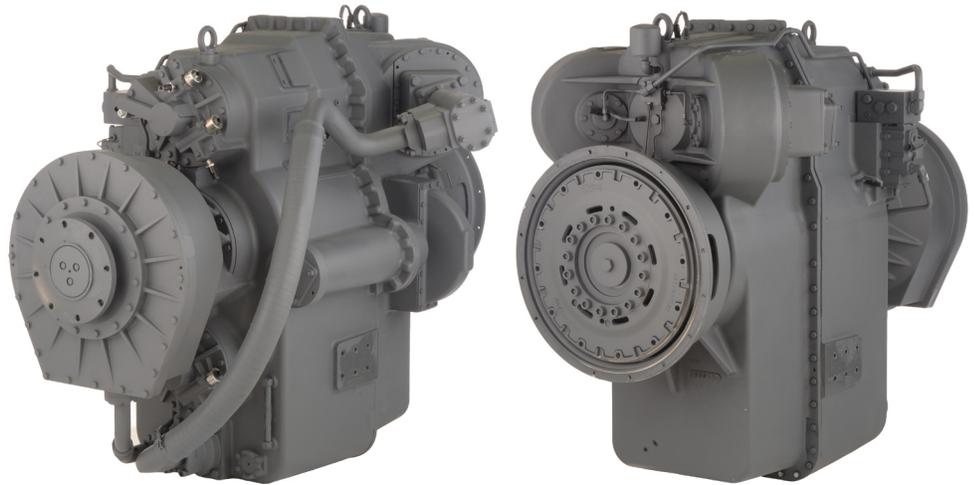


TA90-7601

UP TO 1939 KW (2600 HP)

The 7601 Series transmission system consists of a 9 speed coaxial power-shift transmission and the advanced TDEC-500 electronic control system.



FEATURES & BENEFITS:

- Designed to match the engine life on pressure pumping rigs for oil and gas well stimulation. The robust, simplicity of the counter shaft design provides for an expected L10 life of 10,000 hours.
- Designed specifically for the pressure pumping market, the transmission does not require throttle dipping for any of the range to range shifts. It is designed to be power shifted under all loaded or unloaded situations.
- Lightweight yet durable aluminum housings to reduce overall vehicle weight.
- Automated line test/hydraulic pressure test for pressure pumping applications.
- Does not require a torque converter, further contributing to overall weight savings.
- Compact in size and able to fit between the frame rails of mobile equipment.
- Small and evenly spaced gear ratio steps ensure that well pressure does not drop during gear shifts.
- Simple plumbing to ease installation in the cramped quarters of a pressure pumping rig.
- In most cases uses the same oil as the engine, simplifying onsite fluids logistics and servicing requirements.
- Includes a highly flexible coupling to reduce the damaging effects of the torsional excitations by the engine and piston pump.
- Internal brake capability to hold the output shaft when not pumping.
- Oil fill port and sight glass are co-located, making oil fills a one person operation.



TDEC-500
ELECTRONIC CONTROL SYSTEM

	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	Overall
Ratios	4.45	3.84	3.26	2.74	2.36	2.01	1.75	1.51	1.28	3.47
Steps	1.16	1.18	1.19	1.16	1.18	1.15	1.16	1.18	N/A	N/A

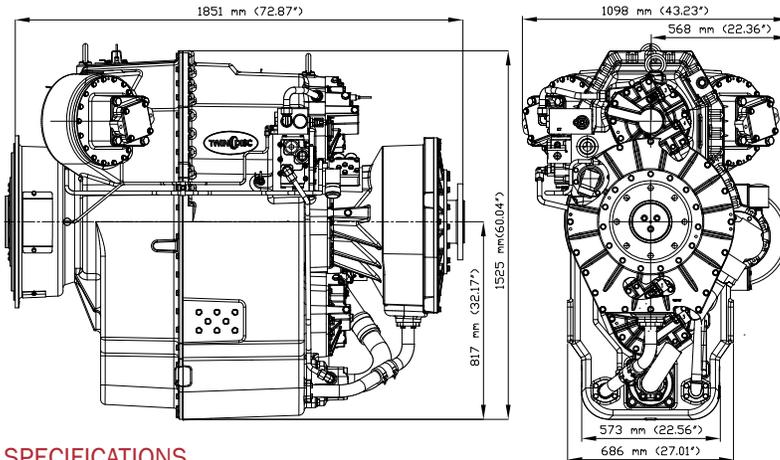


Specifications subject to change without prior notice in the interest of continual product improvement.
Contact your local Twin Disc representative for engineering specifications. Patent pending.

Scan QR code to see Twin Disc's entire Power Transmission product line.



TA90-7601 AUTOMATIC TRANSMISSION SYSTEM



SPECIFICATIONS

TA90-7601

Maximum gross input power

Maximum gross input torque

Maximum gross output torque

Maximum input speed

Dry Weight - estimated, without PTO

Available live PTO drives

Power Each

PTO designation, per SAE J744

PTO sizes (@ engine speed, rpm)

Oil volume

Oil flow

Mounting

Important Notice: Torsional Vibration

Disregarding system torsional compatibility could cause damage to components in the drive train resulting in loss of mobility. At minimum, system incompatibility could result in gear clatter at low speeds.

The responsibility for ensuring that the torsional compatibility of the system is satisfactory rests with the assembler of the drive and driven equipment.

Torsional vibration analysis can be made by the engine builder, marine survey societies, independent consultants and others. Twin Disc is prepared to assist in finding solutions to potential torsional problems that relate to the transmission.

Twin Disc, Incorporated reminds users of these products that their safe operation depends on use in compliance with engineering information provided in our catalog. Users are also reminded that safe operation depends on proper installation, operation and routine maintenance and inspection under prevailing conditions. It is the responsibility of users (and not Twin Disc, Incorporated) to provide and install guards or safety devices which may be required by recognized safety standards or by the Occupational Safety and Health Act of 1970 and its subsequent provisions.

United States of America • Australia • Belgium • Canada • China • India • Italy • Singapore • Switzerland

9 forward speeds, no reverse

1939 kW (2600 hp) at 1900 RPM

7617 Nm (5618 lb-ft) in 1st

8826 Nm (6510 lb-ft) in 2nd

10396 Nm (7668 lb-ft) in 3rd

10460 Nm (7715 lb-ft) all other ranges

33895 Nm (25000 lb-ft)

1900 RPM

2637 kg (5814 lbs)

0, 1 or 2

149 kW (200 hp)

127-2, 22-4 (SAE B 2-bolt)

127-4, 22-4 (SAE B 4-bolt)

152-4, 32-4 (SAE C 4-bolt)

165-4, 44-4 (SAE D 4-bolt)

1.087 (2066 rpm)

1.579 (3000 rpm)

83 liters (22 USG)

409 LPM (108 GPM)

SAE #0 or SAE #00 dry flywheel housing

For nearly a century, we've been putting horsepower to work by designing, engineering and manufacturing rugged-duty industrial products. Our products and our reputation are bolted to the most renowned engine manufacturers and equipment OEMs in the world. Our mission is to make your machines and vehicles more productive, more durable, more operator-friendly, more cost-effective. From design and installation consultation through after-sale support, Twin Disc and its distributors are committed to your business. No one knows more about managing horsepower in more ways than Twin Disc.

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