

Components produced by Precision Rotary Swaging:
Front Fork Stem



07-2317F

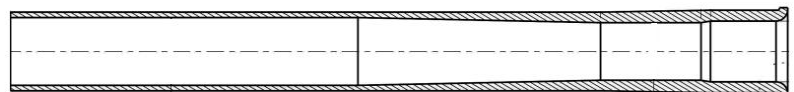
Workpiece:

Material: Aluminium 7050 T6

Blank: Tube section
Ø 37.0 x 5.1 x 180 mm

Manufacturing requirement:

Manufacture of complete part in one pass



Previous technique:

Machining

Operation sequence:

1. Numerically controlled rotary swaging of outer and inner contour
2. End facing and chamfering

Advantages:

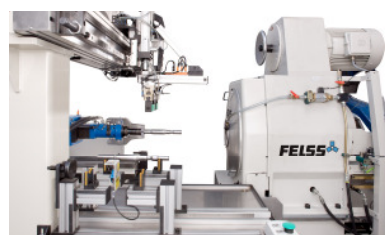
- Chipless forming of internal and external taper
- Highest precision
- Cycle time only 35 sec
- Excellent surface finish
- Significant material and weight savings
- Minimum machining operation
- Favourable grain structure

Machine description:

Single-station numerically controlled rotary swaging machine

Production rate:

Cycle time: approx. 35 sec



Machine:

Model: HA 60-1 SUEH-NC

Required floor space including sound enclosure: (L x W x H)
approx. 7,300 x 3,600 x 2,800 mm

Weight: approx. 8,000 kg

Required power: approx. 40 kW