

SPXFLOW

TMH SIDE-ENTRY MIXERS



Backed by over 60 years operating experience Plenty Mixers, a brand of SPX FLOW, has a reference list of successful site installations that is second to none. Plenty Mixers are acknowledged as the market leader in the field of side entry mixing technology for the oil and petrochemical industries, having supplied thousands of units worldwide to numerous major oil companies in over 60 countries around the globe.

SPX FLOW, Inc. (NYSE:FLOW) is a leading manufacturer of innovative flow technologies, many of which help define the industry standard in the market segments they serve. From its headquarters in Charlotte, North Carolina, it operates a sales and support network, centers of manufacturing excellence, and advanced engineering facilities, throughout the world. Its cutting-edge flow components and process equipment portfolio includes a wide range of pumps, valves, heat exchangers, mixers, homogenizers, separators, filters, UHT, and drying technology that meet many application needs. Its expert engineering capability also makes it a premium supplier of customized solutions and complete, turn-key packages to meet the most exacting of installation demands. Incorporating many leading brands, SPX FLOW has a long history of serving the food and beverage, power and energy, and industrial market sectors. Its designs and engineered solutions help customers drive efficiency and productivity, increase quality and reliability, and meet the latest regulatory demands. In-depth understanding of applications and processes, state-of-the-art Innovation Centers, and advanced pilot/testing technology further assist in optimizing processes and reducing timescales to reliably meet production targets. To learn more about SPX FLOW capabilities, its latest technology innovations and complete service offerings, please visit www.spxflow.com.

Plenty TMH Series - Side Entry Mixers, The Plenty Package

Plenty has been supplying fluid agitation equipment for over 60 years and, as an engineering company, has been established for over 200 years providing a wealth of engineering experience. Modern manufacturing techniques produce the highest quality equipment, backed by ISO 9001:2000 accreditation.

The Plenty TMH Mixers are a durable range of side entry mixers with an extensive application portfolio for blending, storage, or homogeneity duties in a wide variety of industries.

FEATURES:

Plenty TMH Mixers are compact and durable, providing wide process flexibility with assured results.

- High efficiency impellers for optimum mixing and power savings
- Positive shut off device allows mechanical seal and bearing changes under full tank conditions
- Tooth belt for long life and positive engagement between motor and mixer shaft
- All 316 stainless steel wetted parts construction
- Maintenance-free bearings
- Bearing system minimizes seal deflection
- L10 bearing life in excess of 65,000 hours
- Single sleeve mounted mechanical seal
- 4" ANSI mounting flange
- Power range 1.1 - 5.5 kW / 1.5 - 7.5HP
- CE & ATEX 2 G / ATEX 3 G certification available

Belt Drive:

Belt drive, HTD timing belt and PD helical offset belt option

- Large heavy duty ball bearings
- Suitable for 50 and 60 Hz supply
- Fixed output speed 425 RPM +/- 5%

Tank Shut Off:

A taper to taper metal tank shut-off system ensures that the shaft is positively clamped in the shut-off position such that the contents are prevented from escape while the seal is replaced. The system incorporates a safety check valve.

Impellers:

- A312 is standard
- Plenty Forward Rake Propeller is optional



A312



Plenty Forward Rake

Shaft:

A one piece solid shaft accurately machined to specified length and diameter.

Wetted Parts:

The mixers are manufactured as standard with wetted parts in 316 stainless steel. Other materials can be provided for specific application needs. The wetted parts can also be supplied with a polished finish.

Motor:

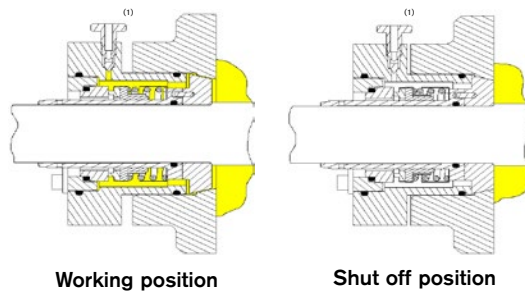
- IEC and NEMA are available

Mounting Options:

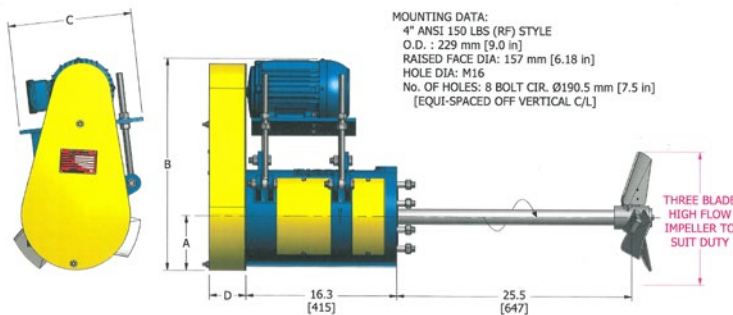
- 4" ANSI flange is standard

Mechanical Seal:

Mechanical seals are sleeve mounted for ease of maintenance. The mechanical seal is completely enclosed within a seal housing that also incorporates a back up seal to restrict leakage in the event of ultimate seal failure. An air release valve⁽¹⁾ is fitted to the seal housing for venting the seal chamber to ensure that it is completely filled with product (liquid) prior to initial and post maintenance start-up. The air release valve is used to prove the shut off is 100% operational before any maintenance work is started.



PLENTY TMH SPECIFICATIONS (CERTIFIED DIMENSIONS/WEIGHTS AFTER RECEIPT OF ORDER)						
MOTOR (kW [H.P.])	A (mm [in])	B (mm [in])	C (mm [in])	D (mm [in])	UNIT WEIGHT (kg [lbs])	
1.1 [1.5]	150 [5.9]	581 [22.9]	340 [13.4]	104 [4.1]	118 [260]	
1.5 [2]	150 [5.9]	581 [22.9]	340 [13.4]	104 [4.1]	119 [263]	
2.2 [3]	150 [5.9]	631 [24.8]	358 [14.1]	104 [4.1]	137 [301]	
4 [5]	150 [5.9]	631 [24.8]	358 [14.1]	104 [4.1]	140 [308]	
5.5 [7.5]	230 [9.1]	754 [29.7]	460 [18.1]	125 [5.9]	165 [363]	



PLENTY TMH PRODUCT SPECIFICATION

Shaft Dia.	Mounting	Shaft Dia.	Motor kW/HP	Mixer Model Number	Available A312 Impellers Diameters			
					14"	16"	18"	20"
38mm	Fixed	Belt	1.1 / 1.5	14A-38-TMH1.5HP	S			
			1.5 / 2	16A-38-TMH2HP	O	S		
			2.2 / 3	16A-38-TMH3HP	O	S		
			4 / 5	18A-38-TMH5HP		O	S	
			5.5 / 7.5	20A-38-TMH7.5HP			O	S

S = Standard, O = Optional

Typical product applications

Plenty TMH Mixers are a durable range of side entry mixers with an extensive application portfolio for blending, storage, or homogeneity duties in diverse industries:

Vegetable Oil Processors



Oil Bunkers and Biofuels Storage



Breweries, Alcohol Distilleries and Wineries



Sugar Refineries



Chemicals



Hydrocarbon Production/Processing



Soft Drink Manufacturers



Water Treatment



TMH SIDE-ENTRY MIXERS

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