PRODUCT GUIDE

POWER TAKE-OFFS AND HYDRAULIC COMPONENTS

MUNCIE

A MEMBER OF

INTERPUMP GROUP

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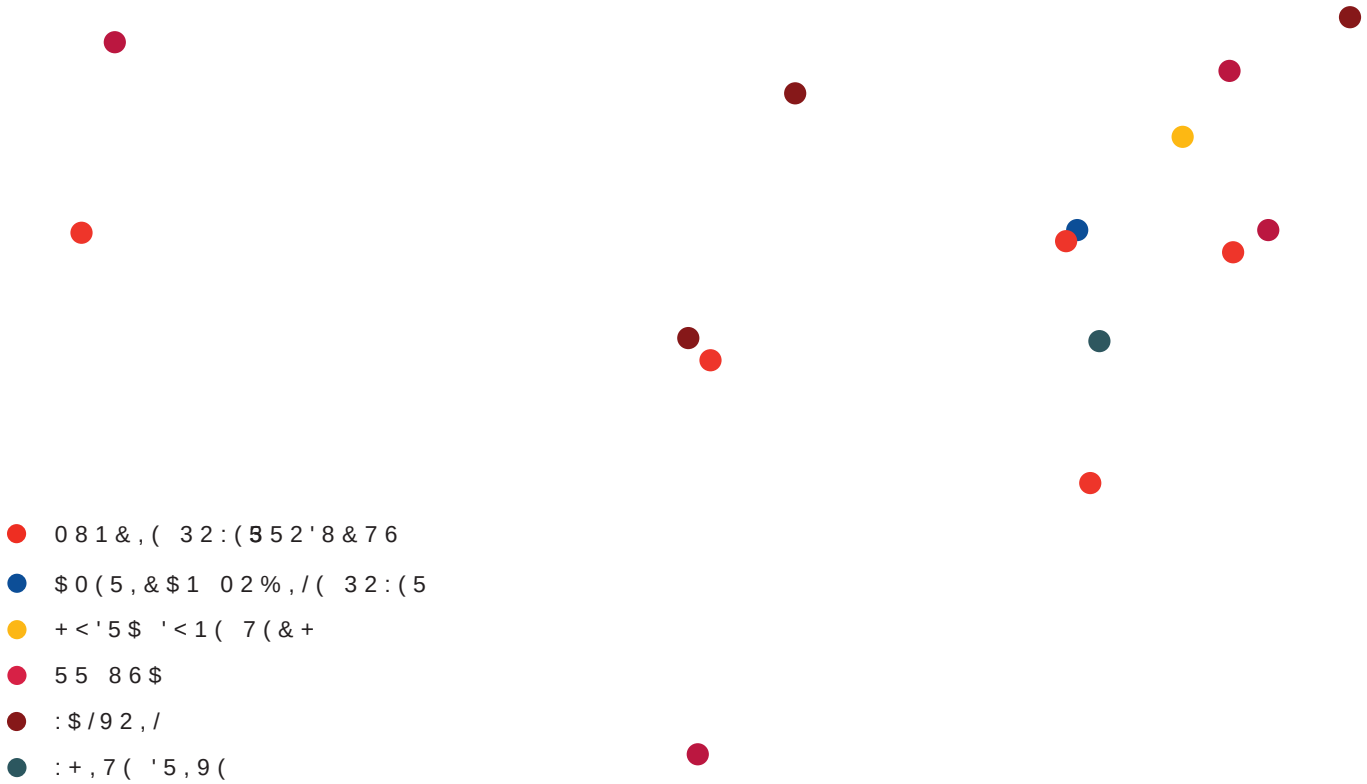
INTERPUMP GROUP

Muncie Power Products is a proud member of the Interpump Group—an Italian based, multinational organization—that consists of 115 companies in 34 countries, with an impact spanning across the world. Interpump Group is known for being the world's largest producer of professional high-pressure piston pumps as well as the largest T H U \ M H J [\ Y L Y V M W V ^ L Y [H R L V \ Z 0 U [L Y W \ T W . Y V \ W P Z H S Z V V U L V M [O L Å V ^ O H U K S P U N O ` K Y H \ S P J Z H U K W V ^ L Y [Y H U Z T P Z Z P V U T H Y R L [Z

4 \ U J P L 7 V ^ L Y Q V P U L K 0 U [L Y W \ T W . Y V \ W P U ; O P Z W H Y [U L Y Z O P W H U K O H Z O L S W L K K L] L S V W 4 \ U J P L 7 V ^ L Y P U [V V U L V M [O L S L H K P U N W Y V] P K L Y North America.

North American Hydraulic & Power Transmission Products

Interpump Group continues to grow its footprint in North America through new acquisitions and empowering sustainable brands. In North America, six companies make Interpump Group a leader in the North American PTO, hydraulic, and power transmission markets. These organizations include American Mobile Power, Hydra Dyne Tech, Muncie Power, RR USA, Walvoil, and White Drive Motors & Steering. Together, these companies provide a wide breadth of high-quality solutions for several industries across North America.



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Muncie Power Products

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:PUJL 4\UJPL 7V^LY OHZ [HRLU WYPKL PU WYV]PKPUN \UWHYHSSLS *\Z[VTLYZ ^OV JVTL [V 4\UJPL 7V^LY \UKLYZ[HUK [OH[^L W\[WLVWSL Ä

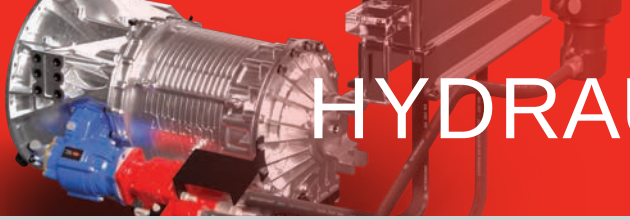
The vehicles our products power are critical to the communities we live and work in, and we understand how vital it is that our products work when you need them to. Our continuous investment in our people allows us to maintain V\Y OPNO X\HSP[` Z[HUKHYKZ HZ ^LSS HZ PU]LZ[PU UL^ WYVK\J[PUUV] to install, and last longer.

INTERPUMP HYDRAULICS
PERFORMING SOLUTIONS

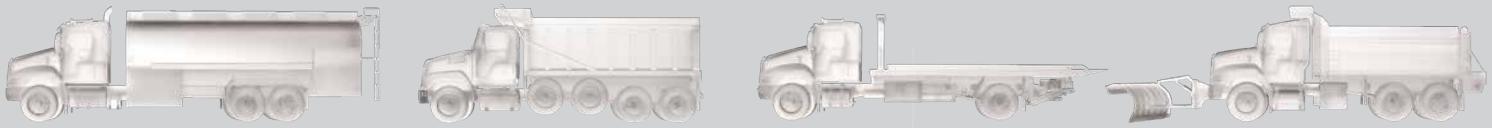
Muncie Power is the sole provider of Interpump Hydraulics in North America. Located in Europe, Interpump Hydraulics is the combination of multiple well-known manufacturers with decades of experience in the work truck industry working together. Through this partnership, Muncie Power is able to expand its 7;6 HUK O`KYH\SPJZ V\LYPUNZ ^OPSL THPU[HPUPUN [OL high level of quality you trust.

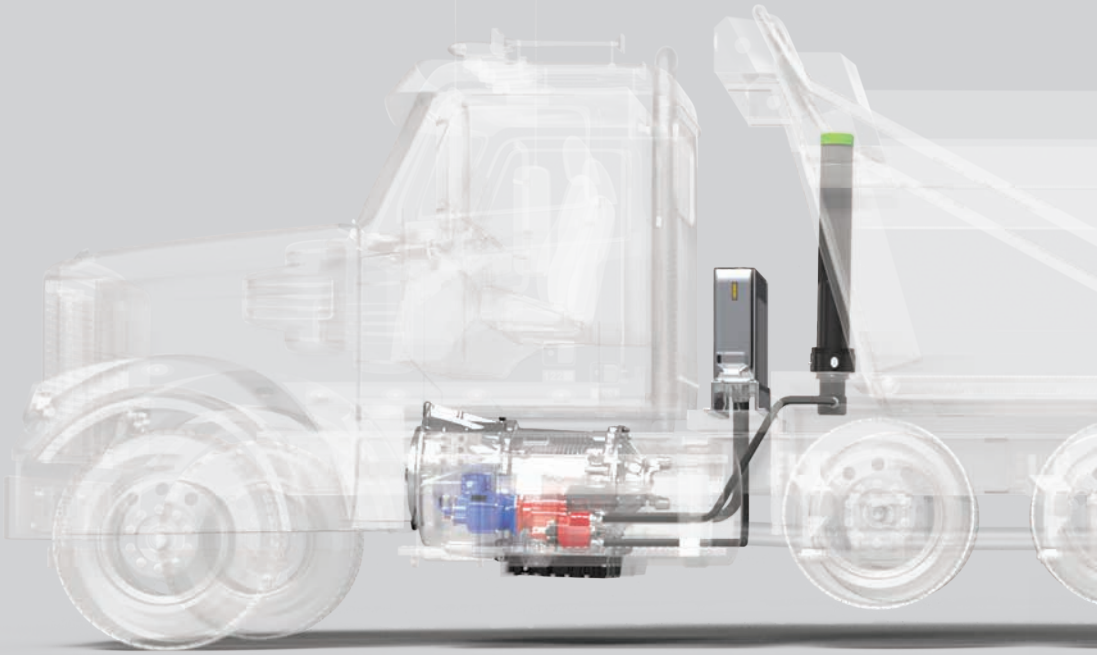
FLUID SOLUTIONS
Powered by I.M.M. Hydraulics

Muncie Power is the only provider of Interpump Fluid Solutions in North America. Located in Europe, Interpump Fluid Solutions is made up of multiple manufacturers who form one of the leading providers VM OVZL Ä[[PUNZ THJOPULZ HUK H the world. With more than 30 years of manufacturing experience, Interpump Fluid Solutions is a trusted WYVK\JLY VM OPNO X\HSP[` Å\PK JVU that are engineered and tested to work together.



