RITTAL XPRESS

ENCLOSURE 1 **ACCESSORY 2** **MODIFICATION 3**

THE FAST TRACK TO

CUSTOMIZED ENCLOSURES

FRIEDHELM LOH GROUP

RITTAL ®

IN 3 EASY STEPS

1 ENCLOSURE

2 ACCESSORY

3 MODIFICATION

THE GLOBAL INDUSTRIAL ENCLOSURE LEADER

Since 1961, Rittal has designed and manufactured the world's most comprehensive offering of affordable, reliable, and durable industrial enclosures. Our cabinets can be found all over the world in some of the most rugged and demanding environments, helping companies large and small power their manufacturing operations.

Responding to market demand for fast, versatile and cost-effective cabinets, Rittal invented the modular enclosure. Modular enclosures are different from traditional welded boxes: they're flexible, they're fast, and they can be configured straight from stock. In 2000, we changed the industrial enclosure landscape with the introduction of the TS8 Industrial Modular Enclosure. The TS8 represents a quantum leap in packaging technology and has revolutionized the industrial workplace with a host of features that leaves its competitors in the dust:

- Its patented 16-fold frame provides exceptional strength and durability.

- The TS8 mounting panel holds weight loads up to 1,500 lbs.

- The TS8's 25 mm hole pattern allows height, width and depth mounting of components and accessories for maximum space utilization.

- The perfectly symmetrical frame neatly sits in a row, corner or even back-to-back.

- The unique **4-point locking** system provides a perfect seal every time you close the TS8 for the life of the enclosure.

- Its e-coat primer and powder paint offer superior corrosion resistance.

- Cable entry plates on the bottom allow for easy wiring and cable access.

- UL/cUL Type 1, 3R, 12, 4, 4X/UL TYPE 1, 12, 3R, 4 & 4X protection

- The TS8 is paired with the industry's most extensive range of accessories.

As the world's leading enclosure manufacturer, Rittal combines durability, aesthetics, carefully crafted functionality and exceptional value to create the cabinets that power the industry. Regardless of your enclosure requirements, Rittal has the flexibility and know-how to deliver the products you need. And with our new Rittal Xpress program, we can deliver them to you straight from stock, on a budget and in a timeframe that works for your business.

1.800.477.4000 • WWW.

INDUSTRIAL ENCLOSURES THE WAY YOU WANT THEM, WHEN YOU NEED THEM.

At Rittal, we're committed to getting enclosures to our customers on tight schedules, moving as quickly as the demands of their business. Our new Rittal Xpress program offers two options for the quick customization and shipping of our premier enclosures, straight from stock to your doorstep in as few as 1 to 5 days!

1 Day Program

We will package the exact Rittal cabinet and accessories you want, ready for you to configure, shipped within 24 hours of receipt of your purchase order. Here's all you do:

Simply order your ideal enclosure(s) and accessories from our Rittal Xpress product guide on pages 4 and 5, and we'll ship your order within one day.

5 Day Program

Give us five days and we'll make things even easier by assembling and customizing your Rittal Xpress order to your unique specifications:

1. Choose your modular TS8 enclosure(s).

2. Configure each cabinet to your exact specifications, including accessories and cutouts.

3. Complete our 5-day RFQ online at www.rittal-corp.com/rittalxpress/modular, or fax us the completed 5-day RFQ from pages 7 and 8 of this catalog along with your own cutout drawings. We'll promptly return a quote for your enclosures. Once we receive your purchase order, we'll ship your enclosures – assembled, modified, and ready-to-use within five days.

VERSATILITY, STRENGTH, AND COST-EFFECTIVENESS ARE THE INNOVATIVE FEATURES OFFERED BY RITTAL'S TS8 MODULAR ENCLOSURE SYSTEM.

1-DAY PROGRAM

RITTAL ENCLOSURES: OFF THE SHELF & ON THEIR WAY WITHIN 24 HOURS

1-Day ordering is this easy! Step 1: Select your enclosure(s) from the product guide below. Step 2: Select the type and quantity of accessories you need from the product guide. Provide Rittal with an RFQ that specifies the enclosure(s) and accessories that you need, and we'll turn around a speedy quote. Then, simply submit an order through your existing ordering process, and we will ship your order within 24 hours. If you would like your enclosure(s) assembled and customized continue to Rittal's 5-day program, which is Step 3: Configure your cabinet to your exact specifications by completing the provided RFQ beginning on page 7.

