

MTH PUMPS

High Head, Low Flow Regenerative Turbine

Custom Engineered Pump Design Application



Manufacturing
MTH Pumps
in the USA
since 1965

MTH begins the development process by researching the needs of the customer and the application requirements. Research projects with the customer's equipment brought in-house and tested in a simulated operating environment, is often used to aid in the development of design input specifications. At the heart of this process is the desire to find a solution to pumping problems that traditionally plague the industry or application in question. In each major industry MTH endeavors to become the most capable source of pumping knowledge available, thereby providing our customers with an additional engineering resource that can be leveraged to increase their product's advantage in the marketplace. Not lost in this effort, is the desire to meet the ongoing needs of the OEM to reduce cost, extend product life, reduce maintenance, and add product capabilities.

With basic design specifications in mind, MTH enters a rapid design / prototyping / testing cycle where newly designed or modified standard product can be evaluated for performance, reliability, and cost of manufacturing. The result is a custom engineered product offering that specifically addresses customer and application needs while very often reducing the cost of the overall product. MTH has been very successful at producing and selling custom engineered products at a cost less than that of commonly available standard pumps.

MTH's efforts to surpass customer satisfaction extend well beyond the pump itself. Special mounting brackets, piping trees, construction materials, custom assembly / packaging / testing services, inventory stocking arrangements, and JIT shipping schedules are all a part of the solution that our existing customers have found in a valuable product partner that is MTH Pumps. Please send us the information on your custom engineered applications. The form below will help determine where to start.

1. Customer Information

Quote's Due Date: _____
*Dist./Cust.: _____ *Contact Name: _____ Today's Date: _____
Mailing Address: _____
*Email: _____ *Tel: _____ Ext: _____ Fax: _____

2. End-User Information (If located outside U.S.)

(This information is necessary to ensure compliance to export laws and regulations of U.S. Departments of: Commerce; Homeland Security; and, other U.S. agencies.)

*End-User: _____ *City, State & Country: _____
*Location Where Pumps Will Be Installed/Used (City, State & Country): _____
*End Product and Brief Description of Process (of system where pump will be used):

3. Service Conditions

*Liquid Name: _____ Conc.: _____ % *Specific Gravity: _____
*Temperature: Norm: _____ Min. _____ Max. _____ °F °C *Viscosity: At Normal Temp. _____ At Start-Up Temp. _____ cP SSU
Vapor Pressure: At Normal Temp. _____ At Ambient Temp. _____ PSIA Melting Point: _____ °F °C Boiling Point: _____ °F °C
*Suction Pressure: _____ PSIG Discharge Pressure: _____ PSIG NPSHA: _____ Feet Meters
*Flow Rate: _____ Units _____ *Differential Pressure: _____ Feet Meters PSI [If NPSHA is not given, mfr. will specify the NPSHR]
*Oil Used: _____ Conc.: _____ % *Specific Gravity: _____
*Special Operating Conditions and / or Notes

4. Suspended Material Information (If none, please state "none.")

*S.M. Name: _____ Conc. (% by wt.): _____ Grain Size: Max.: _____ Avg.: _____

5. Filtration (If none, please state "none.")

Filter Type: _____ Filter Size (Micron): _____ Grain Size: Max.: _____ Avg.: _____

6. Pump Information

Pump Type: (Regen. Turbine or Centrifugal; Canned Motor or Sealed Type) _____
Material Requirements: _____ RoHS Passivation Estimated Qty Per Year: _____
Piping Connection: Standard NPT SAE BSP Other: _____

7. Motor/Installation Conditions

*Elect. Source: 1-Phase 3-Phase _____ Hz _____ Voltage
Location: Indoors Outdoors Mounting: Horz Vert In-Line C/C F/C
Enclosure: ODP TEFC EXP Other: _____
Motor Rating: UL CE CSA Other: _____

7. Special Boxing: No Yes If yes - Type: Export
Other - Attach Description

8. Long Term Storage Prep: No Yes

9. Accessories / Other Information:

10. Replacement Unit Information (if applicable)

Manufacturer: _____ Model Number: _____
Casing/Impeller Material: _____ O-ring Material: _____
Bearing or Seal Material: _____ SiC / Carbon / NiR / Etc.

