



PRECISION **R**OTATING **E**QUIPMENT

CUSTOM EQUIPMENT FOR THE WATER AND WASTEWATER TREATMENT INDUSTRY

Shaft and Cage Direct Drives





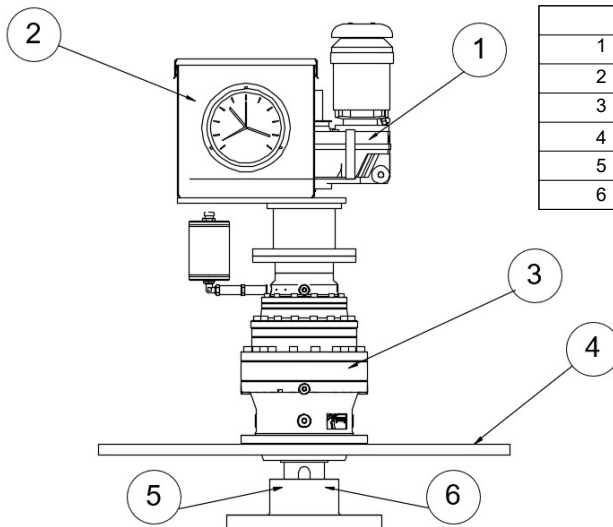
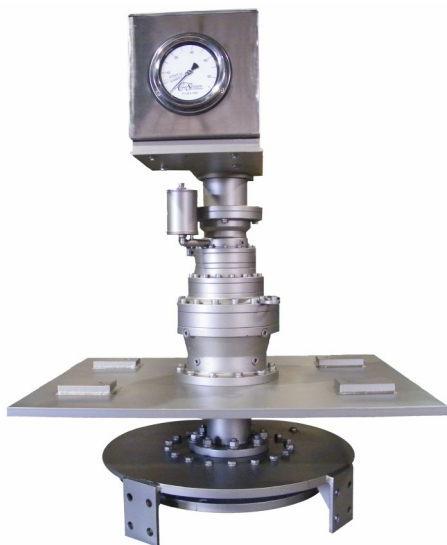
PRECISION ROTATING EQUIPMENT

Shaft and Cage Direct Drives

For light or heavy duty mixing applications or small (< 25 ft dia), light duty clarifiers, direct drives can offer a cost-effective alternative. PRE's direct drives use the same robust upper reducer as their precision main gear/bearing drives and include the same direct torque measurement which is displayed on the easy-to-read torque dial. An optional 4 - 20 mA signal can be specified which may be sent to the control room for remote monitoring. This provides an extra level of instrumentation and feedback which is not normally included with standard mixer drives.

PRE manufactures direct drives in both bridge mounted shaft units and column mounted cage units. This provides great flexibility in the design of mixers and rake mechanisms. In addition, these units may also be powered by hydraulic power units.

The simple but sturdy design of these direct drives provide excellent performance and low maintenance. This allows PRE to custom design their drives and other components to meet your specific application.



BILL OF MATERIALS	
1	TOP STACK ASSEMBLY
2	TORQUE BOX
3	SECONDARY REDUCER
4	BASEPLATE
5	SHAFT COUPLING
6	CAGE COUPLING - OPTION

FEATURES

- ◆ Hydraulic torque control, measured by the reaction of the rotation of the upper gear housing, offers a more accurate measurement of torque, along with eliminating the use of worm gears or mechanical overload devices, which can both seize up over time.
- ◆ Planetary and Helical speed reducers allow for high efficiency designs, which in turn can reduce power consumption, thus saving the plant money in electricity costs.
- ◆ Direct coupled components eliminate the use of chains and sprockets, which makes maintenance of your drive unit simpler.
- ◆ Available On-site, Turnkey Inspection, Repair, and Replacement Services. Standard components save time and money.



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Treatment Solutions
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