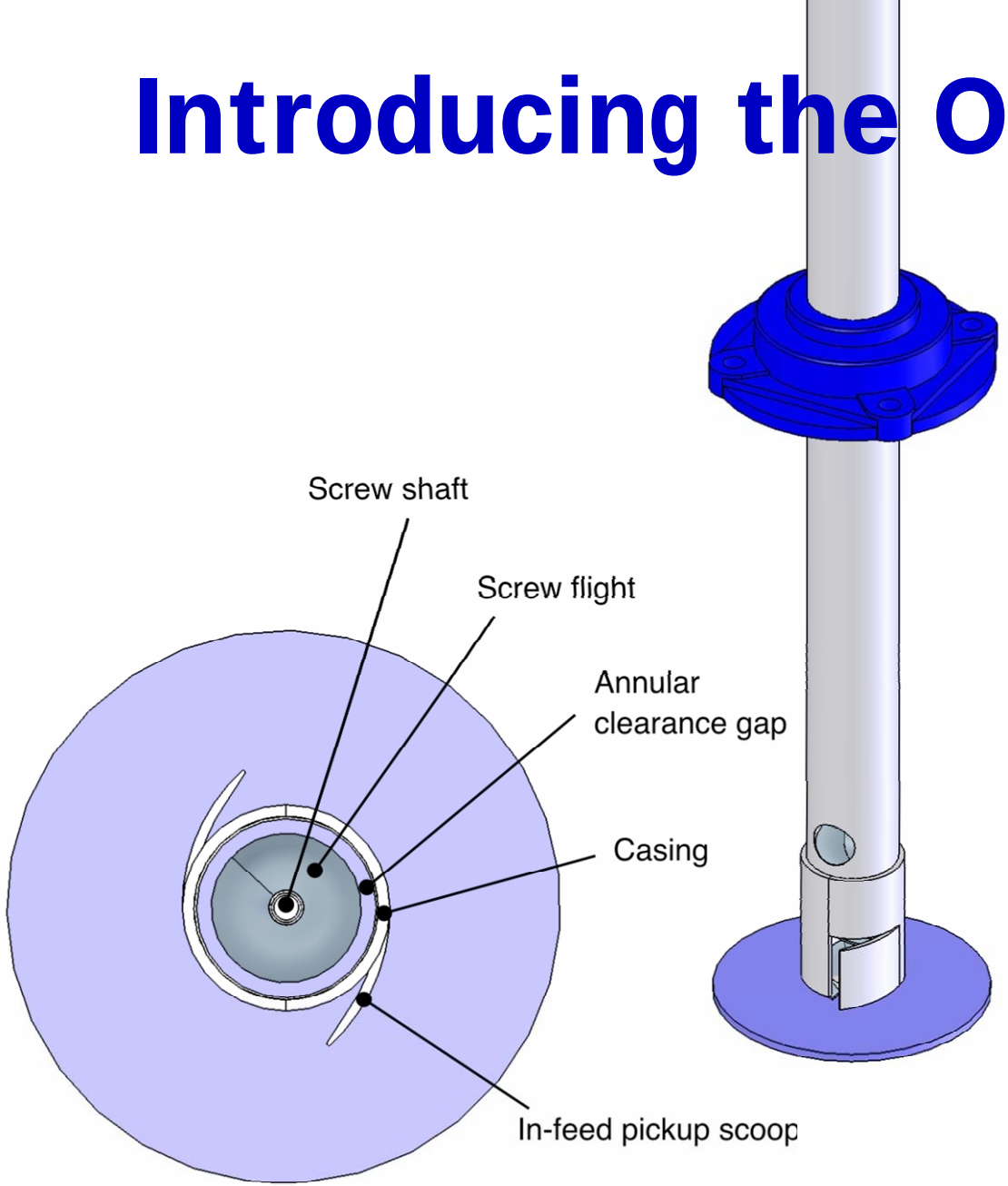
