



# ***Crust Breaker Cylinder***

*For High Performance Aluminum Smelters*



- Energy Savings
- Longer Life
- Easy Maintenance
- Lower Carbon Emissions



***Increase Productivity and Reduce Production Costs***

# SMC Crust Breaker Cylinder

*Making a Difference!*



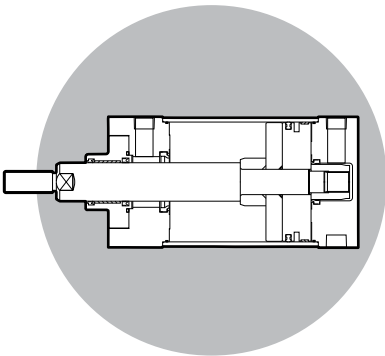
## Providing Energy Savings, Longer Service Life and Reducing Carbon Emissions.

- Special Dust Resistant Construction
- Special Heat Resistant Construction
- Special Anti-Lateral Load Construction

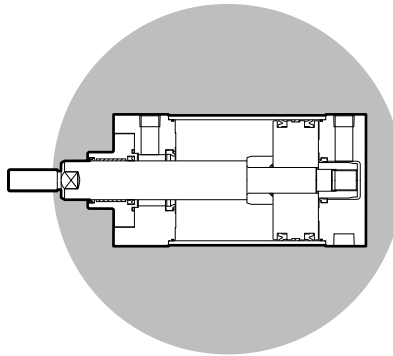
## Easy Maintenance

- Mounting dimensions same as current crust breaker cylinders
- Retaining plate reduces repair time for seal packing replacement

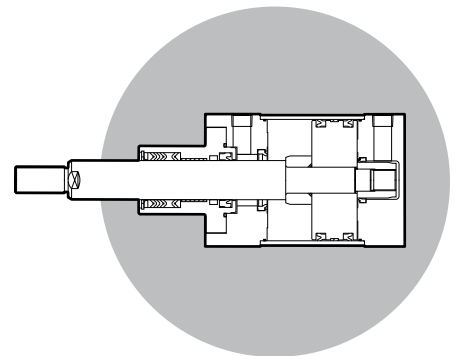
## Three models of Crust Breaker Cylinders to meet varying environmental conditions



Standard Cylinder



Medium Duty Cylinder



Heavy Duty Cylinder

# CO<sub>2</sub> reduction can be realized with SMC's Crust Breaker Cylinder

Typically carbon emissions can occur when a cylinder is not breaking the crust formed in a pot every time it is extended.

SMC Crust Breaker Cylinders continued dependability of no force lost do to any internal air leakage assures preventing increased CO<sub>2</sub> emissions due to higher pot temperatures.

SMC's Crust Breaker Cylinders performance can help provide approximately 45% reduction in CO<sub>2</sub> emissions. Helping the environment and reducing costs.



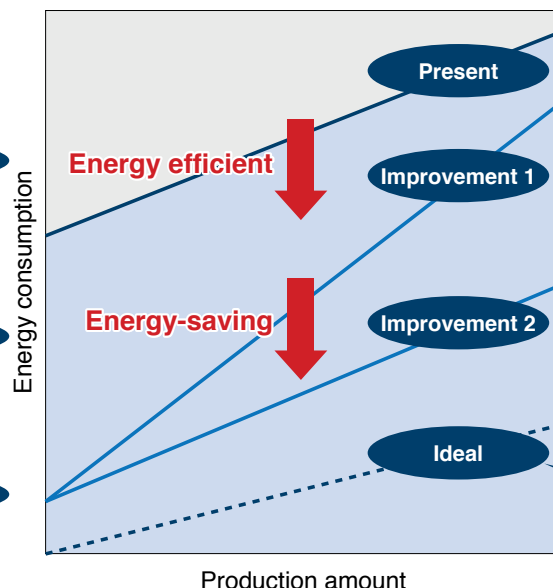
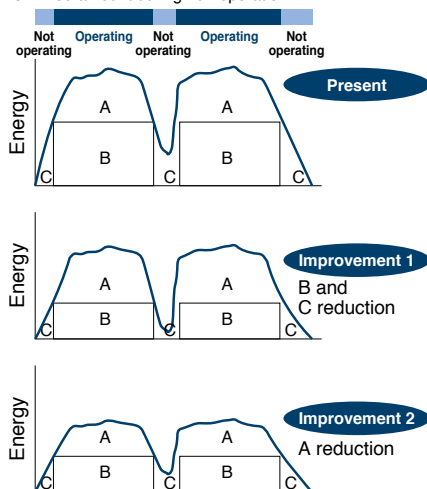
## SMC's approach to Energy Savings

Energy-saving measures can be divided into two main categories. They are either energy efficient or energy saving.

Easy-to-implement, effective measures with a priority on energy efficiency can help you take your energy savings to the next level!

### Factory production examples

A: Fluctuation amount in proportion to production  
B: Fixed amount during operation  
C: Fixed amount during non-operation



Energy efficient

Energy is only used when and where it is required. Eliminates wasted energy!

Energy-saving

Only the required amount of energy is used. Improves energy usage efficiency!

Consumption in proportion to the min. production ratio  
No air is consumed during non-operation!

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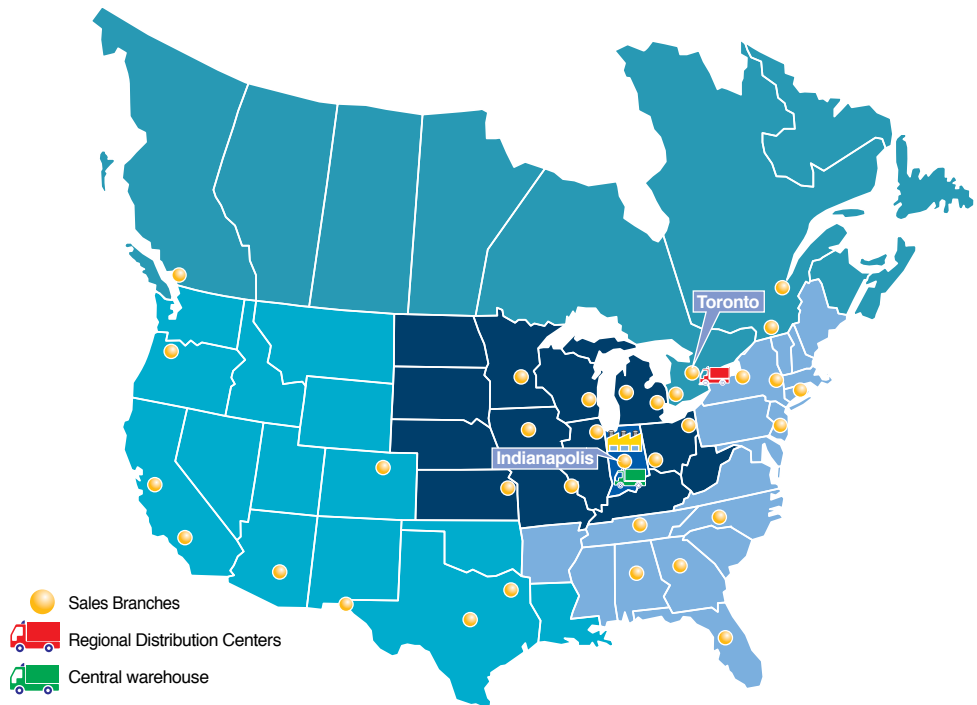
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