

ROTOR SYSTEM

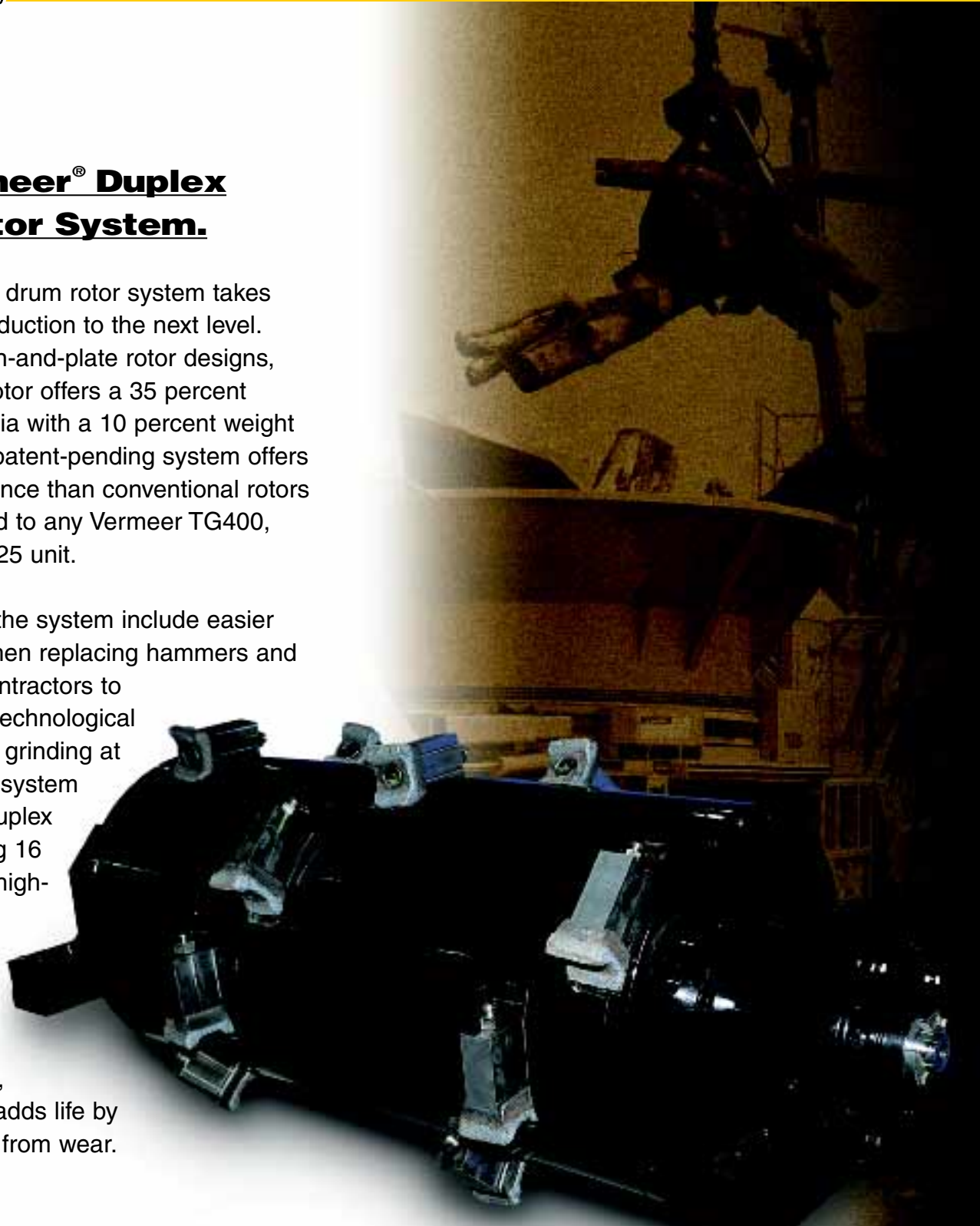


DUPLEX DRUM

The Vermeer® Duplex Drum Rotor System.

The new duplex drum rotor system takes tub grinding production to the next level. Compared to pin-and-plate rotor designs, the new drum rotor offers a 35 percent increase in inertia with a 10 percent weight reduction. This patent-pending system offers easier maintenance than conventional rotors and can be fitted to any Vermeer TG400, TG400A or TG525 unit.

Key benefits of the system include easier maintenance when replacing hammers and the ability for contractors to have the latest technological advances in tub grinding at a low cost. This system features eight duplex hammers cutting 16 radial paths for higher production. Cost-efficient, the duplex hammers reverse for double the life span, while the drum adds life by protecting them from wear.



Duplex Drum Rotor System Specifications

Drum

Outside diameter: 22.5" (57.2 cm)
Length: 46" (117 cm)
Skin thickness: 1.75" (4.4 cm)
Hammer pockets: 8
Hammer swing-tip diameter: 29" (74 cm)
Drum end caps: Replaceable
Stub-shaft diameter: 4.33" (11.0 cm) at bearing;
4.25" (10.8 cm) at coupler
Bearing style: Spherical roller
Weight: 2900 lbs. (1315 kg) (w/ wide cutter blocks;
less bearings and coupler)

Hammers

Length: 27.3" (69.3 cm)
Thickness: 2" (5 cm)
Width: 4" (10 cm)
Weight: 67 lbs. (30 kg)
Material: 4140 steel

Cutter Blocks

Reversible: Yes
Saddle block: Yes
Carbide impregnated: Yes
Options:

Wide version

Width: 2.75" (7.0 cm)
Number of retaining bolts per block: 1
Bolt diameter: .875" (2.2 cm)

Narrow version

Width: 1.75" (4.4 cm)
Number of retaining bolts per block: 2
Bolt diameter: .625" (1.6 cm)

Safety Retaining Pin

Diameter: 2" (5 cm)
Slide hammer tool set: Yes (for easy pin removal)



The duplex drum is balance-friendly due to all parts being symmetrical. Each hammer passes through the center of the drum, keeping the rotor assembly in balance whenever a hammer is replaced.



This system offers a center pin as a secondary retention system. Time to change out hammers is typically reduced by up to 90 percent (compared to conventional systems). Once installed at both ends of the duplex hammer, the cutter blocks are the primary retention system that holds the hammer in place. You can replace any duplex hammer in minutes without removing other hammers.



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