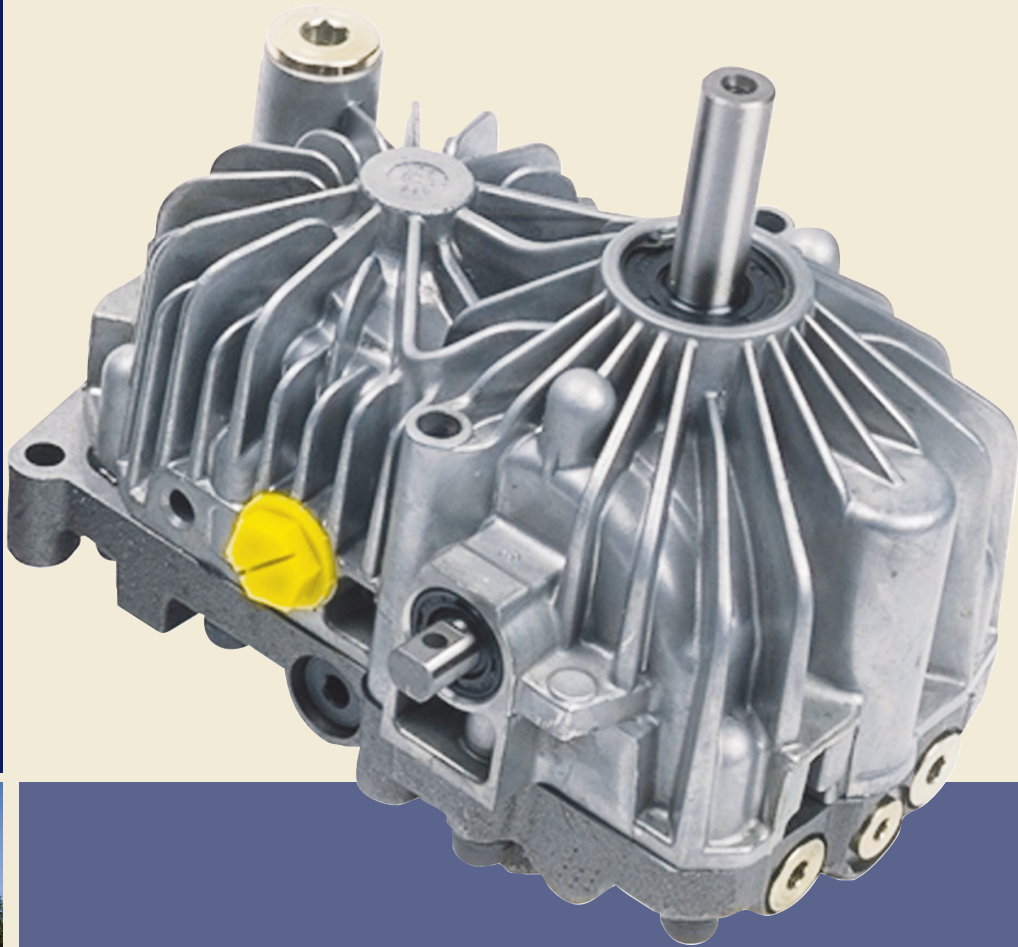


# **BDU**

**Hydrostatic Transmission**



*FORWARD MOTION THROUGH FORWARD THINKING®*

 **HYDRO-GEAR®**  
*FORWARD MOTION THROUGH FORWARD THINKING*

High performance and durability

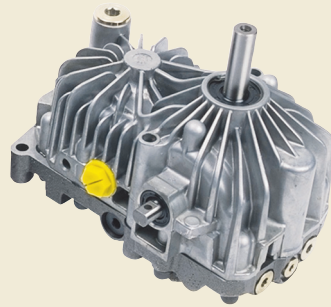
Infinitely variable output speed

Bidirectional output rotation

Standard control options

Shock valve relief options

Industry leading warranty and service support



**BDU**  
Hydrostatic Transmission

SPECIFICATIONS		BDU		
		-10S	-10L	-21L
Pump Displacement	<i>in<sup>3</sup>/rev [cc/rev]</i>	0.62 [10.2]	0.62 [10.2]	1.33 [21.8]
Motor Displacement	<i>in<sup>3</sup>/rev [cc/rev]</i>	0.623 [10.2]	0.623 [10.2]	1.33 [21.8]
Input Speeds				
<i>Maximum Hi-Idle [No Load]</i>	<i>rpm</i>	3000	3600	3600
<i>Minimum [Loaded]</i>	<i>rpm</i>	1800	1800	1800
System Operating Pressure				
<i>Continuous</i>	<i>psi [bar]</i>	850 [60]	1000 [70]	1000 [70]
<i>Intermittent</i>	<i>psi [bar]</i>	2100 [145]	2100 [145]	2100 [145]
Case Pressure				
<i>Continuous</i>	<i>psi [bar]</i>		4 [0.3]	
<i>Maximum@ Cold Start</i>	<i>psi [bar]</i>		10 [0.7]	
Weight of Unit	<i>lbs [kg]</i>	15 [6.8]	15 [6.8]	23 [10]
Charge Pump Displacement	<i>in<sup>3</sup>/rev [cc/rev]</i>	-	0.11 [1.9]	0.13 [2.1]
Aux. Pump Displacement	<i>in<sup>3</sup>/rev [cc/rev]</i>	-	-	0.19 [3.2]
Aux. Pump Performance				
@500 psi, 3200 rpm, & 180°F inlet temp	<i>gpm</i>	-	-	1.8 - 2.0
	<i>SUS [cSt]</i>	-	-	66-100 [12-20]
Motor Output Torque				
	<i>lb-in/1000 psi</i>	85	85	180
	<i>Nm/70 bar</i>	[9.6]	[9.6]	[20.3]
Control Torque Required to Stroke Pump				
<i>Approx. 20° Stroke Angle</i>				
	<i>lb-in/1000 psi [Nm/70 bar]</i>	85 [9.6]	85 [9.6]	105 [11.9]
	<i>lb-in/500 psi [Nm/35 bar]</i>	60 [6.8]	60 [6.8]	85 [9.6]
Transmission Oil Temperature				
<i>Normal Operating Range</i>	<i>°F [°C]</i>		-10 to 200 [-23 to 93]	
<i>Maximum Intermittent</i>	<i>°F [°C]</i>		230 [110]	
Fluid Viscosity Limits				
@230°F [110°C]				
<i>Optimum</i>	<i>SUS [cSt]</i>		70 [13]	
<i>Minimum</i>	<i>SUS [cSt]</i>		55 [9.0]	



Specifications subject to change without notice.

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01/2011



A World Leader in Hydrostatic Transaxles \* Axial Piston Pumps & Motors \* LSHT Wheel Motors \* Electric L&G Systems  
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