





9600 Series

RATINGS						
Straight-1	Thru Model	Input Power gross	hp (kW) net	Input Torque gross	lb-ft (N•m) net	Turbine Torque Net lb-ft (N•m)
H9610	Rear Dump Truck, Coal Hauler,	1350 (1007)	1250 (933)	4000 (5423)	3700 (5017)	6000 (8135)
M9610	Mobile Equipment	1350 (1007)	1250 (933)	4000 (5423)	3700 (5017)	6000 (8135)
S9610	Stationary Equipment	1350 (1007)	1250 (933)	4000 (5423)	3700 (5017)	6000 (8135)

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

MOUNTING

Type

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

Single stage, three element, polyphase.

Remote Side pads on transmission rear cover plus front trunnion mount

TORQUE	CONVERTER
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Model	Stall Torque Ratio	Kp-Factor* at Stall
TC-1060	1.86	39.1 (33.6)
TC-1070	1.78	30.5 (26.2)
TC-1078	1.84	28.6 (24.6)
TC-1080	1.61	25.8 (22.2)

Kp-Factor defines torque converter capacity. Kp = the ratio of converter pump speed [rpm] divided by the square root of the pump torque [lb-ft (N \cdot m)]

MECHANICAL RATIOS (Gear ratios do not include torque converter multiplication) Range		
Second	3.05 : 1	
Third	2.32 : 1	
Fourth	1.67 : 1	
Fifth	1.00 : 1	
Sixth	0.72 : 1	
Reverse 1	-5.75 : 1	
Reverse 2	-4.13 : 1	
Ratio Coverage		
Forward	5.89	

CONTROL SYSTEM

Description Automatic electronic, manual electric

OPTIONAL ENGINE-DRIVEN POWER TAKE-OFF PROVISION ¹		
Side mount		
Location		5 o'clock position, as viewed from rear
PTO drive gear rating	Intermittent	59 tooth drive gear, 400 hp (298 kW)
	Continuous	59 tooth drive gear, 300 hp (224 kW)
Top Mount		
Location		12 o'clock position, as viewed from rear
PTO drive gear rating	Intermittent	59 tooth drive gear, 400 hp (298 kW)
	Continuous	59 tooth drive gear, 300 hp (224 kW)

ELECTRONIC SPEEDOMETER PROVISION		
Description	LS-TTL signal, 41 pulses per output shaft revolution	
Location	Output signal from transmission TCM	

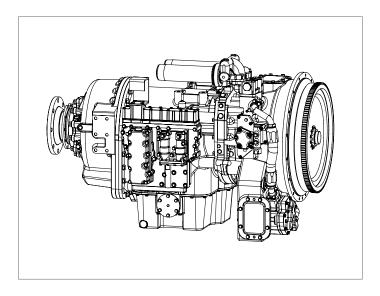
OUTPUT RE	TARDER PROVISION (OPTIO	N)
Туре		Integral, hydraulic
Capacity	Torque	Power
	4152 lb-ft (5630 N•m)	1660 hp (1238 kW)

SIZE		
Depth (below horizontal centerline)		20.9 in (531 mm)
Length (direct mount) 2,3		55.5 in (1411 mm)
Width		35.1 in (892 mm)
	Height	Dry Weight
Basic model	35.3 in (896 mm)	3700 lb (1678 kg)
With direct mount filters	39.8 in (1011 mm)	3700 lb (1678 kg)
With top engine-driven PTO drive gear		3730 lb (1692 kg)
With remote mount		3780 lb (1714 kg)

OIL SYSTEM	
Oil type	TES 439, (See "www.allisontransmission.com" for approved list)
Capacity excluding external circuits	21.0 gallons (79 litres)
Main circuit oil filter	
Standard	Manifold for full-flow, remote mounted, Replaceable element
Optional	Direct-mount full flow, replaceable elements (2)
Cooler circuit oil filter (optional)	Replaceable element, remote-mounted

- 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.

