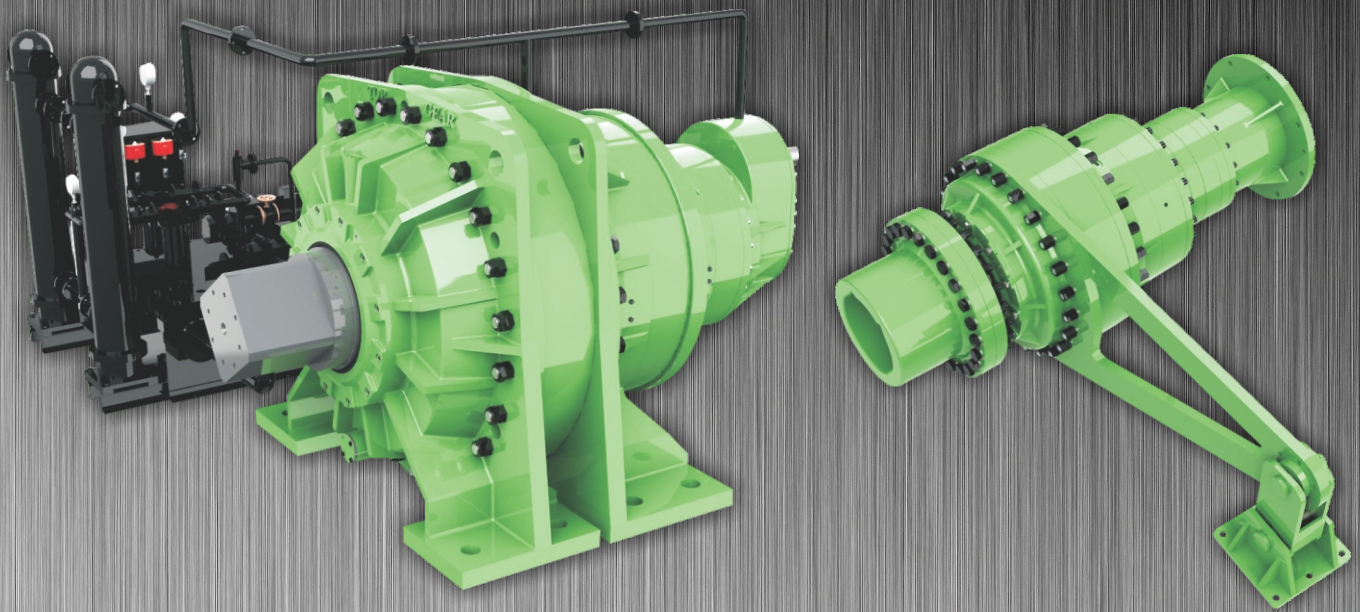


# PLANETARY MILL DRIVE

Thoughtfully Design to your Business Needs

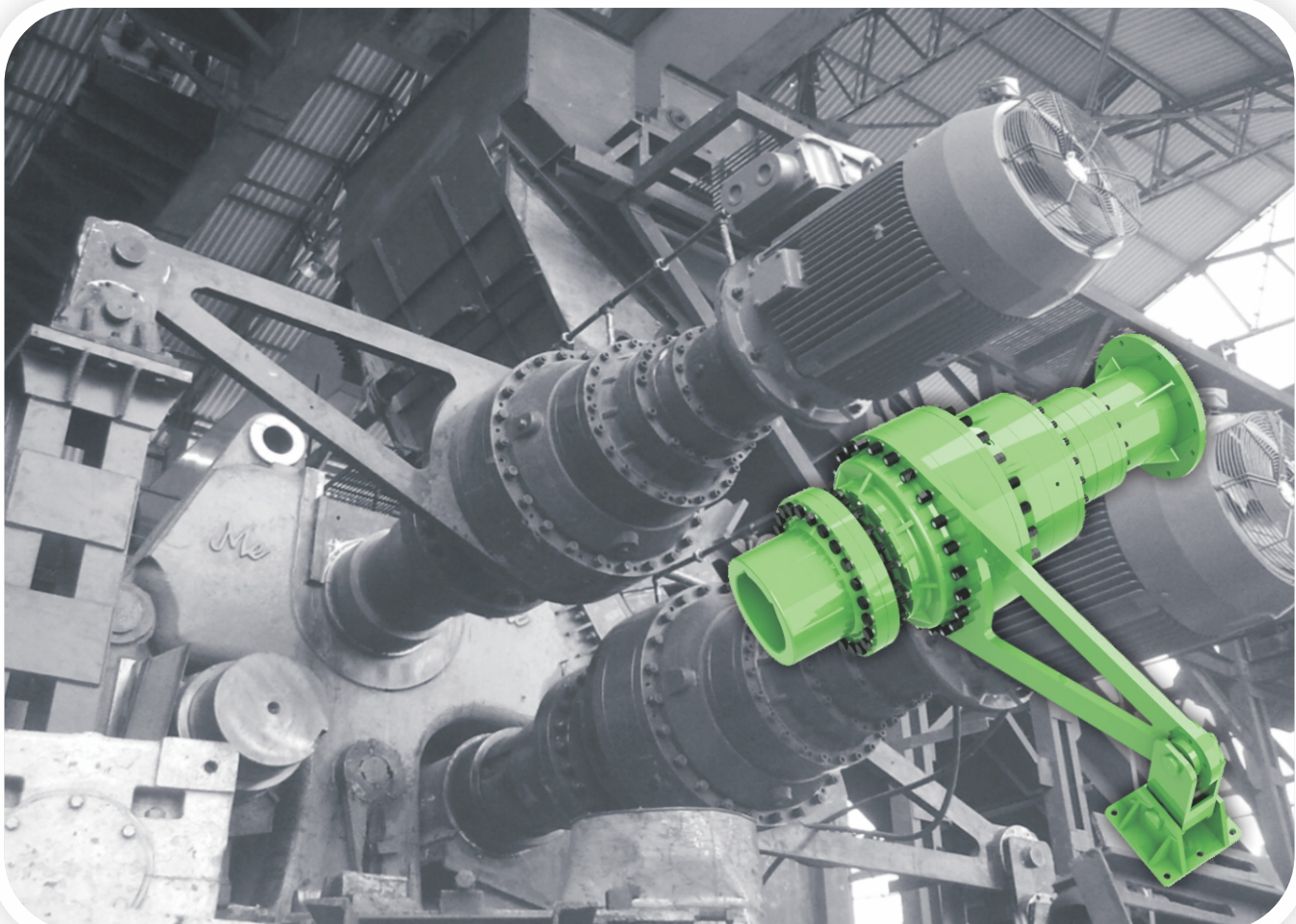
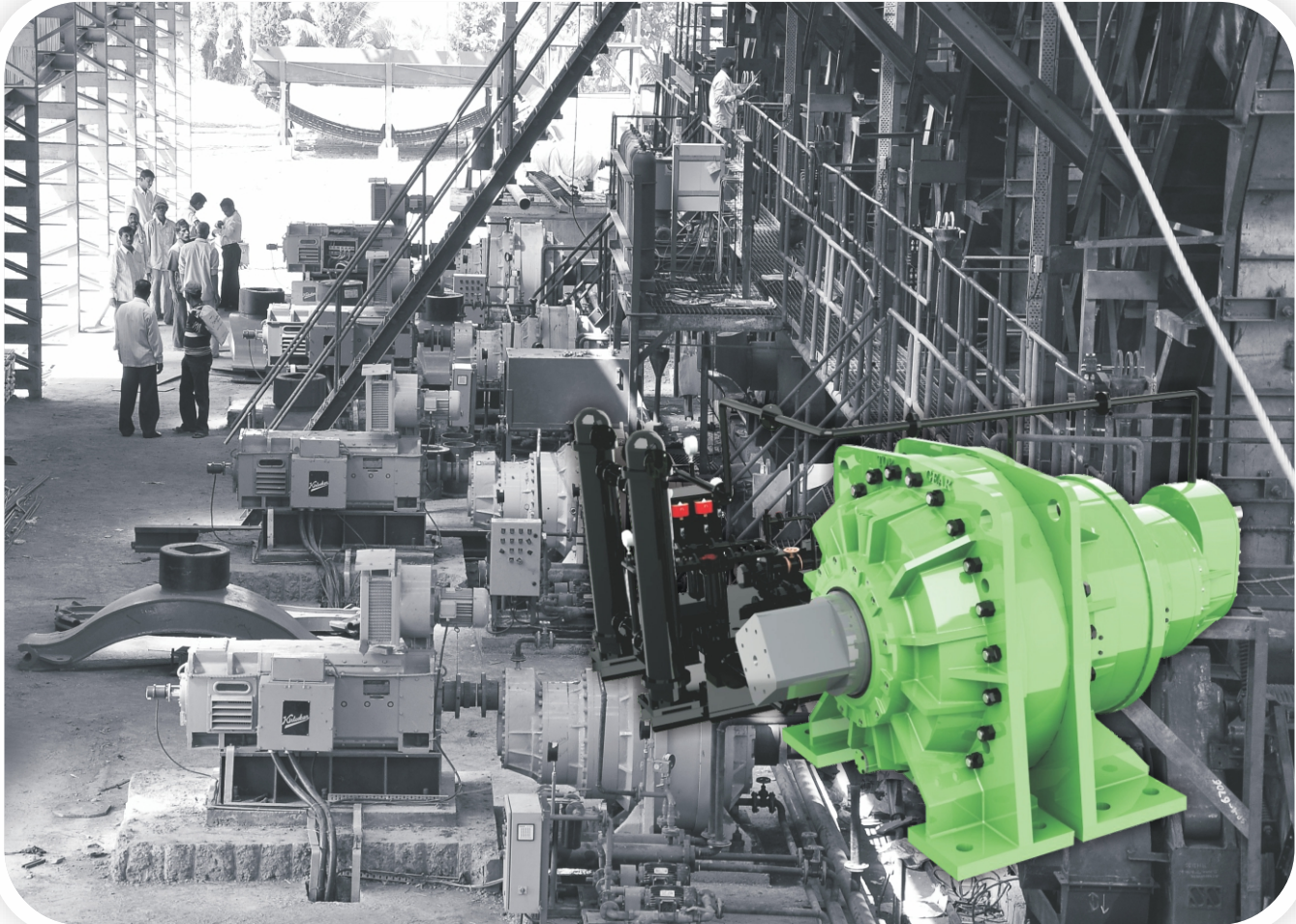


## MD & SMD Series



**TOP GEAR**  
TRANSMISSIONS

[www.topgeartransmission.com](http://www.topgeartransmission.com)



We have pleasure to introduce the state of art technology for sugar cane industries.

