

## NDX Scanner

### Ultrasonic Steam Drum Inspection System



The Analyst™ NDX System provides highly accurate, user-friendly, ultrasonic mud drum scanning. This system was specially designed for scanning steam drums, and provides the reliability and quality you have come to expect from ScanTech Instruments.

The scanner provides continuous revolution and high resolution scanning for rapid, high quality results. The package includes an integrated couplant delivery system that functions when the scanner is in any orientation. It is able to maintain a perpendicular incident probe angle providing a high data return. The scanner is environmentally sealed providing a durable and long-lasting system. The Analyst™ NDX software allows for real-time monitoring of the A-, B-, and C-scans. The high data acquisition rates reduce data error and loss, giving you results you can trust. Reports can be customized for each job and templates can be created for automated reporting. ScanTech provides fast, superior service and support from a proven inspection system manufacturer.

#### System Features:

- > High positional accuracy
- > Real-time monitoring of scans
- > Continuous revolution scanning
- > Proprietary low EMI noise motor drives
- > Highly integrated, light-weight scanner
- > High power and high torque motor drives
- > Long term support for acquisition and motor control boards

## Package Contents

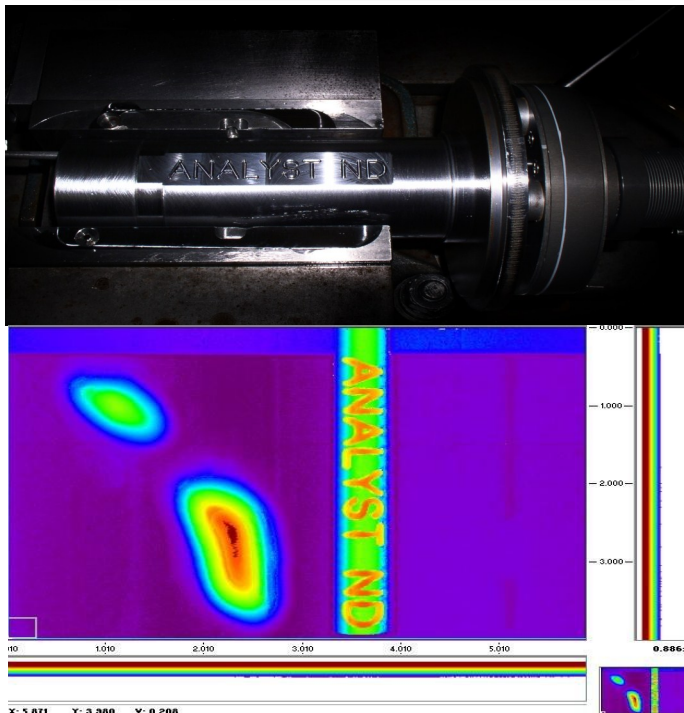
- NDX Scanner System
- X Controller/UT Instrument
- Analyst™ NDX Software
- Main Cable Assembly
- Rugged Transport Case (x3)
- Small Probe Head
- WS3 Couplant Delivery System
- Tool Kit
- Spare Parts Kit
- Notebook PC and Case

## Additional Options

- Additional Probe Head Sizes:

Head Size	Inner Diameter Range
Medium	1.77 - 2.14 in
Large	2.22 - 2.63 in
Extra Large	2.80 - 3.30 in

- BPS Battery Pack
- Additional 55 ft. Main Cable Assembly
- Calibration Tube (1.8", 2.1", and 2.5" I.D.)



## Scanner Specifications

Weight	11 lb Typical (5 kg)
Dimensions	20 in L (508 mm), 5 in (127 mm) Dia. (without handles)
Max Scan Length	6 in (150 mm)
Motors	High Performance RE Servo Motors
Control Mode	Closed Loop
Encoders	ScanTech Proprietary, Magnetic
Minimum Resolution	0.010 in (0.25 mm)
Standard Cable Length	55 ft. (16.76 m)
Couplant Pump	Gear Driven Adjustable Flow

## Rotational Axis Specifications

Speed	260 rpm
Motion Mode	Continuous Rotation
Encoder Resolution	57,600 cta/rev (160 cta/deg)
Max Scan Length	6 in (150 mm)
Tube ID Range	1.485-3.312 in (37.7 - 84 mm)
Head Sizes (4)	S, M, L, XL
Attachment/Stabilizer	Magnetic Pole Pieces (4) Rotary Lever for Magnetic Disengagement
Magnetic Pull Force	80 lb Straight Pull (36 kg)
Transducer	Single Element 7.5 or 10 Mhz
Coupling	Water Squirter, Nozzle Range for Near Proximity
Head Compliance	Dual Hollow U-joint Rotary Spring Arms, Near Constant Spring Force Rotary Wheels

## Linear Axis Specifications

Actuator	High Efficiency Ball Screw
Speed	10 in/s (254 mm/s)
Encoder Resolution	25,400 cta/in (1000 cta/mm)



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