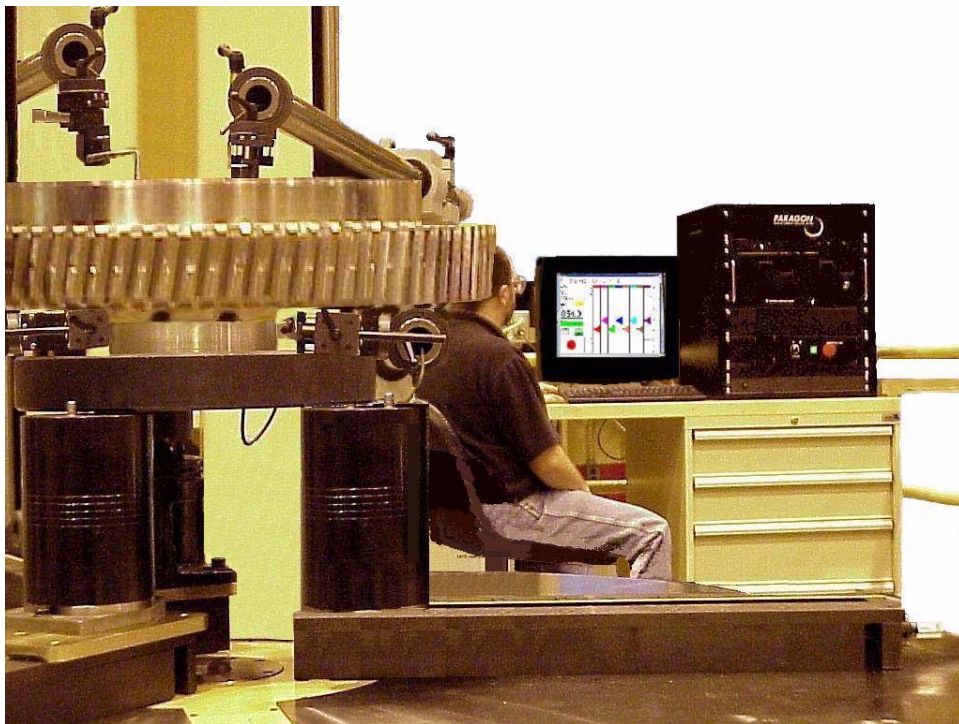


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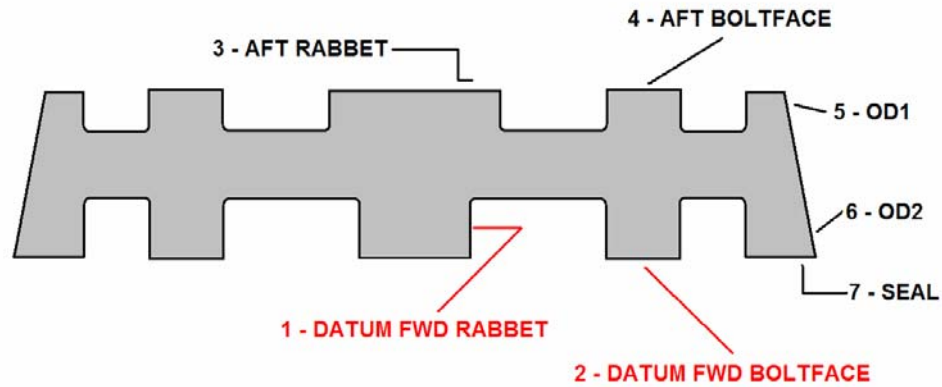
When Eight is Enough

Turbine Metrology's new Paragon V2 system streamlines testing and analysis by measuring twice as many surfaces simultaneously as competing systems.



The industry-leading technology of Turbine Metrology's Paragon Circular Geometry Inspection system has been enhanced in newly released Paragon V2 with the additional capability to support simultaneous eight-channel measuring capability.

For Users who need to measure more than four surfaces on a turbine rotor or similar part, Paragon V2 can offer a considerable savings in set-up time and analysis over similar systems with only one, two, or four channels. In a typical testing situation with a current TM customer, the User's assembly program requires seven surfaces be measured on each compressor wheel. With a system which can take only four measurements at one time, three setups are needed to complete the test program as the two datum measurements are duplicated each time to insure accuracy. **(See below.)**



4 CHANNEL TEST PLAN

- Setup 1: 1,2,3,4
- Setup 2: 1,2,5,6
- Setup 3: 1,2,7

PARAGON V2 TEST PLAN

- Setup 1: 1,2,3,4,5,6,7

(Above) Generic compressor wheel cross-section with seven surfaces to be measured.

With Paragon V2 these measurements can be made from one setup, making analysis easier and ensuring real time comparisons of datum and non-datum data. With this added capability comes no loss of accuracy – Paragon V2 continues to measure each surface over half a million times to accurately characterize the part. This tremendous speed is due in part to Paragon’s multiple microprocessor structure and Digital Signal Processors (DSPs) which deliver statistically relevant data to true 16 bit A-D converters in a steady stream, without gaps from operating system interrupts and free of anomalous values.



Mechanical setups for eight channel testing may be aided by the use of twin column units (**left**) arranged at a fixed angle. Such an arrangement allows gauge heads to be supported with good stability while allowing operator working room to setup and align the gauge heads.

Paragon V2’s Edit Program feature allows test programs to define offset measurement angles for each gauge head, making setup easier. Results are calculated and displayed factoring the offset angles, as if all eight gauge heads were aligned vertically at the same index position.

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