

NEW TWIN DISC WELL STIMULATION TRANSMISSION OFFERS POWER-SHIFTING PERFORMANCE WITHOUT TORQUE CONVERTER

Twin Disc recently announced the release of its TA90-7601 power-shift transmission for use in triplex and quintuplex high-pressure pumping for gas and oil well stimulation. The transmission has a maximum gross input power rating of 1939 kW (2600 hp) at 1900 rpm. Because this high-horsepower transmission does not utilize a torque converter, mobile platform weight and size are reduced significantly, allowing for “road legal” chassis installation for easier transporting.

The coaxial, nine-speed TA90-7601 uses Twin Disc’s TDEC-500 electronic shift control system to achieve power shifting under all loaded or unloaded conditions without any throttle dipping within range-to-range shifts. The smallest and most evenly spaced gear ratio steps in the industry ensure that well pressure is maintained without any drop during shifts.

The TDEC-500 control system provides built-in flexibility to modify operation for different site- and rig-specific conditions and adjusts gearshift performance for absolute control of the piston pump. It has been environmentally tested to the highest industry standards.

The shift control features an optimized line test mode specifically for the TA90-7500 and TA90-7600 families of Twin Disc power-shift transmissions, and a TA90-7501 transmission can be modified to a TA90-7601.

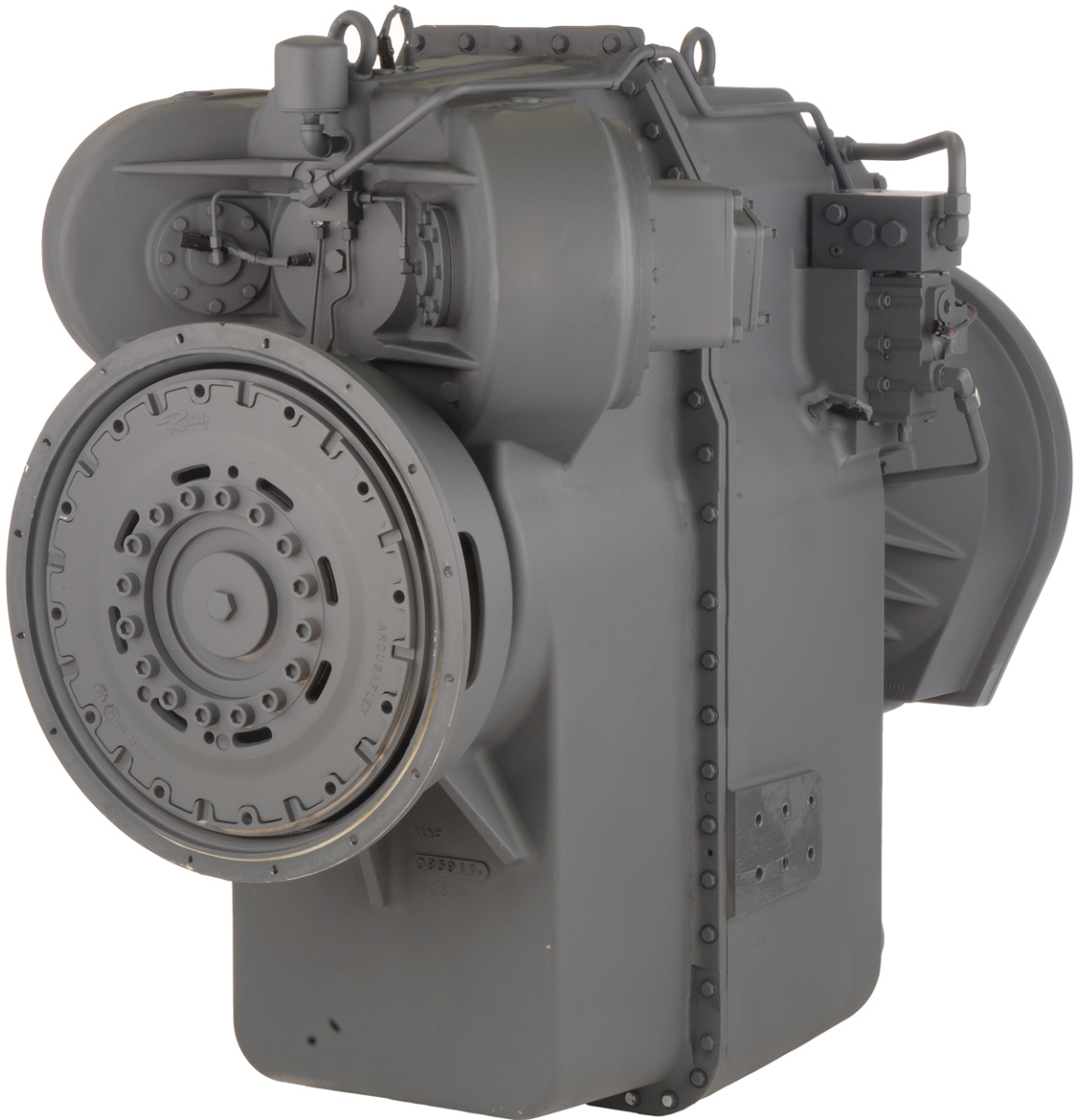
A flexible coupling allows the transmission to be installed on an engine's dry flywheel housing, reducing torsional excitations by the engine and pump. Its strong yet simple countershaft design is expected to yield an L10 life of 10,000 hours, to match the overhaul schedule of the engine that powers it.

Two 149-kW (200-hp) PTOs are available to power the hydraulics that drive the cooling fans and other auxiliary equipment.

Twin Disc manufactures off-highway transmissions, control systems, power take-offs, and mechanical, hydraulic and modulating clutches. Its products are designed and built to reliably perform under the harshest and most demanding work conditions.

For more information on the new TA90-7601 transmission, contact sales@twindisc.com.





Twin Disc TA90-7601 power shift transmission