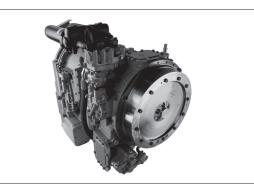


## 5600 Series



RATING	iS			
Straight-	Thru Model	Gross Input Torque N∙m (lb-ft)	Gross Input Power kW (hp)	Turbine Torque Net N∙m (lb-ft)
H5620	Rear Dump Truck, Coal Hauler, Articulated Dump, Hauling Applications	2542 (1875)	447 (600)	4711 (3475)
M5620	General, Oil Field, Crane Carrier	2542 (1875)	447 (600)	4711 (3475)
	Agricultural Tractor	2237 (1650)	373 (500)	4230 (3120)
	Crash Truck (ARFF Vehicle)	3390 (2500)	559 (750)	5139 (3790)
S5620	General	2542 (1875)	447 (600)	4711 (3475)
	Oil Field Equipment	2915 (2150)	503 (675)	4711 (3475)
	Agricultural Tractor	2237 (1650)	373 (500)	4230 (3120)
	Manual Shift (Non-Oil Field)	2542 (1875)	447 (600)	4711 (3475)
Dropbox	Model	Gross Input Torque N∙m (lb-ft)	Gross Input Power kW (hp)	Turbine Torque Net N∙m (lb-ft)
H5620	Rear Dump Truck, Coal Hauler, Articulated Dump, Hauling Applications	2542 (1875)	447 (600)	4711 (3475)
M5620	General, Oil Field, Crane Carrier	2542 (1875)	447 (600)	4711 (3475)
	Crash Truck (ARFF Vehicle)	2542 (1875)	447 (600)	4711 (3475)
\$5620	General	2542 (1875)	447 (600)	4711 (3475)
	Oil Field Equipment	2542 (1875)	447 (600)	4711 (3475)
ENGINE	INTERFACE			
Acceptab	le full-load engine governed speed			1900 – 2500 rpm
Minimum	n engine idle speed range (with transmi	550 rpm		
MOUNT	ING			

## Direct SAE No.1 automatic flywheel housing with flexplate drive. Cradle mount using engine flywheel housing mounting pads and transmission rear cover mounting pads (or dropbox side pads, if applicable) with 0.625-11 inch series bolts

Remote Side pads on transmission rear cover (or dropbox side pads, if applicable) plus front trunnion mount

## **TORQUE CONVERTER**

Туре		Single stage	Single stage, three element, polyphase.		
	Model	Stall Torque Ratio	Kp-Factor* at Stall		
	TC-580	2.89	53.4 (62.2)		
	TC-680	2.08	46.9 (54.6)		
	TC-682	1.77	37.5 (43.7)		
	TC-683	1.85	30.1 (35.1)		

MECHANICAL RATIOS (Gear ratios do not include torque converter multiplication)					
Range					
	First	4.00 : 1			
	Second	2.68 : 1			
	Third	2.01 : 1			
	Fourth	1.35 : 1			
	Fifth	1.00 : 1			
	Sixth	0.67 : 1			
	Reverse 1	-5.15 : 1			
	Reverse 2	-3.46 : 1			
Ratio Coverage	2				
	Forward	5.97			
	Dropbox, if applicable	1.00:1			

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

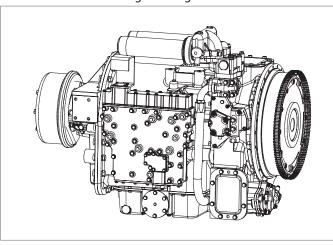
## CONTROL SYSTEM

Description

Automatic electronic, manual electric, manual hydraulic

Side mount						
Location			5 o'clock posit	ion, as viewed from rea		
PTO drive gear rating	Interr	Intermittent		46 tooth drive gear, 149 kW (200 hp		
	Conti	Continuous		46 tooth drive gear, 93 kW (125 hp		
Top Mount						
Location			12 o'clock posit	ion, as viewed from rea		
PTO drive gear rating	Interr	Intermittent		46 tooth drive gear, 149 kW (200 hp		
	Conti	Continuous		46 tooth drive gear, 93 kW (125 hp		
ELECTRONIC SPEEDOMETER F	ROVISION	OUTPUT RETAR	OUTPUT RETARDER PROVISION (OPTION)			
Description LS-TTL signal, 3	9 pulses per output shaft revolution			, Integral, hydrauli		
Location 0	Output signal from transmission TCM		Torque	Power		
		Capacity	2034 N∙m (1500 lb-ft)	447 kW (600 hp		
SIZE	STRAIGH	-THRU	DROPBOX (with disconnects)			
Depth (below horizontal centerline)		433 mm (17.0 in)		678 mm (26.7 in)		
	Basic	With Retarder	Basic	With Retarder		
Length (direct mount) <sup>2,3</sup>	1095 mm (43.1 in)	1182 mm (46.6 in)	1185 mm (46.7 in)	1273 mm (50.1 in)		
Width	726 mm (28.6 in)	805 mm (31.7 in)	734 mm (28.9 in)	805 mm (31.7 in)		
	Height	Dry Weight	Height	Dry Weight		
Basic model	788 mm (31.0 in)	998 kg (2200 lb)	1034 mm (40.7 in)	1247 kg (2750 lb)		
With direct mount filters	904 mm (35.6 in)	998 kg (2200 lb)	1150 mm (45.3 in)	1247 kg (2750 lb)		
With top engine-driven PTO drive ge	ar	1012 kg (2230 lb)		1261 kg (2780 lb)		
With park brake (12" x 5")		1025 kg (2260 lb)		1274 kg (2810 lb)		
With remote mount		1023 kg (2255 lb)		1272 kg (2805 lb)		
With retarder		1073 kg (2365 lb)		1322 kg (2915 lb)		
OIL SYSTEM						
Oil type		TES 439	9 (see www.allisontransmissic	on.com for approved list		
Capacity excluding external circuits			68 litres (18.0 gallons			
Dropbox				49 litres (13.0 gallons		
Main circuit oil filter						
Standard		Manifold for full-flow, remote mounted, replaceable elemen				
Optional		Direct-mount full-flow, replaceable elements (2)				
Cooler circuit oil filter (optional)		Replaceable element, remote-mountee				

5600 Series Straight-Through Model



Information or specifications subject to change without notice or obligation.

