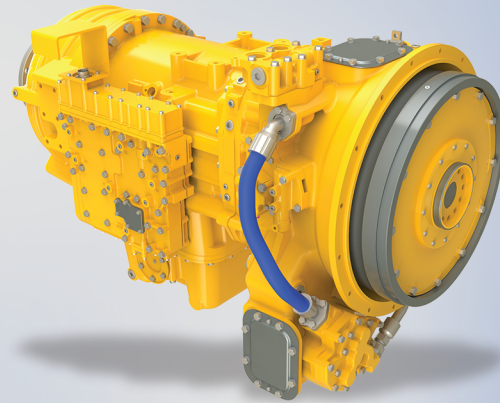


AOS 9800 Series Transmission



AVTEC's AOS 9800 Series is a 3300 hp transmission designed to match the most demanding operating conditions and provides superior durability and productivity in oil field pumping and fracturing application. This transmission ensures maximum uptime for Oil field equipment and lowest lifecycle cost for the equipment.

SPECIFICATIONS

General Rating +	
Gross Input Power	1800 HP (1342 kW)- 3300 HP (2461 kW)
Net Input Power	1650 HP (1230 kW)- 3100 HP (2312 kW)
Gross Input Torque	7100 Nm (5237 lb-ft)-12500 Nm (9219 lb-ft)
Net Input Torque	6600 Nm (4868 lb-ft)-12000 Nm (8851 lb-ft)
Net Turbine Torque	9400 Nm (6933 lb-ft)-13000 Nm (9588 lb-ft)

ENGINE INTERFACE

Acceptable full-load engine governed speed	1800 - 2100 rpm
Minimum engine idle speed range (with transmission in Drive)	550 rpm

MOUNTING

DIRECT

SAE No. 0 automatic flywheel housing with flex plate drive. Cradle mounting using engine flywheel housing mounting pads and transmission rear cover Mounting pads with M16x2 Metric (or) 0.625-11inch series bolts.

REMOTE

Side pads on transmission rear cover plus front trunnion mount.

TORQUE CONVERTER

Type	Single stage, 3 elements
Stall Torque Ratio (STR)	(1) TC 82 – 1.86 (2) TC 83 – 1.78 (3) TC 84 – 1.84 (4) TC 85 – 1.61 (5) TC 86 – 1.31
Lock up clutch	Effective in all forward ranges

GEAR RATIO

First Gear	3.89 : 1
Second Gear	2.79 : 1
Third Gear	2.26 : 1
Fourth Gear	1.83 : 1
Fifth Gear	1.62 : 1
Sixth Gear	1.31 : 1
Seventh Gear	1.00 : 1
Eighth Gear	0.72 : 1
Reverse Speed	Not Available

CONTROLS

Description	Manual Electric or Electronic
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OPTIONAL ENGINE DRIVEN POWER TAKE OFF PROVISION

Side mount		
Location	5 o'clock position as viewed from rear	
PTO drive gear rating	Intermittent	59 tooth drive gear, 298 kW (400 hp)
	Continuous	59 tooth drive gear, 224 kW (300 hp)
Top mount		
Location	12'o clock position as viewed from rear	
PTO drive gear rating	Intermittent	59 tooth drive gear, 298 kW (400 hp)
	Continuous	59 tooth drive gear, 224 kW (300 hp)

NOTE

PTO ratings apply to both top and side. Combined total cannot exceed individual ratings.

SIZE

Depth (Below horizontal center line)	531 mm (20.9 in)
Length (direct mount) (approx. from engine)*	1576 mm (62 in)
Length (Remote mount) (Flange to flange)*	1825 mm (72 in) –Will vary based on Flange
Width	925 mm (36.4 in)
Height	900 mm (35.4 in)

*Length is approximate from engine/converter mounting surface to face & typical output flange.

For remote mounting add 10-11in (254-279mm), depending on flange selection.

WEIGHT

Dry weight remote mount	1750 kg (3784 lb.)
Dry weight direct mount	1690 kg (3726 lb.)

OIL SYSTEM

Oil type	As per AVTEC Approved list (SAE oil grade varies based on operating ambient condition)
Capacity excluding external circuit	79 liters
Main circuit oil filter – Standard	Manifold for full flow, remote mount, replaceable element.
Cooler circuit oil filter (optional) replaceable element, remote mount	

DIMENSIONS

