



**HAULING MODELS\***  
**CL(B)T 6061 (MANUAL), M/S 6610**  
**ELECTRONIC CONTROL UPTO 710 NHP (529 kW)**

**Specifications**

<b>General rating +</b>				
Net input power (max)	710 nhp (529 kw)			
Input speed (max)	2500 rpm			
Net input torque (max)	2270 lb ft (3078 Nm)			
<b>Rotation</b>				
Input (viewed from input)	Clockwise			
Output (viewed from input)	Clockwise (forward ranges)			
<b>Mounting</b>				
Direct	SAE # 1 automatic flywheel (WET) housing with flexdisc drive. Cradle mounted using engine flywheel mounting pads and transmission rear cover mounting pads with 5/8-11 bolts.			
Remote	Trunnion mount and transmission rear cover side pads.			
<b>Torque converter</b>				
Type	Single stage, 3-element			
Stall Torque ratio	TC 680-Retarder-2.17:1, Non-Retarder-2.08:1, TC 683-1.85:1; TC 682-1.77:1			
Lockup clutch	Effective in all forward ranges			
<b>Gearing</b>				
Type	Constant mesh, spur type, planetary			
Range	Ratio#	Range	Ratio#	
First	4.00:1	Fifth	1:00:1	
Second	2.68:1	Sixth	0.67:1	
Third	2.01:1	Reverse 1	5.15:1	
Fourth	1.35:1	Reverse 2	3.46:1	#Gear ratio does not include torque converter ratio.
<b>Power takeoff provision</b>				
Engine-driven PTO				
Top mounting pad (optional)(SAE 8-bolt)				
Location	12 O' Clock position (as viewed from rear)			
Drive gear rating	Intermittent - 200 hp(149 kw); Continuous - 125 hp (93 kw)			
Drive gear ratio	1.21 x engine speed			
Side mounting pad (SAE-8-bolt)				
Location	4 O' Clock position (as viewed from rear)			
Drive gear rating	Intermittent - 200hp (149 kw); Continuous - 125 hp (93 kw)			
Drive gear ratio	1.00 x engine speed			
<b>Hydraulic retarder (optional)</b>				
Type	Coupling type rotor between fixed stators			
Capacity	600 hp (447 kw), 1500 lb ft (2034 Nm) @ 2100 rpm rotor speed			
<b>Size (typical configuration)</b>				
Length	54.3 in (1380 mm)			
Width	30.0 in (762 mm)			
Height with filter	35.5 in (902 mm)			
Weight, basic model, dry	2200 lb (998 kg)			
Retarder	Add 165 lb (75 kg) to weight			

\* Manufactured in technical collaboration with and under licence from Allison Transmission Inc., USA.

+ Rating may vary by vocation, consult Avtec Limited-Power Products Division (AVTEC-PPD), Marketing department for specific information.

## Design Features & Benefits

- Designed for use with diesel engines upto 710 nhp (529 kw). Six forward ranges and a choice of two reverse ratios. This transmission is typically used in on/off-and-highway applications.
- Clutches are multidisc design, oil-cooled, hydraulically -operated, spring released and self-compensating for normal wear. Spur-type planetary gears are designed for strength and long life.
- The Allison three-element torque converter provides smooth, shock-free operation. A choice of converters permits matching the transmission to a wide variety of engines.
- Electronic Controls provide: programmable features to perform vehicles and vocational requirements; built-in-diagnostics which constantly monitor operation and facilitate the detection of problems if they occur; improved fuel economy; specific vehicle and vocational needs.
- Manual hydraulic controls are available for use in oil field applications where electrical equipment use is prohibited.
- Manual electric controls are available for use in non-hauling applications including; oil field, stationary equipment and agricultural tractors.
- An optional parking brake (Bendix 12 x 5) is available.

- Two configurations of main circuit oil filters are available with the transmission. The direct mount configuration is a dual filter assembly which mounts directly to the top of the transmission main case. The remote mount configuration is a single element filter which can be mounted wherever convenient.
- A selection of optional driveline flanges is available.
- A speedometer drive is supplied with the transmission. The transmission output speed ratio is 5:1.
- Electronic speedmeter, neutral start and reverse signals are available with Allison Transmission Electronic Controls

## SCAAN Specification Assistance

To be sure that you get the most efficient engine transmission matching for your operation, with your preferred vehicle, Power Products Division offers SCAAN.

SCAAN stands for System for Computerized Application ANalysis and helps eliminate guesswork from vehicle buying decisions. It can compute a wide variety of vehicle performance parameters. SCAAN will also check your powertrain specifications against Hindustan Transmission vocational experience to ensure satisfactory vehicle performance. SCAAN is user friendly. Interactive operation allows vehicle configurations to be quickly evaluated to ensure optimized powertrain selection.

### Applications



Oil Field Working Rig



Off - Highway Hauler



Logging Truck



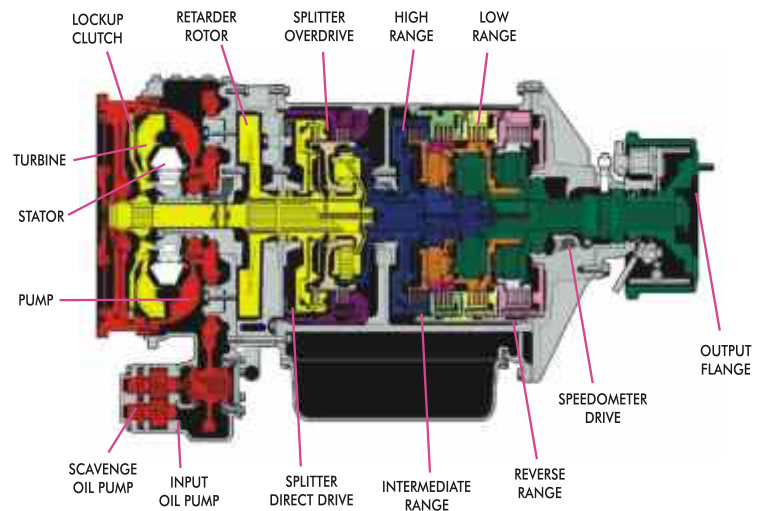
AG Tractor



Crash Truck



Crane Carrier



M/S 6610 Transmission Cross Section



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