

High Speed, High Resolution & Heavy-Duty Immersion Systems

NDT Automation (NDTA) designs and builds complete Immersion inspection and gantry systems in a range of sizes. Immersion systems are supplied in 3 classes of product: Standard, High-Speed (HS) and High Resolution (HR). Both High-Speed and High-Resolution systems use NDTA's Heavy-Duty Framing system. These designs incorporate an extremely rigid and precise industrial framing system in order to provide high strength, rigidity and minimal backlash.

Highly modular design concept

- ⇒ A new, low-noise, high-power, high speed motor driver system with *closed loop* performance
- ⇒ A new frame assembly with significantly increased *rigidity* - permits
- ⇒ high-speed scanning coupled with high-resolution performance



HIGH-SPEED (HS) & HIGH-RESOLUTION (HR) SYSTEM SPECIFICATIONS AND PERFORMANCE:

CAPABILITY: Motorized X, Y, Z, T, swivel and gimbal axes (manual or motorized)

STANDARD SCAN ENVELOPES:

UPK-T10:	X-axis – 250 mm	Y-axis- 250 mm	Z-axis-250mm
UPK-T18:	X-axis – 250 mm	Y-axis- 250 mm	Z-axis-375mm
UPK-T24:	X-axis – 600 mm	Y-axis- 450 mm	Z-axis-300mm
UPK-T36:	X-axis – 900 mm	Y-axis- 600 mm	Z-axis-450mm
UPK-T48:	X-axis – 1200 mm	Y-axis- 900 mm	Z-axis-600mm

[Other scan envelopes can be custom configured for specific applications on request]

SCANNING RESOLUTION : 0.007MM [7Micron]

POSITIONAL ACCURACY: 0.007MM [7Micron]

LINEAR VELOCITY: >7 INCHES PER SECOND [X-Y AXIS]

DRIVES : HIGH TORQUE, MICRO STEPPING LOW EMR STEPPER MOTOR.

CONFIGURATION: PLEXIGLAS (STAINLESS STEEL AVAILABLE) TANK SUPPORTED IN LOW-BACKLASH, HEAVY-DUTY ALUMINUM FRAMING SYSTEM

MATERIALS: HIGHLY CORROSION RESISTANT

DRIVES: MINIMUM-BACKLASH BELT (HS) OR BALL-SCREW (HR). ALPHA-STEP HIGH SPEED, MICRO-STEPPING LOW EMR DRIVES

OPTIONS: TURNTABLE, BAR/PIPE ROTATOR, DUAL SEARCH TUBES (THROUGH TRANSMISSION)

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