

WHY INVENTORY MULTIPLE STARTER MODELS WHEN ONE **TurboTwister** WILL COVER YOU?

TurboTwister

A MODULAR, COMPACT STARTER FOR 20-150 LITER ENGINES

This is What TDI TurboTwister Users Are Saying

Application:

EMD 8-645 Diesel with Regulator at 70 psig

“....Wow, that thing is amazingly strong....”

*Pumping Station New Orleans,
Louisiana USA*

Application:

Caterpillar D3512 Diesel, Triple Screw Barge Pusher with Regulator at 40 psig

“....When can I get two more?”

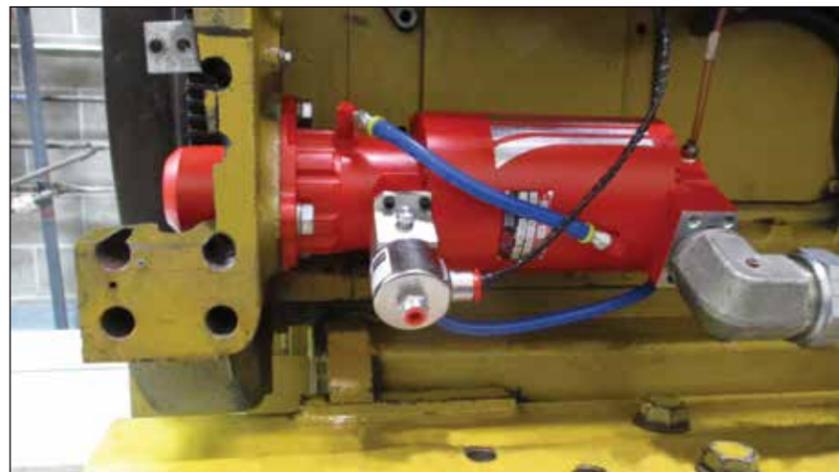
*Tug Boat Operation, New Orleans,
Louisiana USA*

Application:

Caterpillar D3516 TDI Testing Laboratory & Multiple Field Locations

“I’ve pushed the start buttons on a lot of starters. This thing is impressive.”

*Dave Rhodes,
Regional Manager, TDI*



TurboTwister mounted on Caterpillar engine with TurboFlow Relay Valve for optimized air flow



New Downward-Directed Exhaust & Screen

TDI Application Solutions

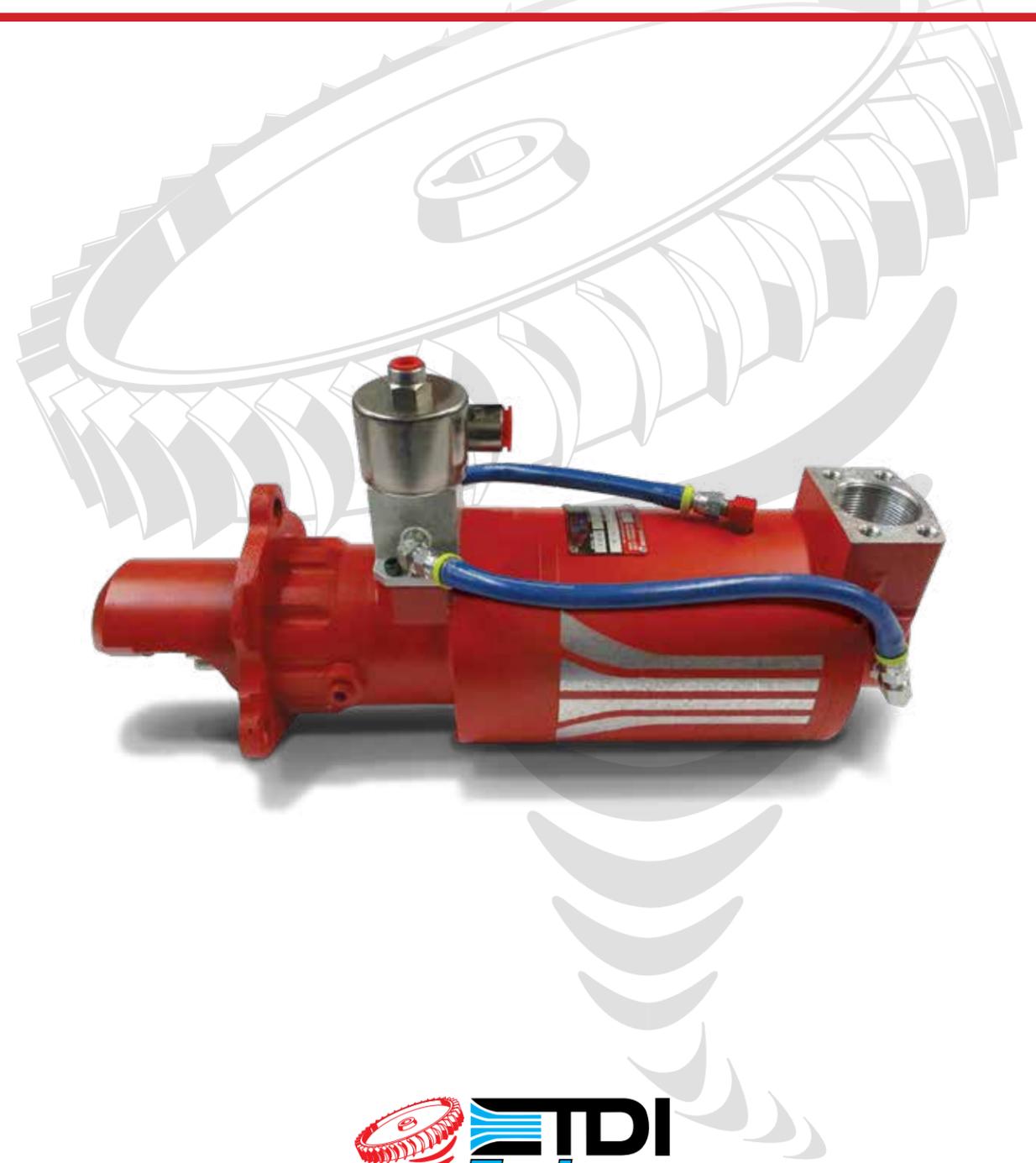
- Improve Air Efficiency of Start System
- Increased Power & Torque
- Extreme Low Temperature Starts
- Lowest Pressure Turbine Starting
- Prevent Downtime
- World's Harshest Environments
- Extreme Humidity Environments
- Small Footprint Applications
- Integrated Start System Solutions
- Eliminate Vane Starter Breakdowns



