PAHARPUR

Your Full-Service
Cooling Technologies Company
www.paharpur.com

DRIVE SHAFT
SERIES 301

POWER TRANSMISSION UPTO
180.4 kW

FULLY-FLOATING,
ROBUST DRIVE SHAFTS

PAHARPUR **LEADS**

Paharpur's dynamically balanced, fully-floating driveshafts deliver lossless performance in the turbulent conditions inside your cooling tower.

PAHARPUR
SERIES 301

Paharpur delivers only perfectly balanced driveshafts – to ensure maximum stability and reliability during operation. With our fully-floating assemblies, there is no friction-loss and the shaft transmits torque to the gear reducer, greatly improving operating economy.

Perfect balancing is crucial to preserve the integrity of the drive train

Fully-floating driveshafts have zero friction loss:
Paharpur's driveshafts are fully-floating i.e., they are not supported by bearings. This type of assembly has zero friction-loss and when properly balanced, it can greatly improve operating economy.

Perfect balancing ensures steady operation:
When it comes to drive shafts, the difference between acceptable and exceptional performance is perfection in balancing. Paharpur's drive shafts are dynamically balanced to perfection at our facilities before shipping – this process involves careful and repetitive testing to attain perfect weight distribution across the axis of rotation.

Improperly balanced rotating equipment will cause damage to the integrity of the drive train and might even result in abrupt breakdown of the system. Imperfect balancing is also often responsible for wear and tear of bushes, this detail is often overlooked by those who might not be as thorough with their manufacturing.

The right material of construction:
The first step to ensuring a high quality output is selecting the right material of construction. Paharpur's driveshafts are available in permutations of cast-iron, HDG steel, SS304 and SS316.

Drive-train vs Direct-drive systems:
Paharpur provides gear-driven systems for fan operation. Such a system has multiple advantages; firstly, it allows the motor to be placed outside the fan cylinder, i.e. outside the moist air stream, this protects the motor from damage. Secondly, using a gear-reducer gives you greater control over fan speed, as opposed to a direct-drive system which must rely on the motor for speed control.

Corrosion resistance:
Driveshafts operate in a moist and turbulent atmosphere. This demands robust and corrosion resistant construction. MOC for Paharpur drive shafts are selected for their high corrosion resistant and robust properties, for long and reliable service lives.

Rely on Paharpur's in-depth and methodical approach to cooling tower design and manufacturing for the most reliable process cooling equipment.

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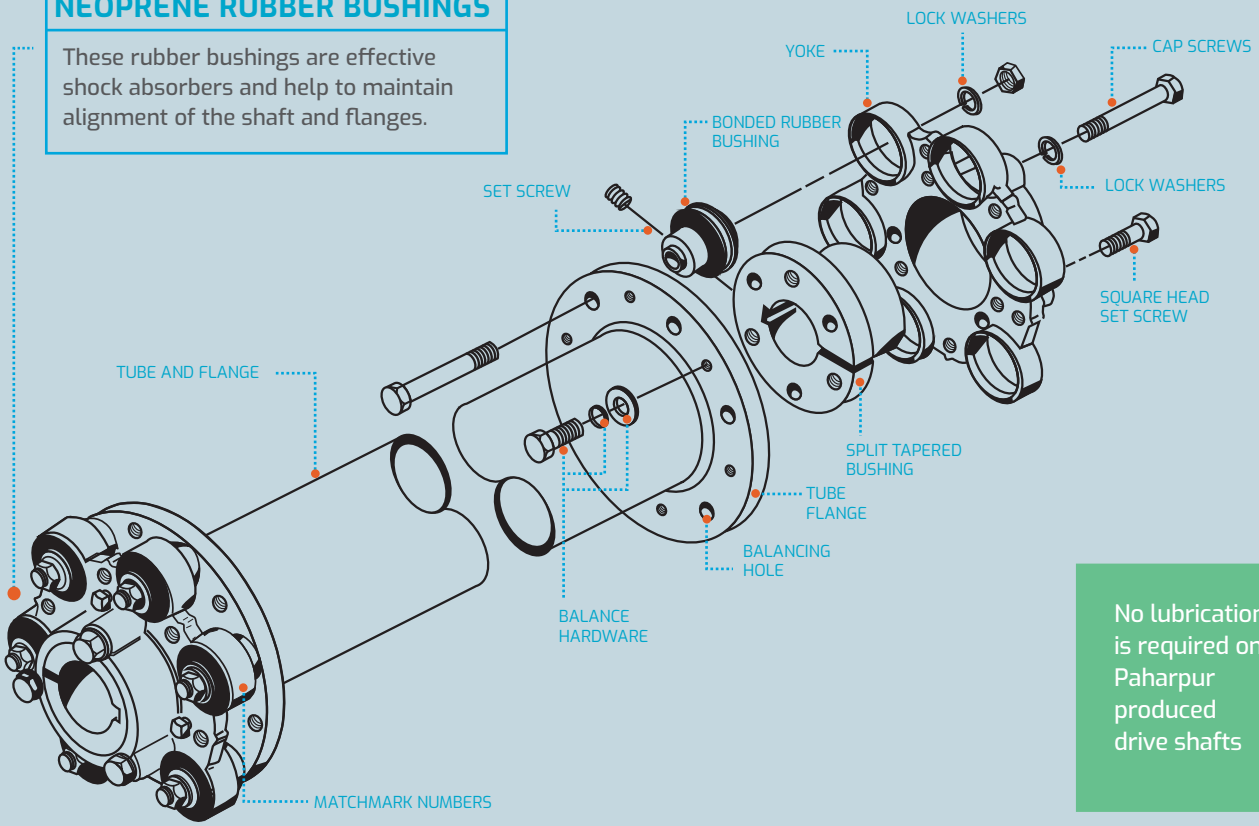
Materials of Construction

CLASS	TUBE	YOKE & BUSHINGS
Class I	HDG	HDG
Class II	SS-304	Cast Iron
Class III	SS-304	SS-304
Class IV	SS-316	SS-316

NEOPRENE RUBBER BUSHINGS

These rubber bushings are effective shock absorbers and help to maintain alignment of the shaft and flanges.



No lubrication is required on Paharpur produced drive shafts

	APPROX WT. (kg.)	MAXIMUM GEAR END BORE (mm)	MAXIMUM MOTOR END BORE (mm)	MAXIMUM OVERALL LENGTH (mm)	MAX. MOTOR kW @ 1450 RPM	ENGAGEMENT (mm)	TUBE DIAMETER (mm)
CLASS I	125	67	100	3815	180.4	95	150 NB*
CLASS II	125	67	100	3780	180.4	95	150 NB*
CLASS III	125	67	95	3815	180.4	95	150 NB*
CLASS IV	125	67	90	3780	180.4	95	150 NB*

*NB – Nominal Bore

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ISO 14001:2015 &
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