

Equipto Express Line 5 Day Service

When you Need Modular Cabinets - Fast!

Equipto's Express Line 5 Day Service Program provides shipment in five working days of popular sizes of Heavy Duty and Challenger modular electronic cabinets.

your needs. For more information on these products, please see the following pages. If you have any questions, please call (800) 204-7225.

Equipto's Express Service means you can complete rush projects on time because we can manufacture and custom configure our most popular rack sizes.

The following table can help you select the best option to meet

Frame	Dimensions	Frames and Consoles Features and Options
Heavy Duty Vertical Racks	Widths: 19" Depths: 29", 36"	<ul style="list-style-type: none"> ▶ Frames use 14-gauge and 16-gauge steel with all-welded construction ▶ Moveable 7-gauge Vertical Mounting Rails ▶ Adjustable or completely removable rail support channels ▶ Recessed ledge for mounting doors - eliminates sag and shipping damage
Challenger Vertical Racks	Widths: 19" Depth: 30 3/4"	<ul style="list-style-type: none"> ▶ 14-gauge transverse members welded to side frame minimizes twist and sway ▶ Positive door latching is standard and Casters are optional ▶ Moveable 11-gauge Vertical Mounting Rails

All items subject to availability at time order is placed.

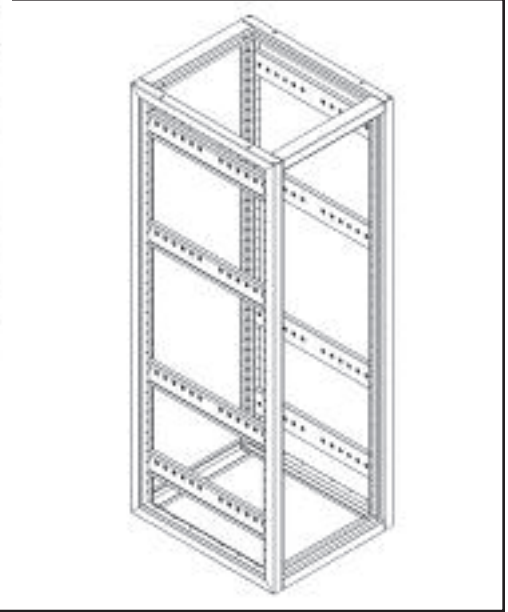


Heavy Duty Vertical Rack Frames

All items subject to availability at time order is placed.

Heavy Duty Vertical Racks may be purchased in single or multi-bay combinations. Each bay is shipped assembled and comes complete with a frame with four panel mounting angles, frame base, side panels (as required), full length rear left hand door with lock and a top panel. You may order your unit with ventilating louvers in which case it comes standard with louvered top and bottom side panels and rear left hand doors and fully louvered top panel.

The standard finish is textured baking enamel in a color of your choice from the color chart at the end of this section. Multi-bay assemblies are shipped in individual cartons.



Heavy Duty Vertical Rack Frame

Product Features

- ▶ Vertically adjustable or completely removable panel mounting angle support channels. Zinc plated per ASTM B-633, Type 2
- ▶ 14-gauge multi-formed channel frame sides for greater load carrying capacity
- ▶ All-welded double ledge/double plane corner construction
- ▶ Moveable 7-gauge Panel Mounting Angles-3/16" thick Universal E.I.A. RS-310 punched hole spacing
- ▶ Recessed ledge for mounting doors -eliminates sag/damage

*Frames will come with (4) punched vertical mtg rails. If you would prefer tapped (10-32) vertical mtg rails in lieu of the punched, then please add an 'H' after the first 3 digits of the frame P/N.

Example: 170H-077-030

VERTICAL RACK FRAMES - 19" Wide Panel Space					
Size of Front and Rear Panel Opening	Part No. of Frame*	Side Panels External Latch	Caster Base	Full Length Doors	
				Left Hinged	Right Hinged
29" Overall Depth		Top/Btm Panel Screw Fastened 371-030- -010 for Plain -014 for Louvered			
70 1/8"	170-070-030	N/A	N/A	091-170- <u> </u>	092-170- <u> </u>
77 1/8"	170-077-030	N/A	N/A	091-177- <u> </u>	092-177- <u> </u>
36" Overall Depth		Top/Btm Panel Screw Fastened 371-036- -010 for Plain -014 for Louvered			
70 1/8"	170-070-036	334-970- <u> </u>	021-036-050	091-170- <u> </u>	092-170- <u> </u>
77 1/8"	170-077-036	334-977- <u> </u>	021-036-050	091-177- <u> </u>	092-177- <u> </u>

DOOR and PANEL SUFFIX - Add this style number to the partial part number of doors and panels shown above

Plain	Louvered			
	Top	Bottom	Top & Bottom	Fully
-010	-011	-012	-013	-014

Challenger Vertical Rack Frames

All items subject to availability at time order is placed.