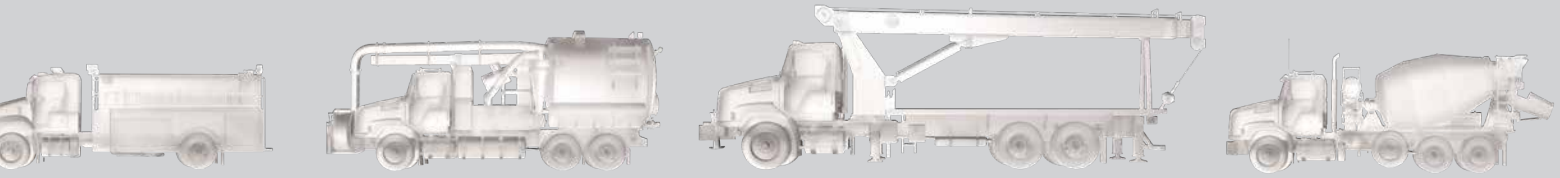
HYDRAULIC SYSTEMS





		Allison			Ford			Eaton				Detroit	Ram		Aisin	Mack		PACCAR			Volvo
Mechanical Shift	Light-Duty	TG6						TG	TG	TG8	TG8	TG8				TG			TG8	TG8	
	Medium-Duty							SH	SH	SH8						SH			SH8		
	Heavy-Duty							82	82	82	82	82				82			82	82	
Clutch Shift	Light-Duty				FR6Q								Z25	FA6B	FA6B			Z25			
	Medium-Duty	CS6	A20	A20		F20	F22	CS	CS			CS8	Z21	CS6	CS6	CS		Z21			
	Heavy-Duty		CS10 CS40	CS10 CS40														P58			
Constant Drive	Medium-Duty		A30	A30																	
Rear Mount	Light-Duty									P82	P82								P82	P82	
	Medium-Duty									P86		P89					P86		P86		P86
	Heavy-Duty									P81	P81						P81		P81	P81	P81
Shaft Extension			XS	XS																	

5 5 5 +' 5RDGUDQJHU 8OWUDVKLIW (QGXUDQW +' (QGXUDQW :' '7 7RUTXH)OLWH +' =) 3RZHU/LQH 5& $6 5& $ $6 $ 0D[LWRUTXH P'5,9(7: 7: 7: , 6KLIW



PTO SOLUTIONS FOR ALL POPULAR TRANSMISSIONS

AISIN Allison Transmission DETROIT EATON

Ford MACK PACCAR RAM VOLVO ZF

AISIN TRANSMISSIONS

CLUTCH SHIFT

MUNCIE POWER PRODUCTS

FA6B-I84

- 6-bolt clutch shift PTO
- Angular housing moves the clutch-shifted output below chassis obstructions for either driveshaft applications or direct mount pumps
- Advanced gear design provides reduced noise

MAX. TORQUE INTERMITTENT:	S I Z M [5 T
MAX. HP (@ 1,000 RPM) INTERMITTENT:	/ 7 R >
APPROX. WEIGHT	S I Z 2 N

MUNCIE POWER PRODUCTS

CS6B-I84

- 6-bolt clutch shift PTO with patented drag brake
- ÷ Rotatable direct-mount ÅHUNLZ HSSV^ [OL W\TAV to be positioned for maximum clearance

MAX. TORQUE INTERMITTENT:	S I Z M [5 T
MAX. HP (@ 1,000 RPM) INTERMITTENT:	/ 7 R >
APPROX. WEIGHT	S I Z 2 N

Gear adapters available to create space, change the PTO output shaft' s rotation, or relocate the output shaft.

* PTOs are derated to match transmission ratings.

ALLISON TRANSMISSIONS
1000 & 2000 SERIES

MECHANICAL SHIFT

MUNCIE POWER PRODUCTS
TG6B-A69

- Versatile 6-bolt mechanical shift PTO
- Lightweight, reduced noise, and superior heat dissipation

MAX. TORQUE INTERMITTENT:	S I Z M [5 T
MAX. HP (@ 1,000 RPM) INTERMITTENT:	/ 7 R >
APPROX. WEIGHT	S I Z 2 N

Gear adapters available to create space, change the PTO output shaft' s rotation, or relocate the output shaft.

CLUTCH SHIFT

MUNCIE POWER PRODUCTS
CS6B-A67

- 6-bolt clutch shift PTO with patented drag brake
- + P Y L J [T V \ U [Å H U N L Z ^ P [O H I P S P [` to rotate allow the pump to be positioned for maximum clearance
- Gear box available for PTO speed Y L K \ J [P V U < Z L *:.)

MAX. TORQUE INTERMITTENT:	S I Z M [5 T
MAX. HP (@ 1,000 RPM) INTERMITTENT:	/ 7 R >
APPROX. WEIGHT	S I Z 2 N

Gear adapters available to create space, change the PTO output shaft' s rotation, or relocate the output shaft.

* PTOs are derated to match transmission ratings.

ALLISON TRANSMISSIONS
3000 & 4000 SERIES

CLUTCH SHIFT

MUNCIE POWER PRODUCTS
A20-A10

- Medium-duty, 10-bolt clutch shift PTO
- (YV[H[HISL W\TW ÅHUNL HSSV^Z for 30 unique positions
- Increased clearance for easier installation
- Shift cover allowing 360-degree rotation
- ÷ Tapered roller bearings increasing PTO life

MAX. TORQUE INTER./CONTINUOUS:	SIZ M[5T
MAX. HP (@ 1,000 RPM) INTER./CONTINUOUS:	/7 R>
APPROX. WEIGHT	SIZ 2N

Muncie Start ®: Shift Code SX (12 V Integral) or Shift Code SR (12 V Remote Mount)

See page 67 for additional Muncie Start information.

MUNCIE POWER PRODUCTS
CS10-A10 OR CS11-A10

- Heavy-duty, 10-bolt clutch shift PTO
- Versatility for both remote and direct mount pumps with YV[H[HISL KPYLJ[TV\U[ÅHUNLZ

MAX. TORQUE INTERMITTENT:	SIZ M[5T
MAX. HP (@ 1,000 RPM) INTERMITTENT:	/7 R>
APPROX. WEIGHT	SIZ 2N

MUNCIE POWER PRODUCTS
CS40-A10 OR CS41-A10

- Heavy-duty, 10-bolt clutch shift PTO
- Precision-ground gears allow for high-torque capacity with quiet operation
- Use CS40-A10 for 3700 Series

MAX. TORQUE INTERMITTENT:	SIZ M[5T
MAX. HP (@ 1,000 RPM) INTERMITTENT:	/7 R>
APPROX. WEIGHT	SIZ 2N

Muncie Start ®: Special Feature Option 6 (Stationary or Mobile)

See page 67 for additional Muncie Start information.

* PTOs are derated to match transmission ratings.

CONSTANT DRIVE

MUNCIE POWER PRODUCTS

A30-A10

- Medium-duty, 10-bolt constant drive/continuous duty PTO
- 5 L ^ Y V [H [H I S L W \ T W Å H U N L allows for 30 unique positions
- Single continuous/intermittent torque rating

MAX. TORQUE	
INTER./CONTINUOUS:	S I Z M [5 T
MAX. HP (@ 1,000 RPM)	
INTER./CONTINUOUS:	/ 7 R >
APPROX. WEIGHT	S I Z 2 N

MUNCIE POWER PRODUCTS

EX DRIVE

- Designed for the Allison 3000 and 4000 Series transmissions with a cooler or retarder allowing for larger gear or piston pumps to be direct mounted
- The EX Drive can be paired with the A20, A30 CS10/ CS11, and CS40/CS41 Series PTOs
- Shaft extension models are available for both clutch shift and constant drive Muncie Power PTOs and are equipped with wet-spline couplings

MAX. TORQUE	
WITH A20/A30:	
INTER./CONTINUOUS:	S I Z M [
WITH CS10/CS11:	
INTERMITTENT:	S I Z M [5
WITH CS40/CS41:	
INTERMITTENT:	S I Z M [5 T
MAX. HP (@ 1,000 RPM)	
WITH A20/A30:	/ 7 R >
WITH CS10/CS11:	/ 7 R >
WITH CS40/CS41:	/ 7 R >
APPROX. WEIGHT	S I Z 2 N

ALLISON TRANSMISSIONS
5000, 6000, 8000, & 9000 SERIES

MECHANICAL SHIFT

MUNCIE POWER PRODUCTS
828S-U62

- Heavy-duty, 8-bolt mechanical shift PTO
- Cast-iron housing, lever or air shift, and optional single- or dual-pump mounts
- Designed for use with high-torque mechanical equipment

MAX. TORQUE INTERMITTENT:	S I Z M [5 T
MAX. HP (@ 1,000 RPM) INTERMITTENT:	/ 7 R >
APPROX. WEIGHT	S I Z 2 N

DETROIT DIESEL TRANSMISSIONS
DT12

MECHANICAL SHIFT – REAR MOUNT

INTERPUMP HYDRAULICS
P89-D1*

- + L Z P N U L K [V Ä [[O L
  DT12 Series transmission in Freightliner, or Western Star Class 8 Cascadia trucks
- M1, M2, and M3 ratios

MAX. TORQUE INTERMITTENT:	S I Z M [5 T
MAX. HP (@ 1,000 RPM) INTERMITTENT:	/ 7 R >
APPROX. WEIGHT	S I Z 2 N

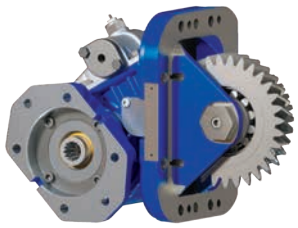
DETROIT DIESEL TRANSMISSIONS
DT12

MECHANICAL SHIFT

MUNCIE POWER PRODUCTS
TG8S-U68

- Versatile 8-bolt mechanical shift PTO
- Lightweight, bottom-mount PTO
- Requires adapter gear for use with DT12 transmissions

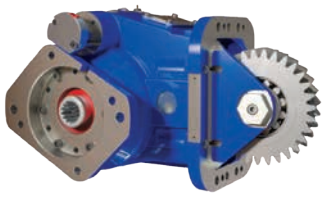
MAX. TORQUE INTERMITTENT:	S I Z M [5 T
MAX. HP (@ 1,000 RPM) INTERMITTENT:	/ 7 R >
APPROX. WEIGHT	S I Z 2 N



MUNCIE POWER PRODUCTS
828S-U68

- Heavy-duty 8-bolt mechanical shift PTO
- High torque, bottom-mount PTO
- Requires adapter gear for use with DT12 transmissions

MAX. TORQUE INTERMITTENT:	S I Z M [5 T
MAX. HP (@ 1,000 RPM) INTERMITTENT:	/ 7 R >
APPROX. WEIGHT	S I Z 2 N



CLUTCH SHIFT

MUNCIE POWER PRODUCTS
CS8B-U68

- 8-bolt clutch shift PTO with patented drag brake
- + P Y L J [T V \ U [Å H U N L Z ability to rotate allow the pump to be positioned for maximum clearance

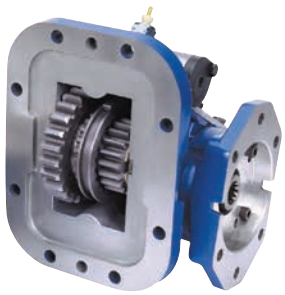
MAX. TORQUE INTERMITTENT:	S I Z M [5 T
^ P [O [O L MAX. HP (@ 1,000 RPM) INTERMITTENT:	/ 7 R >
APPROX. WEIGHT	S I Z 2 N

* PTOs are derated to match transmission ratings.