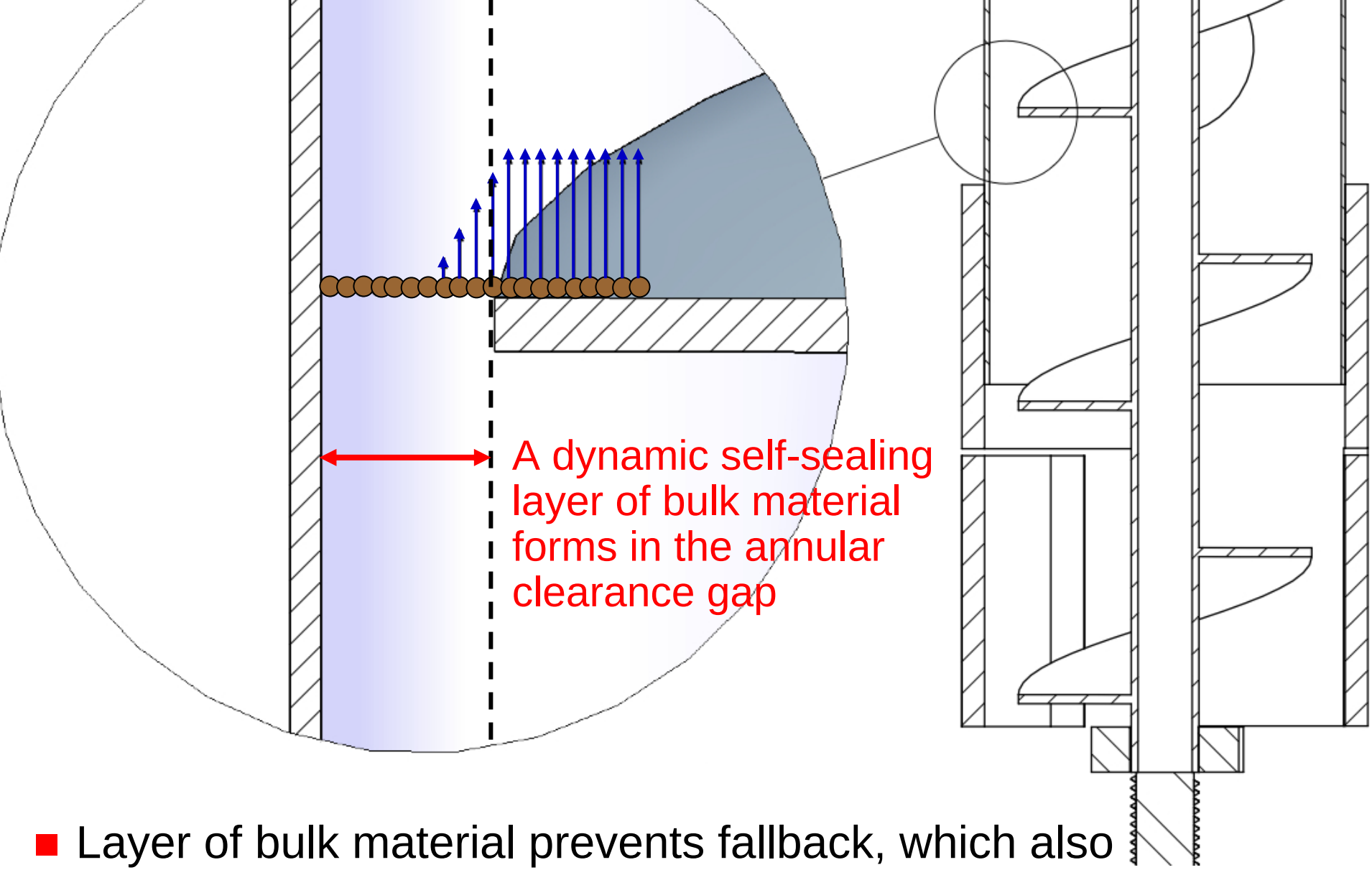
Introducing the Olds Elevator