The Challenger Vertical Rack Frames offer a functional design with versatility and a variety of size selections. They are modular and are designed to be joined side-by-side, front-to-back or back-to-back. The Vertical Mounting Rails are adjustable.

Many accessories are available through our standard lead time. If you are ordering face mounted doors that will be shipping later, please indicate on your order for us to pre-drill for the door making sure to specify where each door will be mounted - contact factory for specific directions.



Challenger Vertical Rack Frame

Product Features

- ▶ Panel Mounting Angles are Zinc plated
- ▶ 14-gauge "J" Channel Frame Sides only 1" wide
- ▶ 16-gauge Side Struts "Hat Section" shape for strength
- ▶ Moveable 11-gauge Vertical Mounting Rails-1/8" thick Universal E.I.A. RS-310 hole spacing - available punched or tapped 10-32.
- ▶ Flush Base and Casters are optional
- ▶ 14-gauge transverse members welded to side frame to minimize twist, sway or deflection

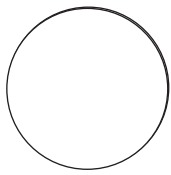
Express Line

Size of Front and Rear Panel Openings HEIGHT 'A'	Part No. of Frame**	Universal Side Panels (1)		Base &/or Caster Mtg Brackets*		Casters - 2" dual wheel swivel (rated at 200# per caster) (4) per rack req'd
		Left	Right	Flush	Caster	
		Side	Side	Base	Brackets	
30 3/4" Overall Depth		Top Panel: 2T-2612- ____		-46 for Plain	-11 for Louvered	
70 1/8"	40-7072-03	30-7048-__	30-7048-__	04-1930-11	04-4000-00	09-2045-12

Frame P/N 40-7072-03 will come with (4) punched vertical mtg rails. If you would prefer tapped vertical mtg rails, please order frame P/N 40H-7072-03

SIDE PANEL SUFFIX					
Type of Panel	Plain	Louvered			
		Top	Bottom	Top & Bottom	Fully
Side Panel/LH	11	22	23	24	25
Side Panel/RH	11	32	33	34	35

Visit our web site at www.equiptoelec.com for the latest technical data or a price quote



Vertical Mounting Rails and Hardware

All items subject to availability at time order is placed.

Vertical Mounting Rails for Heavy Duty Racks

Vertical Mounting Rails are used for mounting equipment in the interior of the cabinet. They are fabricated of hot rolled steel, formed into a rugged structural angle shape with rolled edges to eliminate sharp edges. All Vertical Rack Cabinets are supplied with 4 punched Vertical Mounting Rails, two at the front and two at the rear of the cabinet frame. You may require additional Vertical Mounting Rails or you may need tapped rails. Whatever your requirement might be, please see the table below for size selection you need with your Vertical Rack Frame.

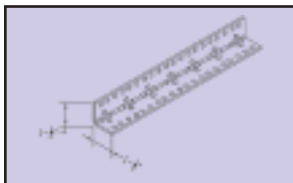


Vertical Mounting Rails are edge-rolled to eliminate sharp edges. They have 9/32" diameter holes.

VERTICAL MOUNTING RAILS For Vertical Rack Frames			
Overall Height Of Frame	Height of Panel Space	For Front Or Rear Openings Zinc Plated	
		Punched	Tapped
78 7/8"	70 1/8"	010-070-010	010-070-012
85 7/8"	77 1/8"	010-077-010	010-077-012

Challenger Vertical Mounting Rails

The Vertical Mounting Rails are formed of 11-gauge cold rolled steel with 9/32" diameter holes spaced to comply with the Universal E.I.A. Standard RS-310. Tapped Vertical Mounting Rails are tapped on one leg only. Additional hardware can be ordered as needed.



Vertical Mounting Rails are constructed of 11-gauge steel with rolled edges to eliminate sharp edges.

