

SONIC HYDRAULICS

STP MOTOR SERIES Wheel Motors Information Packet



STP MF Series



STP ME Series

Sonic Tractor Parts, Inc.

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Serving the World Since 1989

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WELCOME TO SONIC HYDRAULICS!

Sonic Hydraulics (A Division of Sonic Tractor Parts, Inc. (STP)) **Company Overview**

Established in 1989, Sonic Tractor Parts, Inc. (STP) has been manufacturing hydraulic pumps and motors, providing quality parts suitable for Ford, Massey Ferguson, Case/IH applications and much more. Over the years we have built a solid reputation for quality, superior customer service and competitive pricing. All of our pumps are manufactured and 100% tested in our facilities.

Sonic currently supplies its parts to over 350 dealer and distributors in the United States and 30+ distributors worldwide.

In 2000 Sonic started focusing heavily on research and development of hydrostatic transmissions systems. Soon after, Sonic built its STP-1000 series axial piston pump specifically for the hydrostatic transmission of lawn mowers and compact tractors.

In 2009, Sonic grew our lawn and garden product lines through the addition of wheel motors. Our wheel motors provide the same quality and performance as compared with leading competitors in the market while our pricing stands at 30-50% below current market prices!

Quality Control Systems

Since 1997 our manufacturing facilities have adopted ISO 9000 QC management principles and systems to ensure that the highest standards are implemented in our production processes. In 1999, certification was awarded for successfully implementing the requirements of ISO 9002 standards of management within the scope of pump manufacturing. All products undergo individual quality inspections and are run on professional test benches for a complete 100% performance and functionality check.

Lean Manufacturing

STP is a strong believer of the concept of lean manufacturing. In order to provide you with the lowest possible costs without sacrificing the quality of the product, Sonic implemented and actively practices lean manufacturing. Lean manufacturing is the process by which production is run in the most efficient manner.

Benefits of lean manufacturing include:

- Reduced lead time
- Optimized space usage
- Increased productivity
- Improved product quality
- Improved on-time shipments

STP Wheel Motors

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Customer/ Technical Support

At STP, we believe that our customers find value in the service they receive as well as the relationship they have with us. Good customer support, thus, should include both. As such, STP provides one direct point of contact for Customer Support, to deal with all aspects of customer servicing. Your account is appointed to an Account Representative who takes full responsibility for supporting and logging problems and technical support queries. Their specific role is to ensure that all sales and support queries are answered and resolved as promptly as possible. Your Account Representative works simultaneously with engineers, marketing and management to provide the highest and most efficient level of service.

The customer support process is dictated by the principle that success is a result of collaborative efforts and communication.

Warranty

STP warrants the STP Motor Series line of Wheel Motors to be free from defects in material and workmanship for a period of one year from date of purchase. We reserve the right to inspect any or all parts returned for warranty before warranty claims will be honored. The warranty shall be void in case of accident, abuse, misuse, negligence, application for which the products are not designed for, alteration, disassembly, dismantlement, etc..

Sonic Tractor Parts, Inc. is not liable for loss, damage or injury directly or indirectly arising from the use of the products. Before using, the user shall determine the suitability of the products for its intended use, and the user shall assume and be liable for all responsibility and risks in connection therewith. There are no warranties which extend beyond the description of the face hereof. There is no implied warranty of merchantability. For warranty returns, please contact your Account Representative.

Drop Shipments

In cooperation with our dealers and distributors, Sonic also provides the convenient and cost efficient option of "Drop Shipping" at no additional charge. Customers can place orders noting "Drop Shipment" on the order form or by indicating to your representative at the time the order is placed. Drop Shipments are packaged in individual neutral boxes and contain no packing slips. There are no markings on the package. Shipping labels contain your shipping address as the sender. Upon completion, you will receive via fax a copy of the invoice and freight charges for your reference. All drop shipments are processed according to the shipping address provided. STP is not responsible for any shipping related issues that occur as a result of inaccuracies in the shipping address provided to your account representative.

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STP Motor Models

The STP Motor Series consists of a variety of models, designed to replace some of the industry's most popular applications. Designed to be direct replacements, our wheel motors provide quick™ installation matched by durability and power in performance. Some of the most popular applications include:

STP-ME Series (230 pictured)

Features:
Hydraulic Motor
Mounting: 4 bolt mounting
Port: 7/8-14 SAE port
Shaft: 1" tapered shaft
Rotation: CCW

REF No. TE0230FS250AAFA & 1-603718

Applications: Exmark Turf Tracer™
Exmark Viking Hydro™



STP-MF Series (240 pictured)

Features:
Hydraulic Motor
Mounting: Standard
Port: 7/8 -14 SAE;
Shaft: 1-1/4" Tapered
Rotation: CCW
Displacement: 240 c.c.

Ref No. TF0240US081 & 1-523328

Applications: Exmark Lazer Z™
Toro Z Master™



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SAMPLE TECHNICAL SPECIFICATIONS

Model No.		STP ME-165	STP ME-195	STP ME-230	STP ME-260	STP ME-295	
Specification							
Displacement (cm ³ /rev)		163	195	228	260	293	
Flow (L/min)		45-57	45-57	57-75	57-75	57-75	
Speed (rpm)		348	328	292	287	256	
Pressure (bar)/(psi)	Con.	140/2030	140/2030	120/1740	110/1595	100/1450	
	Int.	190/2750	190/2750	165/2390	155/2250	145/2100	
Torque (Nm)/(ft-lb)	Max	Con.	310/228	380/280	390/288	400/295	428/316
		Int.	436/322	514/379	528/389	550/406	582/429
	Min	Con.	248/183	304/224	312/230	320/236	328/242
		Int.	338/249	411/303	411/303	449/331	445/328
Horsepower (Max) (KW)/(hp)		17.0/22.8	17.4 / 23.3	17.7 / 23.7	16.7 / 22.4	15.7 / 21	
Length (mm)/(inch)		131/5.14	137 / 5.39	144 / 5.64	150/5.89	156/6.14	
Weight (kg)/(lb)		7.8/17.2	8.1 / 17.9	8.3 / 18.30	8.6/19.0	8.8/19.4	

PRICING

SONIC. PART NO.	SONIC DISTRIBUTOR PRICE	SONIC DEALER PRICE	SUGGESTED RETAIL PRICE
STP-ME Series	Call for Pricing		
STP-MF Series			

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