

Colloid Mills Bitumen Emulsion Production

Features:

- Fitted with high speed bearings
- Fully assembled mill
- Available in 12, 20 and 40t/h and a 300l/h version for lab use
- Optimized to provide a fine and nar row particle distribution
- High efficiency resulting in low amperage use
- Frequency control as option
- Adjustable rotor / stator gap
- Direct flange mounting on electrical motor gives simple and low-noise in stallation

The DenimoTech colloid mills are especially designed for production of bitumen emulsion - regular as well as polymer modified.

The rotor and stator system is optimised to provide a fine and narrow particle distribution which gives the emulsion an increased storage stability and higher viscositythelatterespeciallysignificantinhigh-bitumencontent emulsions. The mills are further fitted with highspeed bearings, which if combined with frequency control (see optional equipment) of the motor allow:

1. Adjusting the speed up and down to optimise the particle distribution and thereby the emulsion characteristics to achieve desired properties and/or suit local requirements.

2. Using many bitumens that normally form too course particle distributions resulting in poor emulsion quality



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the road ahead

Technical information

	Mills fixed speed	DT 105	DT 202	DT 403
	Capacity, 70-40% residue	6 - 12 t/h	10 - 20 t/h	20 - 40 t/h
	Rotor/stator gap, standard	3.0 mm	3.0 mm	3.0 mm
	Noise level	<80 dB (A)	<80 dB (A)	<80 dB (A)
	Length without manifold	860mm	960mm	980mm
	Length with manifold	1060mm	1250mm	1350mm
>	Pipe connections Bitumen/Water Phase/Emulsion	DN40/25/50	DN65/40/80	DN80/50/100
	W×H	350 x 430 mm	400 x 475 mm	450 x 500mm
	Weight	200 kg	275 kg	300 kg
	Voltage	3 x 400V ~ 3 x 480V +PE	3 x 400V ~ 3 x 480V +PE	3 x 400V ~ 3 x 480V +PE
	Power consumption	18.5 kW	30 kW	37 kW
	Frequency rate	50/60Hz	50/60Hz	50/60Hz
	Amperage	34.5A	55A	68A
4	Revolutions per minute (RPM)	3000/3600	3000/3600	3000/3600
	Mills adjustable speed	DT 106	DT 202	DT 403
	Capacity, 70-40% residue	6 - 12 t/h	10 - 20 t/h	20 - 40 t/h
	Rotor/stator gap, standard	3.0 mm	3.0 mm	3.0 mm
	Noise level	79 / 88 dB (A)	79 / 88 dB (A)	79 / 88 dB (A)
	Length without manifold	1095 mm	1095 mm	1125 mm
	Length with manifold	1315 mm	1365 mm	1415 mm
	Pipe connections Bitumen/Water Phase/Emulsion	DN40/25/50	DN65/40/80	DN80/50/100
	W×H	400 x 440 mm	400 x 440 mm	450 x 470 mm
	Weight	240 kg	300 kg	330 kg
1	Voltage	3 x 400V ~ 3 x 480V +PE	3 x 400V ~ 3 x 480V +PE	3 x 400V ~ 3 x 480V +PE
	Power consumption	30 kW	37 kW	45 kW
	Frequency rate	40 - 70 Hz	40 - 70 Hz	40 - 70 Hz
	Amperage	55A	68A	82A
	Revolutions per minute (RPM)	2400 - 4200	2400 - 4200	2400 - 4200

For further information please visit us at www.der

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