RITTAL XPRESS PRODUCT GUIDE

STEP 1: ENCLOSURES

TS8 Freestanding Enclosures

Part No.	Code*	Height (inches/mm)	Width (inches/mm)	Depth (inches/mm)	Doors	MOQ[1]
8084500	A	72/1800	40/1000	16/400	2	5
8884500	B	72/1800	32/800	16/400	1	5
8284500	C	72/1800	48/1200	16/400	2	5
8204500	D	80/2000	48/1200	16/400	2	5
8005500	E	80/2000	40/1000	20/500	2	5
8205500	F	80/2000	48/1200	20/500	2	12
8285500	G	72/1800	48/1200	20/500	2	5
8605500	H	80/2000	24/600	20/500	1	5
8805500	I	80/2000	32/800	20/500	1	12
8885500	J	72/1800	32/800	20/500	1	10
8901420	K	80/2000	72/1800	20/500	2	5
8006500	L	80/2000	40/1000	24/600	2	9
8026500	M	88/2200	40/1000	24/600	2	10
8206500	N	80/2000	48/1200	24/600	2	12
8226500	O	88/2200	48/1200	24/600	2	10
8606500	P	80/2000	24/600	24/600	1	10
8626500	Q	88/2200	24/600	24/600	1	12

TS8 Freestanding Enclosures (continued)

Part No.	Code*	Height (inches/mm)	Width (inches/mm)	Depth (inches/mm)	Doors	MOQ[1]
8686500	R	72/1800	24/600	24/600	1	5
8806500	S	80/2000	32/800	24/600	1	12
8826500	T	88/2200	32/800	24/600	1	12
8886500	U	72/1800	32/800	24/600	1	5
8208500	V	80/2000	48/1200	32/800	2	7
8608500	W	80/2000	24/600	32/800	1	10
8808500	X	80/2000	32/800	32/800	1	12

TS8 Flange Mount Disconnect Freestanding Enclosures

Part No.	Code*	Height (inches/mm)	Width (inches/mm)	Depth (inches/mm)	Doors	MOQ[1]
8984500	Y	72/1800	32/800	16/400	1	5
8905500	Z	80/2000	32/800	20/500	1	5
8985500	AA	72/1800	32/800	20/500	1	5
8995500	AB	80/2000	40/1000	20/500	2	5
8906500	AC	80/2000	32/800	24/600	1	6
8996500	AD	80/2000	40/1000	24/600	2	5

*Please reference these quickcodes when completing the Rittal XPress 5-Day RFQ.

STEP 2: ACCESSORIES

Bases

Part No.	Code*	Description	MOQ[1]
8601600	–	4"H x 24"W (100 mm x 600 mm) Front and Rear Plinth Components	100
8601800	–	4"H x 32"W (100 mm x 800 mm) Front and Rear Plinth Components	250
8601000	–	4"H x 40"W (100 mm x 1000 mm) Front and Rear Plinth Components	50
8601200	–	4"H x 48"W (100 mm x 1200 mm) Front and Rear Plinth Components	60
8601040	–	4"H x 16"D (100 mm x 400 mm) Side Plinth Components	30
8601050	–	4"H x 20"D (100 mm x 500 mm) Side Plinth Components	100
8601060	–	4"H x 24"D (100 mm x 600 mm) Side Plinth Components	100
8601080	–	4"H x 32"D (100 mm x 800 mm) Side Plinth Components	300

Sidewalls

Part No.	Code*	Description	MOQ[1]
8184235	–	72"H x 16"D (1800 x 400 mm), Pair	10
8185235	–	72"H x 20"D (1800 x 500 mm), Pair	10
8186235	–	72"H x 24"D (1800 x 600 mm), Pair	10
8104235	–	80"H x 16"D (2000 x 400 mm), Pair	5
8105235	–	80"H x 20"D (2000 x 500 mm), Pair	20
8106235	–	80"H x 24"D (2000 x 600 mm), Pair	30
8108235	–	80"H x 32"D (2000 x 800 mm), Pair	30
8126235	–	88"H x 24"D (2200 x 600 mm), Pair	30

*Please reference these quickcodes when completing the Rittal XPress 5-Day RFQ.

[1] MOQ (Maximum Order Quantity) – The maximum pieces that Rittal will ship to one customer in a 5-day period under the Rittal Xpress Program.