Note: Adapter gear part numbers for TG Series, 82 Series, and CS8 Series	
; (	DT12-OHE, DT12-OV
40TA6480	DT12-OVX

EATON/FULLER TRANSMISSIONS
ENDURANT HD (E80)/ENDURANT XD (E70)

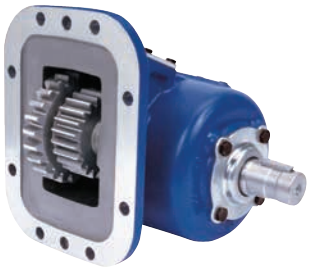
MECHANICAL SHIFT



MUNCIE POWER PRODUCTS
TG8F-E80 OR TG8F-E70

- Versatile 8-bolt mechanical shift PTO
- Lightweight, reduced noise, and superior heat dissipation

MAX. TORQUE INTERMITTENT:	S I Z M [5 T
MAX. HP (@ 1,000 RPM) INTERMITTENT:	/ 7 R >
APPROX. WEIGHT	S I Z 2 N



MUNCIE POWER PRODUCTS
SH8F-E80

- 8-bolt integral air shift PTO
- High-torque capacity to meet demanding applications
- Fits most popular pump types
- Endurant HD 12-speed only

MAX. TORQUE INTERMITTENT:	S I Z M [5 T
MAX. HP (@ 1,000 RPM) INTERMITTENT:	/ 7 R >
APPROX. WEIGHT	S I Z 2 N

MUNCIE POWER PRODUCTS
828F-E80 OR 828F-E70

- Heavy-duty, 8-bolt mechanical shift PTO
- Cast-iron housing, lever or air shift, and optional single- or dual-pump mounts
- Designed for use with high-torque mechanical equipment

MAX. TORQUE INTERMITTENT:	S I Z M [5 T
MAX. HP (@ 1,000 RPM) INTERMITTENT:	/ 7 R >
APPROX. WEIGHT	S I Z 2 N

* PTOs are derated to match transmission ratings.

ENDURANT HD (EHD)/ENDURANT XD (EXD)

MECHANICAL SHIFT – REAR MOUNT

INTERPUMP HYDRAULICS

P81-EHD OR P81-EXD

• Mechanically shifted through-shaft PTO ÷ Heavy-duty PTO for high-torque applications ÷ Driveline applications ÷ Includes adapter and stud kit	MAX. TORQUE INTERMITTENT: S I Z M [5 T MAX. HP (@ 1,000 RPM) INTERMITTENT: / 7 R > APPROX. WEIGHT S I Z 2 N

INTERPUMP HYDRAULICS

P82-EXD

• Mechanically shifted through-shaft PTO ÷ Driveline and direct mount pump applications ÷ DIN and SAE outputs ÷ Includes adapter and stud kit	MAX. TORQUE INTERMITTENT: S I Z M [5 T MAX. HP (@ 1,000 RPM) INTERMITTENT: / 7 R > APPROX. WEIGHT S I Z 2 N

INTERPUMP HYDRAULICS

P84-EHD or P84-EXD

• Mechanically shifted through-shaft PTO ÷ Driveline and direct mount pump applications ÷ DIN and SAE outputs ÷ Includes adapter and stud kit	MAX. TORQUE INTERMITTENT: S I Z M [5 T MAX. HP (@ 1,000 RPM) INTERMITTENT: / 7 R > APPROX. WEIGHT S I Z 2 N

INTERPUMP HYDRAULICS

P86-EXD

• Mechanically shifted through-shaft PTO ÷ Driveline and direct mount pump applications ÷ DIN and SAE outputs ÷ Includes adapter and stud kit	MAX. TORQUE INTERMITTENT: S I Z M [5 T MAX. HP (@ 1,000 RPM) INTERMITTENT: / 7 R > APPROX. WEIGHT S I Z 2 N

EATON/FULLER TRANSMISSIONS
ROADRANGER/ULTRASHIFT

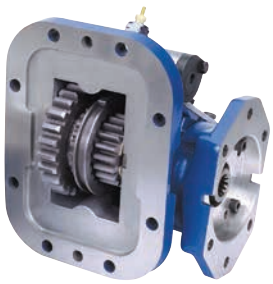
MECHANICAL SHIFT

MUNCIE POWER PRODUCTS

8405A (Use 8405B for metric stud kit)

- 8-bolt PTO for Eaton transmissions
- Robust design provides a rigid structure for high vibration environments

MAX. TORQUE INTERMITTENT:	S I Z M [5 T
MAX. HP (@ 1,000 RPM) INTERMITTENT:	/ 7 R >
APPROX. WEIGHT	S I Z 2 N

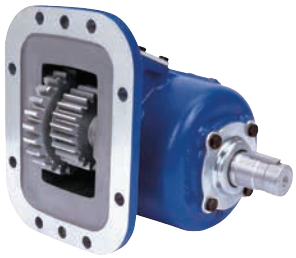


MUNCIE POWER PRODUCTS

TG8B-U68 OR TG8S-U68

- Versatile 8-bolt mechanical shift PTO
- Lightweight, reduced noise, and superior heat dissipation

MAX. TORQUE INTERMITTENT:	S I Z M [5 T
MAX. HP (@ 1,000 RPM) INTERMITTENT:	/ 7 R >
APPROX. WEIGHT	S I Z 2 N



MUNCIE POWER PRODUCTS

SH8B-U68 OR SH8S-U68

- 8-bolt integral air shift PTO
- High-torque capacity to meet demanding applications
- Fits most popular pump types
- U60 gear code may also be used

MAX. TORQUE INTERMITTENT:	S I Z M [5 T
MAX. HP (@ 1,000 RPM) INTERMITTENT:	/ 7 R >
APPROX. WEIGHT	S I Z 2 N

MUNCIE POWER PRODUCTS

828B-U68 OR 828S-U68

- Heavy-duty, 8-bolt mechanical shift PTO
- Cast-iron housing, lever or air shift, and optional single- or dual-pump mounts
- Designed for use with high-torque mechanical equipment

MAX. TORQUE INTERMITTENT:	S I Z M [5 T
MAX. HP (@ 1,000 RPM) INTERMITTENT:	/ 7 R >
APPROX. WEIGHT	S I Z 2 N

Note: U68 input gear can be replaced with S68 to obtain output speed 92% engine speed. Spacer and stud kit required.

ROADRANGER/ULTRASHIFT

CLUTCH SHIFT

MUNCIE POWER PRODUCTS

CS6B-U68 OR CS6S-U68

- 6-bolt clutch shift PTO with patented drag brake
- +PYLJ[TV\U[ÅHUNLZ ^P[O [OL ability to rotate allow the pump to be positioned for maximum clearance

MAX. TORQUE INTERMITTENT:	SIZ M[5T
MAX. HP (@ 1,000 RPM) INTERMITTENT:	/7 R>
APPROX. WEIGHT	SIZ 2N

Gear adapters available to create space, change the PTO output shaft' s rotation, or relocate the output shaft.

MUNCIE POWER PRODUCTS

CS8B-U68 OR CS8S-U68

- 8-bolt clutch shift PTO with patented drag brake
- +PYLJ[TV\U[ÅHUNLZ ^P[O [OL ability to rotate allow the pump to be positioned for maximum clearance

MAX. TORQUE INTERMITTENT:	SIZ M[5T
MAX. HP (@ 1,000 RPM) INTERMITTENT:	/7 R>
APPROX. WEIGHT	SIZ 2N

* PTOs are derated to match transmission ratings.

FORD TRANSMISSIONS
TORQSHIFT 6R140 6-SPEED

CLUTCH SHIFT

MUNCIE POWER PRODUCTS
FR6Q-F12

Rating shown is for stationary applications only.

- 6-bolt clutch shift PTO
- Fits Ford Super Duty trucks with Ford 6R140 transmissions, primarily F-350–F-550 (may also I L \ Z L K V U - ¶ -
- Patented noise abatement mechanism eliminates virtually all gear rattle noise

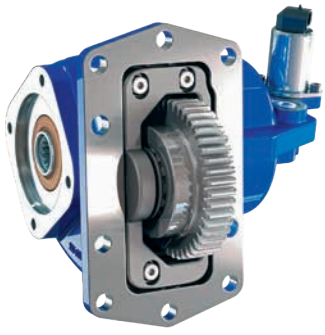
MAX. TORQUE INTERMITTENT:	S I Z M [5 T
MAX. HP (@ 1,000 RPM) INTERMITTENT:	/ 7 R >
APPROX. WEIGHT	S I Z 2 N

Muncie Start ®: Special Feature Option 6 (Stationary OR Mobile) or Special Feature Option 7 (Stationary AND Mobile, only available on 6, F, and D shift options)

See page 67 for additional Muncie Start information.

10R140 10-SPEED FOR F-250—F-600 SUPER DUTY GAS & DIESEL TRUCKS

MUNCIE POWER PRODUCTS
CLUTCH SHIFT
F20-F13



- 10-bolt clutch shift PTO
- Designed for the Ford Super Duty trucks F-250–F-600, with the Ford 10R140 transmissions
- Features patented noise abatement technology
- Plug & play wire harness

MAX. TORQUE INTERMITTENT:	S I Z M [5 T
MAX. HP (@ 1,000 RPM) INTERMITTENT:	/ 7 R >
APPROX. WEIGHT	S I Z 2 N

Muncie Start ®: Shift Option GS (Gas Engine), Shift Option DS (Diesel Engine), or Shift Option RS (Reduced Harness)

See page 67 for additional Muncie Start information.

