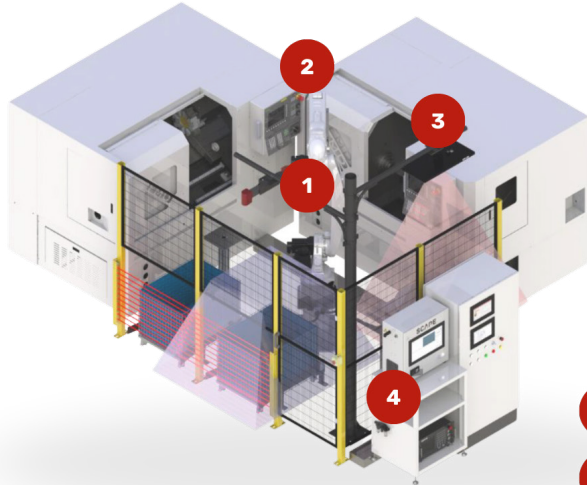


## TNDA Gas Equipment - 3D Vision-Guided Machine Tending of Valve Covers



- 1 **SCAPE Industrial 3D Scanner**
- 2 **SCAPE Robot**
- 3 **SCAPE 2D Camera**
- 4 **SCAPE Vision Controller**

### LOADING AND UNLOADING OF VALVE COVERS FROM 2 CNC MACHINES

THE SOLUTION PERFORMS 3D VISUAL IDENTIFICATION OF THE PART IN THE BIN, GUIDING THE ROBOT TO PICK IT AND PLACE IT ONTO A ROTARY TABLE. NEXT, A 2D VISUAL SYSTEM IDENTIFIES THE POSITION OF THE PRESSURE RELIEF VALVE HOLE. BASED ON THIS DATA, THE ROBOT ORIENTS THE WORKPIECE TO THE CORRECT ANGLE FOR FEEDING INTO THE MACHINE. THE ROBOT THEN GRASPS THE PART AND PLACES IT INTO THE LATHE FOR PROCESSING. ONCE THE VALVE COVER IS PROCESSED, THE ROBOT PLACES IT IN AN ORGANIZED MANNER ON THE RECEIVING PALLET.

CYCLE TIME:	4 MIN - PARTS THAT REQUIRE THREADED HOLE MACHINING 3 MIN - PARTS THAT DO NOT REQUIRE THREADED HOLE
PART WEIGHT AND DIMENSIONS:	4 KG (MAX); 249 MM IN DIAMETER
PART DELIVERY:	HIGH PRECISION DELIVERY INTO FIXTURE
VISION SENSOR:	ONE SCAPE INDUSTRIAL 3D SCANNER

### SEE VIDEO CASE:



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Website: [www.scapetechnologies.com](http://www.scapetechnologies.com)  
Email: [info@scapetechnologies.com](mailto:info@scapetechnologies.com)  
Phone: + 45 70 25 31 13