MTH PUMPS

Engineered Products and Accessories



The mission of MTH Pumps is to design, develop, and produce pumping products to fit applications in which they are technically correct solutions that also address the peripheral needs of the customer. To this end, the company has endeavored to become

highly vertically integrated to maximize the flexibility and agility of the company to meet product and customer needs. To facilitate the engineering centered nature of the company, MTH has acquired a number of resources needed to bring it to the leading edge of engineered product design and development. MTH utilizes highly



experienced design engineers, solid modeling CAD software, rapid prototyping equipment, its own pattern and mold making shop, its own foundry and fabrication shop, state of the art auto-loading CNC machining equipment, and a wealth of inspection and testing equipment to rapidly design and develop the right solution for the job. In many cases, the design of custom pumps and accessories has netted a significant cost savings to the customer over the use of



standard off the shelf products. Whether the customer is looking for a slight modification to one of our standard products, a totally new pump design, or a completely different kind of product, MTH has the broad range of resources required to complete the task.

In the area of pump design, MTH has entered into the sealless pump market with sealless

MTH Pumps In-house Capabilities Include:

- Creative Engineering services
- Solid modeling design
- Rapid Prototyping tools
- Pattern and mold making shop
- Bronze and Aluminum casting foundry (casting services inquiries invited)
- Highly automated state-of-the-art CNC machine shop
- Custom designed assembly/testing equipment and facilities
- Customized packaging and labeling capabilities
- Large finished inventory capacity for high availability and rapid shipment
- Dedicated Service and Repair Facility



canned versions of many of our standard products such as the SM50, SL50, ST31, ST41, ST51, SP31, and more are coming. Other custom OEM sealless products utilize extended shaft vertical immersible or controlled leakage designs. We have also developed products for special centrifugal designs, DC applications in both sealless and sealed versions, disk friction centrifugal's, axial flow turbines for aerial firefighting, and submersible craft trim



and drain pumps. Other engineered products and accessories include the X41 Series of sealless canned chiller pumps, seal quench glands to extend seal life in difficult applications, special valves and suction strainers, mounting brackets, stainless steel tanks and systems, and custom piping trees and manifolds. For MTH customers, our advice is always: "if you don't see it, please ask."



While MTH Pumps' primary talents lie in engineering design, our efforts to meet and exceed customer specifications and satisfaction extend beyond the engineering and manufacturing arena. Special sourcing arrangements, construction materials, custom assembly, packaging, labeling, and testing services, quality surveillance, inventory stocking arrangements, and JIT shipping schedules are all a part of the solution that our existing customers have found in a valuable product partner that is MTH Pumps.







Certificate No. 5110 (Recertified September 24, 2021)
April 30, 2021 through April 29, 2024

Certificate of Registration

This is to certify that the Quality Management System of



MTH Tool Company, Inc.
401 West Main Street, Plano, Illinois 60545

Additional Addresses:
202 West Main Street, Plano, Illinois 60545, USA (Engineering)
219B West Main Street, Plano, Illinois 60545, USA (Manufacturing and Welding)

Has been assessed by **EAGLE Registrations Inc.** and conforms to the following standard:

ISO 9001:2015

Scope of Registration
Design and Manufacturing of Regenerative Turbine, Centrifugal, Sealless and OEM Pumps



Director of Certification

40 N. Main Street, Suite 1880 | Dayton, OH 45423 | USA | 937.293.2000
www.eaglecertificationgroup.com
Page 1 of 1





Certificate No. 6654
November 23, 2022 through November 22, 2025

Certificate of Registration

This is to certify that the Environmental Management System of



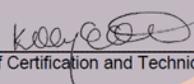
MTH Tool Company, Inc.
401 West Main Street, Plano, Illinois 60545, USA

Additional Addresses:
202 West Main Street, Plano, Illinois 60545, USA (Engineering)
219B West Main Street, Plano, Illinois 60545, USA (Manufacturing and Welding)

Has been assessed by **EAGLE Registrations Inc.** and conforms to the following standard:

ISO 14001:2015

Scope of Registration
Design and Manufacturing of Regenerative Turbine, Centrifugal, Sealless and OEM Pumps



Director of Certification and Technical Services

40 N. Main Street, Suite 1880 | Dayton, OH 45423 | USA | 937.293.2000 or 800.795.3641
www.eaglecertificationgroup.com
Page 1 of 1
Version 11 - 09/27/2022



**Manufacturing MTH Pumps
in the USA since 1965**

**ISO 9001 & 14001
Registered Company**



MTH PUMPS

401 West Main Street • Plano, IL 60545-1436
Phone: 630-552-4115 • Fax: 630-552-3688
Email: SALES@MTHPUMPS.COM
WWW.MTHPUMPS.COM