### Baying Brackets

Part No.	Code*	Description	MOQ[1]
8800430	–	Corner Bracket, PU 4	200
8800500	–	Quick Wedge, PU 6	250

Locks

Part No.	Code*	Description	MOQ[1]
8611020	A	TS8 Comfort Handle for use with Lock Insert	150
8611290	B	Comfort Handle use w/ Lock Insert & Padlock Styles	80
8611200	C	TS8 Pushbutton Lock Insert	60

Interlocking Kits

Part No.	Code*	Description	MOQ[1]
2419000	–	Electrical Interlock, 120V AC	12
4912000	–	Slave Door Interlock Activator for Master Door	24
4911000	–	Slave Door Interlocking Kit	30
4916000	–	Interlock Bars 24"W (600 mm) 10 PK	8
4918000	–	Interlock Bars32"W (800 mm) 10 PK	8
4920000	–	Interlock Bars 48" W (1200 mm) 10 PK	24

Interior Accessories

Part No.	Code*	Description	MOQ[1]
4638600	–	Folding Utility Shelf for 24"W (600 mm) Door	5
4638800	–	Folding Utility Shelf for 32"W (800 mm) Door	5
2514000	–	Drawing Pocket Plastic	50

Lights

Part No.	Code*	Description	MOQ[1]
9968111	A	US Receptacle RC Filter Light Cover 14 W/110v/60Hz	60
9968112	B	US Receptacle RC Filter Light Cover 18 W/110v/60Hz	60
4155500	C	Universal Light, 26 W, UL	10
4315150	D	Connection Cable for Universal Light (required)	5
4315450	E	Connection Cable for Through-Wiring of Universal Lights	5

Partial Mounting Panels

Part No.	Code*	Description	MOQ[1]
8614660	–	Partial Mounting Panel 20" x 20" (500 x 500 mm)	20
8614840	–	Partial Mounting Panel 12" x 28" (300 x 700 mm)	5
4591700	–	Joining Piece for Mounting Panel, 80"H (2000 mm)	30
4592700	–	Joining Piece for Mounting Panel, 88"H (2200 mm)	7
4590700	–	Joining Piece for Mounting Panel, 72"H (1800 mm)	7
8880009	–	Support for TS8 Mounting Panel, PU 10	12

Ground Bar

Part No.	Code*	Description	MOQ[1]
7113000	A	18" Grounding Rail (200A)	120
2568000	B	GND Straps, 5 AWG, 12"L PU 5	10
2565000	C	GND Straps, 5 AWG, 7"L PU 5	10
2412316	D	EMC Braided GND Strap 5 AWG, 12"L PU 10	30

Outlet Filters

Part No.	Code*	Description	MOQ[1]
3321207	A	For Fan 3321117, 5"2	100
3322207	B	For Fan 3322117, 6"2	200
3323207	C	For Fan 3323117, 8"2	600
3325207	D	For Fan 3324117, 10"2	400
3326207	E	For Fan 3326117, 13"2	200

Enclosure Air Conditioners

Part No.	Code*	BTUs	Voltage	MOQ[1]
3302110	A	1090	115	12
3302100	B	1090	230	12
3303110	C	2083	115	12
3303100	D	2083	230	6
3304110	E	3620	115	10
3304100	F	3620	230	10
3304140	G	3620	400/460	10
3305110	H	5157	115	5
3304100	I	5157	230	10
3304140	J	5157	400/460	10
3328110	K	8026	115	2

Fans

Part No.	Code*	CFM	Voltage	MOQ[1]
3321117	A	15	115	80
3321107	B	15	230	12
3322117	C	40	115	100
3322107	D	40	230	12
3323117	E	70	115	150
3323107	F	70	230	30
3324117	G	105	115	5
3324107	H	105	230	5
3325117	I	160	160	150
3325107	J	160	230	200
3326117	K	330	115	60
3326107	L	330	230	30
3327117	M	425	115	100
3327107	N	425	230	60

