

design data sheet

High Shear Mixers

Ross HSM-100LSK-I Laboratory Mixer



INTERCHANGEABLE MIXING ATTACHMENTS

Batch Attachments

Recommended batch size range: 0.3 to 3 gallons (1.1 to 11 liters)



High Shear Mixer (HSM)
One rotor and three stators*



High Speed Dispenser (HSD)
2" saw-tooth disc blade



Four-blade Propeller
1.5" and 2.25" propellers

Inline Attachments

Recommended mixing volume: 1 to 20 gallons (3.8 to 76 liters)

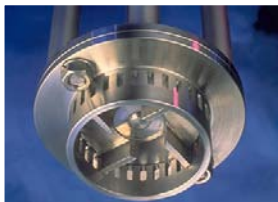


Inline High Shear Mixer (HSM)
One rotor and three stators*



Quad
One set four-stage rotor/stator

*Interchangeable stators supplied with the batch and inline HSM attachments:



Slotted



Round Hole
Disintegrating



Fine Screen

The HSM-100LSK-I is designed for fast changeover between agitators. Swapping from a rotor/stator to a disperser attachment takes less than five minutes and requires two simple hand tools (a wrench and a drift pin).



Micro HSM Attachment

For small batch sizes (50 to 500 ml)



One rotor and one slotted stator

Mixer weight: approx. 60 lbs (27 kg)
(plus weight of attachments)

Maximum raised height: 39 3/8" (1000mm)

Overall width: 15" (381mm)

Overall length: 19 3/4" (502mm)

SAMPLE APPLICATIONS

- Biodiesel blends
- Carbon dispersions
- Ceramic slurries
- Conductive inks
- Cosmetic creams and lotions
- Dyestuffs
- Electronic pastes
- Flavor emulsions
- Glass and paper coatings
- Greases and lubricants
- Gum dispersions
- Hair and nail coloring products
- Latex dispersions
- Low-viscosity adhesives
- Ophthalmic solutions
- Oral suspensions
- Paints
- Pharmaceutical emulsions
- Pigment and resin dispersions
- Printing inks
- Salad dressings, sauces and spreads
- Soaps and cleaning solutions
- Specialty chemicals
- Synthetic fuels
- Syrups and beverage emulsions