

## 8600 Series



Straight-Thru Model		Input Power gross	hp (kW) net	Input Torque gross	lb-ft (N•m) net	Turbine Torque Net Ib-ft (N•m)
H8610	Rear Dump Truck, Coal Hauler,	1050 (783)	975 (727)	3600 (4881)	3300 (4474)	5650 (7647)
M8610	General	1050 (783)	975 (727)	3600 (4881)	3300 (4474)	5650 (7647)
	Oil Field	1200 (895)	1104 (823)	3600 (4881)	3300 (4474)	5966 (8089)
	Agricultural Tractor	850 (634)	775 (578)	3200 (4339)	2960 (4013)	5300 (7186)
S8610	Oil Field Equipment	1200 (895)	1104 (823)	3600 (4881)	3300 (4474)	5966 (8089)

#### ENGINE INTERFACE

Acceptable full-load engine governed speed

Minimum engine idle speed range (with transmission in Drive)

# MOUNTING

Direct	SAE No. 0 automatic flywheel housing with flexplate drive. Cradle mount using engine flywheel housing mounting pads
	and transmission rear cover mounting pads with 0.625-11 inch series bolts

Remote Side pads on transmission rear cover plus front trunnion mount

TORQUE CONVER	TER		MECHANICAL RATIOS (Gear ratios of	do not include torque converter multiplication)
Туре	Single stag	e, three element, polyphase.	Range	
Model	Stall Torque Ratio	Kp-Factor* at Stall	First	4.21 : 1
TC-860	2.32	40.7 (35.0)	Second	2.32 : 1
TC-880	2.20	36.9 (31.7)	Third	1.69 : 1
TC-890	1.86	32.6 (28.0)	Fourth	1.31 : 1
TC-1060	1.86	39.1 (33.6)	Fifth	1.00 : 1
TC-1070	1.78	30.5 (26.2)	Sixth	0.73 : 1
TC-1078	1.84	28.6 (24.6)	Reverse 1	-5.75 : 1
			Ratio Coverage	
Includes standard integral damper which is operational in lockup			Forward	5.97
	e converter capacity. Kp = the the square root of the pump to			

#### CONTROL SYSTEM Description

Automatic electronic, manual electric

1800 – 2300 rpm

550 rpm

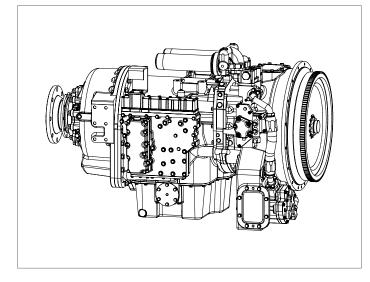
Side mount						
Location				5 o'clock po	sition, as viewed from rea	
PTO drive gear rating Intern		ittent		59 tooth drive gear, 400 hp (298 kW		
Continu		uous		59 tooth drive gear, 300 hp (224 kW)		
Top Mount						
Location				12 o'clock po	sition, as viewed from rea	
PTO drive gear rating	Intermi	Intermittent			59 tooth drive gear, 400 hp (298 kW	
Cont		uous		59 tooth drive gear, 300 hp (224 kW		
ELECTRONIC SPEEDOME	ETER PROVISION	OUTPUT RE		SION (OPTIO	N)	
Description LS-TTL	signal, 41 pulses per output shaft revolution	Туре			Integral, hydrauli	
Location	Output signal from transmission TCM	Capacity	Torque		Power	
			3451 lb-ft (4	679 N•m)	1380 hp (1029 kW	
SIZE		\				
Depth (below horizontal center	line)				20.9 in (530 mm	
Length (direct mount) <sup>2.3</sup>					55.5 in (1411 mm	
Width					35.1 in (892 mm	
		Height			Dry Weigh	
Basic model		35.3 in (	35.3 in (898 mm)		3700 lb (1678 kg	
With direct mount filters		39.8 in (1011 mm)			3700 lb (1678 kg	
With top engine-driven PTO dr	ive gear				3730 lb (1692 kg	
With remote mount					3780 lb (1714 kg	
OIL SYSTEM						
Oil type		TES	5 439, (See " <u>www.a</u>	llisontransmiss	ion.com <sup>»</sup> for approved lis	
Capacity excluding external cir	rcuits				21.0 gallons (79 litres	
Main circuit oil filter						
Standard		I	Manifold for full-flow	v, remote mour	ited, Replaceable elemer	
Optional	Optional Direct-mount full flow, rep				, replaceable elements (2	
Cooler circuit oil filter (optional					element, remote-mounte	

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

2. For remote mounting, add 11 in (279 mm).

3. Length is approximate from engine/converter mounting surface to face of typical output flange.

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Information or specifications subject to change without notice or obligation.

