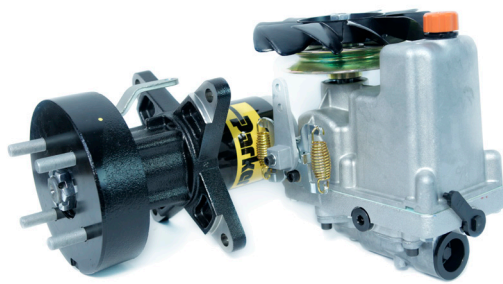
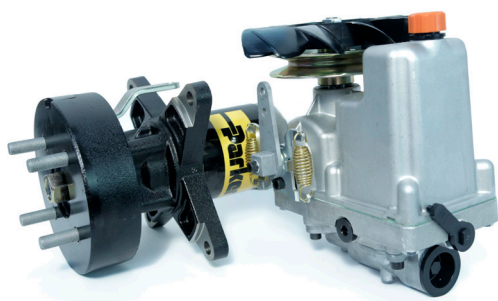


PROPELLED BY



More propulsion choices for  
broader market applications.



## Integrated Hydrostatic Transmissions

HTE, HTJ and HTG Series

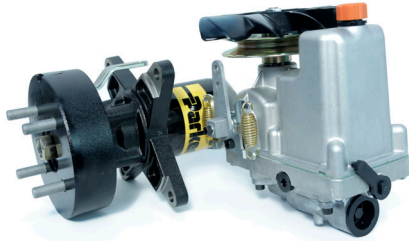
aerospace  
climate control  
electromechanical  
filtration  
fluid & gas handling  
**hydraulics**  
pneumatics  
process control  
sealing & shielding



ENGINEERING YOUR SUCCESS.

The newest generation of HT Series Transmissions offers a wide variety of propulsion options to handle the broad range of commercial market applications while still providing increased design and manufacturing efficiency with a common four bolt mounting across the product range.

Machine weights to 2500 pounds  
Tire sizes to 26 inch  
Drive speeds to 15 MPH  
Axle shaft diameters to 1¼ inches



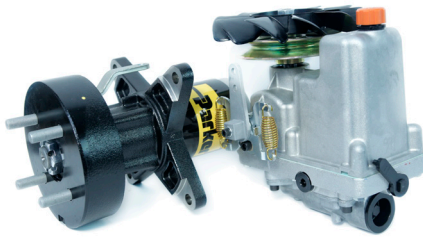
## HTE Series

The HTE Series transmission is the ideal choice for lighter machine applications such as residential “estate” or entry commercial operator mowers. It matches the proven Parker 10cc pump with six sizes of the rugged, field-proven TE Torqmotors for the most effective integrated transmission available in its class.

Motor Displacement (cc/rev)	130	165	195	228	260	293
Continuous Output Torque Rating (lb-in)	1580	1980	2415	2710	3140	3560
Minimum Starting Torque (lb-in)	2420	2990	3635	3635	3975	3940
Maximum Output Torque Rating (lb-in)	3115	3845	4675	4555	4870	5180
Output Speed* (rpm)	265	212	177	152	133	118

\*At 3600 rpm input speed/no-load condition.

### New, more propulsion options



## HTJ Series

The HTJ Series transmission now comes with a choice of a 10cc or 12cc pump, providing design flexibility for expanded market applications. The HTJ Series transmission is similar to the HTE transmission, except it integrates with the field-proven TJ Series Torqmotor with a larger 1¼ inch output shaft (versus 1 inch), a higher capacity bearing for greater side loads capability, and a heavy duty motor drive train for higher torque, heavier weight machine capability, and higher speeds.

Motor Displacement (cc/rev)	130		165		195		228		260		293	
Pump Displacement (cc)	10	12	10	12	10	12	10	12	10	12	10	12
Continuous Output Torque Rating (lb-in)	1580	1823	1980	2285	2415	2787	2710	3127	3140	3623	3560	4108
Minimum Starting Torque (lb-in)	2420	2792	2990	3450	3635	4194	3635	4194	3975	4587	3940	4546
Maximum Output Torque Rating (lb-in)	3115	3594	3845	4437	4675	5394	4555	5256	4870	5619	5180	5977
Output Speed* (rpm)	265	303	212	241	177	202	152	173	133	151	118	134

\*At 3600 rpm input speed/no-load condition.



## HTG Series

The HTG Series has become the industry standard for the truly professional, commercial zero turn radius mowers. The robust, industry standard TG Series Torqmotor, integrated with 14cc and 16cc pumps provides the greatest power for the toughest turf applications.

