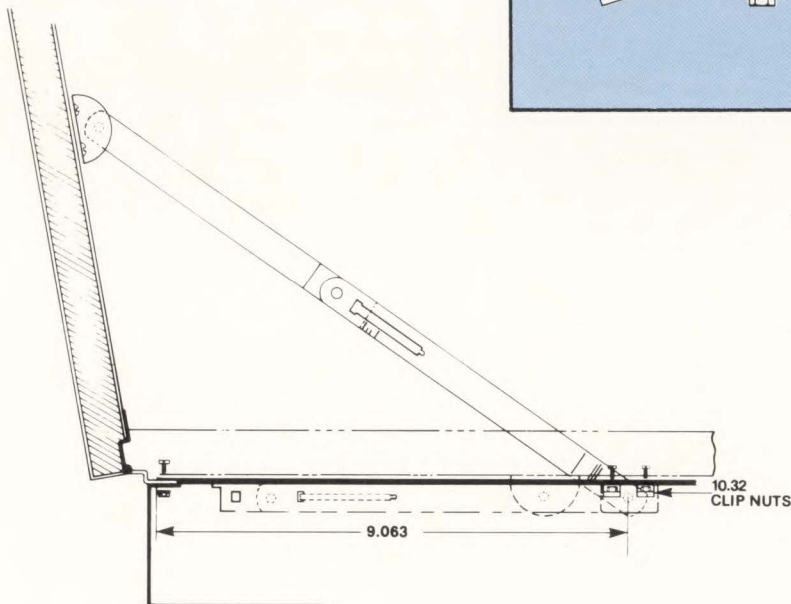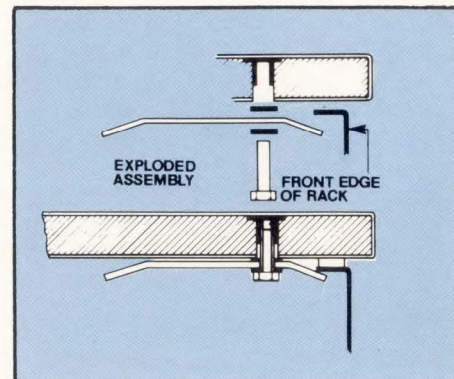
PARTS LIST

Item	Qty.	Description
1	1	Wood laminate top
2	1 pr. (installed)	Braces
3	1 (installed)	Hinge
4	2	#10 - 32 keps nuts
5	4	#10 - 32 clip nuts
6	6	#10 - 32 x 1/2" panel scrs.
7	1	Locking arm
8	2	1/4 flat washers
9	1	1/4 - 20 x 1" lg hex bolt

NOTE: Quantities shown are for single width top and may increase for double and triple widths.

EXPLODED ASSEMBLY   FRONT EDGE OF RACK

10.32 CLIP NUTS

9.063

VENTED TOP ASSEMBLY DRAWINGS

ASSEMBLY SEQUENCE

1. Locate and secure inner frame (A) to top of cabinet using 10-32 clip nuts and panel screws (long slots in frame to front) assuring frame is square with cabinet.

2. Locate catches in raised or lowered position at rear of frame using top to determine which set of holes are to be used (this depends on type of top and as to which side of cabinet overlap is to be located or whether top is centred).

3. Hook angle brackets of top into apropriate slot in front of frame (upper or lower) and snap rear of top into position.

