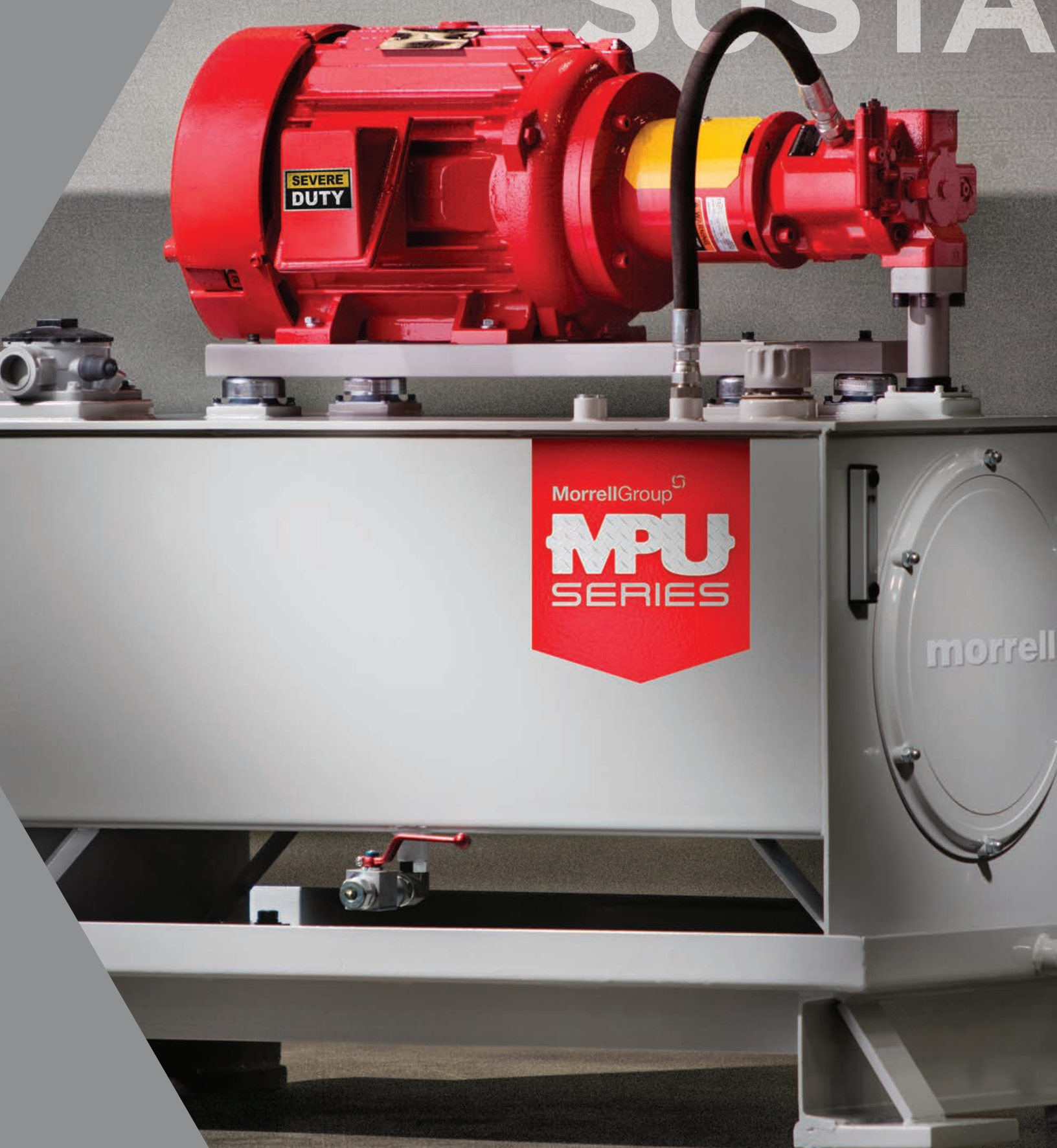


RETHINKING HYDRAULIC POWER UNITS



Introducing the MPU

SUSTA



INED VALUE

We're rethinking hydraulic power units.

We think they should perform worry free for far longer than most do.

We think they should be sized and outfitted just for what you need, so you don't waste money on anything more.

