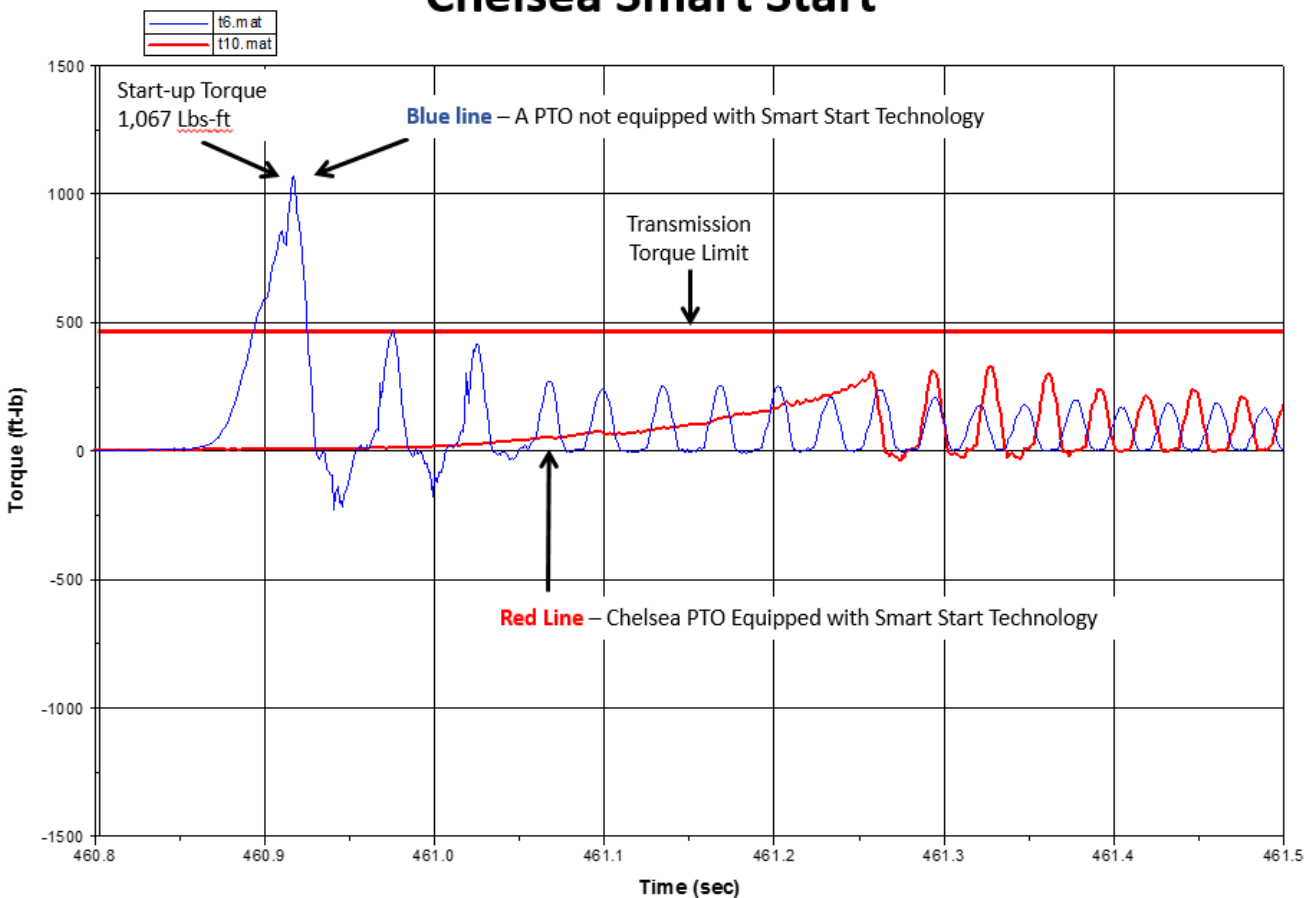


## Chelsea Smart Start for 280 Series PTOs

Parker Chelsea has once again responded to the needs of the market by developing an innovative patent pending solution for high-inertia start-up on certain applications. Effective immediately, Smart Start can be ordered as an option on the 280 Series to reduce the impact of high-torque/inertia demands for air compressor, pneumatic blower, water pump, or mechanical generator applications. For other applications, please contact Chelsea Engineering for Application Approval.

Smart Start allows the PTO to come up to speed in a safe and efficient manner without sacrificing HP. It manages the system pressure that is used to engage the PTO's clutch pack, enabling it to absorb a torque spike and provide a smooth engagement. Therefore, it helps protect the transmission, PTO, and driven equipment from the potentially damaging shock loads found on certain types of applications.

### Chelsea Smart Start



All applications are unique and it is important to consider all parameters in designing an auxiliary power system. It is the responsibility of the system designer to consider the transmission, PTO, and driven equipment requirements and limitations.

## OUTPUT OPTIONS

Smart Start is available in two output options for the 280 Series:

Output Type	Standard Output Code	Smart Start Output Code	Field Conversion Kit	Output Option Adder
1-1/4" Rd Shaft w/ 5/16" Key	XD	SD	329160-77X	\$331.64 List
1410 Companion Flange	XV	SV	329160-78X	\$549.29 List*

\* The SV Output Option comes with the 1410 Companion flange on the PTO. The Field Conversion Kit 329160-78X does not come with a new companion flange. If a replacement flange is needed, it must be ordered separately.

Field Conversion Kits will allow a standard 280 XD/XV PTO to be converted to Smart Start. The conversion kits include the following:

329160-77X XD to SD Conversion Kit		
Parts Included:		
P/N	QTY	Description
3-P-1156	1	SD Output Shaft
22-P-101	1	Bearing Cap Gasket
28-P-119	1	Oil seal - Hi Pressure
28-P-267	1	Output Shaft seal
28-P-285	2	Shaft O-ring
378447-8	4	Capscrew
379555	2	LOCKRING
379746	1	LOCKRING
378849	1	LOCKRING
22-P-112	1	Valve Cap Gasket
380069	1	LOCKRING
500007-29	1	Woodruff Key
<b>LIST PRICE - \$552.84</b>		

329160-78X XV to SV Conversion Kit		
Parts Included:		
P/N	QTY	Description
3-P-1161	1	SV Output Shaft
22-P-101	1	Bearing Cap Gasket
28-P-119	1	Oil seal - Hi Pressure
28-P-211	1	Output Shaft seal
28-P-285	2	Shaft O-ring
378447-8	4	Capscrew
379555	2	LOCKRING
379746	1	LOCKRING
378849	1	LOCKRING
22-P-112	1	Valve Cap Gasket
380069	1	LOCKRING
380076-13	1	Hardened Flat Washer
380486	1	Lock Nut
<b>LIST PRICE - \$584.03</b>		

If you have questions about this bulletin or other technical questions, contact us at:

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