4. Secure top by tightening long 10-32 machine screw provided through frame into locking tab of top.

PARTS LIST

Item	Qty.	Description
A	1	Inner frame
B	2	Catches
C	1	Hardware kit

TOP

LOCKING SCREW C

PANEL SCREWS
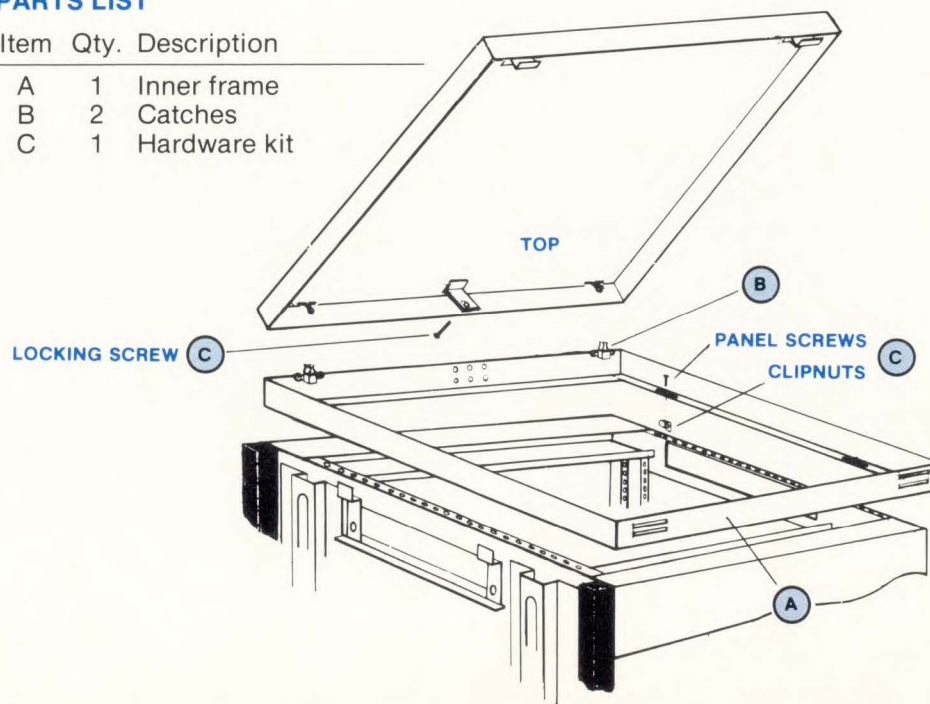
CLIPNUTS

TURRETS
ASSEMBLY DRAWINGS

Turrets are comprised of 1 pair of sides and necessary cross members. Assemble using 10-32 clip nuts and panel screws provided as illustrated.

NOTE: On RTSS19007 clip nuts are not necessary as cross members are supplied with weld nuts at mounting points.
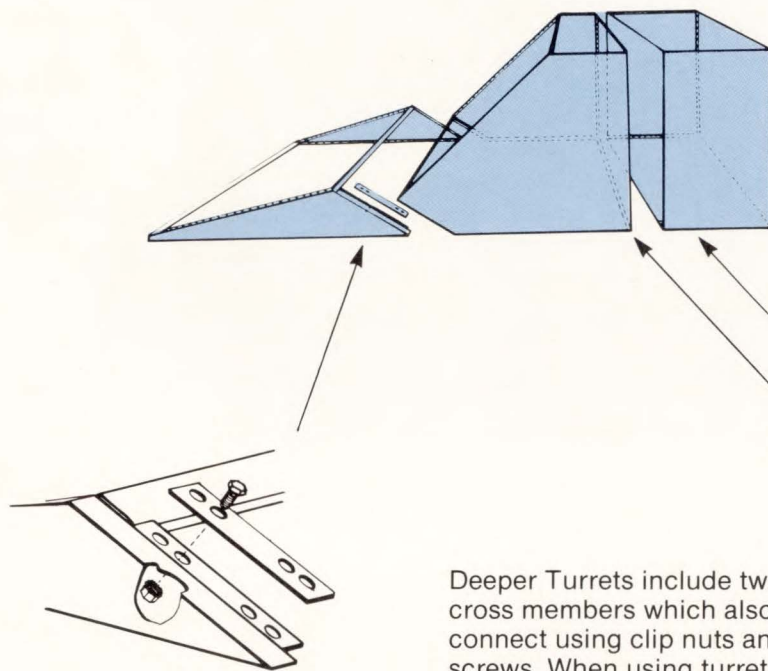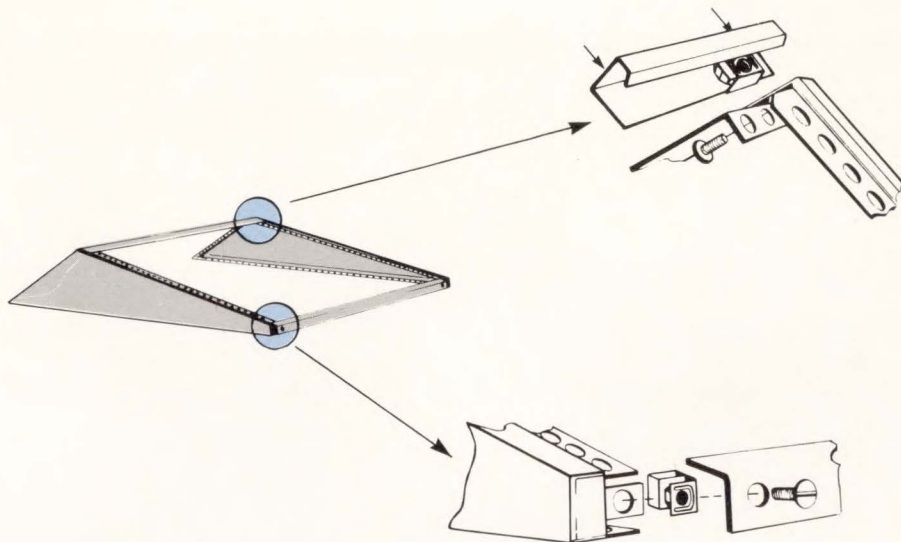
The RTSE consists of 1 pair of sides and 2 cross members for the rear only. Mounting to the rear only involves the removal of rear cross member screws on deep turret and the re-insertion thru the forward flange of the "RTSE" extension.