We think you should be able to order and receive what you need in weeks, not months or years.

We think whatever you order should have an industry leading warranty.

We think what you install should be backed by skilled technicians that are down the street, or at the very least no more than a town or two away.

We think that true value in hydraulic power units is all the above.

It's what we call sustained value.

There's a mindset today that value equals initial cost – that is, the least cost for something that will “do the job.”

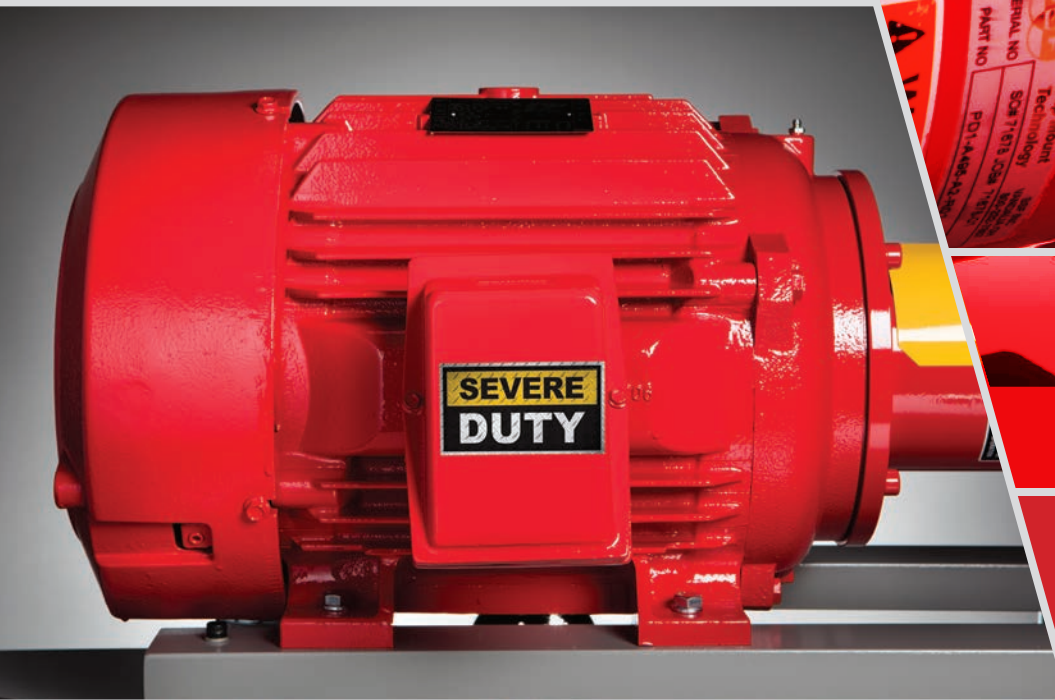
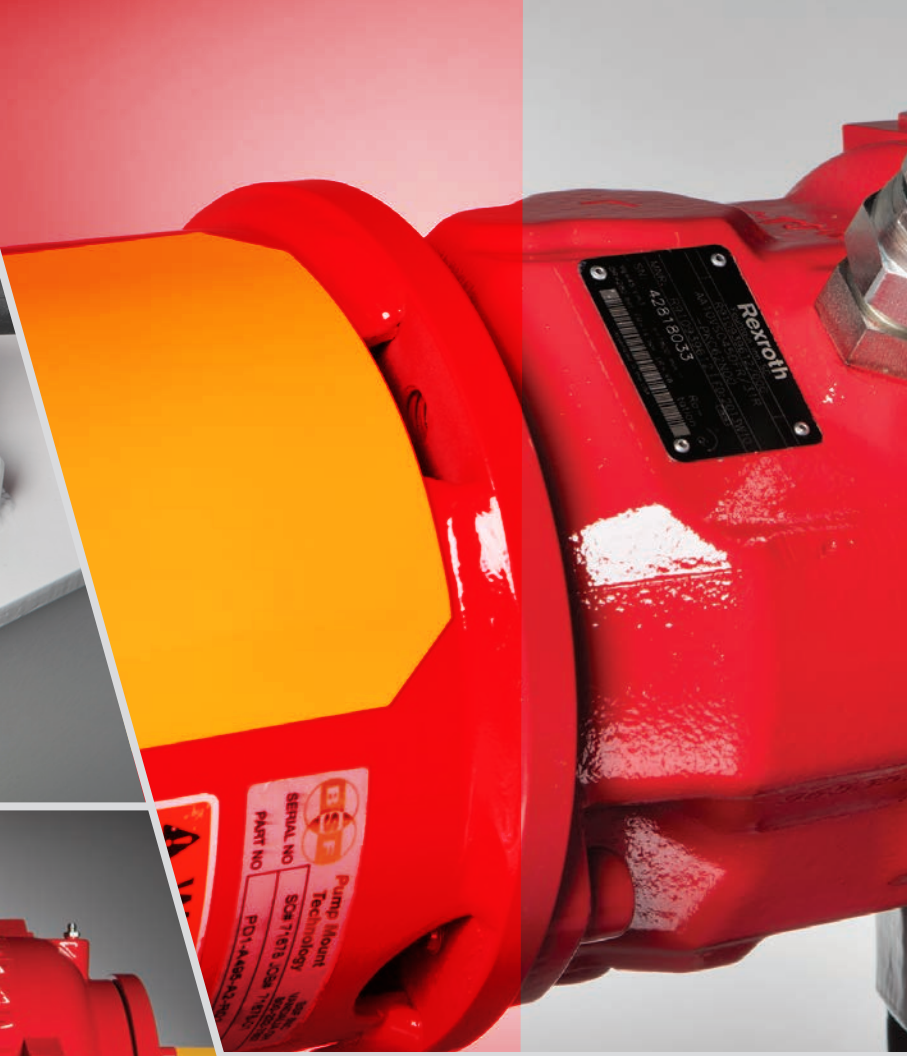
And perhaps it will “do the job.”
But how well? For how long?
How efficiently? How soon? How easily?