10R140 10-SPEED FOR F–650 & F–750 SUPER DUTY DIESEL TRUCKS

CLUTCH SHIFT

MUNCIE POWER PRODUCTS
F22-F13

- 8-bolt mounting pattern unique to the 10R140 10-speed F-650 & F-750 Super Duty diesel trucks for model year 2024
- :[HUKHYK W\TW ÅHUNL HSSV^PUN [OL \ZL VM KP\LYLU[4\UJPL Power series of hydraulic pumps directly to the PTO
- Features patented noise abatement technology
- Plug & play wire harness and RPM Control Module

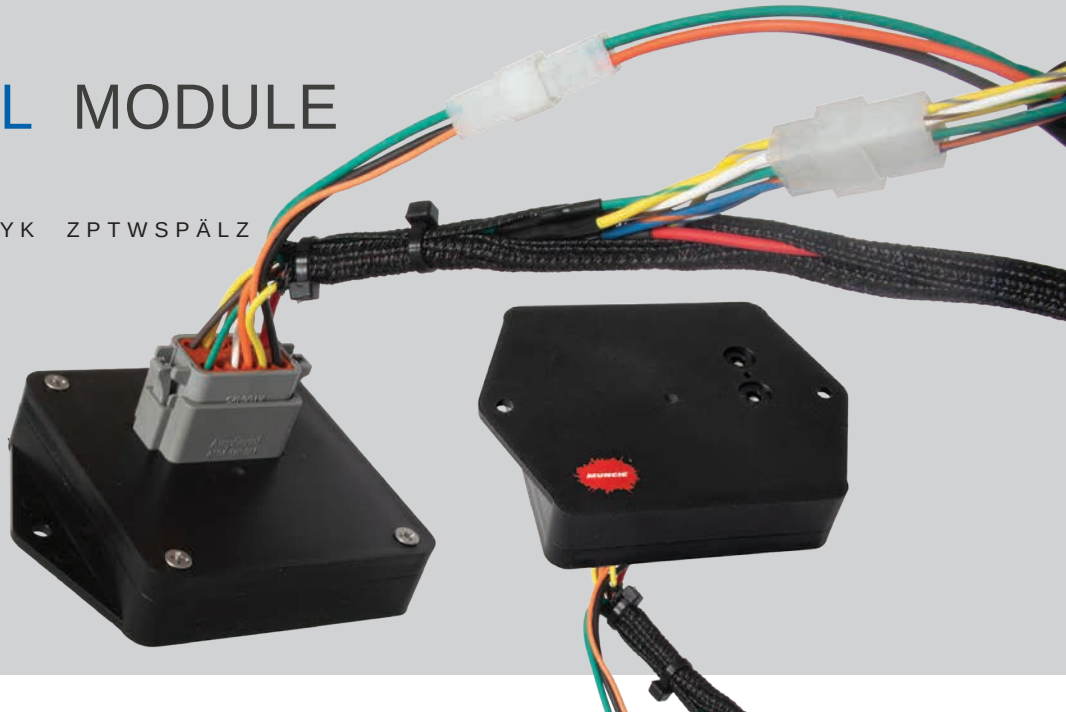
MAX. TORQUE INTERMITTENT:	SIZ M[5T
MAX. HP (@ 1,000 RPM) INTERMITTENT:	/7 R>
APPROX. WEIGHT	SIZ 2N

Muncie Start ®: Shift Option DS 12 V (Diesel Engine) or Shift Option RS 12 V (Reduced Harness)

See page 67 for additional Muncie Start information.

MUNCIE POWER PRODUCTS
RPM CONTROL MODULE

- Plug & play wire harness module, ZVVU [V ILJVTL Z[HUKHYK ZPTWSPÄLZ the installation process
- Replaces the traditional analog components and harnesses
- LED light sequences provide information to diagnose and notify ZWLJPÄJ WYVISLTZ HSSV troubleshooting



MACK TRANSMISSIONS
MAXITORQUE ES

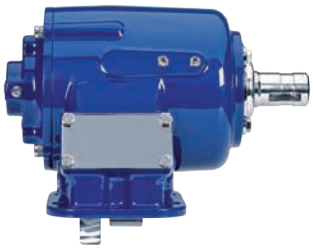
MUNCIE POWER PRODUCTS
MECHANICAL SHIFT
TG6S-M65

- Versatile 6-bolt mechanical shift PTO
- Lightweight, reduced noise, and superior heat dissipation

MAX. TORQUE INTERMITTENT:	S I Z M [5 T
MAX. HP (@ 1,000 RPM) INTERMITTENT:	/ 7 R >
APPROX. WEIGHT	S I Z 2 N

Gear adapters available to create space, change the PTO output shaft 's rotation, or relocate the output shaft.

MUNCIE POWER PRODUCTS
SH6S-M65



- 6-bolt integral air shift PTO
- High-torque capacity to meet demanding applications
- Fits most popular pump types

MAX. TORQUE INTERMITTENT:	S I Z M [5 T
MAX. HP (@ 1,000 RPM) INTERMITTENT:	/ 7 R >
APPROX. WEIGHT	S I Z 2 N

Gear adapters available to create space, change the PTO output shaft' s rotation, or relocate the output shaft.

MAXITORQUE ES (continued)

MECHANICAL SHIFT

MUNCIE POWER PRODUCTS

TG8S-M65

- Versatile 8-bolt mechanical shift PTO
- Lightweight, reduced noise, and superior heat dissipation

MAX. TORQUE INTERMITTENT:	S I Z M [5 T
MAX. HP (@ 1,000 RPM) INTERMITTENT:	/ 7 R >
APPROX. WEIGHT	S I Z 2 N

MUNCIE POWER PRODUCTS

SH8S-M65

- 8-bolt integral air shift PTO
- High-torque capacity to meet demanding applications
- Fits most popular pump types

MAX. TORQUE INTERMITTENT:	S I Z M [5 T
MAX. HP (@ 1,000 RPM) INTERMITTENT:	/ 7 R >
APPROX. WEIGHT	S I Z 2 N

MACK TRANSMISSIONS

CLUTCH SHIFT

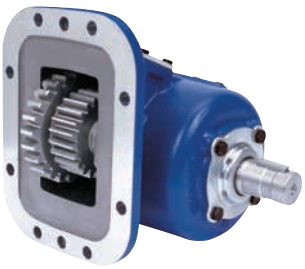
MUNCIE POWER PRODUCTS

CS6S-M65

- 6-bolt clutch shift PTO with patented drag brake
- +PYLJ[TV\U[ÅHUNLZ with ability to rotate allow the pump to be positioned for maximum clearance

MAX. TORQUE INTERMITTENT:	SIZ M[5T
MAX. HP (@ 1,000 RPM) INTERMITTENT:	/7 R>
APPROX. WEIGHT	SIZ 2N

Gear adapters available to create space, change the PTO output shaft' s rotation, or relocate the output shaft.



MUNCIE POWER PRODUCTS

CS8S-M65

- 8-bolt clutch shift PTO with patented drag brake
- +PYLJ[TV\U[ÅHUNLZ with ability to rotate allow the pump to be positioned for maximum clearance

MAX. TORQUE INTERMITTENT:	SIZ M[5T
MAX. HP (@ 1,000 RPM) INTERMITTENT:	/7 R>
APPROX. WEIGHT	SIZ 2N

mDRIVE

MECHANICAL SHIFT – REAR MOUNT

INTERPUMP HYDRAULICS
P81-VIS

• Mechanically shifted through-shaft PTO ÷ Heavy-duty PTO for high-torque applications ÷ Driveline applications ÷ Includes adapter and stud kit	MAX. TORQUE INTERMITTENT: 442 lbs.ft. 5 T MAX. HP (@ 1,000 RPM) INTERMITTENT: / 7 R > APPROX. WEIGHT S I Z 2 N

INTERPUMP HYDRAULICS
P82-VIS

• Mechanically shifted through-shaft PTO ÷ Driveline and direct mount pump applications ÷ DIN and SAE outputs ÷ Includes adapter and stud kit	MAX. TORQUE INTERMITTENT: S I Z M [5 T MAX. HP (@ 1,000 RPM) INTERMITTENT: / 7 R > APPROX. WEIGHT S I Z 2 N

INTERPUMP HYDRAULICS
P84-VIS

• Mechanically shifted through-shaft PTO ÷ Driveline and direct mount pump applications ÷ DIN and SAE outputs ÷ Includes adapter and stud kit	MAX. TORQUE INTERMITTENT: S I Z M [5 T MAX. HP (@ 1,000 RPM) INTERMITTENT: / 7 R > APPROX. WEIGHT S I Z 2 N

MECHANICAL SHIFT – REAR MOUNT

INTERPUMP HYDRAULICS
P86-VIS

- Mechanically shifted through-shaft PTO
  - ÷ Driveline and direct mount pump applications
  - ÷ DIN and SAE outputs
  - ÷ Includes adapter and stud kit

MAX. TORQUE INTERMITTENT:	S I Z M [5 T
MAX. HP (@ 1,000 RPM) INTERMITTENT:	/ 7 R >
APPROX. WEIGHT	S I Z 2 N

INTERPUMP HYDRAULICS
P88-VIS

- Mechanically shifted through-shaft PTO
  - ÷ Driveline and direct mount pump applications
  - ÷ DIN and SAE outputs
  - ÷ Includes adapter and stud kit

MAX. TORQUE INTERMITTENT:	S I Z M [5 T
MAX. HP (@ 1,000 RPM) INTERMITTENT:	/ 7 R >
APPROX. WEIGHT	S I Z 2 N

INTERPUMP HYDRAULICS

P90-VIS

- Dual output, heavy-duty PTO
- Driveline and direct mount pump applications

÷ Includes adapter and stud kit

MAX. TORQUE	
OUTPUT 1:	S I Z M [5 T
OUTPUT 2:	S I Z M [5 T
MAX. HP (@ 1,000 RPM)	
INTERMITTENT:	/ 7 R >
APPROX. WEIGHT	S I Z 2 N

INTERPUMP HYDRAULICS

P93-VIS

- Dual output, heavy-duty PTO

÷ Driveline and direct mount pump applications

÷ DIN and SAE outputs

÷ Includes adapter and stud kit

MAX. TORQUE	
OUTPUT 1:	S I Z M [5 T
OUTPUT 2:	S I Z M [5 T
MAX. HP (@ 1,000 RPM)	
INTERMITTENT:	/ 7 R >
APPROX. WEIGHT	S I Z 2 N

PACCAR TRANSMISSIONS
PACCAR TX-8

MECHANICAL SHIFT

INTERPUMP HYDRAULICS
P58-Z11

- Pneumatically shifted clutch pack
- ÷ Internally pressure-lubricated bearings
- ÷ Compatible with most common gear pumps
- ÷ 121% of engine speed