Deeper Turrets include two rear cross members which also connect using clip nuts and panel screws. When using turret extension these may be left off allowing the assembly of a full depth panel on top and bottom of complete unit.
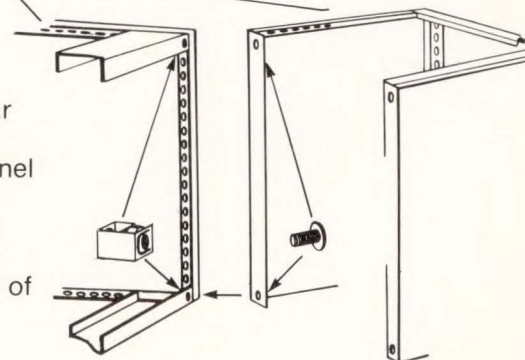
All Turrets may be ganged to provide a continuous console. This is done by connecting the 45° slopes using the spacers, 1/4 - 20 hex head cap screws and 1/4 - 20 keps nuts provided. If units are not to be ganged the special "RTSP" panel is required to fill the 45° sloped surface.

| CAT. NO.	PG	CAT. NO.	PG	CAT. NO.	PG	CAT. NO.	PG	CAT. NO.	PG	CAT. NO.	PG
ACDT	39	PBAA	35	RASA	33	RDMS	27	RSRA	33	1459	41
ACRM	39	PBAF	35	RASB	33	RDSP	27	RSRC	33	1463S	43
CGPP	30	PBAS	35	RASC	33	RDTW	27	RSRP	33	1465	41
CRCF	30	PBFS	35	RASE	33	REFK	6,7,49	RSSB	10,53	1466	42
CRHF	30	PBPA	35	RASS	44,47	RETK	7	RSSL	10,53	1467	42
DTAB	26	PBPS	35	RAVB	31	RSAC	15	RSTG	12,54	1469	17,18,19,20
DTCA	26	PBRS	35	RAVF	31	RSAD	9,50	RSTL	11,54	1475	31
DTDP	25	PHPF	14,34	RCBS	40	RSAG	8,51	RSTM	12,54	1476	42
DTFC	25	PVBB	32	RCHS	40	RSAS	15	RSTS	12,54	1564	21,22
DTKT	25	PVBS	32	RDCS	27	RSCL	15,50	RTSE	37	1582	34
DTLP	25	PVLK	32	RDDF	29,48	RSDC	13,51	RTSP	37	1583	34
DTOF	24	PVLL	32	RDDH	29	RSDF	13,52	RTSS	37	5.....	14,34
DTPD	26	PVSA	32	RDDL	29,48	RSDL	13	WMAC	41	7.....	34
DTRB2	2,24	PVSS	32	RDDS	29,48	RSDP	14	1413	43	1584	20,46
DTRP	25	RABC	15	RDDW	29	RSDS	14	1421	40,43,44	1585	20,46
DTRU	24	RABT	40	RDFT	27	RSFS	4,5	1424	20,42	1587	46
DTSC	26	RACC	30	RDLC	27	RSFW	8,53	1425	44		
DTWT	25	RACP	30	RDLF	27	RSPD	13	1427	44,45		

Note: Italic numerals indicate page numbers for assembly drawings.

HUMAN FACTOR

Rack Packaging was designed for people and for electronics.

The versatility of the System components makes many different display/control panel combinations possible and since you will be creating your own, we have provided some of the anthropometric data that was used for the original designs.

Please note that this data must be interpreted. For instance, optimum viewing zone is illustrated with the body vertical; when the operator moves, the zone will move. Distances and angles of panels can vary depending upon their use. Make distinctions between casual, emergency, set-up or continual controls and displays. This will dictate some panel locations and sizes.

Human engineering is a very complex science, containing much more data than we could display here. For a better understanding we suggest *Humanscale 1/2/3* by Niels Diffrient, Alvin R. Tilley, Joan C. Bardagjy; designed by Henry Dreyfuss Associates, published by MIT Press.

