

**Solar® Turbines**

*A Caterpillar Company*

POWERING THE GLOBAL ENERGY DEMAND

# Pipeline Compressors



# Centrifugal Gas Compressors for Any Pipeline

## THE RIGHT COMPRESSOR FOR ANY PIPELINE

When you're looking for reliability, application versatility and experience in natural gas centrifugal compressors, nobody comes close to Solar. With a reputation for durability and reliability, *Solar*<sup>®</sup> pipeline compressors deliver best-in-class service with high efficiencies and wide operating ranges. Solar currently offers four compressor model lines with design innovations specifically engineered for use on pipelines – C40P, C45, C65 and C85. In addition to our pipeline compressors, Solar manufactures seven production gas compressor model lines which can be utilized in pipeline applications requiring high head, such as a head station in a pipeline.

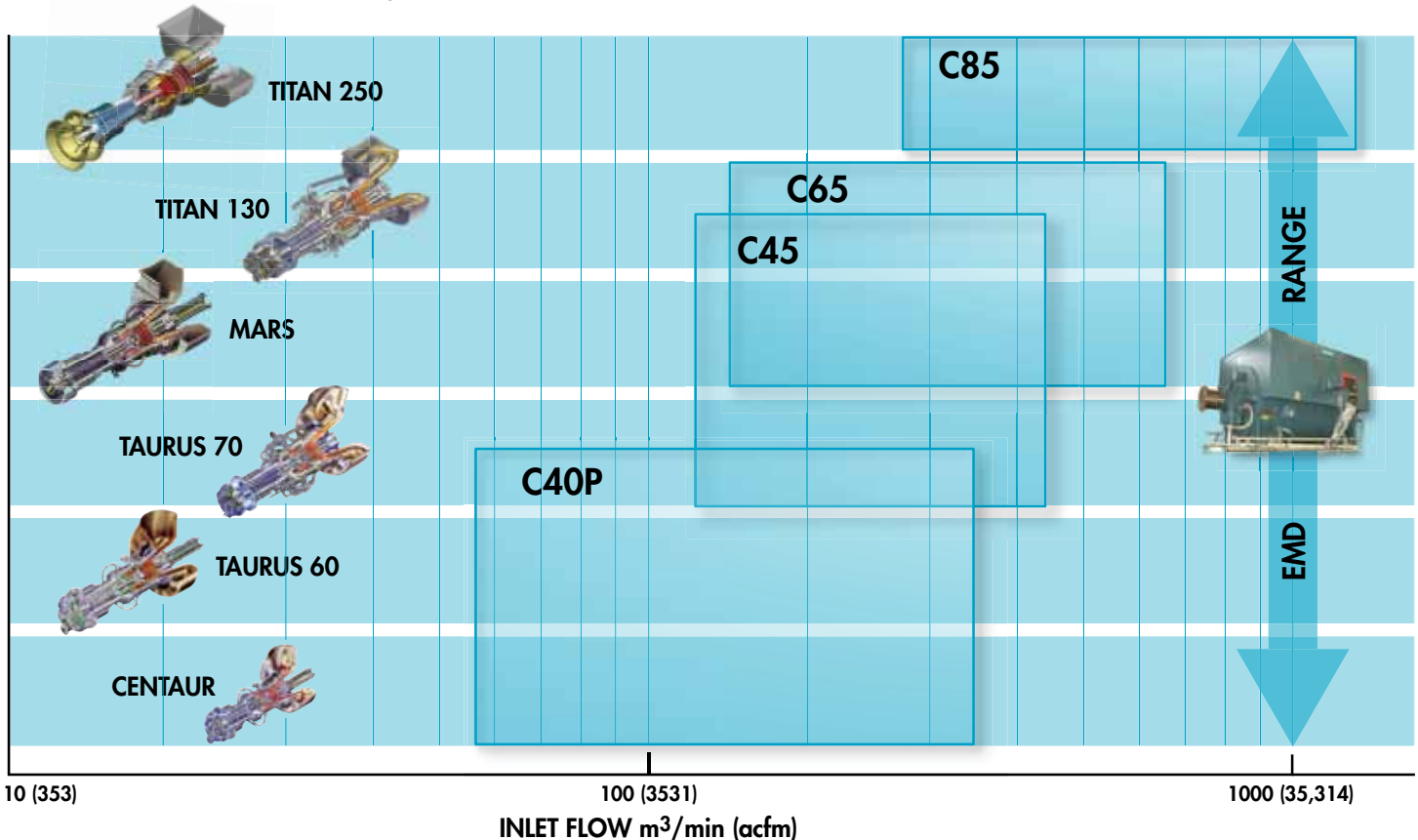
Solar uses cutting edge technologies and processes that maximize simplicity, flexibility and value. We've leveraged 50 years of experience on more than 5,000 compressors to provide our customers with:

