

## Chelsea P.T.O.s for Caterpillar Transmissions

When Caterpillar needed information and advice on power take-off mounting design they came to Chelsea for our expertise as a world leader in power transfer technology. With the commercial launch of the new Caterpillar CX31 transmission, Chelsea is pleased to announce the release of seven Power Take-Off Series for the CX31 transmission.

For the Side Mounts the 10 - Bolt 267/867 Series Constant Mesh, 277/278 Series Powershift, and the 859 Series Heavy Duty Powershift have been designed for the Caterpillar transmissions. For Rear Mount applications an all new Constant Drive and Powershift Direct Drive power take-offs have been designed to meet the tough application demands of the Caterpillar transmissions.

### SIDE MOUNTS - Orders can be taken now

Several design changes were made to the current 10 - Bolt power take-offs listed above in order to work on the Caterpillar transmission.

- New Valve for the Powershift units ("**KV**" Input) - This new pressure regulating solenoid valve is required due to the higher transmission hydraulic pressures ( up to 500 psi spikes)
- Removal of the external pressure lube tube from the 277 & 859 Series - Now uses the same proven design of the 278 Series internal pressure lube. This also has an added benefit of making installation on the transmission easier.
- Addition of tabbed washers on **both** sides of the input gear bearings - This now improves an already rugged P.T.O. design to meet customer needs.

**NOTE:** The above design changes must be used on the CX31 transmission. Current P.T.O.s on your shelf can not be converted in the field to mount on the CX31 transmission.

The new input gear designator for the Caterpillar transmission (CX31) is "KV", see model configuration below. All standard options for the 267, 277, 278, 859 and 867 Series are available for this transmission.

### REAR MOUNTS - Constant Drive - Orders can be taken on or after July 12, 2006

An eight bolt round mounting pad is located at the lower right rear of the transmission. This unique mounting option for the CX31 automatic transmission challenged Chelsea engineers to design a special P.T.O. that could support the 800 Lbs-ft transmission torque requirements.

**NOTE:** The transmission rear mount shaft is a Caterpillar option and must be ordered with the transmission.

The new constant drive **CAT-D** is a totally new design from Chelsea and offers up to 800 Lbs-ft of torque and has an output speed of 125% of engine. The unique design offers the best mounting and clearance of any P.T.O. offered for the Rear Mount option.

- Six Output Options Available - Direct Mount to the transmission mounting pad.
- Wet Spline Output Option Available - Increases spline life by a factor of 10

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**REAR MOUNTS - Powershift Direct Drive - Orders can be taken on or after October 1, 2006**

This all new P.T.O. design offers a unique direct drive design with Chelsea's proven clutch pack for those applications not requiring constant drive.

- Housing offers the most rear mount clearance of any power take-off offered for the CX31
- Five Output Options to choose from
- Operates at 125% of Engine
- Electric/Hydraulic Shift

Look for more information in future bulletins and on our web site.

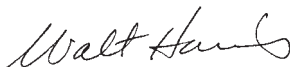
If you have questions about the New P.T.O. for Caterpillar or other technical questions, contact us at:

US: Chelsea Technical Services at 662-895-1052

Canada: Parker Hannifin Canada, Motion & Controls Division 905-693-3020

Or visit our web site at [www.parker.com/chelsea](http://www.parker.com/chelsea).

Order HY25-0074-B1/US for complete information by contacting your Chelsea Sales Manager or Dustin Eide at 662-895-1042.



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