MAX. TORQUE INTER./CONTINUOUS:	S I Z M [5 T
MAX. HP (@ 1,000 RPM) INTER./CONTINUOUS:	/ 7 R >
APPROX. WEIGHT	S I Z 2 N

INTERPUMP HYDRAULICS
P60-Z11

- Pneumatically shifted clutch pack
- ÷ Internally pressure-lubricated bearings
- ÷ Compatible with most common gear pumps
- ÷ 121% of engine speed

MAX. TORQUE INTERMITTENT:	S I Z M [5 T
MAX. HP (@ 1,000 RPM) INTERMITTENT:	/ 7 R >
APPROX. WEIGHT	S I Z 2 N

PACCAR TX-12 (E80)/PACCAR TX-18 (E70)

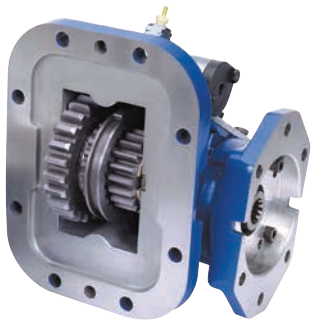
MECHANICAL SHIFT

MUNCIE POWER PRODUCTS

TG8F-E80 AND TG8F-E70

- Versatile 8-bolt mechanical shift PTO
- Lightweight, reduced noise, and superior heat dissipation

MAX. TORQUE INTERMITTENT:	S I Z M [5 T
MAX. HP (@ 1,000 RPM) INTERMITTENT:	/ 7 R >
APPROX. WEIGHT	S I Z 2 N

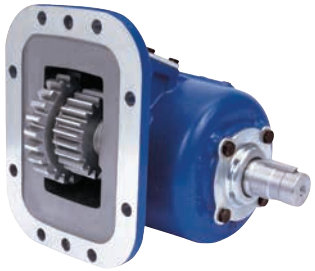


MUNCIE POWER PRODUCTS

SH8F-E80

- 8-bolt mechanical shift PTO
- High-torque capacity to meet demanding applications
- Fits most popular pump types
- PACCAR TX-12 only

MAX. TORQUE INTERMITTENT:	S I Z M [5 T
MAX. HP (@ 1,000 RPM) INTERMITTENT:	/ 7 R >
APPROX. WEIGHT	S I Z 2 N



MUNCIE POWER PRODUCTS

828F-E80 AND 828F-E70

- Heavy-duty, 8-bolt mechanical shift PTO
- Cast-iron housing, lever or air shift, and optional single mounts pump
- Designed for use with high-torque mechanical equipment

MAX. TORQUE INTERMITTENT:	S I Z M [5 T
MAX. HP (@ 1,000 RPM) INTERMITTENT:	/ 7 R >
APPROX. WEIGHT	S I Z 2 N

PACCAR TRANSMISSIONS (continued)

PACCAR TX-12 (EHD)/PACCAR TX-18 (EXD)

MECHANICAL SHIFT – REAR MOUNT

INTERPUMP HYDRAULICS

P81-EHD OR P81-EXD

- Mechanically shifted through-shaft PTO
  - ÷ Heavy-duty PTO for high-torque applications
  - ÷ Driveline applications
  - ÷ Includes adapter and stud kit

MAX. TORQUE INTERMITTENT:	S I Z M [5 T
MAX. HP (@ 1,000 RPM) INTERMITTENT:	/ 7 R >
APPROX. WEIGHT	S I Z 2 N

INTERPUMP HYDRAULICS

P82-EXD

- Mechanically shifted through-shaft PTO
  - ÷ Driveline and direct mount pump applications
  - ÷ DIN and SAE outputs
  - ÷ Includes adapter and stud kit

MAX. TORQUE INTERMITTENT:	S I Z M [5 T
MAX. HP (@ 1,000 RPM) INTERMITTENT:	/ 7 R >
APPROX. WEIGHT	S I Z 2 N

MECHANICAL SHIFT – REAR MOUNT

INTERPUMP HYDRAULICS

P84-EHD OR P84-EXD

- Mechanically shifted through-shaft PTO
  - ÷ Driveline and direct mount pump applications
  - ÷ DIN and SAE outputs
  - ÷ Includes adapter and stud kit

MAX. TORQUE INTERMITTENT:	S I Z M [5 T
MAX. HP (@ 1,000 RPM) INTERMITTENT:	/ 7 R >
APPROX. WEIGHT	S I Z 2 N

INTERPUMP HYDRAULICS

P86-EXD

- Mechanically shifted through-shaft PTO
  - ÷ Driveline and direct mount pump applications
  - ÷ DIN and SAE outputs
  - ÷ Includes adapter and stud kit

MAX. TORQUE INTERMITTENT:	S I Z M [5 T
MAX. HP (@ 1,000 RPM) INTERMITTENT:	/ 7 R >
APPROX. WEIGHT	S I Z 2 N

RAM TRANSMISSIONS
TORQUEFLITE HD/ZF POWERLINE
FOR RAM 3500, 4500, AND 5500 SERIES

CLUTCH SHIFT

MUNCIE POWER PRODUCTS
Z21-Z11

÷ Medium-duty, clutch shift PTO for RAM TorqueFlite HD/ZF PowerLine transmissions

÷ 7HZZLUNLY ZPKL YPNO[ZPKL opening only on RAM applications

÷ Integral solenoid valve

• 9V[H[HISL V\[W\[ÅHUNL

MAX. TORQUE INTER./CONTINUOUS:	SIZ M[5T
MAX. HP (@ 1,000 RPM) INTER./CONTINUOUS:	/7 R>
APPROX. WEIGHT	SIZ 2N

MUNCIE POWER PRODUCTS
Z25-Z11

• Light-duty, clutch shift PTO for RAM TorqueFlite HD/ZF PowerLine transmissions

÷ +YP]LY ZPKL SLM[ZPKL VWLUPUN only on RAM applications

÷ Integral solenoid

÷ Fits both 4x2 and 4x4 trucks with direct mount pumps

• Single intermittent/ continuous rating

MAX. TORQUE INTER./CONTINUOUS:	SIZ M[5T
MAX. HP (@ 1,000 RPM) INTER./CONTINUOUS:	/7 R>
APPROX. WEIGHT	SIZ 2N

VOLVO TRANSMISSIONS
I-SHIFT

MECHANICAL SHIFT – REAR MOUNT

INTERPUMP HYDRAULICS
P81-VIS

• Mechanically shifted through-shaft PTO ÷ Heavy-duty PTO for high-torque applications ÷ Driveline applications ÷ Includes adapter and stud kit	MAX. TORQUE INTERMITTENT: S I Z M [5 T MAX. HP (@ 1,000 RPM) INTERMITTENT: / 7 R > APPROX. WEIGHT S I Z 2 N

INTERPUMP HYDRAULICS
P82-VIS

• Mechanically shifted through-shaft PTO ÷ Driveline and direct mount pump applications ÷ DIN and SAE outputs ÷ Includes adapter and stud kit	MAX. TORQUE INTERMITTENT: S I Z M [5 T MAX. HP (@ 1,000 RPM) INTERMITTENT: / 7 R > APPROX. WEIGHT S I Z 2 N

INTERPUMP HYDRAULICS
P84-VIS

• Mechanically shifted through-shaft PTO ÷ Driveline and direct mount pump applications ÷ DIN and SAE outputs ÷ Includes adapter and stud kit	MAX. TORQUE INTERMITTENT: S I Z M [5 T MAX. HP (@ 1,000 RPM) INTERMITTENT: / 7 R > APPROX. WEIGHT S I Z 2 N

VOLVO TRANSMISSIONS
I-SHIFT

MECHANICAL SHIFT – REAR MOUNT

INTERPUMP HYDRAULICS
P86-VIS

- Mechanically shifted through-shaft PTO
  - ÷ Driveline and direct mount pump applications
  - ÷ DIN and SAE outputs
  - ÷ Includes adapter and stud kit

MAX. TORQUE INTERMITTENT:	S I Z M [5 T
MAX. HP (@ 1,000 RPM) INTERMITTENT:	/ 7 R >
APPROX. WEIGHT	S I Z 2 N

INTERPUMP HYDRAULICS
P88-VIS

- Mechanically shifted through-shaft PTO
  - ÷ Driveline and direct mount pump applications
  - ÷ DIN and SAE outputs
  - ÷ Includes adapter and stud kit

MAX. TORQUE INTERMITTENT:	S I Z M [5 T
MAX. HP (@ 1,000 RPM) INTERMITTENT:	/ 7 R >
APPROX. WEIGHT	S I Z 2 N

INTERPUMP HYDRAULICS
P90-VIS

- Dual output, heavy-duty PTO
- Driveline and direct mount applications
  - ÷ Includes adapter and stud kit

MAX. TORQUE OUTPUT 1: OUTPUT 2:	S I Z M [5 T S I Z M [5 T
MAX. HP (@ 1,000 RPM) INTERMITTENT:	/ 7 R >
APPROX. WEIGHT	S I Z 2 N

INTERPUMP HYDRAULICS
P93-VIS

- Dual output, heavy-duty PTO
  - ÷ Driveline and direct mount pump applications
  - ÷ DIN and SAE outputs
  - ÷ Includes adapter and stud kit

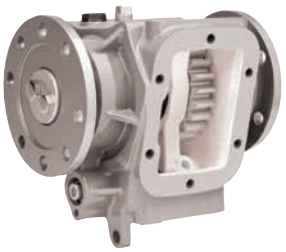
MAX. TORQUE OUTPUT 1: OUTPUT 2:	S I Z M [5 T S I Z M [5 T
MAX. HP (@ 1,000 RPM) INTERMITTENT:	/ 7 R >
APPROX. WEIGHT	S I Z 2 N

SPLIT SHAFT PTOS

INTERPUMP HYDRAULICS
SS66 SERIES

- Provides two 6-bolt PTO apertures where none exist on the main transmission or where space limitations restrict access to accept common PTO series
- Engagement can be via air shift or heavy-duty, push-pull cable

MAX. TORQUE	
THROUGHPUT	S I Z M [5 T
PTO DRIVE GEAR:	S I Z M [5 T
MAX. HP (@ 1,000 RPM)	
PTO DRIVE GEAR:	/ 7 R >
APPROX. WEIGHT	
WITHOUT PTO:	S I Z 2 N