True value is sustained value – the value that answers these questions and more in ways that save money time and again throughout the life of a power unit's installation.

Welcome to the new family of Morrell Power Units. MPUs.

They're a whole new line of thought.





BUILT STRONG





Sustained value requires superior components. Components integrated in such a way to outperform and outlast your expectations, and provide outstanding ROI.

At the heart of every MPU is **the Rexroth A10 VSO axial piston pump** – world renown for durability, reliability, and performance.

Choose from four displacements – 28, 45, 71, and 100 cc/rev – with rated pressures to 4,000 psi. This is the **gold standard** of pumps: offering load sensing, proportional control, and more.

For **MPU muscle**, we use only totally enclosed, fan cooled (TEFC) premium efficiency motors. All NEMA designs, 230 or 460 VAC standard, running up to 1800 rpm.

FOR PERFORMANCE

To keep our MPUs breathing freely, we feature a choice of **world-class filtration systems**, each integrating a 10µm absolute in-tank return filter, visual dirty filter indicator, and 3µm filter breather.

And to provide a long-lasting core, our tanks are all **high-strength heavy-gage steel**, designed specifically to reduce cavitation and aeration. Choose from 20, 40, 60, and 100-gallon capacities, each with added touches that other power units lack – including a standard vibration dampening rail, sight gage, and drain plug.

The best pump, motor, filter, and tank. All readily available through our long-standing relationships with leading OEMs.

All expertly integrated through our proven engineering vision and practice – a legacy of craftsmanship delivering outstanding performance.

The Morrell MPU.

The **formula for sustained value.**

BUILT SMART FOR A LONG LIFE

When designing our family of MPUs, we could have stopped with the **best components**.

We didn't.

We choose to add the **quality details** and list of options that make our hydraulic power units world class.

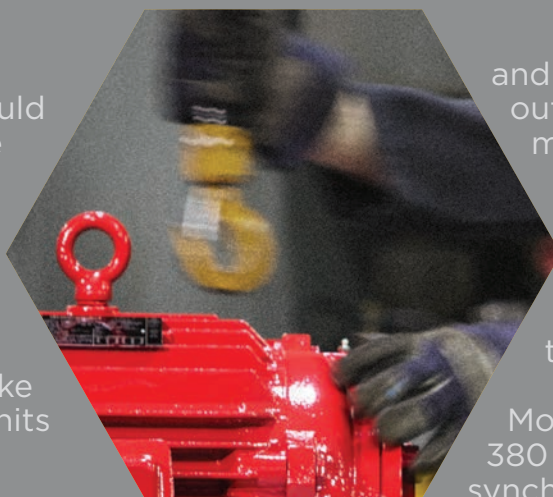
It begins with robust packaging, where the superstructure is designed to contain and protect components and fittings from the most **demanding operating environments**.

