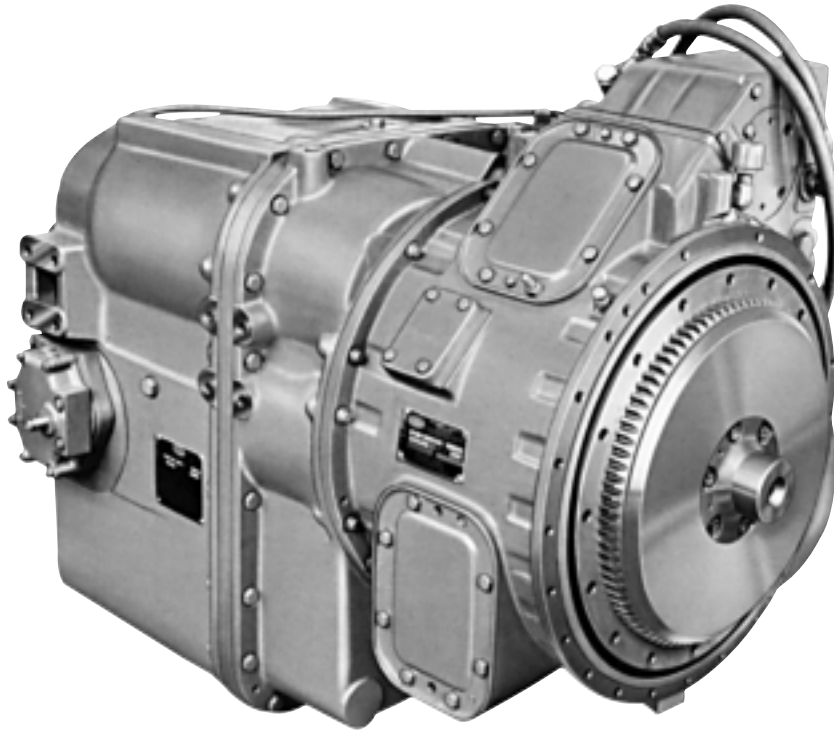


# TA 51-2401 TAC 51-2401 Up to 710 hp 530 kW

Twin Disc Automatic Transmission Systems



TAC 51-2401 shown with standard equipment

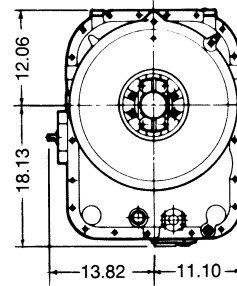
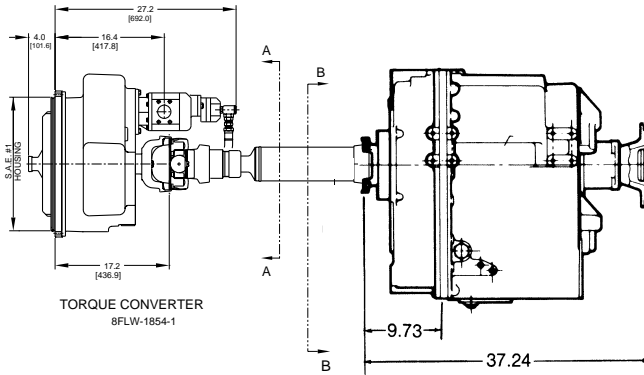
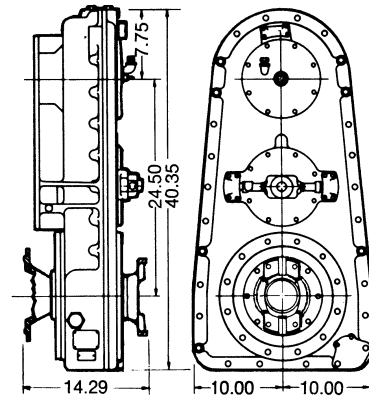
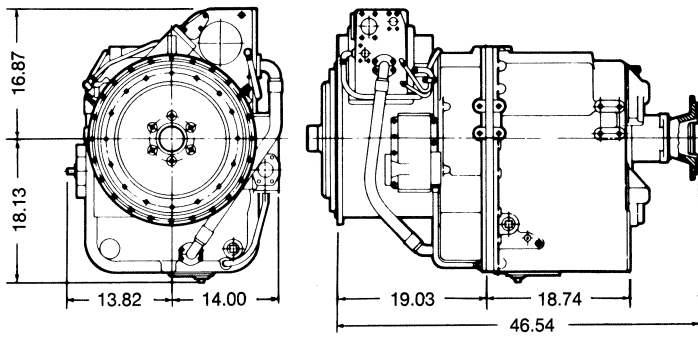
The 2400 Series transmission consists of an integral engine mounted converter/transmission assembly or an engine mounted converter with a remote mounted transmission and the advanced TDEC 400 electronic control system.

### Applications

- Oil field workover and servicing rigs
- Oil field cementing rigs
- Oil field fracturing rigs
- Logging yarders
- Heavy haul trucks

### Features and Benefits

- Increased performance: efficient gear train combined with electronic controls tailored to the needs of the specific application to optimize machine performance.
- Ease of operation: available automatic shifting or manual power shift combined with shift inhibits and interlocks simplify the operator's job and allows for concentration on the job rather than the powertrain.
- Reduced downtime: durable heavy-duty components combined with electronic controls which prevent overspeed, shift shocks and reduce the effects of operator's error, result in increased machine availability and less wear and tear on other machine components.
- Safety: the control system looks after the transmission so the operator can focus on the operation of the machine. Speeds and interlocks can be programmed to meet the needs of the specific machine.



## Specifications

Maximum gross input power	710 hp (530 kW) at 2300 RPM
Maximum gross input torque	2680 lb-ft (3634 N·m)
Maximum input speed	2300 RPM

## Torque Converter

### Models

8FLW-1801	Up to 710 hp (530 kW)
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## Transmission

### Models

TA 51-2401
TAC 51-2401

## Mounting

The hydraulic torque converter is mounted to the engine. The transmission can be either integral with the torque converter or remotely-mounted in the machine frame. Optional transfer case available. Sub-frame type mounting required in the case of an integral unit.

## PTOs

2 SAE 8-bolt (TAC)
2 SAE C-pad (TA)

Sump capacity 25 USG (95 liters)

Weight, dry  
800 lbs. (363 kg)

Weight, dry  
1300 lbs. (590 kg)

Consult factory for optional dry housing converter for use with TA 51-2401.

Cooling pump capacity 46 GPM @ 2000 RPM  
Maximum oil temperature at converter outlet: 250° F  
Cooling required 20 to 30% of GHP depending on application

Consult Twin Disc regarding availability and specifications for optional hydraulic retarder.

**Important Notice: Torsional Vibration** Disregarding propulsion 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 propulsion 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 marine transmission.

Twin Disc, Incorporated reminds users of these products that their safe operation depends on use in compliance with engineering information provided in this bulletin. 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 user (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.



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