THE ASCAN 2000™ is designed to meet the most stringent industry requirements for the full-body ultrasonic inspection of both new and used API drill pipe, as well as heavy wall landing strings and API casing. The ASCAN 2000™ incorporates the latest in High speed ultrasonic technology and utilizes a fully computerized data-acquisition system.

- **Computerized Electronics System** provides unequalled accuracy and advanced technology
- **Large size capacity** 2 7/8” to 13 3/8” OD Range II or III lengths*
- **Channel Capacity** 8 to 32 channels available*
- **UT scanning head** with adjustable transducer angles

*to be specified by customer

The ASCAN 2000™ is a computerized, multi-function, full-body/full length ultrasonic inspection system designed to inspect oilfield tubulars with unequalled performance and accuracy. The ASCAN 2000™ provides superior flaw detection and wall thickness measurement. Inspection results are saved to the computer hard drive or on other storage devices. Charts can be printed in color and recalled in the future. The scanning heads are exclusive New Tech Systems design with “Immersion Transducer” technology. Contact wedge-type-heads are available upon request. The adjustable angle transducers are positioned in the scanning head, whereas they are immersed in a container of water surrounding the pipe, which provides a clean and consistent signal while allowing the operator the flexibility to adjust each sensor to the desired angle.
PIPE SIZE CAPACITY: 2 7/8" to 13 3/8" OD tubular. Range II or III lengths, tubing, casing, line pipe, drill pipe and collars.

PERFORMANCE:
Pipe Diameter: 2 7/8" - 13 3/8" (60-339 mm) OD
Pipe Length: Range II and III.
Pipe Thickness: .250" – 2.500" (5 – 62 mm).
*Greater thickness can be measured, subject to customer specifications.*

Average Production Speed (for reference only – many variables to consider):

STANDARD 8 CHANNEL SYSTEM: 3’ – 13’ (1-4 m) per minute.
UPGRADE TO 32 CHANNEL SYSTEM: 13’- 50’ (4-16 m) per minute.
*Note: Larger diameter tubes will inspect slower due to the larger surface area to be covered by the transducers. Above production rates are based on running the system on a calibration standard with API required notches and wall loss. (Please contact our technical department to discuss production speed variables on a case-by-case basis).

Specification Compliance
*API 5DP, 5CT, 5L, RP7G-2, TH Hill DS-1 4th Edition (T H Hill Associates, Inc.) (The ASCAN 2000 can be configured to meet these and other specifications based on quantity of UT channels, production speeds, and/or other customer preferences).

INSPECTION FUNCTIONS:
Full-body (end-area coverage may vary) detectability of transverse, longitudinal and oblique flaws, and digital ultrasonic wall thickness measurement.

ELECTRONIC SYSTEM:
Computerized, high-speed electronics package, standard system is 8 channels (additional channels configurations available).
High pulse rates for increased production rate, percentage of coverage and flaw detection.

COMPUTER PACKAGE:
High-speed computer with Windows™ operating system. Large LCD flat panel screen.

SCANNING HEADS:
Scanning heads with immersed UT transducers are mounted on a traveling carriage that moves along the rotating pipe. The motorized carriage is self propelled with variable speed. Scanning heads with transducers are available for common pipe sizes: 2 7/8" to 13 3/8" OD Scanning heads are exclusive design with immersion probes for superior sound transmission.

VIDEO SURVEILLANCE:
Dual digital video cameras are mounted on the scanning head trolley so the operator can monitor the head and pipe movement from the operator room. Displayed on large flat panel screen.

CONTROL PANEL:
This panel is normally mounted on the operator’s desk. Ergonomically designed with switches to control the rotating table, loader/unloader and trolley functions. Can be operated in manual or semi-automatic control mode.

CARRIAGE:
The traveling carriage (trolley) is mounted to the pipe rotator table. Electric driven with adjustable speed.

PIPE ROTATOR TABLE:
Heavy duty, powered rotator table is included to turn pipe. High-speed/high torque motors and urethane rollers are mounted to a heavy steel skid frame. Rollers are driven by variable speed, high torque hydraulic motors. Rotating speed is variable and monitored on the operator’s control panel. Constructed of heavy square steel tubing and all components are powder coated for maximum resistance to corrosion and rust.

LOADER/UNLOADERS:
Loader/unloader arms are mounted to the pipe rotator steel framework. Arms are actuated by hydraulic cylinders to unload inspected pipe and load the next tube simultaneously. Controlled by an electric switch module located on the operator’s control panel. Component are powder-coated for maximum resistance to corrosion and rust.

HYDRAULIC POWER UNIT:
Skid-mounted system driven by electric motor. Includes large capacity fluid tank, fluid level, motor starter control and filtration system. Voltage requirements to be specified by customer.

WATER RECYCLING SYSTEMS: Please inquire for quote.

Weights & Dimensions:
Length: 54 ft. /17.4 m
Width: 4 ft. 6 in / 1.45 m
Height: 9 ft. / 2.9 m
Estimated weight for rotating table & trolley: 12,000 lbs. / 5,454 kg

The Industry’s Leading Manufacturer of Quality Pipe Inspection Equipment & Related Products with Systems in Over 50 Countries.

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