DIMENSIONS ARE GIVEN IN INCHES FOR THE AVERAGE MALE AND FEMALE

HAMMOND MANUFACTURING
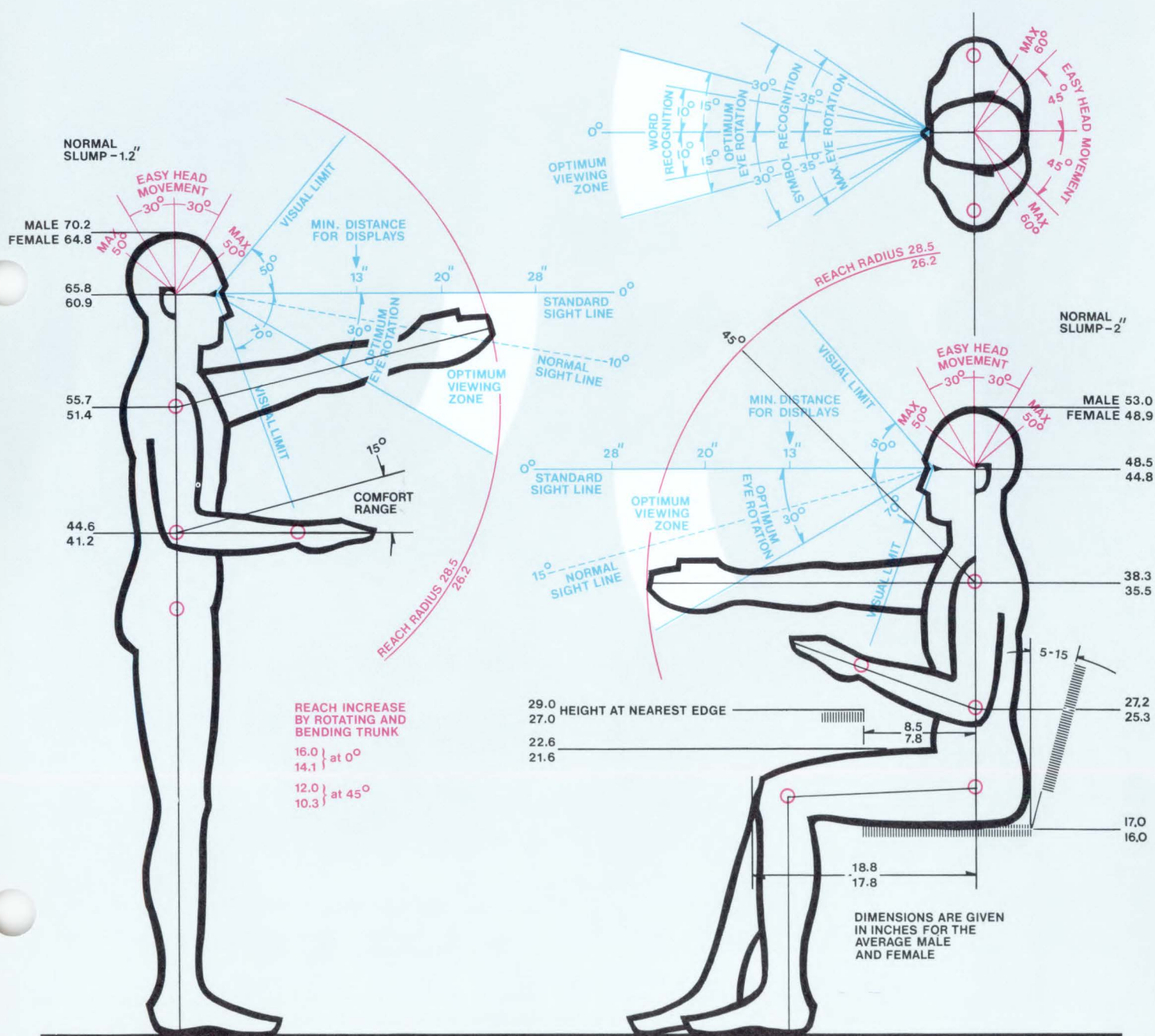
HAMMOND MANUFACTURING COMPANY LIMITED
394 EDINBURGH RD. GUELPH ONT. CANADA N1H 1E5
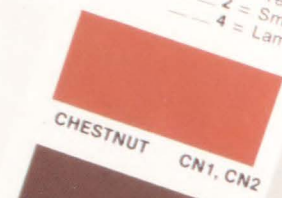PHONE (519) 822-2960 OR (416) 456-3770 TELEX: 069-56523

HAMMOND MANUFACTURING COMPANY (U.S.) INC.
385 NAGEL DRIVE BUFFALO NEW YORK U.S.A. 14225
PHONE (716) 683-8181 TELEX: 91-6452

COLOUR CHART
No. 9R-81

PAINTS
Specify finish by adding these 3-digit
suffixes to your HAMMOND CHROMA
catalogue numbers.

SUFFIX
_ _ 1 = Textured (see Charcoal)
_ _ 2 = Smooth Semi-gloss
_ _ 4 = Laminate

STORM   SR1, SR2

GULF   GF1, GF2

             BK1, BK2

PUTT

CHARCOAL   CC1
(Typical texture)

CHESTNUT   CN1, CN2

EART

ER1, ER2

RUST

LF1, LF2

MOSS   MS2

SAND
SD1, SD2

WN4