ZINC PLATED VERTICAL MOUNTING RAILS		
Height of Panel Opening	Part No.	
	Perforated	Tapped
70"	01-7001-02	01-7002-02
78 3/4"	01-7801-02	01-7802-02

Heavy Duty Hardware

257-002-005



Mar-Proof Screws and Speed Nuts® for mounting flat or 5/8" Formed Instrument Panels

Phillips Head sheet metal screws, with recessed Mar-Proof black nylon washers and Speed Nut®, Part 257-002-005 are used to fasten Instrument Panels to *punched* Vertical Mounting Rails. Screw 80-0101-05, 10B x 1 1/8" is used with 5/8" formed panels while screw 80-0102-05 10B x 5/8" is used with flat panels. Screws are zinc plated.

80-0101-05

80-0102-05

251-011-004



Mar-Proof Screws and Speed Nuts® for mounting Rear, Front and Flush Filler Panels

Rear Panels, Flush Filler Panels, and Front Panels are mounted in the cabinet frame recess, but fastened to the *punched* Vertical Mounting Rails with Phillips Head sheet metal screws, 10B x 2", Part 251-011-004 with recessed Mar-Proof black nylon washers and Speed Nuts®, part 257-002-005. Screws are zinc plated.

257-002-005

Mar-Proof Machine Screws for mounting Flat or 5/8" Formed Instrument Panels

If *tapped* Vertical Mounting Rails have been substituted for punched rails, the flat or 5/8" Formed Instrument Panels are fastened to the mounting rails with 10-32 Phillips Head machine screws used with a Mar-proof recessed black nylon washer. They are Part no. 80-0201-05, zinc plated.



80-0201-05

Screws and Speed Nuts® for mounting Rail Support Channels and Top Panels

The Top Panel and Rail Support Channels are fastened to all Vertical Rack and Sloped Front Cabinet frames with 10BA x 23/32" Phillips Hex Head sheet metal screws, Part 286-005-004 and Speed Nuts®, part 80-0405-03. The screws are zinc-plated.



286-005-004

Cage Nuts and Screws for attaching Vertical Mounting Rails to Rail Support Channels

Vertical Mounting Rails are attached to Rail Support Channels with 1/4-20 x 3/4" Hex Head Sems machine screws, Part 80-0304-03, and 1/4-20 cage nuts, Part 286-004-004. When attached to fixed brackets, the angles are fastened with the same screws engaging 1/4-20 spot-weld nuts. Screws and Cage Nuts are zinc plated.



286-004-004

80-0304-03

Sheet Metal Screws and Speed Nuts® for mounting screw type side panels

Screw fastened Flush Side Panels for Vertical Rack and Sloped Front Cabinets mount in the recess of the frame side. They are fastened from inside of the frame by 10BA x 23/32" Phillips Head sheet metal screws, Part 286-005-004 and Speed Nuts®, Part 285-004-005. The screws are zinc-plated.



285-004-005

286-005-004

Challenger Hardware

80-0101-05



Mar-Proof Screws and Speed Nuts® for mounting Flat or 5/8" Formed Instrument Panels

Phillips Head sheet metal screws, with recessed Mar-Proof black nylon washers and Speed Nuts® are used to fasten Instrument Panels to *punched* Vertical Mounting Rails. Screw 10B x 1 1/8" is used with 5/8" formed panels, while 10B x 5/8" is used with flat panels. Screws are zinc plated.

80-0102-05

257-002-005

Mar-Proof Machine Screws for mounting Flat or 5/8" Formed Instrument Panels

If *tapped* Vertical Mounting Rails have been substituted for punched rails, the 1/8" Flat or 5/8" Formed Instrument Panels are fastened to the mounting rails with 10-32 Phillips Head machine screws in 1/2" or 1" sizes and used with a Mar-proof recessed black nylon washer. They are zinc-plated.



80-0201-05

286-005-004



Screws and Speed Nuts® for mounting Vertical Mounting Rails

The Vertical Mounting Rails are fastened to all Vertical Rack Cabinet frames with 10B x 23/32" Phillips Head sheet metal screws, and Speed Nuts®. The screws are zinc-plated.