INTERPUMP HYDRAULICS
SS88 SERIES

- Allows for mounting of two 8-bolt PTOs behind the transmission on medium- and heavy-duty vehicles
- High-quality 6-pitch spur gear to handle the torque ratings of large 8-bolt PTOs

MAX. TORQUE	
THROUGHPUT	S I Z M [5 T
	S I Z M [5 T
PTO DRIVE GEAR:	S I Z M [5 T
MAX. HP (@ 1,000 RPM)	
PTO DRIVE GEAR:	/ 7 R >
APPROX. WEIGHT	
WITHOUT PTO:	S I Z 2 N

INTERPUMP HYDRAULICS
SSH2 & SSV2/4 SERIES

- Used when auxiliary power requirements exceed the capacity of transmission-mounted PTOs
- Upright and horizontal versions provide access to output drives as needed

MAX. TORQUE	
THROUGHPUT	S I Z M [5 T
	S I Z M [5 T
SSH2 OUTPUT:	S I Z M [5 T
SSV2/4 OUTPUT:	S I Z M [5 T
MAX. HP (@ 1,000 RPM)	
SSH2 OUTPUT:	/ 7 R >
SSV2/4 OUTPUT:	/ 7 R >
APPROX. WEIGHT	
SSH2:	S I Z 2 N
SSV2/4:	S I Z 2 N

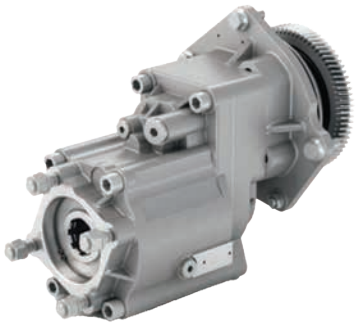
SSH2 Series

SSV2/4 Series

ENGINE MOUNT
SCANIA

PNEUMATIC SHIFT

INTERPUMP HYDRAULICS
87S



- Rear engine mount clutch shift PTO
  - ÷ Fits 6- and 8-cylinder engines
  - ÷ Multiple ratios

MAX. TORQUE INTERMITTENT:	S I Z M [5 T
MAX. HP (@ 1,000 RPM) INTERMITTENT:	/ 7 R >
APPROX. WEIGHT	S I Z 2 N

CONSTANT DRIVE

INTERPUMP HYDRAULICS
610

- Rear engine mount constant drive PTO
- Fits 6- and 8-cylinder engines

MAX. TORQUE INTERMITTENT:	S I Z M [5 T
MAX. HP (@ 1,000 RPM) INTERMITTENT:	/ 7 R >
APPROX. WEIGHT	S I Z 2 N

INTERPUMP HYDRAULICS
611

- Rear engine mount constant drive PTO
- Fits 6- and 8-cylinder engines

MAX. TORQUE INTERMITTENT:	S I Z M [5 T
MAX. HP (@ 1,000 RPM) INTERMITTENT:	/ 7 R >
APPROX. WEIGHT	S I Z 2 N

ENGINE FLYWHEEL

INTERPUMP HYDRAULICS
EFP-1

- 100% of engine available torque
- Can be used on manual, automated, or fully automatic transmissions
- 0KLHS MVY ÄYL[Y\JRZ YLMYPNLYH[VY trucks, concrete mixer, sewer cleaners, snow plows, digger derricks, and other heavy-duty applications
- ÷ Multiple ratios

MAX. TORQUE OUTPUT:	SIZ M[5T
MAX. HP (@ 1,000 RPM) CONTINUOUS:	/7 R>
APPROX. WEIGHT	SIZ 2N

INTERPUMP HYDRAULICS
EFP-2

- 100% of engine available torque
- Can be used on manual, automated, or fully automatic transmissions
- 0KLHS MVY ÄYL[Y\JRZ YLMYPNLYH[VY trucks, concrete mixer, sewer cleaners, snow plows, digger derricks, and other heavy-duty applications
- ÷ Multiple ratios

MAX. TORQUE OUTPUT:	SIZ M[5T
MAX. HP (@ 1,000 RPM) CONTINUOUS:	/7 R>
APPROX. WEIGHT	SIZ 2N

GEAR PUMPS SAE

MUNCIE POWER PRODUCTS

PF4 SERIES

- W\TW ZPaLZ H]HPSHUSL [V Ä[a wide variety of applications
- ÷ Uni-rotational design allows ÅV^ PU VUL KPYLJ[PVU
- Pressure-balanced bushing blocks and sleeve bearings provide long life and high performance

MAX. OP. PRESSURE	¶	7:0	¶)(9
FLOW RATE (@ 1,000 RPM)	¶	.74	¶ 374
DISPLACEMENT	¶	J\ PU	¶ JJ
APPROX. WEIGHT	¶	SIZ	¶ 2N

MUNCIE POWER PRODUCTS

PH SERIES

- All cast iron bushing pump designed for low [V TLKP\T ÅV^ Z`Z[LTZ
- ÷ Uni-rotational design allows ÅV^ PU VUL KPYLJ[PVU
- Available with integral, priority ÅV^ JVU[YVS JHWHIPSSP[RLZ' NYLH[for use on steering applications

MAX. OP. PRESSURE	¶	7:0	¶)(9
FLOW RATE (@ 1,000 RPM)	¶	.74	¶ 374
DISPLACEMENT	¶	J\ PU	¶ JJ
APPROX. WEIGHT	¶	SIZ	¶ 2N

* Flow rates are theoretical.

MUNCIE POWER PRODUCTS

PK SERIES

- All cast iron construction with 4 ports and roller bearing design
- ÷ Bi-rotational, 4-port design WYV]PKLZ ÅL_PIPSP[` [V VWLYH[L PU either direction
- Designed to meet the application needs of either a pump or a motor
- Available in tandem and triple JVUÄN\YH[PVUZ" JVU[HJ[4\UJPL 7V^LY MVY JVUÄN\YH[PVUZ HUK availability

MAX. OP. PRESSURE	¶	7:0	¶	)(9
FLOW RATE (@ 1,000 RPM)	¶	.74	¶	374
DISPLACEMENT	¶	J\ PU	¶	JJ
APPROX. WEIGHT	¶	SIZ	¶	2N

MUNCIE POWER PRODUCTS

PL SERIES

- All cast iron construction with 4 ports and roller bearing design
- Bi-rotational, 4-port design WYV]PKLZ ÅL_PIPSP[` [V VWLYH[L PU either direction
- Available in tandem and triple JVUÄN\YH[PVUZ" JVU[HJ[4\UJPL 7V^LY MVY JVUÄN\YH[PVUZ HUK availability

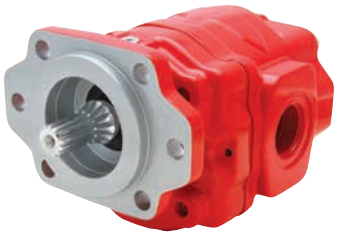
MAX. OP. PRESSURE	¶	7:0	¶	)(9
FLOW RATE (@ 1,000 RPM)	¶	.74	¶	374
DISPLACEMENT	3.18–7.01 cu.in. (52.1–			JJ
APPROX. WEIGHT	¶	SIZ	¶	2N

* Flow rates are theoretical.

OPTIMUM SERIES
GEAR PUMPS/MOTORS

MUNCIE POWER PRODUCTS

OPTIMUM W SERIES

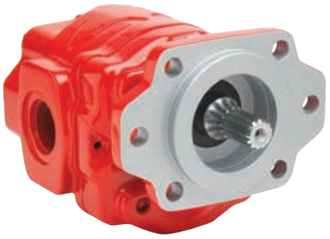


- Provides 8 displacements to JV]LY SV^ ÅV^ high-YH[LZ pressure requirements
  ÷ Bushings provide a high performance and longer life of the pump
- Bi-rotational, 4-port design is standard with speeds up to 3,600 RPM
- Available in tandem and triple JVUÄN\YH[PVUZ" JVU[HJ[4\UJPL 7V^LY MVY JVUÄN\YH[PVUZ HUK availability
- Quiet design and Muncie Power's OPTI-Grip® technology to resist casting separation

MAX. OP. PRESSURE	¶	7:0	¶	)(9
FLOW RATE (@ 1,000 RPM)	6.3–21	.74	–	374
DISPLACEMENT	¶	J\ PU	¶	JJ
APPROX. WEIGHT	¶	SIZ	¶	2N

MUNCIE POWER PRODUCTS

OPTIMUM X SERIES



- 7YV]PKLZ KPZWSHJLTLU[Z [V JV]LY TLKP\T [V OLH]` ÅV^ high-pressure requirements
  ÷ Bushings provide a high performance and longer life for the pump
- Bi-rotational, 4-port design is standard with speeds up to 3,000 RPM
- Available in tandem and triple JVUÄN\YH[PVUZ" JVU[HJ[4\UJPL 7V^LY MVY JVUÄN\YH[PVUZ HUK availability
  ÷ Quiet design and Muncie Power's OPTI-Grip® technology to resist casting separation

MAX. OP. PRESSURE	¶	7:0	¶	)(9
FLOW RATE (@ 1,000 RPM)	13.8–36.5 GPM (51.2–			374
DISPLACEMENT	¶	J\ PU	¶	JJ
APPROX. WEIGHT	¶	SIZ	¶	2N

MUNCIE POWER PRODUCTS

OPTIMUM X LIVE-FLOOR

- Long-life, high-performance bushings
- Quiet design and Muncie Power's OPTI-Grip® technology to resist casting separation
- +LZPNULK ZWLJPÄJHSS` MVY \ZL VU SP]L ÅVVY HWWSPJH[PVUZ

MAX. OP. PRESSURE	7:0	)(9
FLOW RATE (@ 1,000 RPM)	.74	374
DISPLACEMENT	J\ PU	JJ
APPROX. WEIGHT	SIZ	2N

* Flow rates are theoretical.