**STARTING THE MACHINES
THAT RUN YOUR BUSINESS**

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www.tdi-turbotwin.com

A MODULAR, COMPACT STARTER FOR 20-150 LITER ENGINES



Unmatched Power & Versatility

T6 & T7 TurboTwister

CUSTOMER-DRIVEN DESIGN

5 Improvement Questions

Customers asked TDI 5 tough questions for improving their air starter experience. We Listened.

1 Can you have **ONE STARTER** with full plug & play capability, and the ability to fit a wide range of applications?

YES! TurboTwister is available as a “starter-only” for retrofitting into existing systems where manual controls and bolt on equipment is already in place. It’s also available as a Plug & Play Starter with Integrated Solenoid and Relay Valve. A full GAS Compliance Version can be purchased featuring 3” NPT exhaust threading, which allows for a directional “ported” exhaust and fitment of optional silencers, spark arrestors, air diverters, or for piping away hazardous starter exhaust gasses.

Choose from 3 TurboTwister Configurations

T6 A Starter Only
T6 B Starter with Integrated Relay Valve



◀ **T6 A&B feature** a basic downward-directed exhaust & screen on the outlet.

T6 C Fully Integrated Start System



◀ **T6 C is available as an integrated Starter with integrated Relay Valve & Solenoid** for a compact start system with flow matched components.

T7 Stand Alone / Gas Compliant



◀ **The T7 unit for applications using gas as supply** – The unit is a stand-alone starter with 3” NPT threaded exhaust and is available to meet necessary regulatory compliance requirements.

2 Can you make **ONE STARTER** to cover a wider range of engine sizes?

YES! TDI’s expertise in “compact horsepower” began in 1958. Not surprisingly, the highly efficient TurboTwister packs more output power per pound than any other air starter in the industry. Period. Its wider operating range (from 45-150 psig/3.1-10.3 BAR) means it can be applied across a wider range of engine sizes (20-150 liters). In the past you would need to stock three or four different starter models to cover your engine fleet, now you will only need the TurboTwister.

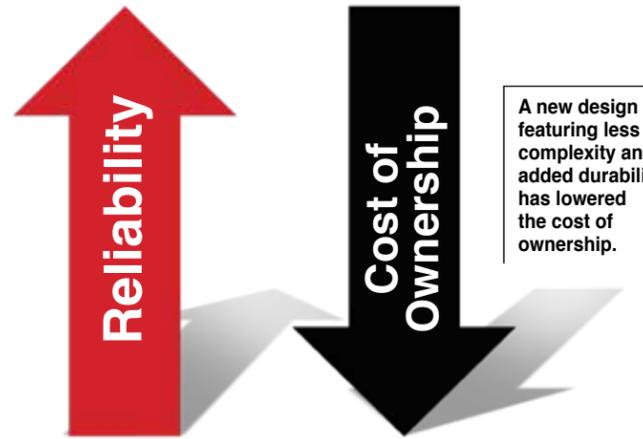


New integrated solenoid design is more tolerant to dirt, water & contamination

3 Is it possible to make the starter more durable and last longer?

YES! TurboTwister is a study in rugged simplicity. We began by using fewer parts. TDI engineered its integrated solenoid version to include a new solenoid design which is more tolerant to contamination and vibration, present in typical applications. The result is TDI’s most rugged, reliable air starter. It will be less susceptible to failure in harsh environments, thereby lasting longer, which will certainly reduce the cost of ownership.

More Reliability = Lower Cost of Ownership



Lightweight, T6-36lbs/16.3kg & T7-38lbs./17.2kg



A compact footprint, singular orientation, and plug-and-play option make installation easier than ever before

4 Can one starter model fit both simple and complex installations with environmental exhaust requirements?

YES! TurboTwister T6/T7 starters offer superior flexibility and simple modularity, making industry and regulatory compliances a snap. Where ATEX, USCG C1D2 CSA, CE, and other requirements apply, TDI delivers. The T6 is for air use and can be purchased as an integrated starter, or basic starter only. The T7 version is for natural gas or hazardous service, provide configurations from “basic” to “fully compliant.” With threaded NPT outlet and flanged inlet & exhaust connections, installation will be both easy and compliant. TurboTwister modularity gives you exactly what you need -- without paying for what you don’t need.

MODULAR CONFIGURATIONS



The modular concept of TurboTwister provides unmatched versatility for a wide range of applications

5 Can you add horsepower and torque without making it too big?

YES! TurboTwister is pound-for-pound the most powerful air starter in the industry. Through simplicity in design, the size and weight are remarkably compact for the output it delivers. It delivers more power per unit of air than even our TurboTwin design. And the flexibility to run 45-150 psig/ 3.1-10.3 BAR makes it an affordable solution for application on engines from 20 to 150 liters.