80-0405-03



80-0304-03

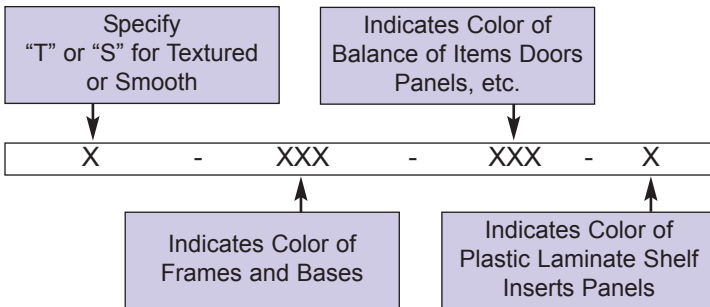
Screws and Speed Nuts® for mounting Vertical Mounting Rails

When joining frames in multiple bays use 1/4-20 x 3/4" Hex Head Sems machine screws and 1/4-20 Hex Keps nuts. The screws and nuts are zinc-plated.

Ordering Instructions for Standard Colors

Heavy Duty, Challenger and Solid System Cabinets can be furnished in any combination of the standard semi-gloss colors shown. Normally the frame and the base are painted one color and the balance another color. Finishes can be smooth or textured.

Method for Ordering Paint Colors



For any other combination, consult factory.

Electronic Desk

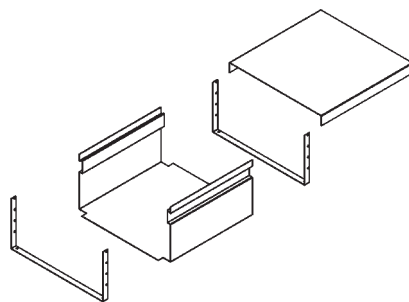
The Electronic Desk Line can be furnished in any combination of standard semi-gloss colors and laminated tops shown. Normally the underframes and pylons are painted one color and the balance another color. Textured paint is standard for this line. The tubular legs are black. For any other combination, consult factory.

Quiptron

The Quiptron Line is furnished with black legs and polished chrome feet. Order the remaining parts in any of 7 standard colors. You also have a choice of Oak, Walnut, or Eggshell White laminated tops. Static control tops are available in Off-White. Textured paint is standard for this line. For any other combination, consult factory.

Instrument Cabinets

Instrument Cabinets can be painted all one color or two-toned. Choose any combination of standard semi-gloss colors in textured finish.



Equipto Express Line

Express Line products may be ordered in any standard color shown in the color chart. To specify color, refer to the product line instructions listed above.



Example #1

Finish T-041-101-0
Indicates textured two-tone finish with frames and base painted Dove Grey and balance of the items Royal Blue. No plastic laminate tops.



Example #2

Finish S-051-051-2
Indicates smooth Satin Black all one color with walnut plastic laminate.



Add your paint no. to your order as follows:

Paint Number	Pylon & Underframe	Balance of Items	Top Color
(Textured Only)	XXX	XXX	X
Examples:	041	051	1
All One Color	101	101	2
If No Top Ordered	041	051	0



Add your paint no. to your order as follows:

Color Number	Leg-Black Foot-Chrome	Balance of Items	Top Color
(Textured Only)	"	XXX	X
Examples:	"	041	1
All One Color	"	101	2
If No Top Ordered	"	041	0

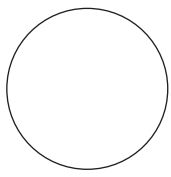


Add your paint no. to your order as follows:

Color Number	Top & Bezels	Bottom
(Textured Only)	XXX	XXX
Examples:	051	041
All One Color	101	101

Note: The following exceptions apply to Express Line orders:

- ▶ All Express finishes are textured.



Terms and Policies

Pricing Policy

EQUIPTO ELECTRONICS CORPORATION prices do not include sales tax, excise tax, or any other government charge upon production, sales or shipment of goods, now imposed or hereafter becoming effective which shall be added when, as and if applicable. ALL PRICES ARE SUBJECT TO CHANGE WITHOUT NOTICE.

TERMS: All EQUIPTO ELECTRONICS CORPORATION prices listed in this price list are F.O.B. our shipping dock, from our plant in Aurora, Illinois. Terms are Net 30 days.

A minimum charge of \$50.00 will apply to each order.

Addressing Orders

All orders must be addressed to EQUIPTO ELECTRONICS CORPORATION, 351 Woodlawn Avenue, Aurora, Illinois 60506-9988. All orders will be considered as offers to purchase only until they have been acknowledged by EQUIPTO ELECTRONICS CORPORATION. Orders will be acknowledged as promptly as possible.

