FRASER
Precision Tubular Parts

CASE STUDY

HANDLE BAR
(COPING AND FORMING)

SUMMARY:
Combining laser processing with CNC bending allows us to save costs in the manufacturing of formed tubes. Our bender reads a laser-produced etch on each part, aligns the coped ends, and bends the part, removing at least two steps in the production of each part. The part leaves our work cell requiring no downstream operations such as deburring. The consistency of the process allows closer tolerances to be held, simplifying the fixturing process prior to welding.

CHALLENGE:
Minimize downstream operations such as deburring and reduce cycle times for formed components.

SOLUTION:
Incorporate laser etches on the coped part which the bender reads. The part is then bent and the coped ends are aligned. This process removes two steps from the previous manufacturing method.

RESULTS:
The process eliminated the need for downstream operations that included labor-intensive deburring. The time required to make this part was significantly reduced, and two separate workstations were eliminated. In addition, the laser-enhanced bending allows for much closer tolerances which simplifies the fixturing process prior to welding.

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