- Unmatched High Efficiency and Wide Flow Range
- Low Life-Cycle Costs
- High Reliability and Availability

## UNMATCHED HIGH EFFICIENCY AND WIDE FLOW RANGE

*Solar* compressors are designed with the latest aerodynamic technology to deliver over 89% isentropic efficiencies. We know that you demand efficiency – not only at an ideal set point but over a broad operational range. At Solar, each compressor model has a family of

*Compressors Optimized for Pipeline Usage*



pre-engineered impellers that can be selected for optimal efficiency for specific customer applications. Each *Solar* compressor has a precisely matched *Solar* gas turbine. If an electric motor driver (EMD) is required, we will match the optimum motor to your *Solar* compressor. Both approaches provide an ideal solution for efficiency and wide flow ranges to improve your results.

## LOW LIFE-CYCLE COSTS

*Solar* compressors provide energy saving efficiency over wide operational ranges. Our compressors are designed for rapid and easy restaging so you can quickly adapt to changing operating conditions and maintain peak efficiency. Our modular rotor construction leverages spare parts, from single impellers to full bundle replacement. This not only provides quick response to foreign-object damage, but also allows you to optimize performance which saves you time and money.

## HIGH RELIABILITY AND AVAILABILITY

All Solar facilities are certified to the Quality Standard ISO 9001:2008. Certified design and manufacturing processes, complying with API 617, result in durable, precise components. Components are tested according to leading edge requirements, ensuring safe and reliable compressors. Each compressor is factory tested so it arrives at site ready to exceed customer expectations.

## MODULAR ROTOR ASSEMBLY



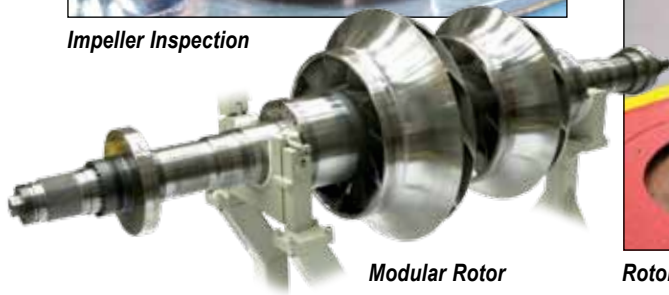
*Impeller Inspection*



*Rotor Assembly*



*Bundle Installation*



*Modular Rotor*



# Optimizing Equipment Value with Solar Support

Your success depends on uptime and throughput, and Solar's comprehensive service offerings ensure that when you need support, Solar is available around the clock and only a phone call or click away. With support centers and knowledgeable personnel located around the world, Solar's Customer Services organization brings an uncompromising commitment to customer satisfaction by providing comprehensive maintenance programs, field service, overhaul, refurbishment and *Solar Certified Parts*. This commitment ensures maximum productivity, extending equipment life-cycle while reducing operating costs.



As your single-solution provider, Solar can restage your gas compressor to increase aerodynamic efficiency of the compressor, extend equipment life, and improve gas turbine fuel efficiency. Overhaul and restaging of *Solar* gas



compressors is part of our core expertise, so you can be sure that your equipment will be updated to the highest standards to perform at optimum levels. Depending on the compressor and installation requirements, Solar will restage your equipment at your site or at one of our worldwide facilities.

For more information about *Solar* gas compressors for pipeline applications, contact one of our representatives. For a complete listing of our worldwide locations, see our web site at [www.solarturbines.com](http://www.solarturbines.com).



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