S5610 (STATIONARY) M5610 (MOBILE)

UPTO 550 HP (410 kW), 1750 LB-FT (2373 N·m)





Transmission.	SPECIFIC	CATIONS	
RATINGS	Net Input Torque Ib-ft (N•m)	Net Input Power hp (kW)	Turbine Torque lb-ft (N•m)
Straight-Thru Models			
♀ Winch, Auger	1750 (2373)	550 (410)	3120 (4230)
Oil Field Equipment	1750 (2373)	550 (410)	3476 (4713)
Rear Dump Truck, Coal Hauler, Articulated Dump	1750 (2373)	550 (410)	3120 (4230)
Oil Field, Crash Truck, Crane Carrier	1750 (2373)	550 (410)	3476 (4713)
≥ Agricultural Tractor	1485 (2013)	450 (335)	3120 (4230)
Dropbox Models			
Ç Winch, Auger	1575 (2135)	500 (373)	3120 (4230)
Oil Field Equipment	1575 (2135)	534 (398)	3476 (4713)
Rear Dump Truck, Coal Hauler, Articulated Dump	1575 (2135)	500 (373)	3120 (4230)
Oil Field, Crash Truck, Crane Carrier	1575 (2135)	534 (398)	3476 (4713)
ENGINE INTERFACE			
Acceptable full-load engine governed speed			1900-2500 rpm
Minimum engine idle speed range (with transmissio	n in Drive)		550 rpm
MOUNTING Direct SAE No. 1 automatic flywheel housing	with flexplate drive. Cradl	e mount using engine flywh	eel housing mounting
pads and transmission rear cover mount			
Remote Side pads on transmission rear cover (or dropbox side pads, if applicable) plus front trunnion mount			front trunnion mount
TORQUE CONVERTER			

rype	Single stage, three element, polyphase		
	Stall Torque Ratio	Kp-Factor* at Stall	
TC-580	2.89	62.2 (53.4)	
TC-680 (with retarder)	2.17	53.2 (45.7)	
TC-680 (without retarder)	2.08	54.6 (46.9)	
TC-682	1.77	43.7 (37.5)	
TC-683	1.85	35.1 (30.1)	

*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-m)]

MECHANICAL RATIOS*

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	
Forward	5.97
Dropbox, if applicable	1.00:1
*Gear ratios do not include torque converter multiplication.	

CONTROL SYSTEM

Description Automatic electronic, manual electric, manual hydraulic

OPTIONAL ENGINE-DRIVEN POWER TAKEOFF PROVISION

Side mount		
Location		5 o'clock position, as viewed from rear
PTO drive gear rating	Intermittent	46 tooth drive gear, 200 hp (149 kW)
	Continuous	46 tooth drive gear, 125 hp (93 kW)
Top mount		
Location		12 o'clock position, as viewed from rear
PTO drive gear rating	Intermittent	46 tooth drive gear, 200 hp (149 kW)
	Continuous	46 tooth drive gear, 125 hp (93 kW)

SPEEDOMETER PROVISIONS

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Description	LS-TTL signal, 39 pulses per output shaft revolution
Location	Output signal from transmission ECU
Mechanical Drive (straight-thru)	
Description	SAE "Heavy Duty" 5/32-inch; Ratio = 0.50:1
Location	Transmission rear cover
Mechanical Drive (dropbox)	
Description	SAE "Heavy Duty" 5/32-inch; Ratio = 1.00:1
Location	Rear surface of dropbox module

OPTIONAL RETARDER PROVISION

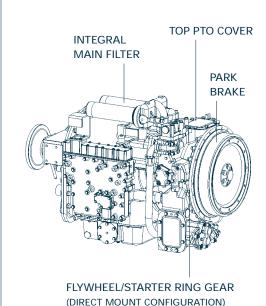
Input			Integral, hydraulic
Capacity		Torque	Power
	1500) lb-ft (2034 N•m)	600 hp (447 kW)
SIZE		Straight-Thru	Dropbox (with disconnects)
Depth (below horizon	ntal centerline)	17.0 in (432 mm)	26.7 in (678 mm)
Length (direct mount) ^{1,2}	² Basic	43.2 in (1097 mm)	51.5 in (1308 mm)
	With retarder	46.6 in (1184 mm)	54.9 in (1394 mm)
Width (without filters)	Basic	26.8 in (681 mm)	26.9 in (683 mm)
	With retarder	30.0 in (762 mm)	30.0 in (762 mm)
Height	Basic	31.0 in (787 mm)	40.7 in (1034 mm)
	With direct mount filters	35.5 in (902 mm)	45.2 in (1148 mm)
Dry Weight			
Basic model		2200 lb (998 kg)	2750 lb (1247 kg)
With top engine driven PTO drive gear		2230 lb (1012 kg)	2780 lb (1261 kg)
With park brake		2260 lb (1025 kg)	2810 lb (1274 kg)
With remote mount		2255 lb (1023 kg)	2805 lb (1272 kg)
With retarder		2365 lb (1073 kg)	2915 lb (1322 kg)

OIL SYSTEM

Oil type		C-4, 15W40
Capacity, excluding extern	nal circuits	18.0 gallons (68 liters)
Dropbox		13.0 gallons (49 liters)
Main circuit oil filter		
Standard	Manifold f	or full-flow, remote mounted, replaceable element
Optional		Direct-mount full flow, replaceable elements (2)
Cooler circuit oil filter (op	tional)	Replaceable element, remote-mounted

¹ For remote mounting, add 10-11 inches (254-279 mm), depending on flange selection.

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² Length is approximate from engine/converter mounting surface to face of typical output flange.