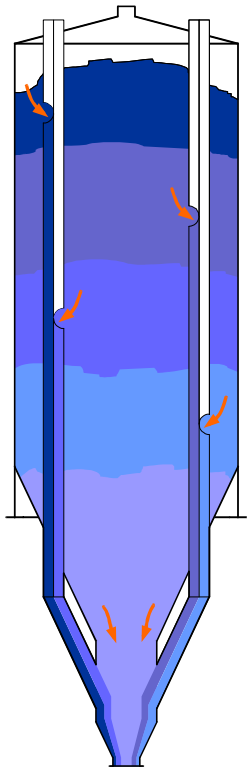


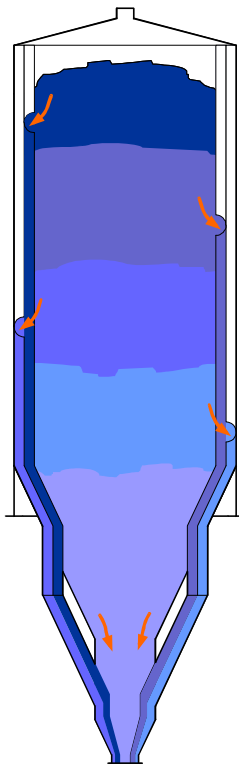
Overview Blender

ZEPPELIN®

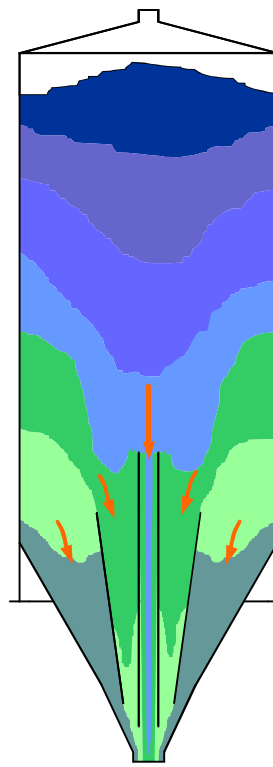
Blending and Homogenizing Silos



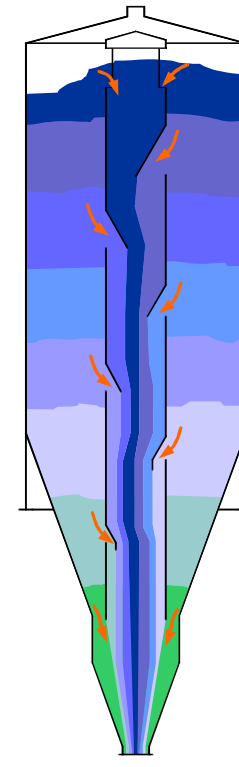
Multi-Pipe



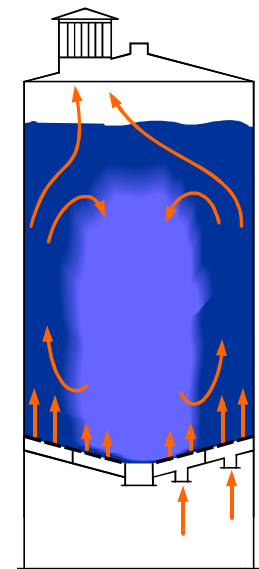
Multi-Channel



Multi-Flow

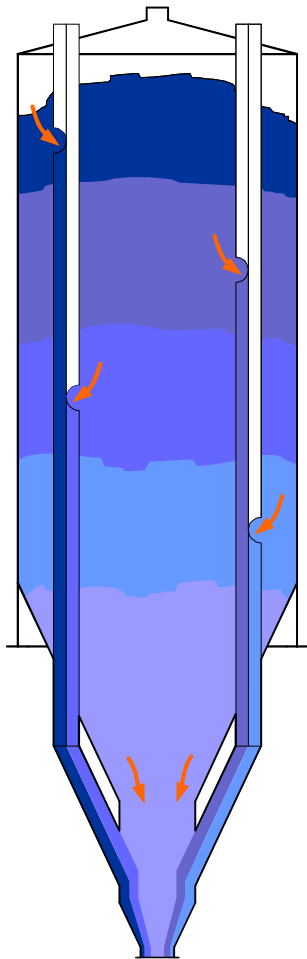


Centro-Blend



Fluidized Bed

Multi-Pipe Blender

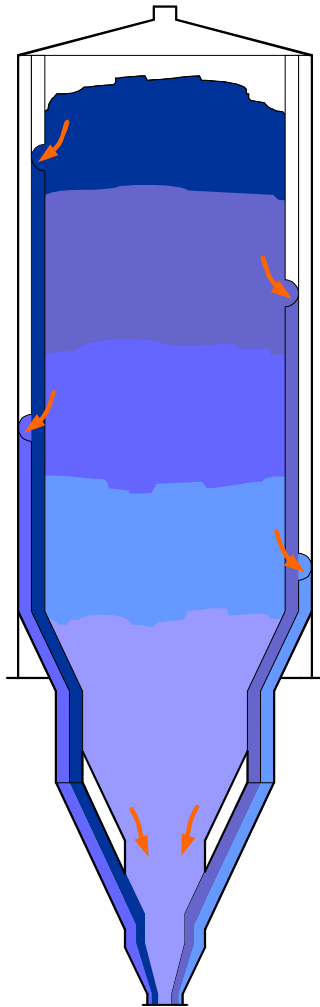


Multi-Pipe Blender

- Sampling via multiple vertical pipes from all levels
- Mass flow hopper design
- Blending from bottom to top level
- Homogenizes short & long-term fluctuations
- Continuous composition for complete discharge cycle
- Suitable for free flowing pellets and granulars
- Best available blending performance

