

PROJECT OVERVIEW: TDI Air Starters for Gas Transmission Site

Air Starting System - Bringing new life to older engines

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Plant maintenance needed to update an old vane starter.

With minimal assistance from GCS/TDI, a customer at a gas transmission plant installed a TDI121V starting system to replace an old vane starter.

PRIME MOVER

Ingersoll-Rand emergency gas generator Fitted with vane-type IR starter.

NEW AIR STARTING SYSTEM

TDI bolt-in T-121V TurboTwin Low Pressure Air Starter with 2" air line.

Y-strainer - Cast Iron Body, #40 Mesh, SST Screen

Air Pressure Regulator





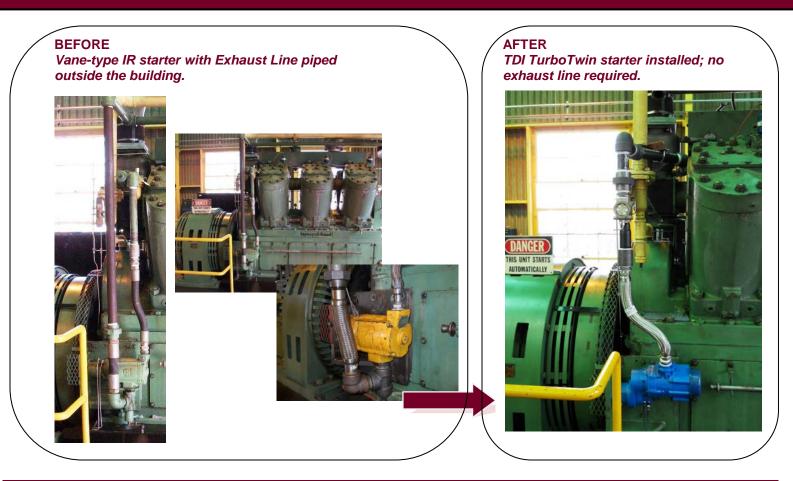
Low air consumption: The IR starter required 250 psi and often took over 30 seconds to start; the new T121V requires only 60 psi to achieve maximum starting roll speed and starts engine in less than 10 seconds.

Lightweight: Replacing a starter required two men plus a hoist. New aluminum body starter weighs only 54 lbs. and can be installed by one man without a hoist.

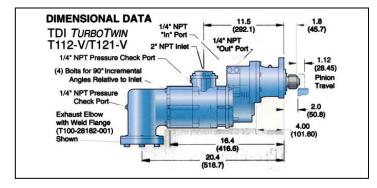
No maintenance required: The old vane starter required oil lubrication and the exhaust piped outside the building sent untreated oil mist spray into the environment. Oil Misters and exhaust piping removed; starter exhaust now is internal to building with no hazardous exhaust concerns.

High Reliability: Water or debris in compressed air lines would cause vane starters to seize. Unique TDI turbine design allows for water and debris to pass through without clogging and does NOT require Oil Mist.

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TDI TurboTwin's reliable, sealed (grease-packed) starter motors means there's no messy oil sumps or lubricators to check, change and re-fill. Your site will be cleaner, more safe and free of fugitive starter exhaust emissions.



The T100-V pre-engaged starter provides an offset design and overhung pinion for a more flexible fit. Its envelope provides easy replacement of other brands of turbine-type starters. The T100-V's pre-engagement is better suited to "hard starting" engines or where the operator requires positive control of the start cycle.

GCS offers comprehensive control and monitoring system solutions, from engine and turbine systems integration to turnkey project management. We support a broad range of marine, power generation and industrial projects.

GCS is a member of the MSHS Group. Learn more at www.govconsys.com.

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