Advance Orders

All orders received by phone, FAX, electronic mail, or otherwise considered advance orders, must be confirmed within seven (7) calendar days. The shipping date will be established from the date that the confirmation of an advance order is received in the offices of EQUIPTO ELECTRONICS CORPORATION in Aurora, Illinois.

Confirmation of Orders

Orders received in the office of EQUIPTO ELECTRONICS CORPORATION, in Aurora, Illinois, by telephone, mail, FAX, or electronic mail bearing a bonafide purchase order number, but not actually executed on the customer's purchase order form, must be confirmed within five (5) working days after receipt of the original offer to buy. If this does not take place shipment of such orders cannot be established and must be based on the date of official acknowledgement by EQUIPTO ELECTRONICS CORPORATION.

Cancellations, Changes or Substitutions

On orders comprised of standard catalog items, a charge may be applied when cancellations of, changes to, or substitutions on such orders are made, based on the manufacturing status of the order at the time that EQUIPTO ELECTRONICS CORPORATION is notified of such action at its offices in Aurora, Illinois,

and will be figured on the net price of the items involved. Charges will be based on but are not limited to the following: if the items being cancelled, changed, or substituted have been painted, the charge will be 10%; if painted and assembled 20%; and if painted and assembled and crated, 25%.

Where special items, or modifications of standard items, or orders calling for special finishes are involved, such orders will be subjected to a charge for cancellation, changes or substitutions, such charge to include the cost of manufacture to the date of the receipt of notification of a cancellation, change, or substitutions, by EQUIPTO ELECTRONICS CORPORATION at its offices in Aurora, Illinois, plus any outside purchases, additional handling and overhead charges that may be incurred.

Claims for Damage

All material is priced and shipped F.O.B. our plant in Aurora, Illinois. Claims for damaged material must be filed by the purchaser with the carrier. Transportation charges paid by the purchaser include the cost of insurance against damage to the material being shipped. EQUIPTO ELECTRONICS CORPORATION designs and test its packaging to meet the specifications set by the National Safe Transit Association.

Returned Goods

Written authorization must be obtained from EQUIPTO ELECTRONICS CORPORATION before material may be returned for credit. This authorization must be retained prior to the actual return of the material. Returned merchandise is subject to a 30% restocking charge. This charge is figured on the net price of the returned goods. No deductions are allowed in the payment of EQUIPTO ELECTRONICS CORPORATION invoices unless a credit memorandum has been issued by the Corporation. Material which was manufactured to special order, a modification of a standard item, obsolete design or material specially finished, or any materials retained more than 90 days after shipment, are not returnable for credit.

Changes in Design or Structure

In keeping with our basic intention to always present the most modern concept in sheet metal cabinetry and accessories for housing and installing electronic equipment and instrumentation, we will, from time to time make improvements in the design of the EQUIPTO ENCLOSURE SYSTEM and associated equipment. We reserve the right to make these product changes as and when

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they are deemed necessary.

Engineering Evaluation

We believe that, many times, it becomes almost impossible to determine exactly what type of enclosure should be purchased, or might be required, for a specific project or product. We further believe that a practical approach to this problem is to have a typical unit placed at the disposal of your Engineering Department for proper evaluation. In this manner, electronic equipment and instrumentation can actually be mounted in a given enclosure to determine, in the initial prototype stages, what type of enclosure will best meet your requirements.

Evaluation units are restricted to standard catalog items and do not include blowers, fans, or special or modified components unless specifically agreed to by the factory.

Engineering Evaluation units are available to your engineers upon application to our sales representative in your area. Units will be shipped to you, shipping charges prepaid. You may use the unit for 30 days, or longer, if necessary. After you have properly evaluated an EQUIPTO ENCLOSURE against your requirements, you may return it to us; your only cost would be the pre-payment of shipping charges back to our factory. Should you wish to purchase the unit, rather than return it, a discount of 25% may be applied against our published list prices.

When we offer you a typical unit for engineering evaluation, we expect that it may be returned to us scratched or damaged. If this did occur, you would entail no obligation to us. In fact if for certain evaluation purposes, like destructive testing, the unit may be damaged beyond repair, we will, upon proper application to the factory, extend to you written permission for destructive testing and final disposal of the unit at your facilities.