Motor Displacement (cc/rev)	240		280		310	
Pump Displacement (cc)	14	16	14	16	14	16
Continuous Output Torque Rating (lb-in)	3090	2680	3590	3110	4250	3680
Minimum Starting Torque (lb-in)	5150	5150	5970	5970	6880	6880
Maximum Output Torque Rating (lb-in)	5990	5990	7040	7040	8180	8180
Output Speed* (rpm)	200	228	171	195	154	177

\*At 3600 rpm input speed/no-load condition.

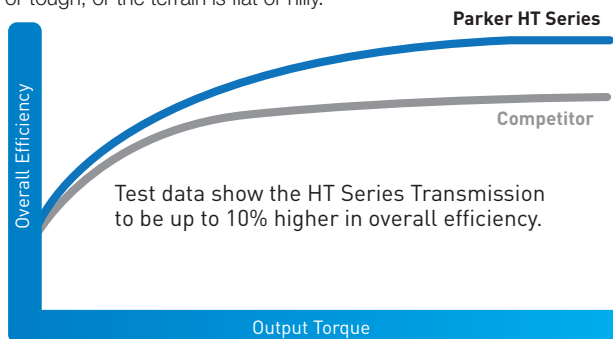
# Rugged power and high operating efficiency is in the DNA.



The heart of the HT Series Integrated Hydrostatic Transmission is the world class Parker Torqmotor married to a high performance Parker variable displacement pump. Parker Torqmotors and pumps have earned a worldwide reputation as a gold standard in hydraulic power transmission. Parker drive systems have been propelling the turf industry since the introduction of zero turn radius mowers, demonstrating market leading durability and efficiency. Laboratory tests show the HT Series transmissions achieve up to a 25% efficiency gain over competing power systems.

## More Power to the Deck

Better overall efficiency means more horsepower to the deck. This translates to a fast, high quality cut, whether the turf is easy or tough, or the terrain is flat or hilly.



## No gearbox

Gearboxes rob power from the machine and are a source of fluid contamination. Eliminating the gearbox means:

- Higher starting torque
- Higher efficiency
- Smooth, quiet operation
- Fewer internal moving parts
- No gear wear or debris in hydraulic fluid



## Lab tests suggest 25% fuel savings over comparable competitive power systems

Parker fuel consumption lab tests of two identical machines, one with HT Series transmissions, the other stock machine with a competitive drive system, revealed that the HT Series outfitted machine ran 25% longer under the same loading conditions. Of course, real life, in the grass, experience will vary. But, if it's your money you're spending on fuel, you should strongly consider the potential fuel savings that comes with a machine powered by Parker's HT Series transmission.

\*When used with approved hydraulic fluid.

## HT Series Transmissions provide more power to the deck, for faster, high quality cuts in tough terrain

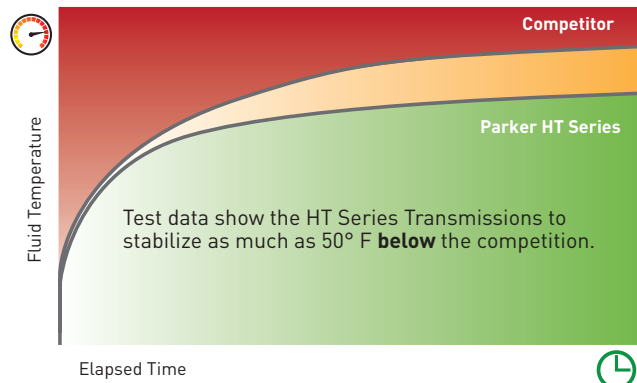
The HT Series puts more torque and more power on the ground. HT Series transmissions need less energy to propel a machine, leaving more power for work.

## High operating efficiency pays off with less heat and more power available to do work

Less heat into the fluid means a cooler running transmission, which extends fluid life. When using Parker engineered hydraulic fluid in the HT Series, the fluid change interval can be as long as 1000 hours\*, significantly greater than the competition. Direct porting between the pump and motor yields greatly enhanced operating efficiency. Cooler operating design means less heat into the hydraulic oil, which translates into less maintenance, and lower downtime.

## Wasted Energy = Heat

Higher efficiency means lower fluid temperature and cooler operation.



