

# AH 8700 Series Transmission



## RATINGS

Application	Input Power hp (kW)		Input Torque lb-ft (N.m)		Turbine Torque lb -ft( N.m)
	Gross	Net	Gross	Net	Net
Hauling Applications	1050 (783)	975 (727)	3600 (4881)	3300 (4474)	5650 (7660)
General	1050 (783)	975 (727)	3600 (4881)	3300 (4474)	5650 (7660)
Agricultural Tractor	850 (634)	775 (578)	3200 (4339)	2960 (4013)	5300 (7186)
Oil Field	1200 (895)	1104 (823)	3600 (4881)	3300 (4474)	5966 (8089)

## ENGINE INTERFACE

Acceptable full load engine governed speed	1800-2300 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 (or) 0.625-11bolts.

### REMOTE

Side pads on transmission rear cover plus front trunion mount.

TORQUE CONVERTER		MECHANICA RATIOS	
Type	Single phase, Three element	(Gear ratios do not include torque converter multiplication)	
Stall Torque Ratio	(1) AV TC 82 : 2.20, (2) AV TC 81 : 1.86	First	4.43 :1
Lockup clutch	Effective in all forward ranges	Second	2.39 :1
		Third	1.95:1
		Fourth	1.72:1
		Fifth	1.32:1
		Sixth	1.00:1
		Seventh	0.72:1
		Reverse	-5.87:1

## CONTROL SYSTEM

Description	Automatic electronic, Manual electric, Manual hydraulic
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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 centre line)	531 mm (20.9 in)
Length (direct mount) approx*	1411 mm (55.5 in)
Length (Remote mount) (flange to flange)*	1800 mm (70.86)
Width	918 mm (36.1 in)
Height	896 mm (35.2 in)
Dry weight remote mount	1714 kg (3780 lb.)

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

## OILSYSTEM

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