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Multi-Channel Blender



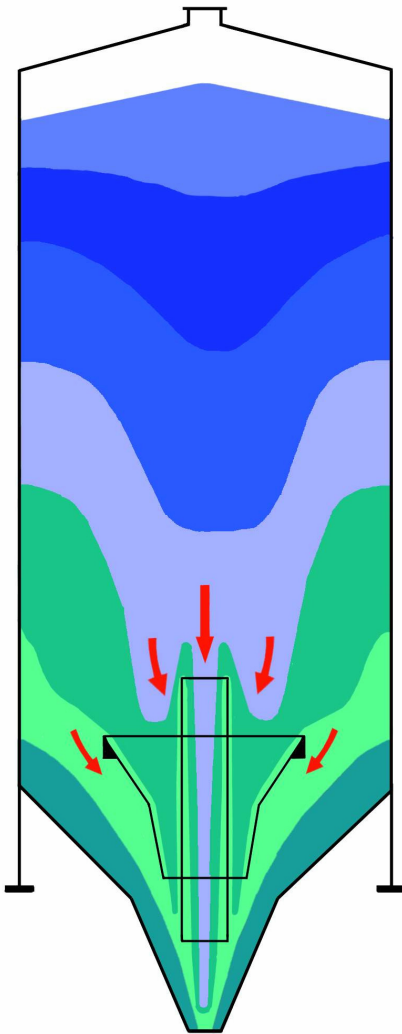
Multi-Channel Blender

- Sampling via multiple vertical pipes at the wall from all levels
- Mass flow hopper design
- Blending from bottom to top level
- Homogenizes short & long-term fluctuations
- Continuous Compositions for complete discharge cycle
- No internal support structure
- Additional hopper discharge pipes
- Not suitable for segregating granulars (wide particle size or weight distribution)



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Multi-Flow Blender



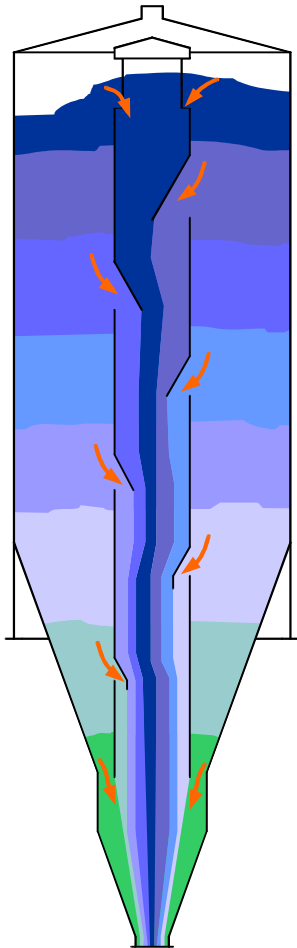
Multi-Flow Blender

- Spreading residence time distribution by creating different flow velocities in the maxx flow hopper region
- Blending within bottom section only
- Inconsistent composition for complete discharge cycle without recirculation
- Homogenizes only short-term fluctuations within small batches
- Substantial recirculation required for homogenization of long-term fluctuations and full-size batches
- Some designs more difficult to clean
- Adaptable to poor flowability



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Centro-Blend



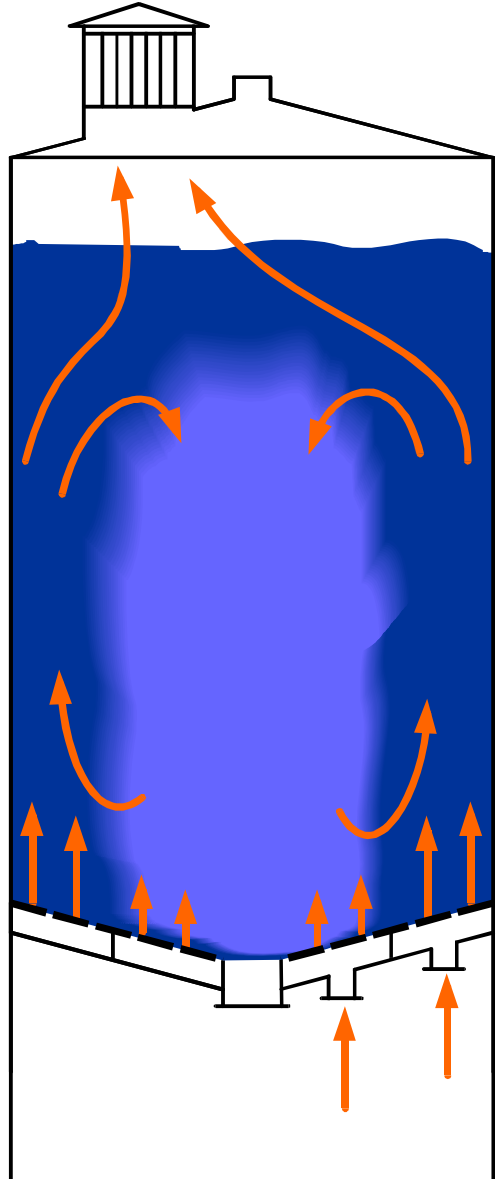
Centro-Blend

- Sampling via vertical blending pipe from all levels
- Mass flow hopper design
- Blending from bottom to top level
- Homogenizes short & long-term fluctuations
- Continuous composition for complete discharge cycle
- Suitable for powders and copolymer pellets



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Fluidized Bed Blender



Fluidized Bed Blender

- Particle movement by fluidisation
- Suitable for Geldart class A & B powders only
- Filter & blower required
- Blending from bottom to top level
- Homogenizes short & long-term fluctuations
- Continuous composition for complete discharge cycle



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