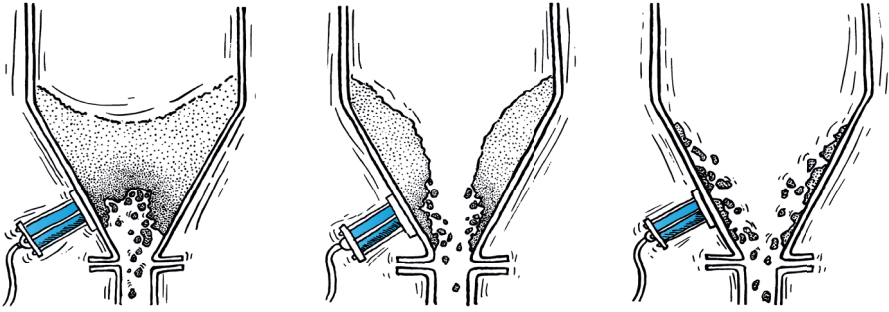




- » **Pneumatic Knockers**
- » **Free Flow Flap Shutter**

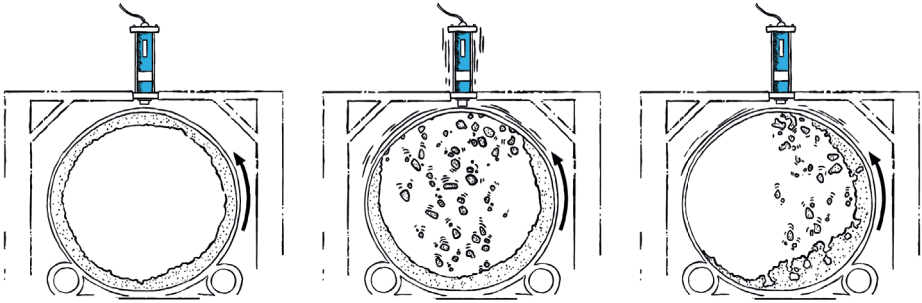
material flow solutions



Pneumatic Knocker

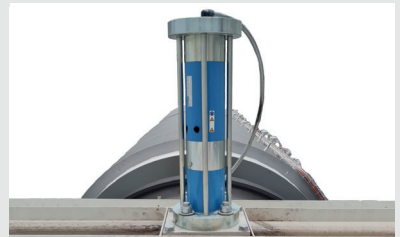
- ✓ The world's most powerful knocker!
- ✓ Replaces the traditional silo hammer: always effective in cases where a hand hammer could be used
- ✓ Durable, robust and easy to maintain
- ✓ Effective single impacts: maximum impact effect with minimum weight
- ✓ Reliable removal in containers & silos of:
 - » Product residues
 - » Caking
 - » Shaft formation
 - » Bridging
- ✓ Vibrates in a decaying manner: no vibration cracks
- ✓ No imbalance as with vibrators
- ✓ No self-resonance

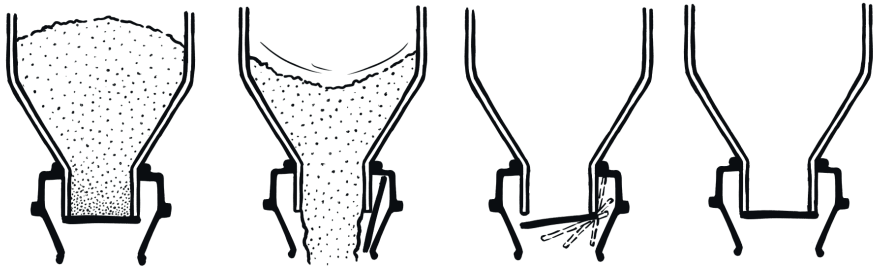




Pneumatic Distance-Knocker

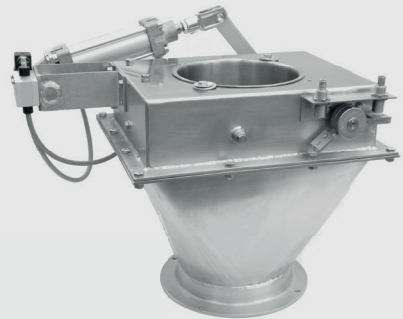
- ✓ The world's most powerful distance knocker!
- ✓ Maximum impact effect
- ✓ Reliably removes product residues and caking in rotating drums
- ✓ Ideal for rotary kilns, drum drying systems and changing containers
- ✓ Generally suitable for hot surfaces
- ✓ Other successful applications include:
 - » As a stone remover in paving stone production
 - » In centrifuge drum cleaning stations
 - » As a knocking device for emptying waste bins
 - » Knocking off residues from filters

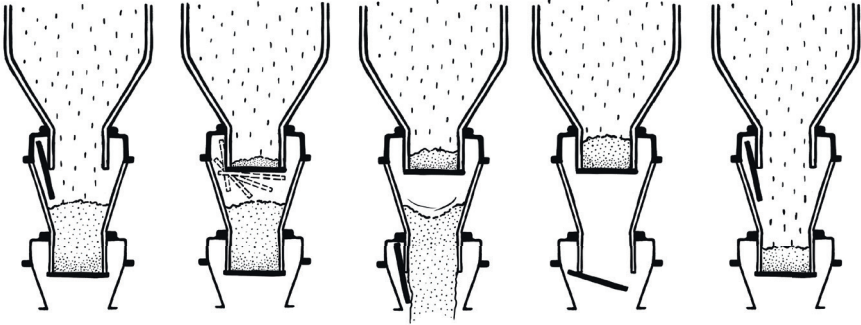




Flap Shutter

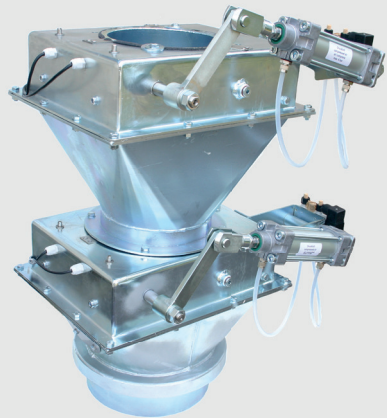
- ✓ Globally unique mechanism; flap swings completely out of the product flow
- ✓ Bearing points and joints are outside the product flow
- ✓ No frictional and shearing forces
- ✓ Maintenance-free: virtually wear-free even with highly abrasive materials
- ✓ Rapid flap opening
- ✓ Suitable for all types of bulk material for the complete emptying of containers, e.g.:
 - » Hopper scales
 - » Pre- and post-tanks in mixing plants
 - » Collecting tanks under filters and separators
 - » Conical screw mixers





Double Flap Sluice

- ✓ Combination of two single flap shutters with the same sophisticated mechanics
- ✓ Feeds products or bulk solids in batches into other processes or systems and can convey bulk solids to a different pressure level
- ✓ Minimal wear; does not block
- ✓ Can also be used for high temperatures, large particle sizes, high differential pressures and large conveying volumes, e.g. for:
 - » Discharge from cyclones
 - » Discharge from extraction systems
 - » Intermittent feeding and discharging in cement or glass production
 - » Feed and discharge in incineration or biogas plants



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