System Chassis

Part No.	Code*	Description	MOQ[1]
8612140	–	W/D 16" (400 mm), outer mounting level, PU 4	2
8612150	–	W/D 20" (500 mm), outer mounting level, PU 4	30
8612160	–	W/D 24" (600 mm), outer mounting level, PU 4	100
8612180	–	W/D 32" (800 mm), outer mounting level, PU 4	120
8612040	–	W/D 16" (400 mm), inner mounting level, PU 4	5
8612050	–	W/D 20" (500 mm), inner mounting level, PU 4	50
8612060	–	W/D 24" (600 mm), inner mounting level, PU 4	100
8612080	–	W/D 32" (800 mm), inner mounting level, PU 4	200
8612550	–	W/D 20" (500 mm), inner mounting level, beveled, PU 4	10
8612560	–	W/D 24" (600 mm), inner mounting level, beveled, PU 4	10
8612580	–	W/D 32" (800 mm), inner mounting level, beveled, PU 4	40
4169000	–	System Bars, 12" (295 mm), PU 12	5
4170000	–	System Bars, 16" (395 mm), PU 12	10
4171000	–	System Bars, 20" (495 mm), PU 12	24
4172000	–	System Bars, 28" (695 mm), PU 12	50
8800370	–	Mounting Bracket, PU 24	10
4179000	–	M6 Slide Nuts, PU 20	120
4162000	–	M6 Threaded Block, PU 50	60
4164000	–	M6 Retaining Cage Nut, PU 50	16
2504500	–	M6 x 12 mm Torx Screw, PU 300	8
2486500	–	BZ 5.5 x 13 Multi-Tooth Screw, PU 300	50

*Please reference these quickcodes when completing the Rittal XPress 5-Day RFQ.

[1]MOQ (Maximum Order Quantity) – The maximum pieces that Rittal will ship to one customer in a 5-day period under the Rittal Xpress Program.

5-DAY PROGRAM

RITTAL MODIFICATIONS

Rittal Xpress offers a comprehensive selection of accessories and modifications for fully-assembled enclosures in just five days from receipt of your RFQ.

STEP 3: MODIFICATIONS LOCATIONS & OPTIONS FOR FIVE-DAY DELIVERY

1. ENCLOSURE BAYING KIT

One corner bracket in each corner, two wedges on each vertical member, 1 wedge on each horizontal member.
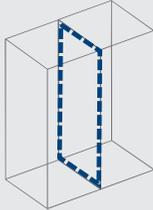
2. WITH OR WITHOUT MOUNTING PANEL

With Panel   Without Panel
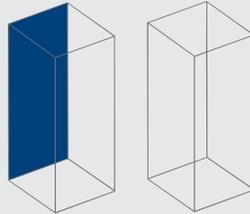
3. DOOR HINGE

Left   Right
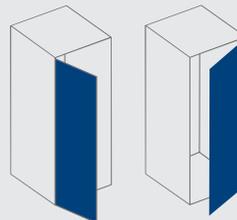
4. DUAL ACCESS DOOR(S)

Doors installed front and rear.

5. BACK-TO-BACK MOUNTING PANELS

Installed back-to-back, centered on the depth of the enclosure.
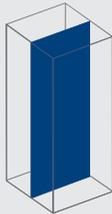
6. INSTALL BASES

Four-inch base for cable management.
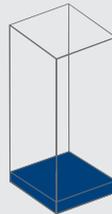
7. INSTALL SIDEWALLS

Sidewalls installed on both ends.

8. INSTALL DOOR HANDLES

Handle installed.
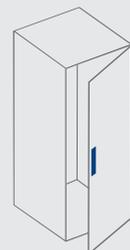
9. INSTALL SAFETY DOOR INTERLOCKS

Mechanical   Electrical

10. INSTALL LIGHTS

1-Door   2-Door
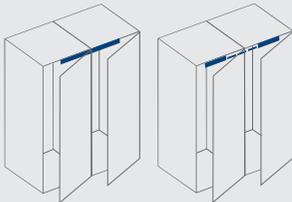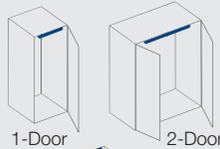
w/ Back-to-Back Mounting Panel

11. INSTALL AIR CONDITIONERS

Identify the location and apply the code to the configuration chart.

	Left Wall	Door	Right Wall
Wallmount A/C	L1	D1	R1
	L2	D2	R2

12. INSTALL FANS

Identify the location and apply the code to the configuration chart.

	Left Wall	Door	Right Wall
Fan	L1	D1	R1
	L2	D2	R2
	L3	D3	R3

13. INSTALL OUTLET FILTERS

Identify the location and apply the code to the configuration chart.

	Left Wall	Door	Right Wall
Outlet Filters	L1	D1	R1
	L2	D2	R2
	L3	D3	R3

14. INSTALL SYSTEM CHASSIS

Systems chassis can be installed:

- On the left, right, and/or rear interior surface of the enclosure.
- On the inner or outer mounting level of the enclosure frame.
- In 25 mm increments starting from the bottom of the cabinet.

