



## LAWN & GARDEN TRANSAXLE | K46

The K46 is the technology platform for Tuff Torq's deep line of compact integrated hydrostatic transaxles. It is optimized for rear engine riders, lawn tractors and small front deck mowers. The centered input shaft, narrow body width and short length make this an ideal hydro for the most confined mounting areas. The internal diagonal bulkhead makes the housing exceptionally rigid for quiet operation.

### SPECIFICATIONS

		K46
Application		Rear Engine Rider/Lawn Tractor
Reduction Ratio		28.04:1 21.53:1
Axle Torque (rated)	Nm (ft lbs)	28.04:1 231.4 (171) 21.53:1 177.7 (131)
Max. Tire Diameter	mm (inch)	28.04:1 508 (20) 21.53:1 457 (18)
Brake Capacity	Nm (ft lbs)	@ 350 N (79 lbs) Brake Arm Force 28.04:1 330 (243) 21.53:1 253 (187)
Pump/Motor Displacement	cc/rev	7/10
Max. Input Speed	rpm	3,400
Axle Shaft Size	mm (inch)	19.05 (0.75)
Max. Static Weight on Axle	kg (lbs)	306 (675)
Weight (dry)	kg (lbs)	12.5 (27.6)
Brake Type		Wet Disc, internal
Housing (Case)		Aluminum Die Casting
Gears		Heat Treated Powder Metal
Differential		Automotive Type Bevel Gears
Speed Control System		Foot Control : Dampening System or External Shock Absorber Available Hand Control : External Friction Pack and Lever Available
Bypass Valve (Roll Release)		Standard
Oil		SAE 10W-30 Class CD 5W-50 (Option)

Please contact sales for options



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**LAWN & GARDEN TRANSAXLE | K57**

Building on the K46 with an internal charge pump, the K57 is designed for OEM applications demanding higher duty cycles. The K57 provides rear engine riders, lawn tractors and small front deck mowers more power, quieter operation, and longer life.

**SPECIFICATIONS**

		K57		
Application		Rear Engine Rider/Lawn Tractor		
Reduction Ratio		31.68:1	28.04:1	21.53:1
Axle Torque (rated)	Nm (ft lbs)	31.68:1	255 (188)	
		28.04:1	235.4 (174)	
		21.53:1	180.7 (133)	
Max. Tire Diameter	mm (inch)	31.68:1	559 (22)	
		28.04:1	508 (20)	
		21.53:1	457 (18)	
Brake Capacity	Nm (ft lbs)	@ 350 N (79 lbs) Brake Arm Force		
		31.68:1	372 (275)	
		28.04:1	330 (243)	
		21.53:1	253 (187)	
Pump/Motor Displacement	cc/rev	7/10		
Max. Input Speed	rpm	3,400		
Axle Shaft Size	mm (inch)	19.05 (0.75)		
Max. Static Weight on Axle	kg (lbs)	306 (675)		
Weight (dry)	kg (lbs)	12.5 (27.6)		
Brake Type	mm	Wet Disc, internal		
Housing (Case)		Aluminum Die Casting		
Gears		Heat Treated Powder Metal Heat Treated Steel Gears (Option)		
Differential		Automotive Type Bevel Gears		
Speed Control System		Foot Control : Dampening System or External Shock Absorber Available Hand Control : External Friction Pack and Lever Available		
Bypass Valve (Roll Release)		Standard		
Oil		SAE 10W-30 Class CD 5W-50 (Option)		

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**SINGLE PUMP**

**KPL-10**



**SPECIFICATIONS**

		KPL-10
Piston Type		Shoeless
Displacement	cc/rev	10
Input Speed (Max.)	rpm	3,600
Input Speed (Min.)	rpm	600
Weight	kg	3.6
Charge Pump	cc/rev	3
Pressure (Continuous)	MPa(bar)	9.8 (100)
Pressure (Intermittent)	MPa(bar)	14.7 (150)
Pressure (Peak)	MPa(bar)	24.5 (250)
Input Rotation		Optional (CW or CCW)
Forward Orifice	mm	0.8 (Optional)
Reverse Orifice	mm	0.8 (Optional)
Cooling Orifice	mm	1.0
Control Shaft Location		Optional (Right or Left)
Input Shaft Shape		Optional (Spline, Key or Tang)
Loop Relief Valve	MPa(bar)	NA
Neutral Device (RTN)		Optional
Port Size (Main Port)		3/4-16UNF-2B O-ring Boss
Port Size (Drain Port)		9/16-18UNF-2B O-ring Boss
Port Size (Charge Suction Port)		9/16-18UNF-2B O-ring Boss (NA for Type 2)
Mounting		SAE "A"
Bypass Valve		YES
Auxiliary/External Hydraulics		Optional (Type 1 or Type 2)
Type 1 Charge Pump W/ External Hydro.	cc/rev	4
Type 2 Gear Pump (installed on charge pump)	cc/rev	1-5
External Hydro. Port Size (Discharge)		9/16-18UNF-2B O-ring Boss
External Hydro. Port Size (Suction)		3/4-16UNF-2B O-ring Boss

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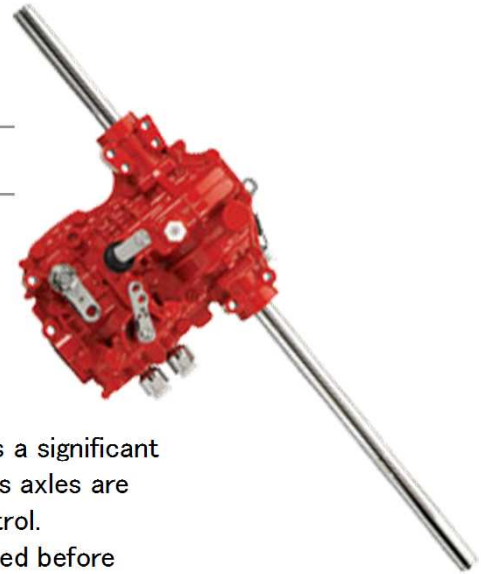
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## 4WD SYSTEM KTM SERIES | KTM10

The innovative hydrostatic four-wheel drive system was designed as a significant improvement over conventional mechanical systems. The KTM series axles are designed for applications requiring power efficiency and precise control. These systems offer OEMs valuable vehicle options that never existed before including on-demand four-wheel drive, higher gradability and stability on slopes with no turf damage. Tuff Torq's four wheel drive systems deliver unmatched innovation.

### SPECIFICATIONS

		KTM10 Front	KTM10 Rear
Rated Axle Torque	Nm(ft-lbs)	231 (171)	
Motor Displacement	cc/rev	10	
Reduction Ratio		20.52	
Weight (Dry)	kg(lbs)	13.0 (5.9)	
Max. Static Weight on Axle	kg(lbs)	260 (573)	
Axle Shaft Size	mm(inch)	25.4 (1.0)	
Max. Tire Size	mm(inch)	457 (18)	
Brake Capacity	Nm(ft-lbs)	NA	Wet-Disk 388 (286)
Tow Valve	MPa(bar)	Yes	
Oil Capacity	L	2.0	
Oil		SAE 10W-30 Class CD	

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