

## ENERGY EFFICIENT GEARED DRIVE FOR CANE CARRIER

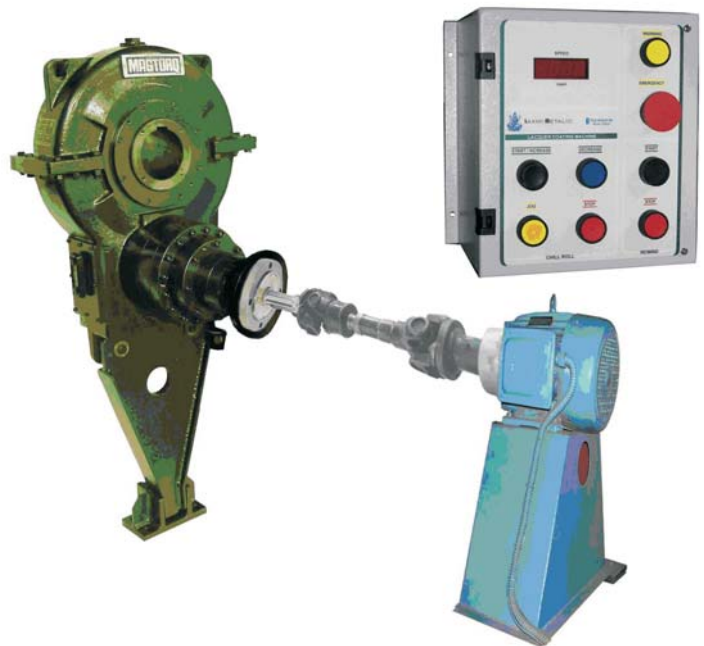
With the Co-generation becoming an integral part of every sugar mill, the use of energy efficient equipments is prominently placed, in the agenda of every engineering equipment, used in Sugar Industry. Dynaspede took a lead in developing the MAGTORQ energy efficient geared drive system for Sugar Crystallisers in the year 2000 and today, MAGTORQ Crystalliser drives are integral part of specification for any Crystalliser drives, Pug Mills, Mixers etc. Encouraged with response from Sugar Industry for MAGTORQ Crystalliser drives, DYNASPEDE has brought out new series of MAGTORQ gear units for Cane Carrier application. Combined with high efficiency and easy maintenance aspect, MAGTORQ Cane Carrier drives offered along with Speed Control Unit specially programmed for Cane Carrier application.

MAGTORQ Cane Carrier drive is a Heli-Planetary high efficient shaft mounted type geared drive system.

The hollow shaft of the gear unit is locked rigidly with the Cane Carrier shaft with the Taper key.

Totally enclosed construction ensures long life and easy maintenance

As there is only one cardan shaft and coupling between the motor and the gear unit, the problems related with the mis-alignment are totally eliminated



### Speed Control Unit

Control panel along with a operator controls is offered for speed control of Cane carrier. The Control panel consists, software controlled digital Variable Frequency drive specially programmed for cane carrier application. The rate of acceleration can be adjusted as per the application requirement. Torque limiting arrangement will prevent any damage to the conveyor and driving system during overload /jamming conditions.

The operator control station consists FORWARD/REVERSE selector switch and START and STOP Push buttons. A potentiometer is provided for speed variation. A analogue speed indicator is provided. The operator control can be located near to the Cane carrier.



# HIGH EFFICIENCY GEAR UNITS & GEARED MOTORS FOR OTHER APPLICATION IN SUGAR INDUSTRY

**CRYSTALLISER DRIVES**.....Shaft mounted type hollow shaft Heli-Planetary geared motors offer substantial power saving in compare with conventional worm reducer system. Totally enclosed gear unit has long life and easy to maintain. Today we have installation base of more than 450 units in various sugar mill around the globe. Geared units are configured to suite Vertical and Horizontal Crystallisers. No special arrangement in the gear unit is needed for water cooled crystallisers.

**PUG MIL**.....Totally enclosed shaft mounted type Heli-Planetary geared motors with torque arm are offered for pug mill application. Configured similar to Crystalliser drives, Pug Mill geared motors are easy to install and maintain.

**MIXERS**.....Foot mounted Planetary geared motors are offered with free output shaft. The geared motor can be coupled to the mixer shaft with a flexible coupling or a cardan shaft

**CLARIFIERS**.....Clarifiers are driven extremely at low speeds and MAGTORQ HeliPlanetary Shaft mounted geared motors are ideal for this application. Totally enclosed constructions ensures long life and easy to maintain. Suitable for mud and ash clarifiers in Sugar Industry. Geared motors are offered with mechanical overload sensing and tripping arrangement as optional.accessory.

**TRAVELLING GRATE**.....MAGTORQ Heli Planetary totally enclosed type shaft mounted geared motors are ideal for driving Boiler Traveling Grate application at very low speeds. Unlike a jerky motion in the conventional hydraulic drives, the MAGTORQ geared motor ensures smooth running of the grate. As no power packs and high pressure tubing is involved, they are easy for maintenance and operation. A Strain gauge based Load cell system can be incorporated in the torque arm with electronic control unit for sensing and tripping under overload and jamming condition. Geared units are offered with inverter duty motor along with Digital Speed control unit.

**MECHANICAL CIRCUILATOR**.....Heavy duty application which requires a careful design of gear unit with better service factor. A specially designed bevel planetary gear unit is offered with output shaft pointing vertically downward and horizontal input shaft. A standard foot mounted motor can be coupled with a flexible coupling to the gear unit.

**RAKE CARRIER**.....Mounted on a top of the tall angle steel structure, relative vibrations between the driven shaft and drive platform becomes very critical. Being MAGTORQ Hollow shaft gear unit specially designed for RAKE Carrier is shaft mounted type, totally eliminates this problem. A standard foot mounted motor can be coupled to the input shaft of the gear unit with Cardan shaft.

*For details and assistance, contact:*



**Dynaspede**

136-A, Sipcot, Hosur 635 126 (T N) INDIA

Tel: 91-4344-276915 (5 Lines)

Fax: 91-4344-276841

e-mail : mail@dynaspede.com

*For more on Automation components & systems,  
log on to*

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

**AN ISO 9001 COMPANY**

• Bangalore • Baroda • Calcutta • Chennai • Delhi • Lucknow • Mumbai • Secunderabad