# Parker HT Series Hydraulic Transmissions: more power options, wider market applications.

## OEM Benefits

Common four bolt mounting across the product range  
 More scalability across product platforms  
 Reduced components for simplified installation  
 Reduced assembly labor costs  
 Reduced inventory and material costs  
 Increased owner satisfaction

## Owner Benefits

More power to the deck, reducing cutting costs, increased revenue per project  
 Lower fuel cost, up to 25% in lab tests  
 Longer fluid change intervals, up to 1000 hours\*  
 Better durability, longer life cycle means less downtime, decreased expense, improved productivity

**Now available in 10cc or 12cc pump size**

Specifications and Options	HTE Series	HTJ Series	HTG Series	
<b>Pump Sizes (cc/rev)</b>	10	10, 12	14,16	
<b>Motor Sizes (cc/rev)</b>	130, 165, 195, 228, 260, 293	130, 165, 195, 228, 260, 293	240, 280 or 310	
<b>Weight</b> (Including hydraulic fluid)	HTE 130/165 - 23lbs	HTJ 130/165 - 26lbs	HTG 240 - 66lbs	
	HTE 195/228 - 26lbs	HTJ 195/228 - 30lbs	HTG 280 - 68lbs	
	HTE 260/293 - 30lbs	HTJ 260/293 - 33lbs	HTG 310 - 69lbs	
<b>Gross Vehicle Weight</b>	1300 lbs maximum	2000 lbs maximum	2500 lbs maximum	
<b>Maximum Tire Size</b>	24 inch diameter	24 inch diameter	26 inch diameter	
<b>Maximum Output Speed</b>	Up to 266 rpm	Up to 303 rpm	Up to 228 rpm	
<b>Axle Torque</b>	Up to 5180 lb-in	Up to 5980 lb-in	Up to 8180 lb-in	
<b>Fan</b>	7 inch diameter standard	7 inch diameter standard	8.3 inch diameter standard	
<b>Pulley Sizes</b>	5 inch standard	5 inch standard	HTG14	5 inch pulley
	4 inch optional	4 inch optional	HTG16	6 inch pulley
<b>Pulley Height from Axle Centerline</b>	2.96 inch	2.96 inch	HTG14	3.50 inch
			HTG16	3.25 inch
<b>Pulley Input Speed</b>	3,600 rpm maximum	3,600 rpm maximum	3,600 rpm maximum	
<b>Reservoir</b>	Integral 1.75 qt	Integral 1.75 qt	Integral 0.8 gal additional external required	
<b>Charge Pump</b>	Integral	Integral	Integral	
<b>Parking Brake</b>	Drum brake standard	Drum brake standard	Drum brake standard	
<b>Parking Brake Holding Torque Capacity</b>	4,000 lb-in per side	4,000 lb-in per side	4,000 lb-in per side	
<b>Hub</b>	4 bolt or 5 bolt	4 bolt or 5 bolt	4 bolt or 5 bolt	
<b>Return to Neutral</b>	Optional	Optional	Optional	
<b>Expansion Tank</b>	Integral	Integral	Required	
<b>Shock Valves</b>	Optional	Optional	Standard	

\*When used with approved hydraulic fluid.



# Integrated design means lowers manufacturing costs and greater manufacturing efficiencies

Turf equipment manufacturers have the choice between traditional hydraulic power systems and integrated “one piece” systems.

**BEFORE:** Dozens of parts comprised of separate pumps, motors, brakes, tubes, hoses, fittings, filters, reservoir, oil & assembly labor



**AFTER:** Two transmissions, eight bolts and minimal installation labor

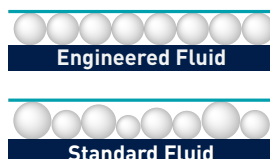


**Common four bolt mounting across HTE, HTJ and HTG Series**

- A “one piece” solution with integrated motor, pump, fluid reservoir and filter eliminates need for a separate motor, pump, fluid reservoir and most hoses and fittings
- Compact system means faster, easier and simpler installation procedures
- Reduced inventory investment and material cost
- Common mounting for all transmissions in the HT line provide great opportunities to scale transmissions up or down as manufacturing or platform needs require
- Integral pre-adjusted drum brake further reduces assembly labor

## All HT Series Transmissions include factory-fill HT-1000 Oil

HT Series transmissions are factory filled with Parker HT-1000 Engineered Transmission fluid for optimized performance and maximum protection, lower operating temperature for longer life, greener operation and operator comfort.



- Engineered for low maintenance — 1,000 hour oil means reduced cost for oil changes, reduced labor cost, increased machine up-time and reduced oil disposal expense
- Higher temperature and water moisture tolerant
- Engineered for the HT Series, optimizes performance, lowers fuel cost
- Protects against user neglect
- Cooler operations: lower operating temperatures, longer machine life and more operator comfort

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