

INFLOTEK

Inflotek Screens for Potash Centrifuges

About Inflotek

- Manufacturing in the Netherlands
- Established 2012
- Specialist in centrifuge screens and components
- Proprietary micro water jet cutting and unique wear materials
- Customers world wide
- Experience in fine chemicals, mining, food, paper and more



Centrifuge specialists

Types

- Pusher centrifuges
- Screen bowl decanter centrifuges
- Screen scroll (Conturbex) centrifuges

Makes

- Andritz – Krauss Maffei, Bird
- Tema Siebtechnik
- Broadbent
- Ferrum
- Baker Perkins
- FLSmidt and others

Potash Customers

- Potash Corp of Saskatchewan – Canada (Bird screen-bowl)
- Dead Sea Works – Israel (Conturbex)
- Arab Potash Company (Conturbex and Andritz screen bowl)
- Uralkali (Ferrum pusher and Andritz screen bowl)
- QPP – China (Conturbex)
- Kali & Salz - Germany (Conturbex)

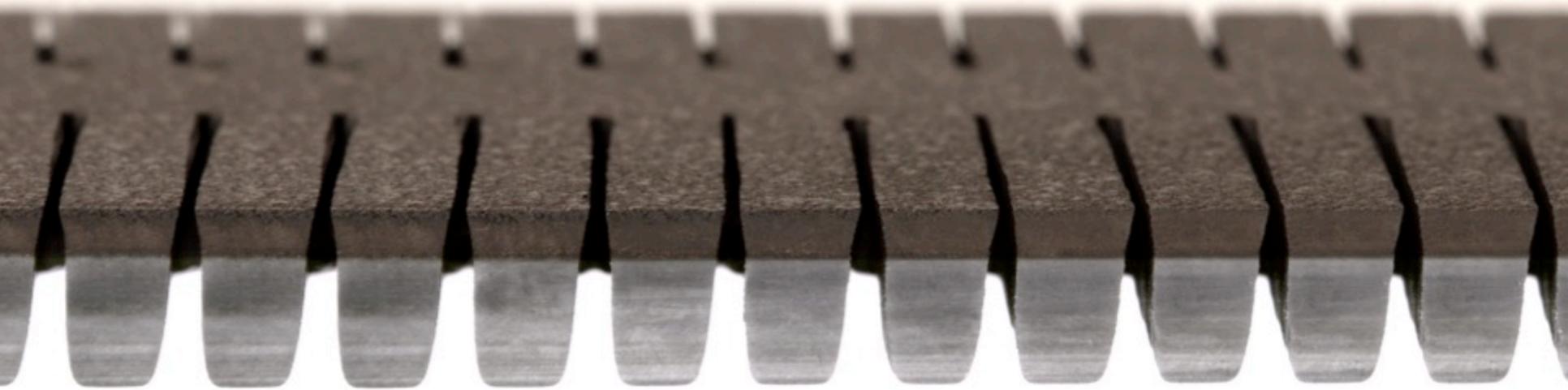
Inflotek Micro Water Jet Cutting

- Screens cut in flat state, then rolled and welded to shape
- Slot width of $80\mu\text{m}$ - $500\mu\text{m}$
- Perforation of any material
- Materials 1.5mm - 6mm thick
- Any slot shape and orientation
- High open areas if needed



Rockplate

- A unique material for extreme abrasion challenges
- Made by Inflotek in multiple configurations
- A carbide surface layer metallurgically bonded to a stainless steel substrate
- Perforated with Inflotek's proprietary water jet cutting process



Advantages of Rockplate

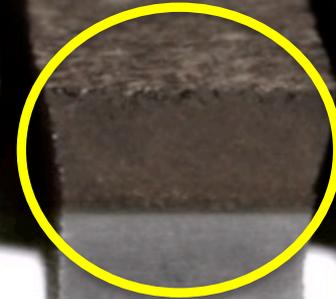
Carbide Hard Surface →



Difference in material hardness gives extra wide taper at slot entry
SUPERIOR SOLIDS RELEASE