We replaced lightweight hosing used for the drain line on other units with **high-strength** flexible tubing and a relief valve – both rated to 3,000 psi. And added welding-in couplings to provide better sealing and reduced maintenance.

We chose cast motor mounts and SAE 37° flare fittings.

We opted for a liquid-filled system pressure gage providing more **robust operation** and stable pressure measurement.

Our tanks come with feet to keep them off the ground, a drip rail to keep the workspace clean and safe,



and an easy access clean-out to speed routine maintenance.

Our MPUs also come with a broad line of options that make our standard units custom to your exacting needs.

Motor options include 380 VAC power, servo and synchronous motors, and **severe-duty** designs.

Optional vibration dampening isolation is available to reduce unit noise and vibration to industry leading levels.

Filtration system options include duplex filters, off-line filters, absolute pressure filters, water removal filters, desiccant breathers, water or air-cooled heat exchangers, electrical level/temperature/pressure indicators, and more.

For hard-to-access applications, welded-in fittings are available as a replacement for troublesome bolt-and-nut couplings.

And any of our family of MPUs can be built in stainless steel, and with metric fittings, upon request.

Quality in all the details.
Options for whatever you need.
That's sustained value.



FEATURES

1. Heavy-gage, fully welded steel reservoir.
2. Welded tank mounting pads.
3. Welded risers for all tank components.
4. Robust tank drain.
5. Heavy duty shock mounts.
6. Vibration-canceling pump grommet.
7. Low noise, highly rigid shaft coupling.
8. Secure, fully crimped drain lines.
9. Two 6-bolt DIN leak-free clean outs.
10. Heavy-duty drip pan with drain plug.
11. Mounting pads for leveling and tie down.
12. Vibration reducing motor rails.



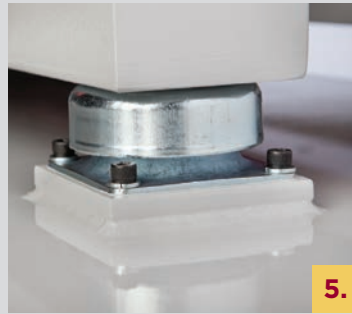
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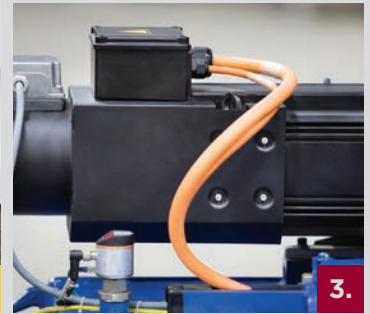
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OPTIONS

1. Robust control cabinet.
2. Premium cooler.
3. Heavy duty servo drive.
4. Precision electrical sensors.
5. Maintenance-free heat exchanger.
6. Heavy duty external filtration.
7. World-class hydraulic manifolds.



