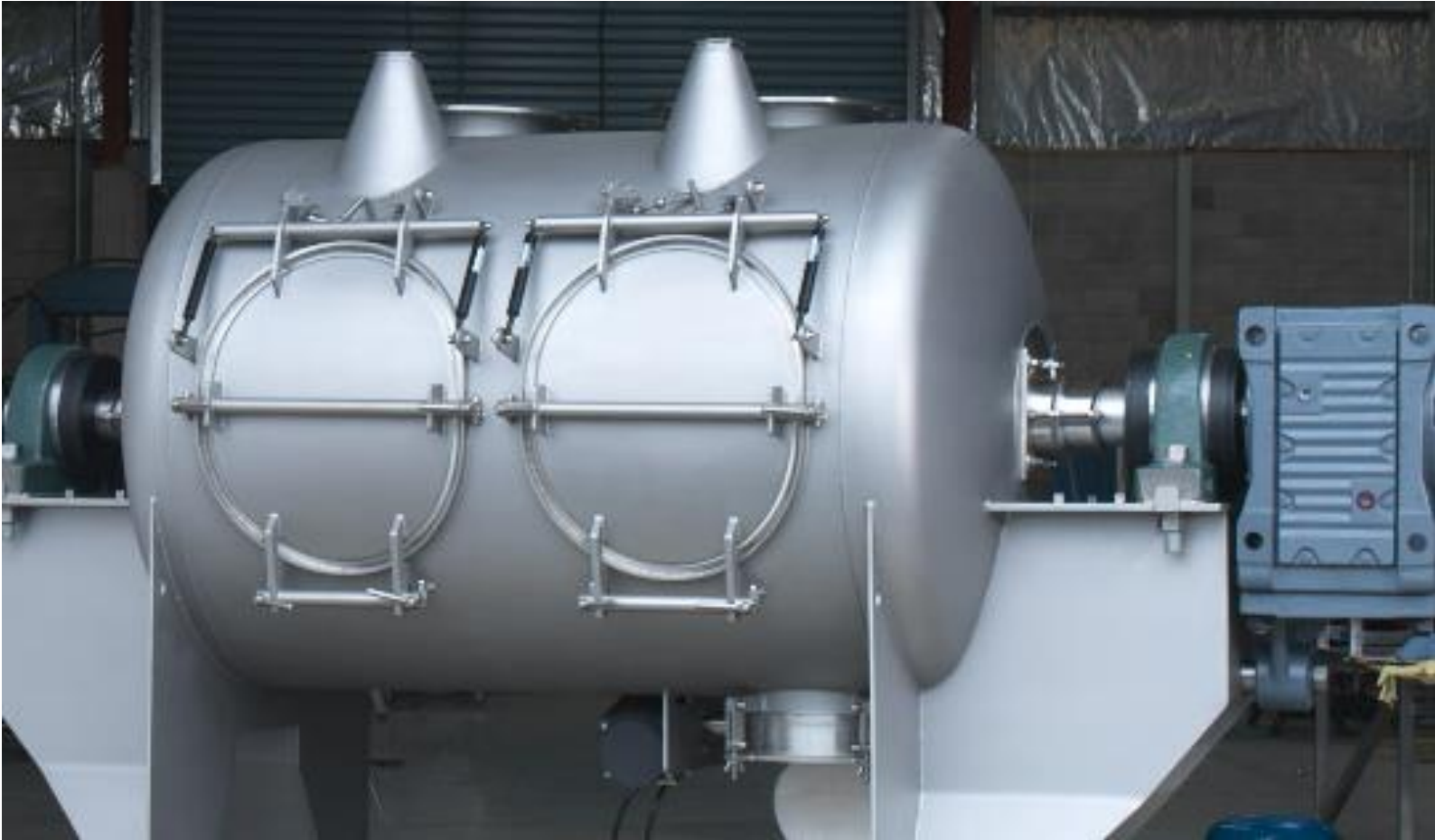




## CHEMPLANT HYGIENIC DESIGN VACUUM MIXER



**Chemical Plant & Engineering** has designed, manufactured and supplied quality process and mixing equipment for the Materials Handling Industry for over 50 years.

The unique design of the CHDV mixer offers repeatable mixing performance with short mix times that create a homogeneous blend, regardless of particle size or density and are designed to meet the specific requirements of the dairy powder industry.

# CHDV MIXER SINGLE PADDLE FEATURES

- 60-90 seconds mix time
- 5% Cvs providing homogenous blends
- Gentle mixing action
- Vacuum rated to allow direct loading into the mixer via vacuum conveying system
- Liquid addition option
- Easy access to discharge valve for cleaning or removal for sterilising
- Easy access to rotors and mixer internals.
- Reduced down time for cleaning
- Lower maintenance requirements
- Flush internal plug valve.
- Hygienic design
- CIP compatible
- Torispherical head ends
- Air purged shaft seal
- Reduced internal surface area
- Reduced installation costs
- Minimal footprint
- Product sampler (accessory available)



## Summary

The CHDV has been designed to address stringent hygiene and sanitation requirements whilst providing a fast and effective mixing cycle.

The mixer can be loaded either via the traditional debagging systems or it can be utilised as a vacuum receiving vessel for direct addition of powders. The ability to discharge directly into hoppers below or to discharge directly into a conveying system provides added flexibility to plant design.

Hygienic design allows free access to both internal body and rotors along with access to the flush fitting sanitary plug valve. Traditional discharge systems are typically connected directly to buffer hoppers which severely impedes access for hygiene requirements. The flush fitting plug valve was developed to provide ease of access to product contact areas for in situ cleaning and can be removed for complete sterilisation.

Designing the mixer in a cylindrical form with torispherical ends provides a perfect platform for vacuum rating whilst eliminating potential product trapping points as compared to traditional 90 degree end plates.

The mixer is designed to be compatible with CIP requirements for future hygiene developments.

## CHEMICAL PLANT & ENGINEERING

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