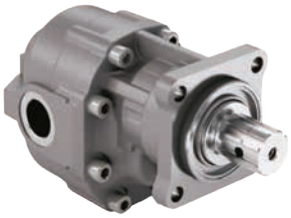
GEAR PUMPS DIN

INTERPUMP HYDRAULICS

FZ0 SERIES

- K P Z W S H J L T L U [Z H] A X S H I S L
- Medium-duty, mono-directional pump
- Designed for both low- and high-pressure applications

MAX. OP. PRESSURE	¶	7 : 0	¶) (9
FLOW RATE (@ 1,000 RPM)	¶	. 7 4	¶ 3 7 4
DISPLACEMENT	¶	J \ P U	¶ J J
APPROX. WEIGHT	¶	S I Z	¶ 2 N



INTERPUMP HYDRAULICS

FZH SERIES

- 7 displacements available
- Heavy-duty, mono-directional pump
- Designed for both low- and high-pressure applications

MAX. OP. PRESSURE	¶	7 : 0	¶) (9
FLOW RATE (@ 1,000 RPM)	¶	. 7 4	¶ 3 7 4
DISPLACEMENT	¶	J \ P U	¶ J J
APPROX. WEIGHT	¶	S I Z	¶ 2 N

INTERPUMP HYDRAULICS

FZH V SERIES

- 7 displacements available
- Heavy-duty, tandem mounting, mono-directional pump
- Designed for both low- and high-pressure applications

MAX. OP. PRESSURE	¶	7 : 0	¶) (9
FLOW RATE (@ 1,000 RPM)	¶	. 7 4	¶ 3 7 4
DISPLACEMENT	¶	J \ P U	¶ J J
APPROX. WEIGHT	¶	S I Z	¶ 2 N

INTERPUMP HYDRAULICS

BLH AND BPH SERIES

- 4 displacements available
- Bi-directional pump
- Designed for both low- and high-pressure applications

MAX. OP. PRESSURE	¶	7 : 0	¶) (9
FLOW RATE (@ 1,000 RPM)	¶	. 7 4	¶ 3 7 4
DISPLACEMENT	5.42–7.27 cu.in. (88.8–		J J
APPROX. WEIGHT	¶	S I Z	¶ 2 N

BLH

BPH

* Flow rates are theoretical.

DUMP & HOIST PUMPS

MUNCIE POWER PRODUCTS

E SERIES DUMP

- Standard equipment for tandem- and tri-axle dump trucks and dump trailers with high-volume cylinders
  ÷ Uni-rotational design allows ÅV^ PU VUL KPYLJ[PVU
- 2- or 3-line system options available

MAX. OP. PRESSURE	7 : 0) (9
FLOW RATE (@ 1,000 RPM)	22.5–27.6 GPM (85.2– 3 7 4
DISPLACEMENT	5.20–6.37 cu.in. (85.2– J J
APPROX. WEIGHT	¶ S I Z ¶ 2 N

MUNCIE POWER PRODUCTS

S SERIES HOIST

- +LZPNULK ZWLJPÄJHSX`OR PRY use on small single- or tandem-axle dump trucks
- Uni-rotational design allows ÅV^ PU VUL KPYLJ[PVU
- 2- or 3-line system options available

MAX. OP. PRESSURE	¶ 7 : 0 ¶) (9
FLOW RATE (@ 1,000 RPM)	6.4–17.16 GPM (24.2– 3 7 4
DISPLACEMENT	¶ J\ PU ¶ J J
APPROX. WEIGHT	¶ S I Z ¶ 2 N

*Flow rates are theoretical.
** Requires high pressure relief PS1-1231VH for settings above 2,500 PSI.

REFUSE PUMPS

MUNCIE POWER PRODUCTS

MLSM SERIES LIVE PAK

- Provides protection against hydraulic overspeed damage while allowing the driver to maintain full use of the hydraulic system on refuse vehicles
- Uni-rotational design allows ÅV^ PU VUL KPYLJ[PVU
-)\PS[PU ÅV^ SPTP[LY YLKPYLJ[Z L_JLZZ W\TW ÅV^ [V [OL reservoir when pump is on

MAX. OP. PRESSURE	¶ 7 : 0 ¶) (9
FLOW RATE (@ 1,000 RPM)	26.4– . 7 4 – 3 7 4
DISPLACEMENT	¶ J\ PU ¶ J J
APPROX. WEIGHT	¶ S I Z ¶ 2 N

Maximum temperature is 200° F (93° C) for the non-adjustable pump safety relief valve.

* Flow rates are theoretical.

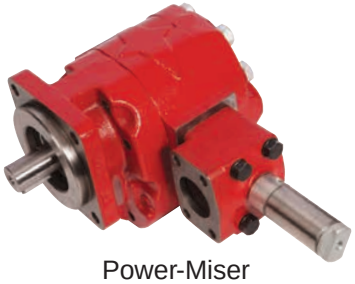
MUNCIE POWER PRODUCTS

POWR-PRO & POWER-MISER SYSTEMS

- Dry valve, air-actuated pump systems designed primarily for refuse vehicles
- Lowers operating costs by reducing horsepower draw in OFF mode, saving fuel
- 7V^Y 7YV \[PSPaLZ H I\[[LYA Z[`SL]HS]L" 7V^LY 4PZLY \[PSPaLZ an air actuated, plunger-type dry valve

MAX. OP. PRESSURE	
PL and PM Series:	¶ 7:0 ¶)(9
FLOW RATE (@ 1,000 RPM)	
PL and PM Series:	¶ .74 374
DISPLACEMENT	
PL Series:	¶ J\ PU ¶ JJ
PM Series:	¶ J\ PU ¶ JJ
APPROX. WEIGHT	
PL and PM Series:	¶ SIZ ¶ 2N

Powr-Pro



Power-Miser

* Flow rates are theoretical.

VANE PUMPS

INTERPUMP HYDRAULICS

VCCG SERIES DIN

- 13 cartridge sizes available to suit a variety of applications

MAX. OP. PRESSURE	7:0)(9
FLOW RATE (@ 1,500 RPM)	¶ .74 ¶ 374
DISPLACEMENT	¶ J\ PU ¶ JJ
APPROX. WEIGHT	SIZ 2N

INTERPUMP HYDRAULICS

VCCM SERIES SAE B

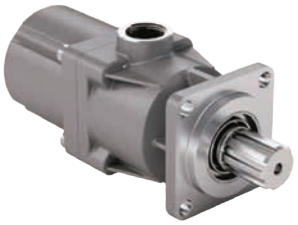
- 13 cartridge sizes available to suit a variety of applications
- Availability of SAE B, B-B, C, or key shafts

MAX. OP. PRESSURE	7:0)(9
FLOW RATE (@ 1,500 RPM)	¶ .74 ¶ 374
DISPLACEMENT	¶ J\ PU ¶ JJ
APPROX. WEIGHT	SIZ 2N

* PSI is 2,030 with 1,500 RPM

FIXED DISPLACEMENT
PISTON PUMPS

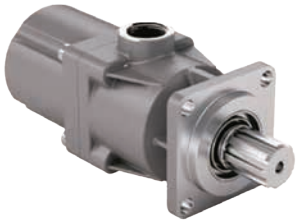
INTERPUMP HYDRAULICS
PE SERIES



- 4 displacements available
- Bi-rotational piston pump
- 0KLHS MVY JYHULZ or other heavy-duty applications where pressure and long duty cycles are necessary

MAX. OP. PRESSURE	7:0)(9
FLOW RATE (@ 1,000 RPM)	OVVRSPM[YVSS V\ ¶ .74 374
DISPLACEMENT	¶ J\ PU ¶ JJ
APPROX. WEIGHT	SIZ 2N

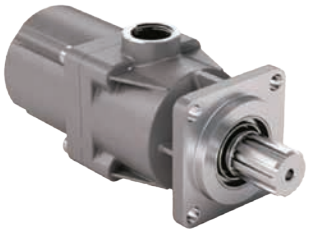
INTERPUMP HYDRAULICS
PH SERIES



- 3 displacements available
- Bi-rotational piston pump
- 0KLHS MVY JYHULZ or other heavy-duty applications where pressure and long duty cycles are necessary

MAX. OP. PRESSURE	7:0)(9
FLOW RATE (@ 1,000 RPM)	OVVRSPM[YVSS V\ –15.87 GPM (37– 374
DISPLACEMENT	¶ J\ PU ¶ JJ
APPROX. WEIGHT	SIZ 2N

INTERPUMP HYDRAULICS
PE HIGH FLOW SERIES



- 4 displacements available
- Bi-rotational piston pump
- 0KLHS MVY JYHULZ or other heavy-duty applications where pressure and long duty cycles are necessary

MAX. OP. PRESSURE	7:0)(9
FLOW RATE (@ 1,000 RPM)	OVVRSPM[YVSS V\ 18.52–26.46 .74 ¶ 374
DISPLACEMENT	¶ J\ PU ¶ JJ
APPROX. WEIGHT	SIZ 2N

* Flow rates are theoretical.

INTERPUMP HYDRAULICS

PE DUAL FLOW SERIES

- 3 displacements available
- Bi-rotational piston pump
- Ideal for cranes, hooklift, roll off, or other heavy-duty applications where pressure and long duty cycles are necessary

MAX. OP. PRESSURE	7:0)(9
FLOW RATE (@ 1,000 RPM)	10.85 / 10.85 ¶ GPM (41 / 41–51 / 51 374
DISPLACEMENT	2.5 / 2.5–3.11 / 3.11 cu.in. ¶ JJ
APPROX. WEIGHT	SIZ 2N

INTERPUMP HYDRAULICS

FX BENT AXIS SERIES

- KPZWSHJLTLU[Z H]
- Mono-directional bent axis piston pump
- A bent axis piston pump with speed capabilities of up to 2,300 RPM

MAX. OP. PRESSURE	¶ 7:0 ¶)(9
FLOW RATE (@ 1,000 RPM)	¶ .74 ¶ 374
DISPLACEMENT	¶ J\ PU ¶ JJ
APPROX. WEIGHT	¶ SIZ ¶ 2N

* Flow rates are theoretical.

