



# The most flexible solution for fiber refining on the market

## TwinFlo

TwinFlo double disc refiner can ideally handle all fibers used in paper manufacturing, since it can be individually adjusted through its multitude of available fillings.

TwinFlo double disc refiner offers cost-effective and targeted technological refining of primary and secondary fibers. It features electro-mechanical setting of the refining gap through central force transmission, the greatest possible flexibility with groove and knife geometry and uniform filling wear due to a self-centering rotor.

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### Benefits

- + High degree of machine effectiveness due to favorable ratio of no-load power to effective refining power, combined with high hydraulic capacity
- + Optimal fiber treatment due to low-intensity refining
- + Easy and quick replacement of fillings due to integrated equipment
- + Uniform, highly efficient fiber treatment due to the precise plane parallelism of the refining fillings and an optimized selection of fillings
- + Simple to maintain due to small number of moving parts and easy accessibility

## Areas of application

The TwinFlo refiner is used in both fresh fiber lines as well as in secondary fiber lines. Due to the extensive assortment of fillings, suitable refining plates are available for nearly every application.

Voith refining fillings and also some replacement parts can be used machines of other manufacturers as well.

## Maintenance intervals and services

For TwinFlo refiners, only very little maintenance is needed. Due to a large range and permanent newly developed fillings the refiners are very future-proof. Refining systems can be adapted to new and changing general technological conditions or energy optimization can be offered to customers.

## References

Around 1000 Voith TwinFlo refiners run reliably in our customers' stock preparation plants all over the world.

## Technical data

Sizes		TF1E	TF2E	TF3E	TF4E	
Disk diameter	[inch]	18 – 24	26 – 32	34 – 40	42 – 48	
	[mm]	457 – 610	660 – 813	864 – 1016	1067 – 1219	
Flow rate at 4%	[l/min]	250 – 2600	500 – 5200	1000 – 7500	2000 – 8000	
	[gpm]	70 – 690	130 – 1380	260 – 1980	530 – 2110	
Speed	50Hz [rpm]	1000 – 750	750 – 600	600 – 480	500 – 400	
	60Hz [rpm]	1200 – 720	720 – 600	600 – 514	514 – 450	
Admissible installed motor power at minimum speed	50Hz	[kW]	300	500	900	1700
		[HP]	400	700	1250	2300
	60Hz	[kW]	300	500	900	1900
		[HP]	400	700	1250	2600
No-load power	[kW]	60	90	150	200	
Stock consistency range	[%]			3.0 – 6.0		

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