

# GET OUT OF YOUR OLD BOX...



**And Get Into the Latest  
Technology Hazardous  
Location Circuit Breaker  
Panels From STAHL.**

**STAHL**

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For decades the only explosion-resistant technology available has been the cast metal enclosure systems designed for Class 1, Division 1 environments. But today, over 85% of installations are actually Division 2 locations.

**STAHL is excited to introduce the latest technology in Division 2 circuit breaker panels.** These panels are designed to save money on installation costs and maintenance costs, while extending the life of the panel, and minimizing safety risks



## 1 Traditional Old Style INSTALLATION: Challenges.

- 42 circuit panel can weigh over 300 lbs.
  - Special lifting equipment required
    - **Costs you more**
  - Requires extra manpower
    - **Increases labor cost**
- May need heavy C-Channel for support
  - **Increases material and labor cost**
- Requires Conduit Seal
  - **Additional material cost and 45 minute labor cost per seal**



2

## Traditional Old Style SERVICING: Challenges.

- 2 hours to replace a Breaker
  - **Additional labor costs**
- Dozens of bolts to remove
  - **Additional labor costs**
- Issues in adding a breaker
  - Break out old conduit seals to add wires
    - **Additional labor costs**
  - Impracticalities adding new conduit entries
    - **Difficult to drill and tap new entries**
- Bolts must be torqued when replaced
  - **Extra labor cost**
- Outside switches may misalign during reassembly
  - **Unproductive labor time**
- Burdensome cover and loose/lost bolts are problems
  - **Additional replacement costs**



3

## Traditional Old Style SAFETY: Challenges.

- Safety is only as good as field maintenance
  - **Safety left to chance**
- Every bolt is a potential point of failure
  - **Missing or incorrectly tightened bolts can compromise explosion protection integrity of the system**
- Improperly poured/missing conduit seals
  - **Can cause a safety hazard**
- When leaving work site temporarily, potential to leave bolts unsecured or loosely tightened
  - **Creating a safety hazard**
- Corrosion in ground joint flanges compromises safety between cover and box
  - **You are put at risk**

## 1 STAHL Solution INSTALLATION: Benefits.

- 42 circuit panel weighs only 118 lbs.
  - **Almost a third the weight**
  - No special lifting equipment required
    - **Equipment cost saved**
  - Requires no extra manpower
    - **Labor cost saved**
  - No special welded supports required
    - **Material and labor cost saved**
- No Conduit Seals Required
  - **Material cost saved and 45 minute labor cost per conduit entry saved**



## THE SECRET IS IN THE BREAKERS.

STAHL's proprietary technology encapsulates explosion protection inside the breaker itself. This clever design eliminates the need for heavy cast metal enclosures, and conduit seals. It minimizes safety risks caused by incorrect maintenance of the bolts or improperly poured conduit seals. You can dramatically cut your installation and service labor costs while safety integrity is maintained.

**Overall Benefits:  
Drastically lower Labor Costs –  
Boost your profits**



## 2

### STAHL Solution SERVICING: Benefits.

- 15 minutes to replace a breaker (Save 1:45 per breaker)
  - **Labor saved**
- No bolts to remove
  - **Labor saved**
- Ease of adding a breaker
  - No seals to worry about
    - **Over 30 minutes in labor per conduit entry saved**
  - New entries can be punched in the field
    - **Great ease and flexibility**
- Bolts do not need to be torqued
  - **Labor cost saved**
- Switches cannot misalign during reassembly
  - **Labor time saved**
- No bolts (handle or captive screws only)
  - **Replacement costs saved**

## 3 STAHL SAFETY Solutions: Benefits

- Explosion Protection is built into every breaker
  - **Peace of mind – Safety increased**
- Captive Bolts or Latch make maintenance easy
  - **No points of failure – Safety enhanced**
- Explosion protection maintained when cover is opened
  - **Hazards diminished**
- No conduit seals to pose safety hazard
  - **Potential "Accidents" prevented**
- When leaving work site, just close the latch
  - **Panel secured – Peace of mind**
- Stainless steel or fiberglass reinforced polyester significantly reduces Corrosion of box
  - **Reducing hazards**



upstream or a main circuit breaker, STAHL can provide a custom solution for you.

# CUT INSTALLATION AND LABOR COSTS WHILE IMPROVING SAFETY



## Broz™ Circuit Breaker Panel from STAHL

- Class 1, Division 2, Groups B, C, D T4 Class 1, Zone 2, Groups IIC, IIB, IIA, T4 NEMA, CSA Types 3, 4 (4X optional), 12 IEC IP66
- Long-lasting Stainless Steel
- Quickly opens and closes with latch
- Easy to install – Quick to service
- Cuts labor costs by over 50%
- View Breakers through window
- Up to 40 amps/breaker
- 120/240/480 volts

## FRP Circuit Breaker Panel from STAHL

- NEC - Class 1, Zone 1 AEx de IIC T5 or T6 Class 1, Div. 2, Groups A,B,C&D CEC – Class 1, Zone 1 Ex de IIC T5 or T6 Class 1, Div. 2, Groups A,B,C&D Types 3, 4, 4X; IP66 ATEX Zone 1 and 2
- Corrosion Resistant – Won't rust or corrode
- Meets or exceeds NEMA 4 X corrosion standards
- Fiberglass Reinforced Polyester
- Durable, UV Resistant
- Ideal for petrochemical or salt air environments
- Easy to install – Quick to service
- View Breakers through window
- Up to 40 amps/breaker
- 120/240/480 volts



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