Hard layer of 0.5mm to 2.0mm thick
THICKER THAN HARD CHROME OR HVOF

Diffusion bond between surface and substrate
NO CHIPPING, NO DELAMINATION

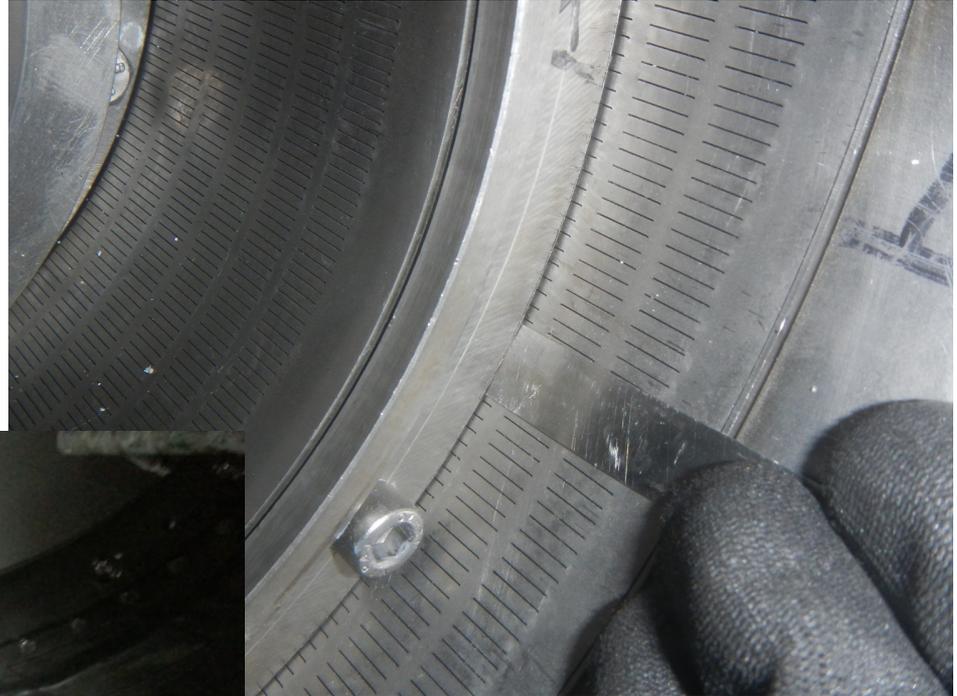


↑
Stainless Steel Substrate
↓

Pusher Centrifuge Screens

Advantages over OEM Screens

- Lower cost
- Faster installation
- Excellent fit



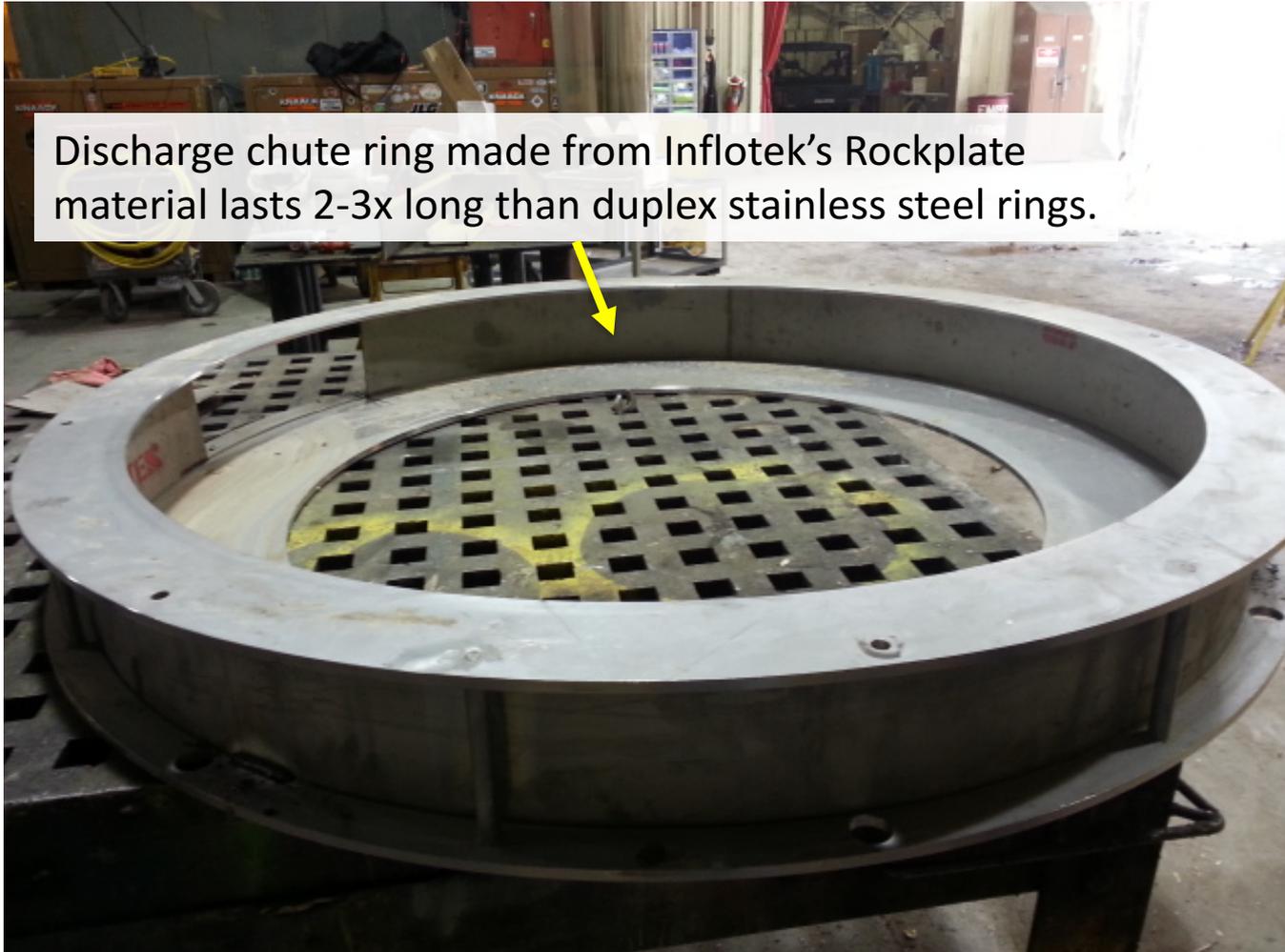
Pusher Screen Installation Tool

- Installation is fast and easy
- No need to remove screen support drum
- Four x 90 degree segments per stage.
- Optional tool to help with fitting makes installation faster and easier.



Pusher Discharge Chute Ring

Discharge chute ring made from Inflotek's Rockplate material lasts 2-3x long than duplex stainless steel rings.