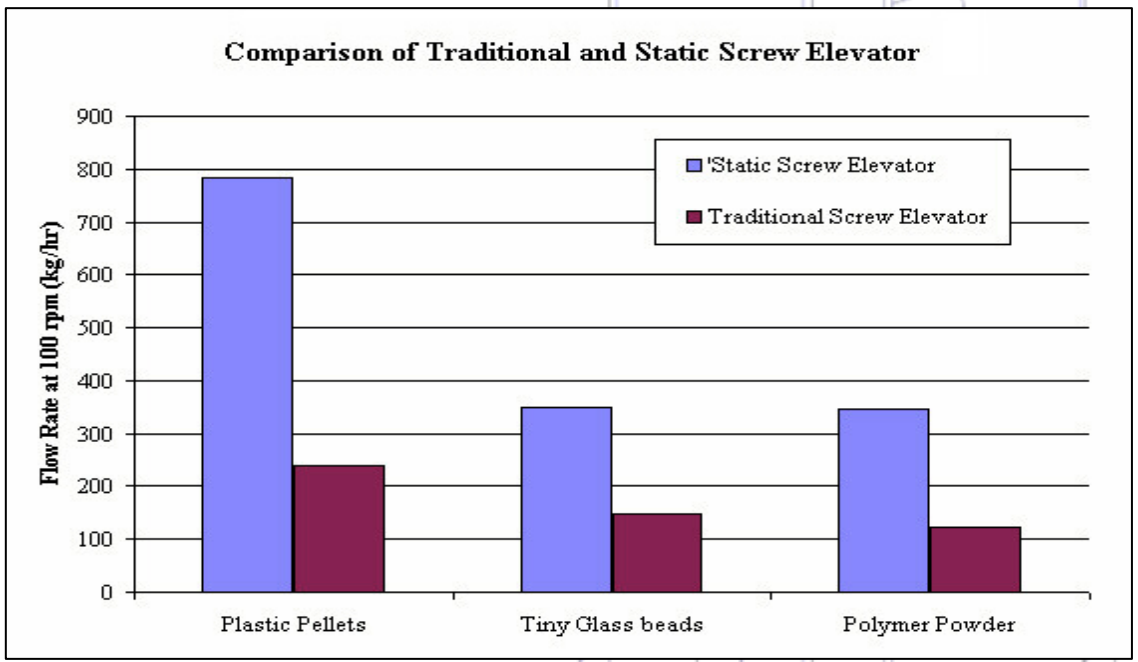




- Layer of bulk material prevents fallback, which also
- Stabilizes the screw in the center to prevent casing contact

Major Handling Benefits

- Gentler
- Quieter
- Smoother
- Higher delivery rate
- No dust so virtually zero risk of dust explosions in the elevator



1. Ultra low pick-up from all around the periphery
2. Favorable flow geometry.
3. Controlled rate of feeding, no back leakage, no contamination.
4. Negligible maintenance, no seals or bearings in contact with product.
5. Delivery is smooth and continuous; divisible for multiple deliveries.

6. Low headroom.
7. No back flow, higher capacity than standard rotating screw.
8. Gentle transfer, at higher density, due to lack of turbulence & no dust.
9. Stabilizing effect of boundary layer compared with potential whipping and whirling of rotating screw to make casing contact.

Use as a volumetric feeder

- Simultaneous elevation and volumetric feeding
- Precise flow rate (within 1% to 3% variance)
- Discharge is smooth and non-pulsating at any RPM
- Improves the process feeding operation
- Use as a feeder only. Loads from the bottom. Eliminates need to elevate product to fill top-loading hoppers of conventional screw feeders
- Can be adapted to Loss in Weight Feeder

Case Studies

Bean Growers Australia

4 Olds elevators installed at their Kingaroy, Queensland, Plant, replacing troublesome bucket elevators.

Rice Propulsion Propeller Foundry

Mexico

For elevation of fine foundry molding sand 20 ft. to their sand mixer at 6 tons/hr.

No maintenance required since installation in January 2004.

Macadamia Nut Plantation

Used to fill silo; very gentle handling available

Powdered Gypsum

The flow rate is precise enough such that, when scaled up, a **<u>ONE</u> 20 ft. Olds Elevator replaces:**

- 40 ft. Bucket elevator
- Overhead storage hopper, and
- Horizontal volumetric screw feeder!

Research and Development

Larger diameter units (10” 254mm test unit shown here with 1/2” 12.7mm annular clearance)