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# We Manufacture

### Model 778



### Eaton Hydrostatic Transaxles

Transaxles for the ZTR (Zero Turn Radius) type vehicles

Eaton Models 778 use the time proven radial ball piston design for both pumps and motors. The 778 is an assembly with one pump and one motor. Two assemblies, are required on each vehicle.

### Eaton Ball Piston Design

The simple radial ball piston design provides high efficiency and long life. It is environment and temperature tolerant. This means that the transaxle is resistant to damage.

### Eaton Transaxles

Eaton hydrostatic transaxles have integral pump, motor and axle housing with planetary gears using state-of-the-art materials, to provide a strong, long lasting, compact drive package.

### These Transaxles Provide:

• Smooth Performance — Infinitely adjustable control, delivering smooth operation in both forward and reverse.

• Easy Operation — One control provides both forward and reverse, plus speed. No clutch, no synchronizer, no shifting.

• Hydrostatic Dynamic Braking — In all kinds of weather, all kinds of terrain, Eaton hydros provide dynamic braking in either forward or reverse.

• Quiet Operation — Equipped with special pistons to reduce noise and vibration no matter how tough the job.

• Trouble Free Performance — A proven, tested design ensures years of reliable operation with little or no maintenance.

· Straight Axle Shaft

### Transaxles Also Feature:

• Environmentally protected wet type parking / emergency brake, which can be used for full emergency stops, in addition to the dynamic braking capability of the hydrostatic transmission.

• Vertical input shaft which allows use with today's popular vertical shaft engine.

• 1 inch diameter axle shaft supported with ball bearings provides high axle loading capability.

• Installation mounting points for axle, torsional load, and linkage.



### Hydrostatic Transaxles



This compact package includes one radial ball piston pump and one radial ball piston motor, with a set of double planetary gear reduction. One piece construction forms a strong frame member for the vehicle. It has a single input control.

Base Unit Description:

Tapered Shaft Product Number 778-001 Long Axle 778-012 Short Axle

Includes 16:1 final drive ratio, CW input shaft rotation, vertical input orientation, environmentally protected wet type parking brake, barb fittings for external expansion tank (see table below), 1 inch dia. output shaft tapered and push (dump) valve.

5/8 inch barb fitting 778-001 — 45° fitting\* 778-012 — Straight fitting\*

\*Other fittings or attached Expansion tank available.



#### **Combined Operating Specifications**

Horsepower, Input - Kw [HP] (per side) 2,3 [3] Speed - Input

– Output Axle Torque — Nm [lb-in] (per side) (26:1 Final Drive w/16:1 Gears)

Max. Weight Over Axle - kg [lb] Max. Operating Temp. — °C [°F] Max. Case Pressure —Bar [PSI]

#### Fluid Capacities

Transaxle Case Recommended Fluids

#### **Oil Filter**

#### **Control Specifications**

(@ 113 Nm [1000 in-lb] Axle Torque and Full Stroke)

Control Shaft Rotation Max. Forward

Reverse

the output shaft (axle), forward motion of the lever yields forward motion of the vehicle (Standard Configuration)

#### Brake

Axle Braking Torque

#### Options

217 [1920] Continuous 304 [2687] Intermittent 390 [3455] Peak 181 [400] (per side) 82° C [180° F] ,8 [12] Intermittent ,5 [7] Continuous 700 mL [23.7 oz] (each)

3200 RPM Max.

0-121 RPM

(See Eaton Bulletin No. 3-401) factory filled with premium hydraulic Fluid

Internal

9 [80]

19°±2° 15' 19°±2° 15'

Parking/Emergency

204 Nm [150 lb-ft] @ 3,9 Nm [2.9 lb-ft] brake lever input

Brake Included

Note: With (customer supplied) control lever mounted parallel with

Integrated Reservoir Input Rotation Control Shaft Rotation 23:1 Gear Ratio 45° 5/8 inch Fitting 90° 5/8 inch Fitting Fan and Pulley

Net Weight

12 kg [26 lbs] (each)



### Models 778 (Long) Dimension Data



### Models 778 (Short) Dimension Data













Square

Square





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