Engineering Drawings

Engineering drawings or CAD diskettes, showing such pertinent details as inside clearances, panel areas, over-all heights and widths, and other engineering information, are available to engineers upon request for any of the units in the EQUIPTO ENCLOSURE SYSTEM.

All Equipto Electronics Corporation drawings and CAD diskettes are on standard military format and are available with limited rights upon direct application to the Chief Engineer of Equipto Electronics Corporation. Anyone requesting CAD diskettes for their documentation will be required to sign a limited rights

agreement.

Guarantee

When used for the purpose for which it has been designed, and within the limits as specified, every item manufactured by EQUIPTO ELECTRONICS CORPORATION is guaranteed for one (1) year from the date of purchase against defective material and workmanship. This guarantee does not apply while material, manufactured by EQUIPTO ELECTRONICS CORPORATION, is in transit from our factory to the customer's designated receiving point.

Factory Representatives

EQUIPTO ELECTRONICS CORPORATION is represented by manufacturer's representatives in all of the Continental United States. EQUIPTO ELECTRONICS CORPORATION sales representatives are trained by the factory, through sales and engineering seminars, to discuss your enclosure problems with you and to solve them by recommending the proper units in the EQUIPTO ENCLOSURE SYSTEM that will best meet your specific requirements.

Pricing Notes

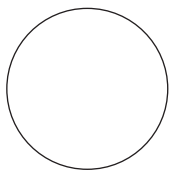
Prices for Heavy Duty and Challenger Vertical frames and Sloped Front frames include punched and plated Vertical Mounting Rails and the fasteners necessary to mount equipment in the frame. Prices do not include a base.

Prices for Heavy Duty and Challenger Angular frames include joining hardware, plain base, top panel and rear panel. Sloped Front angular frame prices also include a sloped front panel. Prices do not include Vertical Mounting Rails.

Prices for all Challenger and Solid System Bench Top frames are without Chassis Supports. If required, Chassis Supports must be ordered separately.

Desk assemblies (Heavy Duty Desks and Quiptron Work Stations) are shipped assembled.

Prices for all desks with Electronic Compartments include a plain bottom panel. If grilled panels are required, please speci-



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fy on your order and add \$25.00 per panel.

All Express Line prices are net and are not subject to discount.

Additional charges apply when joining Heavy Duty frames. Please contact the factory.

Finishes

The Standard Finish

The standard finish is a single coat of water based, semi-gloss baking enamel. There are seven standard colors available smooth or textured. All parts, sub-assemblies, and assemblies to be painted the standard finish, are thoroughly cleaned and chemically treated to ensure clean, properly etched surfaces for the application of the finish. The enamel, formulated to comply with Equipto Electronics Corporation specifications, is baked on to produce a finish of lasting beauty and durability.

Special Finishes and Colors

Orders of frames and components may be obtained in any desired color using a water based baking enamel formulated per the Equipto Electronics standard finish at no additional charge. To match colors, a 3" x 3" paint chip (minimum size, painted on steel) or the Federal Standard 595 A or B color number must accompany each order for a special color.

Additional finishing operations such as priming, oil-based paints and powder coating are also available to match custom requirements. All special finishes must be quoted from factory. Please

contact see below or contact us for details.

Charges for Special Finishes and Colors are as follows:

The charges below that follow are based on Equipto Electronics finishing a complete assembly including frame, doors, panels and accessories. Charges for less than complete assemblies, such as a door or accessory, will be calculated on a case by case basis based on availability of the finish.

1. One (1) coat of special color: no extra charge
2. Two (2) coats, mono-baked, of the same color, standard or special: if the net selling price only these items being painted is less than \$3,000.00 add 10%, if more than \$3,000.00, a charge of 5% applies.
3. One Prime Coat, in addition to the Equipto Standard Finish, or in addition to a Special Color: if the net selling price of only these items being painted the prime finish is less than \$3,000.00 add 10%, if more than \$3,000.00 a charge of 5% applies.
4. Oiled only, phosphatized only, or phosphatized and oiled only: no additional charge.
5. Prime coat only: no additional charge.
6. Special Finishes such as vinyls, epoxy, acrylic, lacquer, powder coat or air dry enamels will be priced by the factory on an individual basis. We will decline the use of silicone bearing finishes.
7. Dual finishes: when items are painted one (1) color on the inside and a different color on the outside, prices will be quoted by the factory on an individual basis.