15. PRINT POCKETS

Pocket is placed near the bottom of each installed door.
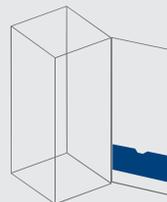
16. INSTALL FOLDING UTILITY SHELF

Shelf is placed at center of each installed door.

17. CUTOUTS

Rittal Xpress delivers a comprehensive offering of cutouts for your ideal enclosure. If you would like us to add cutouts to your enclosure(s), go to www.rittal-corp.com/rittalxpress/cutouts to download our enclosure drawings. Place your cutouts on the drawings and submit with your RFQ.

5-DAY ORDERING IN JUST 3 EASY STEPS: 1) CABINET, 2) ACCESSORIES, AND 3) MODIFICATIONS.

Configuring modular enclosures has never been easier. Log onto **www.rittal-corp.com/rittalxpress/modular and complete our real-time configurator**. Or fill out this request for quotation and fax it to 1-800-477-4003. Please note that our maximum shipping skid length is 196" or five enclosures. If your enclosure suite exceeds either threshold, fill out one form for each skid. Once complete, we will e-mail a quotation. Once we receive your RFQ, we'll ship within five days.

Your Company_____ Your Phone_____ Your Zip_____

Your Name_____Your E-mail_____ Your Account Number (if applicable)_____

Select Your Enclosure(s): What is the quickcode(s) for the enclosure(s) you would like? (Please enter the appropriate quickcode, working from left to right until you've included all of the enclosures in your order.)

1)_____ 2)_____ 3)_____ 4)_____ 5)_____

1. **Bay Enclosures:** Would you like us to bay your enclosures? Yes: _____ No: _____

2. **Mounting Panel:** Please indicate which enclosures require a mounting panel by marking the appropriate enclosure image(s) with an X.

3. **Door Hinge:** Please indicate on which side each door should be hinged by entering "L" for "Left" or "R" for "Right" on the appropriate enclosure image.

4. **Install Dual Access Door(s):** Please indicate which, if any, of the enclosures require dual access doors i.e. both front and rear by marking the appropriate enclosure image(s) with an X.

5. **Install Back-to-Back Mounting Panels:** Please indicate which, if any, of the enclosures will contain back-to-back mounting panels by marking the enclosure image(s) with an X.

6. **Install Bases:** Would you like us to install 4-inch bases on your cabinet to allow for cable management? Yes: _____ No: _____

7. **Install Sidewalls:** Would you like us to install sidewalls on your enclosure(s)? Yes:_____ No:_____

8. **Install Door Handle(s)**: Please indicate the type of door handle you would like for each of your cabinets by writing the product code beneath the appropriate enclosure image(s). (Door handles/locks are located on page 5 of this catalog)

1)_____ 2)_____ 3)_____ 4)_____ 5)_____

9. **Install Safety Door Interlocks:** Please indicate with an X if you would like mechanical or electrical safety door interlocks for your enclosures.
Mechanical: _____ Electrical:_____ Neither: _____

Please indicate which enclosure is the master. (Mark an X on only one enclosure.)

10. **Install Lights:** Please indicate if you would like us to install lights in your enclosure(s) by writing the quickcode of the light you would like beneath the appropriate enclosure image.

1)_____ 2)_____ 3)_____ 4)_____ 5)_____

11. Install Air Conditioner(s): If you would like us to add an air conditioner to your enclosure(s), please write its quickcode below the appropriate enclosure image. Indicate where on the enclosure you would like us to place that air conditioner by writing the corresponding position code in the appropriate provided space. Finally, tell us how we should mount the air conditioner by circling the appropriate letter: E for external, M for middle or F for flush. (Quickcodes and position codes are located on page 5 of this catalog.)

Quickcode 1)_____ 2)_____ 3)_____ 4)_____ 5)_____

Position Code 1)_____ 2)_____ 3)_____ 4)_____ 5)_____

Mounting E M F E M F E M F E M F E M F

12. Install Fan(s): If you would like us to add a fan to your enclosure(s), please indicate which fan you would like by writing its quickcode below the appropriate enclosure image. Indicate on that same image where you would like us to place that fan by writing the corresponding position code. (Quickcodes and position codes are located on page 5 of this catalog.)
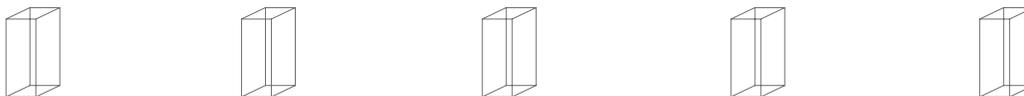
Quickcode 1)_____ 2)_____ 3)_____ 4)_____ 5)_____