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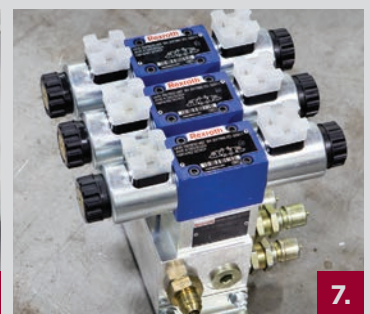
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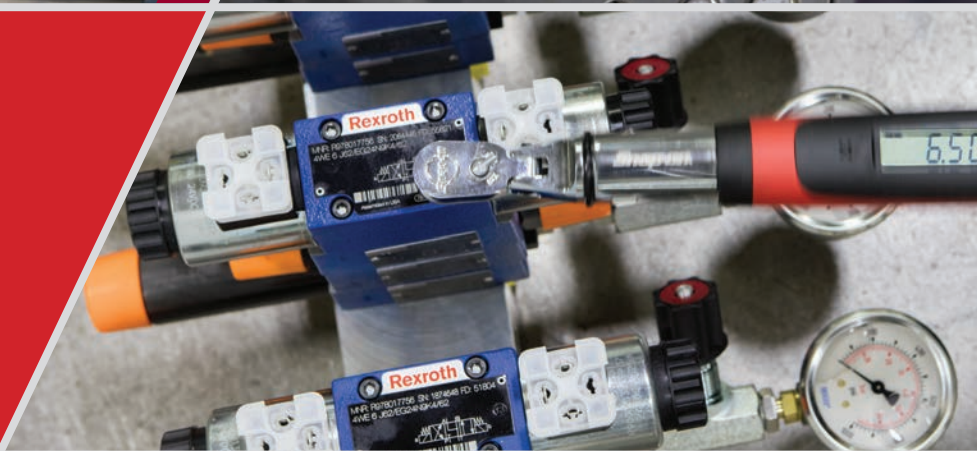
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1. Precision welding by certified technicians.
2. Automotive quality paint booth.
3. Industry leading verification testing.
4. Precision tightening with a torque wrench.
5. Die-penetrant leak testing.
6. High-pressure hose cleaning.
7. Unit-by-unit noise testing.



5.



6.



7.



BUILT TO BE WORRY FREE

As much as we are known for the components, details, and options that make up our products, we are renown for the **quality processes** that assure the performance of each product delivered.

Processes that begin with **unparalleled build practices** – from retaining only certified welders and veteran pipefitters, to cleaning every product tube and hose with high-pressure air prior to final assembly, and tightening every bolt with a torque wrench. An attention to detail that extends to painting our MPUs using tin-foil wraps and a production spray booth for an automotive-quality finish.

Unparalleled build practices supported by **industry leading verification testing**.

We take every MPU up to 500 HP in varying voltage ranges, and run each unit up to system pressures, to verify that motor, pump, and filter are working as intended.

Safety is critical to us, and so we check even the smallest details – right down to the unit grounding.

We thoroughly inspect every MPU tank before adding fluid, so that it's clean from any manufacturing debris. We fill each tank only with filtered oil. And our tanks pass a die-penetrant leak test assuring their **integrity** before they reach your application.

Before the unit leaves our floor, we set all pressures and flows to customer specification. Then document each unit with **Built On and Tested By** labeling – so we can trace any issue, no matter how far in the future it may occur, right back to the source.

If it sounds like this should all be industry standard practice, it is not.

It is the standard of sustained value. And the standard of our MPUs.





RUGGED IN FOUR STANDARD SIZES

Morrell MPUs are available in **20, 40, 60,** and **100-gallon** configurations. All built to demanding **ISO standards.**

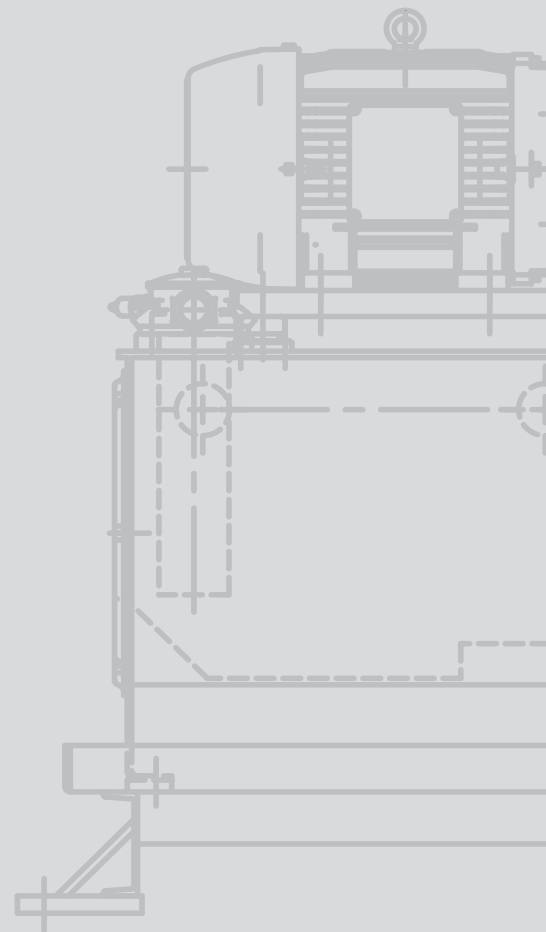
Developing our MPU family along standard sizes allows us to turn quotes in a day or less, and ship in as little as four weeks.