VARIABLE DISPLACEMENT PISTON PUMPS

MUNCIE POWER PRODUCTS

PVE SERIES

- , _ [L Y U H S S ` H K Q \ Z [H I S L
  ¶ 7 : 0 W Y L Z L [
  to 2,610 PSI
- 3 sizes and 2 shaft types
  H] H P S H I S L [V Ä [H W W S P J H [P V U U L L K Z
- Used in closed center hydraulic systems
- Available with either pressure
  J V T W L U Z H [P V U V Y Å V ^ H U K W Y L Z Z \ Y L
  J V T W L U Z H [P V U S V H K Z L U Z L

MAX. OPERATING PRESSURE	¶	7 : 0	¶) (9
FLOW RATE (@ 1,000 RPM)	¶	. 7 4	¶ 3 7 4
DISPLACEMENT	6.1–	J \ P U–	J J
APPROX. WEIGHT	S I Z	2 N	

MUNCIE POWER PRODUCTS

PVJ SERIES

- , _ [L Y U H S S ` H K Q \ Z [H I S L
  ¶ 7 : 0 W Y L Z L [
  to 2,610 PSI
- 3 sizes and 4 shaft types
  H] H P S H I S L [V Ä [H W W S P J H [P V U U L L K Z
- Used in closed center hydraulic systems
- Available with either pressure
  J V T W L U Z H [P V U V Y Å V ^ H U K W Y L Z Z \ Y L
  J V T W L U Z H [P V U S V H K Z L U Z L

MAX. OPERATING PRESSURE	¶	7 : 0	¶) (9
FLOW RATE (@ 1,000 RPM)	–	. 7 4	– 3 7 4
DISPLACEMENT	2.75–4.58 cu.in. (45–		J J
APPROX. WEIGHT	S I Z	2 N	

MUNCIE POWER PRODUCTS

PVL SERIES

- , _ [L Y U H S S ` H K Q \ Z [H I S L
  1,450–3,045 PSI, preset to 2,610 PSI
- 2 shaft types available
- Used in closed center hydraulic systems
- Available with either pressure
  J V T W L U Z H [P V U V Y Å V ^ H U K W Y L Z Z \ Y L
  J V T W L U Z H [P V U S V H K Z L U Z L

MAX. OPERATING PRESSURE	7 : 0	) (9	
FLOW RATE (@ 1,000 RPM)	. 7 4	3 7 4	
DISPLACEMENT	J \ P U	J J	
APPROX. WEIGHT	S I Z	2 N	

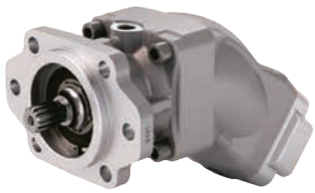
* Flow rates are theoretical.

PISTON MOTORS

INTERPUMP HYDRAULICS
MX SAE B

- 6 sizes available
- Low noise level, compact size, and robust design
- IVS[TV\U[PUN ÅHUNL

MAX. OP. PRESSURE	7:0)(9
FLOW RATE (@ 1,000 RPM)	¶ .74 ¶ 374
DISPLACEMENT	¶ J\ PU ¶ JJ
APPROX. WEIGHT	¶ SIZ ¶ 2N



INTERPUMP HYDRAULICS
MX SAE C

- 6 sizes available
- Low level noise, compact size, and robust design
- IVS[TV\U[PUN ÅHUNL

MAX. OP. PRESSURE	7:0)(9
FLOW RATE (@ 1,000 RPM)	¶ .74 ¶ 374
DISPLACEMENT	¶ J\ PU ¶ JJ
APPROX. WEIGHT	¶ SIZ ¶ 2N

* Flow rates are theoretical.

LOW SPEED HIGH TORQUE MOTORS

MUNCIE POWER PRODUCTS

MJ200/MJ475 BULK FEED APPLICATIONS

- Roller gerotor design for smooth performance, L]JPLUJ` HUK K\YHIPSP[
- Tapered roller bearings for extra side load capacity
- Standard case drain with integral internal drain for extended life
- +PZJ]HS]L MVY OPNOLY ÅV^Z and higher pressure
- Available in " O-Ring ports

MAX. OP. PRESSURE	
MJ200:	7:0)(9
MJ475:	7:0)(9
FLOW RATE	
41 ' 974 ! .74 374	
41 ' 974 ! .74 374	
DISPLACEMENT	
MJ200:	J\PU JJ
MJ475:	J\PU JJ
APPROX. WEIGHT	
MJ200:	SIZ 2N
MJ475:	SIZ 2N

MUNCIE POWER PRODUCTS

MJ100 PRODUCT PUMP APPLICATIONS

- Roller gerotor design for smooth performance, L]JPLUJ` HUK K\YHIPSP[`
- Tapered roller bearings for extra side load capacity
- Standard case drain with integral internal drain for extended life
- +PZJ]HS]L MVY OPNOLY ÅV^Z and higher pressure
- Available in " and 1 ì À O-Ring ports

MAX. OP. PRESSURE	7:0)(9
FLOW RATE (@ 750 RPM)	.74 374
DISPLACEMENT	6.1 cu.in. (100 cc.
APPROX. WEIGHT	SIZ 2N

MUNCIE POWER PRODUCTS

MB050 SPREADER APPLICATIONS

- Gerotor set provides high L]JPLUJ` HUK SVUN SPML
- 3V^ WVY[WYVÄSL PZ Z\P[HISL MVY applications with limited space
- :WVVS]HS]L KLZPNU V\LYZ smooth operation over a wide range of speeds and torques
- Available in " O-Ring ports or ñ NPT ports

MAX. OP. PRESSURE	7:0) (9
FLOW RATE (@ 1,150 RPM)	.74 374
DISPLACEMENT	3.15 cu.in. (51.7 cc.
APPROX. WEIGHT	SIZ 2N

CLUTCH PUMPS

MUNCIE POWER PRODUCTS

PH SERIES CLUTCH

- Porting available on both the side and rear for [PNO[Ä[[PUN JOHZZPZ OVVR\WZ
- Pressure-balanced wear plates provide high system LMÄJPLUJ` MVY SV^LY horsepower needs

MAX. OP. PRESSURE	¶ 7:0 ¶) (9
FLOW RATE (@ 1,000 RPM)	2.7– .74 ¶ 374
DISPLACEMENT	0.62– J\ PU– JJ
APPROX. WEIGHT	¶ SIZ ¶ 2N

* Flow rates are theoretical.

SINGLE-ACTING TELESCOPIC CYLINDERS

INTERPUMP HYDRAULICS

PIN-PIN

- One of the lightest cylinders on the market, which translates to greater payloads, less oil consumption, and faster dumping
- A self-bleeding design for easier installation
- Single head nut with no M\Y[OLY HKQ\Z[TLU[Z ULLKLK
- *OYVTL WSH[LK ÄUHS Z[HNL to extend product life
- Low maintenance requirements offer many years of top performance without additional expenses

MAX. PRESSURE	7:0)(9
NOMINAL BORE	5 in. Model: 2 Sizes 6 in. Model: 7 Sizes 7 in. Model: 6 Sizes 8 in. Model: 8 Sizes
STROKE	¶ PU ¶ TT
MAX. LIFTING CAPACITY RANGE	¶ [VU ¶ R5

* Lifting capacity range based on 2,750 PSI (189.7 BAR).

INTERPUMP HYDRAULICS

TRUNNION MOUNT

- Mounting style allows for increased capacity in the dump body through a ZPNUPÄJHU[YLK\J[PVU elimination of the dog house
- Available in both 3- and 4-stage versions
- Strict-machining tolerances, solid stop contact faces, and larger overlap between stages make trunnion mount cylinders some of the strongest and most stable cylinders on the market

MAX. PRESSURE	7:0)(9
NOMINAL BORE	5.5 in. Model: 3 Sizes 6.5 in. Model: 4 Sizes 7.5 in. Model: 1 Size
STROKE	¶ PU ¶ TT
MAX. LIFTING CAPACITY RANGE	¶ [VU ¶ R5

* Max. pressure depends on cylinder model.
** Lifting capacity range based on 2,750 PSI (189.7 BAR).

INTERPUMP HYDRAULICS
INVERTED FLS*

- Lightweight design for light-duty vehicles
- Self-bleeding design for easier installation
- No head nuts design, U V U L L K V M H K Q \ Z [T L U [Z
- Chrome-plated piston rod for longer seal life

MAX. PRESSURE	7 : 0) (9
NOMINAL BORE	3–4.5 in. (75– T T
STROKE	¶ P U ¶ T T
MAX. LIFTING CAPACITY RANGE	¶ [V U ¶ R 5

* Fully chromed and nitrated version available on demand.

INTERPUMP HYDRAULICS
INVERTED HPFR*

- Lightweight design for light-duty vehicles
- Double lip seals and wipers for no leak and extended durability
- Self-bleeding design for easier installation
- No head nuts design, U V U L L K V M H K Q \ Z [T L U [Z
- Chrome-plated piston rod for longer seal life

MAX. PRESSURE	7 : 0) (9
NOMINAL BORE	5– P U – T T
STROKE	¶ P U ¶ T T
MAX. LIFTING CAPACITY RANGE	¶ [V U ¶ R 5

* Fully chromed and nitrated version available on demand.

INTERPUMP HYDRAULICS
DOUBLE-ACTING
TELESCOPIC CYLINDERS MDX

Interpump Hydraulics' K V \ I S L H J [P U N J ` S P U K L Y Z H Y L T H U \ M H J [ \ Y L K [ V T L L [ P U K P ] P K \ H S Z W L J P Ä M V Y H ^ P K L ] H Y P L [ ` V M ^ V Y R [Y \ J R H W W S P J H [P V U Z P U J S \ K P U N Y L M \ Z L [Y \ ] V S S V more. For more information or to discuss a custom cylinder for your application, please contact our customer service team.

DIRECTIONAL CONTROL VALVES

MUNCIE POWER PRODUCTS

V050 SERIES

- Small size, lightweight valve with versatile K L Z P N U J V U Ä N \ Y H [P V U Z
- Available with 7 standard back-cap options and 6 standard control options

FLOW RATE		
Nominal:	. 7 4	3 7 4
Maximum:	. 7 4	3 7 4
MAX. PRESSURE		
1–3 Sections:	7 : 0	) (9
4–6 Sections:	7 : 0	) (9
7–10 Sections:	7 : 0	) (9
MAX. BACK PRESSURE	7 : 0	) (9

MUNCIE POWER PRODUCTS

V080 SERIES

- Constructed with high-grade iron castings and nickel-plated spools for use in high-pressure applications
- Load checks and inlet relief valve are standard

FLOW RATE		
Nominal:	. 7 4	3 7 4
Maximum:	. 7 4	3 7 4
MAX. PRESSURE		
1–3 Sections:	7 : 0	) (9
4–6 Sections:	7 : 0	) (9
7–10 Sections:	7 : 0	) (9
MAX. BACK PRESSURE	7 : 0	) (9

MUNCIE POWER PRODUCTS

V130 SERIES

- Internal, oil-core design H S S V ^ Z M V Y O P N O L Y A V Y H [L Z and low pressure drops in a compact package
- Tight tolerances and precision machining keep internal, spool leakages low

FLOW RATE		
Nominal:	. 7 4	3 7 4
Maximum:	. 7 4	3 7 4
MAX. PRESSURE		
1–3 Sections:	7 : 0	) (9
4–6 Sections:	7 : 0	) (9
7–10 Sections:	7 : 0	) (9
MAX. BACK PRESSURE	7 : 0	) (9