Position Code 1)_____ 2)_____ 3)_____ 4)_____ 5)_____

13. Install Outlet Filter(s): If you would like us to add an outlet filter to the fan on your enclosure(s), please indicate which outlet filter you would like by writing its quickcode below the appropriate enclosure image. Indicate on that same image where you would like us to place that outlet filter by writing the corresponding position code. (Quickcodes and position codes are located on page 5 of this catalog.)
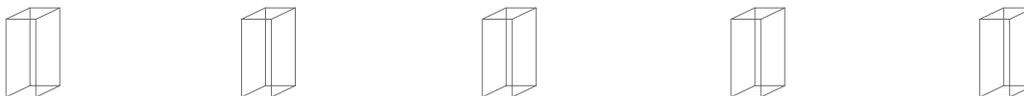
Quickcode 1)_____ 2)_____ 3)_____ 4)_____ 5)_____

Position Code 1)_____ 2)_____ 3)_____ 4)_____ 5)_____

14. Install System Chassis: If you would like us to install a system chassis in your enclosures, please use the matrix below to indicate under the appropriate enclosure image where the chassis should be installed. Tell us whether we should install on the inner (I) or outer (O) mounting level of the frame; on which surface we should install the chassis: left (L), right (R), and/or back (B); and the height at which we should install them on the frame (in 25 mm increments starting from the bottom of the frame).
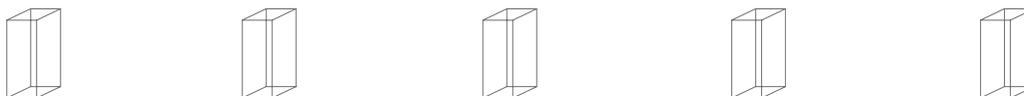
Mounting Level	Surface	Height (in mm)	Mounting Level	Surface	Height (in mm)	Mounting Level	Surface	Height (in mm)	Mounting Level	Surface	Height (in mm)	Mounting Level	Surface	Height (in mm)
I O	L R B	_____	I O	L R B	_____	I O	L R B	_____	I O	L R B	_____	I O	L R B	_____
I O	L R B	_____	I O	L R B	_____	I O	L R B	_____	I O	L R B	_____	I O	L R B	_____
I O	L R B	_____	I O	L R B	_____	I O	L R B	_____	I O	L R B	_____	I O	L R B	_____
I O	L R B	_____	I O	L R B	_____	I O	L R B	_____	I O	L R B	_____	I O	L R B	_____
I O	L R B	_____	I O	L R B	_____	I O	L R B	_____	I O	L R B	_____	I O	L R B	_____
I O	L R B	_____	I O	L R B	_____	I O	L R B	_____	I O	L R B	_____	I O	L R B	_____

15. Print Pockets: Please indicate which, if any, of the enclosures will contain a print pocket by marking the appropriate enclosure image(s) with an X. (The default location for the print pocket is shown on page 5 of this catalog.)

16. Install Folding Utility Shelf: Please indicate which, if any, of the enclosures will contain a folding utility shelf by marking the appropriate enclosure image(s) with an X. (The default location for the shelf is shown on page 5 of this catalog.)
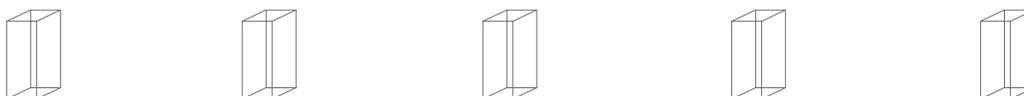
17. Cutouts: Rittal Xpress delivers a comprehensive offering of cutouts for your ideal enclosure. If you would like us to add cutouts to your enclosure(s), **go to www.rittal-corp.com/rittalxpress** to download our enclosure drawings. Place your cutouts on the drawings and submit with your RFQ.

Please fax your completed RFQ(s) to 1-800-477-4003.

Rittal Industrial Solutions

Industrial Enclosures

Wallmount Enclosures

System Climate Control

Power Distribution

IT Solutions

HMI Enclosures
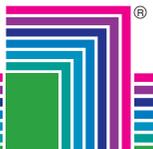
Switch to perfection   **RITTAL** ®