The result of constant research & development efforts by team of TOP GEAR has offered the range of heavy duty planetary gear boxes as MD & SMD Series. These new drives for higher power capacity which reduces down time & installation time, labour cost, saves power & offers environment friendly, low cost, efficient and maintenance free solutions to sugar industries

These gear boxes are offered in two types.

One type is direct mounting to individual rollers which has got flanged coupling at output of gear box, mounted on roller with two tangential key ways and the torque is reacted by torque arm. The motors generally used here are flange mounting type & these are used 4 Nos. in each mill. Mill top roller has got two drives at the each side of the mill & feed as well as discharge roller has got drive either side. The lubrication arrangement offered as centralized lubrication system for all the four gear boxes which has got double pump & double filter with heat exchanger.

Another type of gear box offered is foot mounted in construction has got generally square end shaft and foot mounting motor. Wire rope coupling is recommended to connect the top roller. These gear boxes are also supplied with forced lubrication system, double pump, double filter with heat exchanger.

## CONSTRUCTION

The construction of the planetary mill drive is very rigid in type and the final stage has got four or five nos. of planets made up of nickel chrome & moly alloy steel undergoes case carburizing, hardening & the roller bearing are used at out put shaft as well as planet gear.

The shafts are made up of high carbon chrome molybdenum alloy steel & internal gears of high carbon chrome moly. alloy steel with hardening, tempering process.

All the gears used are of ground finish to DIN 7 accuracy ensures efficient transmission & the body is made up of cast steel.

## FEATURES

- Eliminates open gearing & reduces yearly maintenance of mill gearing.
- Erection & commissioning time & cost is very less.
- Foundation cost is very less.
- High power density due to optimum utilisation of space by means of equal power distribution among up to 4 planetary wheels per gear box.
- Higher efficiency.
- Adaptable to extremely difficult space requirements due to manifold combination options with helical gear to take care of higher speeds.
- Positionally independent with appropriate oil lubrication with filtration & cooling.
- Low moment of inertia for highly dynamic drives.
- Smooth running due to the appropriate selection of the toothing data, exact production and low relative speeds.
- Calculated fatigue-free toothing when subjected to the maximum calculated torques. The roller bearing ensures longer life.

## TECHNICAL SPECIFICATIONS

Model	Rated torque Nominal Power at different Speed @ Service factor 2.5					Input	Mounting	Lubrication
	In NM	4 RPM	4.5 RPM	5 RPM	6 RPM			
<b>Shaft Mounted Series</b>								
SMD 725	300000	55 Kw	60 Kw	70 Kw	80 Kw	Hollow, Flange	Shaft	Forced
SMD 850	500000	85 Kw	100 Kw	110 Kw	130 Kw	Hollow, Flange	Shaft	Forced
SMD 950	750000	130 Kw	150 Kw	165 Kw	200 Kw	Hollow, Flange	Shaft	Forced
SMD 1100	1000000	175 Kw	200 Kw	225 Kw	260 Kw	Hollow, Flange	Shaft	Forced
SMD 1250	1500000	260 Kw	300 Kw	340 Kw	400 Kw	Hollow, Flange	Shaft	Forced
SMD 1350	2000000	340 Kw	375 Kw	420 Kw	500 Kw	Hollow, Flange	Shaft	Forced
<b>Foot Mounted Series</b>								
MD 725	300000	55 Kw	60 Kw	70 Kw	80 Kw	Solid Shaft	Foot	Forced
MD 850	500000	85 Kw	100 Kw	110 Kw	130 Kw	Solid Shaft	Foot	Forced
MD 950	750000	130 Kw	150 Kw	165 Kw	200 Kw	Solid Shaft	Foot	Forced
MD 1100	1000000	175 Kw	200 Kw	225 Kw	260 Kw	Solid Shaft	Foot	Forced
MD 1250	1500000	260 Kw	300 Kw	340 Kw	400 Kw	Solid Shaft	Foot	Forced
MD 1350	2000000	340 Kw	375 Kw	420 Kw	500 Kw	Solid Shaft	Foot	Forced
MD 1450	2500000	420 Kw	475 Kw	530 Kw	640 Kw	Solid Shaft	Foot	Forced
MD 1650	3000000	500 Kw	575 Kw	640 Kw	775 Kw	Solid Shaft	Foot	Forced
MD 1850	3500000	600 Kw	675 Kw	750 Kw	900 Kw	Solid Shaft	Foot	Forced
MD 2000	4000000	675 Kw	775 Kw	850 Kw	1000 Kw	Solid Shaft	Foot	Forced



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