It also provides a solid base on which to quickly spec and build custom configurations to your exact needs.

Standard or customized, small to large capacity, the MPU integrates easily within the confines of the most challenging applications – from machine and punch presses, to industrial lifts, packaging operations, crushers, milling, and more.

There is no more **powerful, reliable, and rugged** hydraulic power unit available anywhere.

The Morrell MPU. Sustained value.





MPU	20	40	60	100
MOTOR				
NEMA DESIGN	STD	STD	STD	STD
TEFC DESIGN	STD	STD	STD	STD
230/460 VAC/60 Hz	STD	STD	STD	STD
1800 RPM	STD	STD	STD	STD
CAST MOTOR/PUMP MOUNT	STD	STD	STD	STD
SEVERE DUTY 1200 RPM MOTOR	OPT	OPT	OPT	OPT
380 VAC/50 Hz	OPT	OPT	OPT	OPT
SERVO/SYNCHRONOUS OPERATION	OPT	OPT	OPT	OPT
METRIC CONFIGURATION	OPT	OPT	OPT	OPT
PUMP				
REXROTH A10 VSO	STD	STD	STD	STD
CAPACITY (CC/REV)	28	45	71	100
RATED PRESSURE TO 4,000 PSI	STD	STD	STD	STD
LOAD SENSING	STD	STD	STD	STD
PROPORTIONAL CONTROL	OPT	OPT	OPT	OPT
HORSE POWER CONTROLLED	OPT	OPT	OPT	OPT
METRIC CONFIGURATION	OPT	OPT	OPT	OPT
FILTRATION				
10µm IN-TANK RETURN FILTER	STD	STD	STD	STD
VISUAL DIRTY FILTER INDICATOR	STD	STD	STD	STD
3µm FILTER BREATHER	STD	STD	STD	STD
ABSOLUTE PRESSURE FILTER	OPT	OPT	OPT	OPT
DUPLEX FILTER	OPT	OPT	OPT	OPT
OFF-LINE FILTER	OPT	OPT	OPT	OPT
WATER REMOVAL FILTER	OPT	OPT	OPT	OPT
DESICCANT BREATHERS	OPT	OPT	OPT	OPT
OPTIONS				
WATER/AIR-COOLED HEAT EXCHANGER	OPT	OPT	OPT	OPT
LEVEL/TEMP/PRESSURE	OPT	OPT	OPT	OPT
METRIC CONFIGURATION	OPT	OPT	OPT	OPT
STAINLESS STEEL BUILD	OPT	OPT	OPT	OPT
TANK				
HIGH STRENGTH 14 GAGE STEEL	STD	STD	STD	STD
VIBRATION DAMPENING RAIL	STD	STD	STD	STD
SIGHT GAGE	STD	STD	STD	STD
DRAIN PLUG	STD	STD	STD	STD
WELDED-IN-FITTINGS	STD	STD	STD	STD
CLEAN OUT COVERS	STD	STD	STD	STD
VIBRATION DAMPENING ISOLATION	STD	STD	STD	STD
DRAIN VALVE	STD	STD	STD	STD
DRIP PAN	STD	STD	STD	STD
WELDED IN TANK LEGS	STD	STD	STD	STD
IN-TANK BAFFLES	NA	NA	STD	STD
CUSTOM DESIGNS	OPT	OPT	OPT	OPT
METRIC CONFIGURATION	OPT	OPT	OPT	OPT
STAINLESS STEEL BUILD	OPT	OPT	OPT	OPT
MISCELLANEOUS				
SAE 37 DEGREE FLARE FITTINGS	STD	STD	STD	STD
3,000 PSI RATED HOSES	STD	STD	STD	STD
SYSTEM RELIEF VALVE/ 3,000 PSI	STD	STD	STD	STD



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