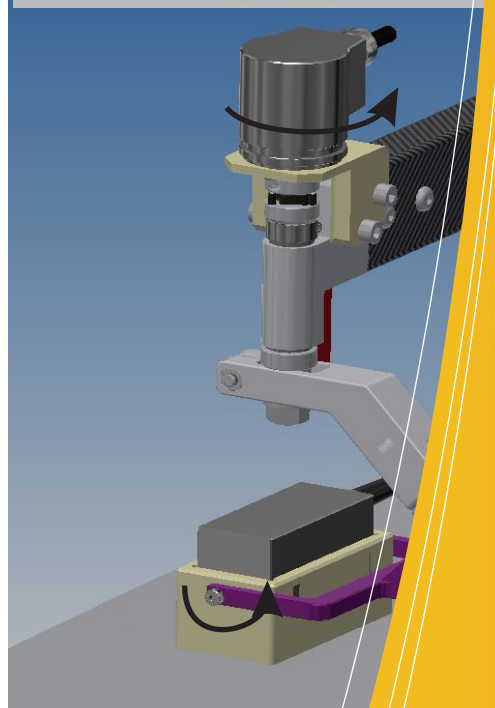
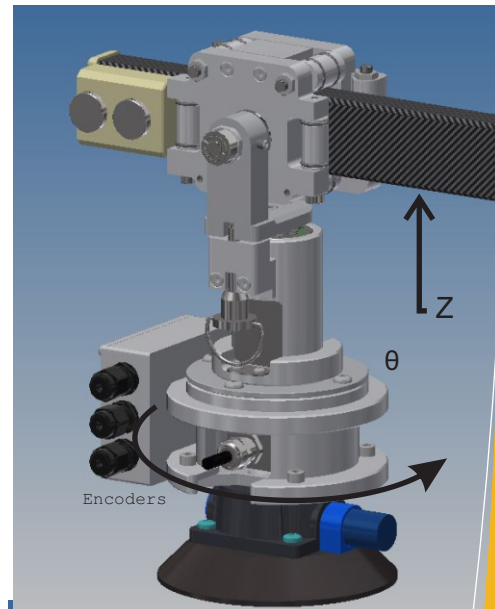


## R THETA<sup>+</sup> MANUAL SCANNER

Our R THETA scanner comes as a two or three axis scanner. As a two axis scanner, the radial (R) and rotation axis (Theta) are encoded which is sufficient for conventional ultrasonic and eddy current scans. An additional rotation axis is required to take in account the rotation of Phased Array transducers or Eddy Current arrays. R Theta are a more efficient to inspect parts with are not rectangular and where a rotation is more appropriate than an X-Y scans.

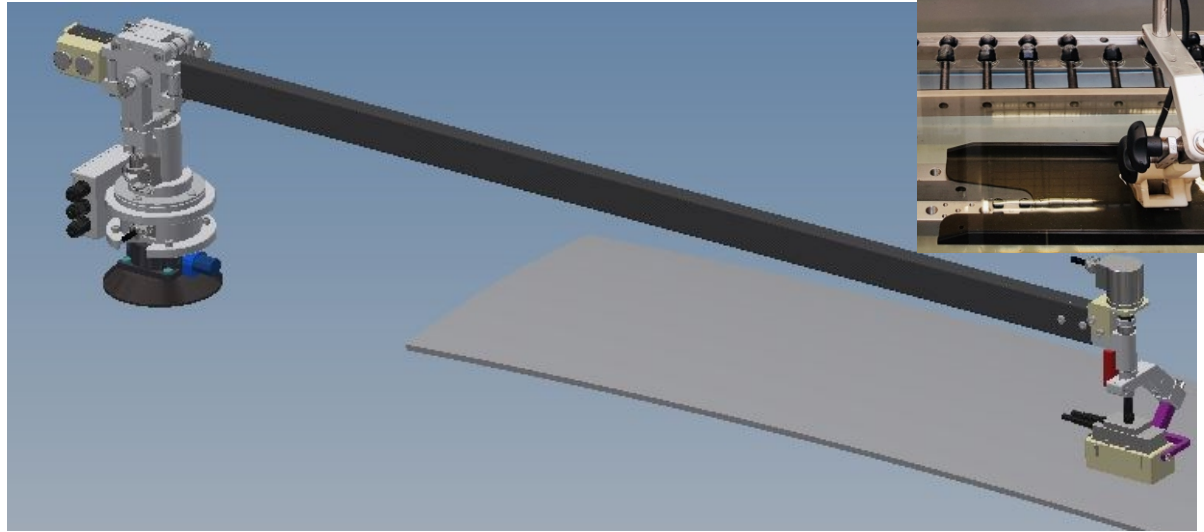
## CONSTRUCTION

- Base
  - Suction Cup or magnetic
  - Anodized Aluminum
  - Encoder output/input module
  - Rotation in Z for part following
  - Possibility to lock the rotation  $\theta^1$
- Radial Axis  $\theta^2$ 
  - Composite Rectangular Bar (available in 500,800, 1000 mm length)
  - Encoded linear axis
  - Slides in-out of the base
- Head ( $\theta^3$ )
  - Rotation of the probe around the Z axis ( $360^\circ$ )
  - 2 additional degrees of freedom to allow probe to follow the part curvature
  - Probe holders can be changed to adapt to transducers
- Delivered in a carrying case
- A manual inspection station may be provided



Manual scanner

R THETA<sup>+</sup>



## Scanners designed for rotary inspection

### R THETA<sup>+</sup>

The third axis of a R Theta scanner has shown to speed up the inspection process by 50%. The  $\theta$  axis allows the inspector to rotate the probe while scanning and therefore adapting the motion to the shape of the part. The instrument software must be set-up to accept two rotary and one linear axis to work properly.



### OPTIONS

- R ARM LENGTH : R1000, R 800, R500 (indicate length of scan axis)
- PROBE HOLDER: CONV UT, PA, ET, ET ARRAY, NONE
- BASE. SUCTION, MAGNETIC
- ENCODER INPUT. FOCUS PX, POCKET, OTHER

## R THETA<sup>+</sup> Manual Scanner

