

DAPRA[®] MARKING SYSTEMS

ENGINEERING SOLUTIONS

Value-Added Application Story

Industry: Aerospace

Problem: The need to mark Data Matrix codes (DoD UID format) and human-readable text on a wide variety of "round" parts. The parts have a wide variation in diameter, height and marking location, and must be able to be placed at any angle, from parallel to perpendicular to the table surface. The customer hoped to purchase a single, flexible marking solution.

Solution: DAPRA provided a marking solution utilizing a Dot Peen marking head mounted to a custom table with three (3) axes of motion: vertical, radial and angular. The marking head is mounted at the end of the radial arm and has the ability to adjust the angle of the head, plus or minus 90°. The radial arm, attached to a counter balance on the vertical post, moves in and out to accommodate the diameter of the part. The table has two (2) positive stops used to consistently locate the outside diameter of the part or to locate custom fixtures, if required. For lighter parts, a universal clamp is provided to accommodate parts up to 48" diameter, which can be located using a series of holes in the table. A laser pointer, attached to the stylus guide, helps the operator accurately position the required marking on the part surface.



*Above: Universal table set up to mark on top of the part
Below: Table set up to mark on an angled surface*

