

Precision Rotating Equipment

CUSTOM EQUIPMENT FOR THE WATER AND WASTEWATER TREATMENT INDUSTRY

Bridge Mounted Shaft Drives





Bridge Mounted Shaft Drives



FEATURES

- Precision main gears and bearings allow for a more robust drive unit as opposed to cast iron strip liner drives, which can have inclusions that will weaken the gearing and housing. Design life for PRE Drives is a calculated L10 life in excess of 100 years as the standard.
- 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.
- ◆ Elimination of the use of a lower pinion bearing, which is a common failure point in competitors' drive units.
- ◆ Drive units can be provided with torques in excess of 1 million footpounds of continuous torque.
- ◆ Available On-site, Turnkey Inspection, Repair, and Replacement Services. Standard components save time and money.

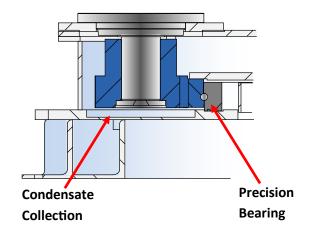


Water & Wastewater
Treatment Solutions
Municipal & Industrial



DRIVE DESCRIPTION

- ♦ High torque / low speed, direct coupled gear drive.
- ♦ Totally encased with oil bath.
- ♦ Integrated Precision Bearing / Gear
- ♦ The Drive mounts to the access bridge.
- ◆ Design suitable for clarifiers or thickeners in municipal, industrial, power, pulp and paper, mining, others.
- Designed for a wide range of torque values and tank sizes.



No Lower Bearing Required

Moment Arm is all but eliminated plus the Reducer has a 1.25 service factor to handle radical loads.

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TORQUE CAPACITY								
GEAR DIA.	MODEL	CONTIN	UOUS*	DUTY RATED**				
		Ft Lbs N-m		Ft Lbs	N-m			
25 SHAFT	S25-A	6,000	8,200	18,000	24,600			
	S25-B	8,500	11,600	21,250	29,380			
	S25-C	12,000	16,400	30,000	41,000			
	S25-D	16,000	21,865	40,000	54,665			
43 SHAFT	S43-A	17,500	23,900	43,750	59,790			
	S43-B	25,500	34,850	63,750	87,125			
	S43-C	35,000	47,500	87,500	119,580			
	S43-D	42,500	58,080	106,250	145,200			
	S43-E	51,000	69,000	127,500	174,250			
54 SHAFT	S54-A	60,000	82,000	150,000	205,000			
	S54-B	70,000	95,000	175,000	239,665			
	S54-C	87,000	118,900	217,500	297,250			
C1 CHAFT	CC1 A	100,000	120.000	250,000	220,000			
61 SHAFT	S61-A	100,000	136,665	250,000	339,000			
	S61-B	120,000	154,000	300,000	410,000			
	S61-C	140,000	191,330	350,000	478,330			
	S61-D	160,000	218,665	400,000	546,665			
61 DUAL PINION	S2P61-A	200,000	273,330	500,000	678,000			
	S2P61-B	320,000	437,330	800,000	1,093,330			
80 DUAL PINION	S2P80-A	500,000	678,000	1,250,000	1,708,330			
80 (4) PINION	S4P80-B	1,000,000	1,366,665	2,500,000	3,416,665			

^{*} Continuous: Torque at which the drive main gear will have a life in excess of 20 years when operating at rated speeds.

Note: Consistently operating at this torque (or any percentage above Continuous torque) will exponentially reduce the lifetime of drive components.



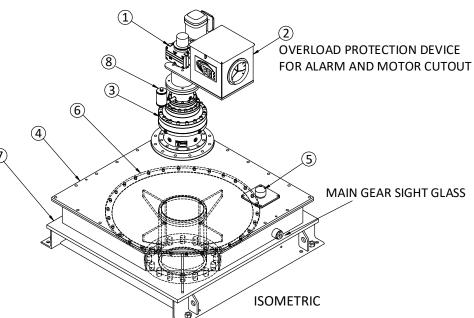


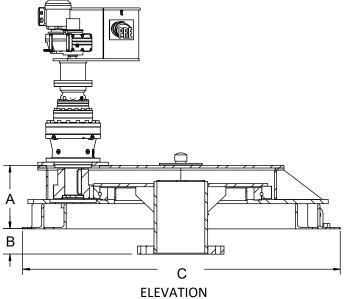
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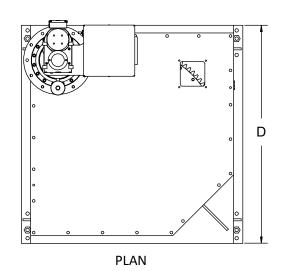
^{**}Duty Rated: The maximum allowable, momentary torque to prevent component failure.

PRE Column Mounted / Cage Drives

PART DESCRIPTION				
ITEM NO.	PART NAME			
1	PRIMARY REDUCER			
2	TORQUE BOX			
3	SECONDARY REDUCER			
4	COVER			
5	MAIN GEAR OIL FILL CAP			
6	SHAFT HUB			
7	DRIVE BASE			
8	OIL EXPANSION / FILL			







Model	Α		В		С		D		Weight	
	Inches	mm	Inches	mm	Inches	mm	Inches	mm	lbs	kg
S25	12.5	318	5.3	134	36	914	32.5	826	1,500	680
S43	15	381	6	152	46	1,168	53.25	1,352	2,600	1,179
S54	17	432	8	203	60	1,524	58	1,473	4,500	2,042
S61	19	483	11	279	78	1,981	66	1,676	7,400	3,357
						,				
S80	22	559	4	101	90	2,286	80	2,032	10,000	4,536



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