

ZXHG-3000

Double Ribbon Helical Mixer



SOLID PARAMETERS		OPERATING PARAMETERS	
WET CAKE DENSITY (kg/m ³)	1500	BATCHES PER SHIFT	3
DRY CAKE DENSITY (kg/m ³)	1386	MASS PER BATCH (kg)	882
PARTICLE DENSITY (kg/m ³)		DISCHARGE TIME (min)	10
MOISTURE (%wt)	41	TOTAL MASS (kg)	2646
PARTICLE SIZE (μm)	0.5-1	TOTAL VOLUME (L)	1764

Type	ZXHG-3000
Total volume	3000L
Feeding ratio	0.6
Mixing materials	40-3000μm (6-300mesh)
Operation condition	Normal temperature, pressure and dust seal
Power	22 kw
Rotating Speed	1-15 RPM (VFD Controlled)
Construction Material	Contact SUS316L
Distance Between Ribbon Agitator Against chamber	≤10mm
Form of Bottom Ribbon	Shaftless Screw
Distance Between Ribbon Agitator Against Bottom Valve	<10mm
Power	600V, 60HZ, 3Phases

No.	Position	Specification of Flange (ANSI)
1	Feeding Port	Type of Flange: Class 150 Inner Diameter: 25 Inches (635mm) Outer Diameter: 27.5 Inches (698.5mm) Thickness: 1.7 Inches (43mm) Qty of Bolt Hole: 20PCS
2	Spare Port	Type of Flange: Class 150 Inner Diameter: 2.38 Inches (60.5mm) Outer Diameter: 3.5 Inches (88.9mm) Thickness: 0.55 Inches (14mm) Qty of Bolt Hole: 4PCS

3	Unloading Port	Type of Flange: Class 150 Inner Diameter: 9.5 Inches (241mm) Outer Diameter: 11 Inches (280mm) Thickness: 1.34 Inches (34mm) Qty of Bolt Hole: 8PCS
4	Unloading Valve	Type of Flange: Class 150 Inner Diameter: 9.5 Inches (241mm) Outer Diameter: 11 Inches (280mm) Thickness: 1.34 Inches (34mm) Qty of Bolt Hole: 8PCS

Item	Material	Qty	Specification
Main Conical Body	SUS316L	1SET	Diameter of Top Chamber: 85 Inches (2150mm) Diameter of Bottom Chamber: 9.5 Inches (241mm) Height of Conical Part: 65 Inches (1650mm) Thickness of Chamber: 0.2 Inches (5mm) Volume of Conical Part: 1850L Angle of Conical: 60Degree
Cylindrical Body	SUS316L	1SET	Diameter: 85 Inches (2150mm) Height: 7.9 Inches (200mm) Thickness of Chamber: 0.2 Inches (5mm) Volume of Conical Part: 726L
Cap Cover	SUS316L	1SET	Thickness of Chamber: 0.2 Inches (5mm) Volume of Conical Part: 500L
Feeding Port	SUS316L	1SET	Diameter: 25 Inches (635mm) Flange Connection, ANSI standard
Inspection & Cleaning Manhole on Top	SUS316L	1SET	Diameter: 20 Inches (500mm)
Inspection & Cleaning Manhole on Side	SUS316L	1SET	Diameter: 12 Inches (300mm)
Spare Port	SUS316L	1SET	Diameter: 2.38 Inches (60.5mm) Flange Connection, ANSI standard
Unloading Port	SUS316L	1SET	Diameter: 9.5Inches (241mm) Flange Connection, ANSI standard
Unloading Valve	SUS316L	1SET	Type: Vacuum Ball Valve Way of Drive: Pneumatic Valve Diameter: (10 Inches) 250mm Flange Connection, ANSI standard
Speed Reducer & Driving Motor	As Module	1SET	Power: 22KW (VFD Controlled) Type of Motor: TEFC

			Type of Speed Reducer: Gear Box Safety Standard: IP65
Speed Reducer Basement	SUS316L	1SET	Strengthened Design, With Packing Seal
Blender Shaft	SUS316L	1SET	
Ribbon Blender	SUS316L	1SET	Type: Single Ribbon Thickness: 0.32 Inches (8mm) Distance Against the Chamber: no bigger than 0.39 Inches ($\leq 10\text{mm}$)
Electrical Control Cabinet (Shared the same control cabinet with vacuum pan dryer)	GGD	1SET	Type: Independent Control Cabinet Way of Control: Button Safety Standard: IP55 Brand of Major Electrical Components: Siemens / Schneider Frequency Converter: 22KW, Heavy Duty Type Equipped with armored cable (between control cabinet to components in the supply scope) and glands