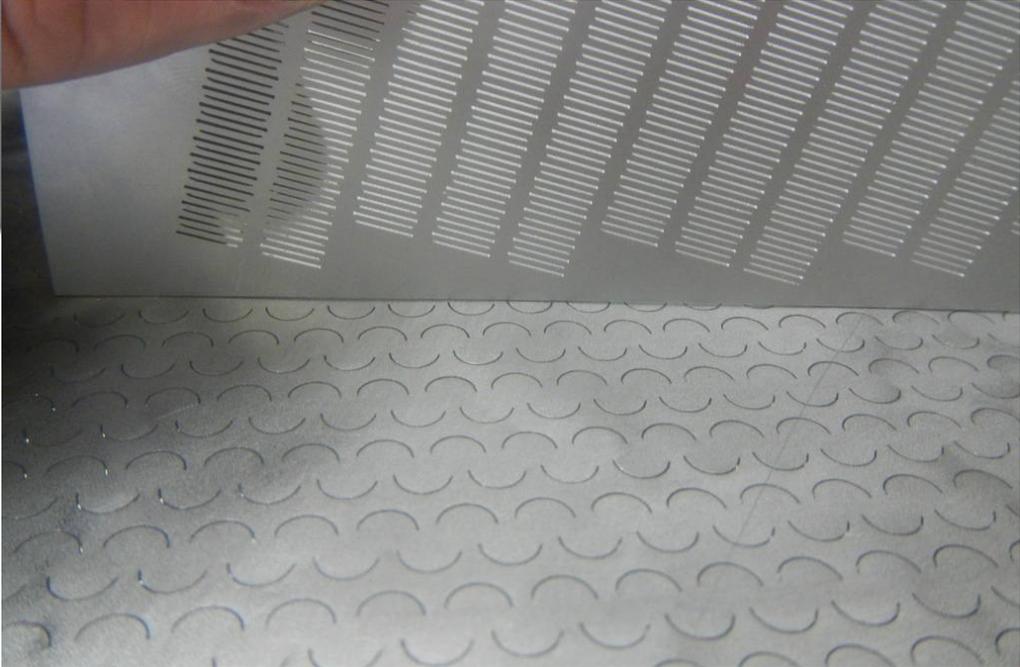
Screen Scroll Screens



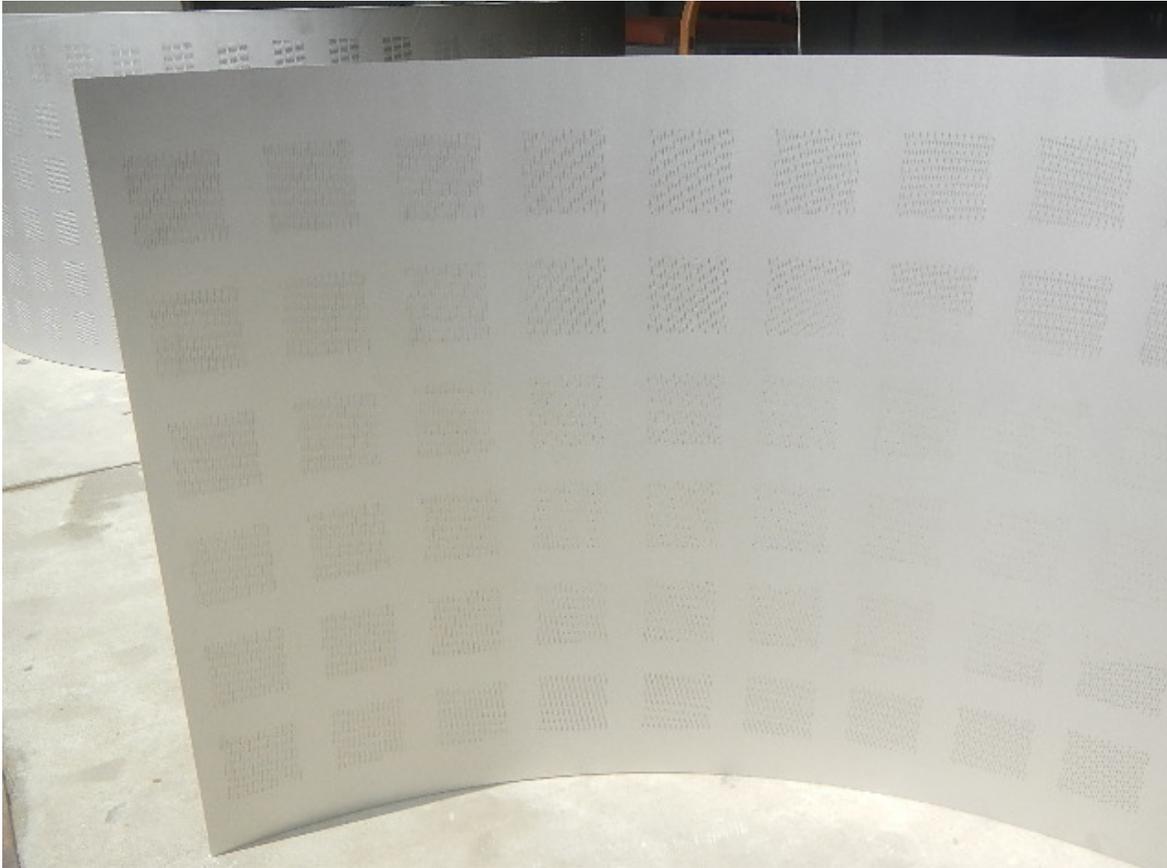
Advantages over OEM

- Longer life
- Higher recovery
- Lower moisture
- Better stability

Screen Scroll Screens



Screen Bowl Decanter Screens



Advantages over OEM Screens

- Lower cost
- Longer life
- Better stability

Centrifuge spare parts

- Made to meet or exceed OEM specifications
- Use of higher wear materials and coatings where practical
- Lower cost
- Faster delivery times
- Assistance with installation available
- Complete centrifuge overhaul service available

