"WITH THE HARBOR TUG OPERATION IN MIND WE SAW THE NEED FOR A SOLUTION THAT WAS EASY TO INSTALL, EASY TO SERVICE, AND EASY TO OPERATE. IT HAD TO BE ROBUST YET COMPACT AND DELIVER THE DEMANDED BOLLARD PULL WITHOUT SACRIFICING THE ENERGY EFFICIENCY OR MANEUVERABILITY."

Magnus Pettersson
Product Manager

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WE’VE BEEN ON IT FOR 90 YEARS

With a combined experience of 193 years building propellers and engines for the marine market, Caterpillar holds the position as world leaders on the harbor tug market. It is only natural for us to take the next step.

So let’s talk. We want to look at your operational challenges in closer detail to identify the specific configuration of propellers, azimuth units, shaft design, and engines that give you the best and most cost-effective performance. If you expect the highest standards of quality and need the greatest long-term value, choose Caterpillar Marine’s high-performance, customized solutions and dedicated services. You deserve nothing less.

BIGGEST NEWS IN 103 YEARS

AZIMUTH THRUSTER FOR HARBOR TUG APPLICATIONS

Built for it.

marine.cat.com
catpropulsion.com

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High bollard pull and high maneuverability
First things first, the torque, thrust, and control have to be up to the job giving you the bollard pull and maneuverability you need. And, at the same time, optimal fuel efficiency. With a thrust range between 35-100 tons depending on the configuration of propeller and engine size, plus high-performance azimuths controlled from a user-friendly interface, we’ve got you covered.

High reliability and low maintenance
Life for a harbor tug and its crew is busy and relentless. So the solution also needs to be hassle-free and trustworthy. Putting all of our expertise into the design, we’ve been able to optimize throughout – from the robust propel ler design to the bell housing-mounted clutch. Ensuring a highly reliable and easily maintained operation.

Easy installation
Suitable for new builds or vessels, the MTA package is also optimized for fast and straightforward installation. Smart features like built-on seal tanks and coolers in the azimuth unit, plus the complete clutch unit, mean that the project runs smoothly and the tug is quickly out on the water, ready to go.

Local service and support
Over the tug’s operational life, you can be assured of dependable support and high-quality planned maintenance via our worldwide network. If the unimaginable happens, your local Cat Dealer is there for you to minimize and even avoid costly downtime.

Caterpillar Marine has a century of experience designing engines and propellers. And we’ve spent much of that time getting to know the challenges tug operators face on a daily basis. Now we’ve put all that together to create an optimized solution – the Cat® MTA tug propulsion package.

1. THRUSTER
- Tug-optimized nozzle design for high performance
- Quick and easy 3-point bolt attachment and controlled chain of breakage
- Minimal of volkswa gives lower installation and running costs
- Conservative dimensioning gives less downtime, low warranty and maintenance cost

2. UPPER GEAR
- Compact design for easy installation
- Hydraulic or electric steering
- Spray-lubricated upper gear for high performance
- Hybrid interface

3. FLEXIBLE SHAFT ARRANGEMENTS
- Straight long – solid shaft
- Straight short – tube shaft
- Cardan type – solid and cardan shafts
- Custom designed for your tug

4. CLUTCH
- Bell housing-mounted clutch
- Easy installation/limited maintenance
- Increased reliability
- Improved lubrication functionality

5. HIGH SPEED ENGINE
- Faster response time
- Low emissions levels
- Efficient fuel economy
- Longer maintenance intervals, reduced parts and services costs

6. MPC 800A
- One control panel for both clutch and thruster
- Engine start/stop
- Display of engine parameters
- Interface to Autopilot, DP and Joystick