

**APPLICATION SOLUTION: Parts Stamping**



**Product Family:** Pneumatic  
**Product Used:** MXP40N Band Cylinder  
**Product Type:** Standard

**Application Requirements:**

**Stroke:** 36 in.  
**Speed:** 18 in/sec.  
**Load:** <50 lbs

**Application Description:**

Raising a metal parts stamping safety cage

**Challenge:**

An automotive parts manufacturer was using a pneumatic rod-style cylinder to raise and lower gating for a safety cage around its parts stamping machinery. Because the stroke of a rod cylinder is added to the overall cylinder length, the space requirement for the cylinder to operate was twice the distance required to lift the gate. The customer was seeking a cost-effective, space-saving motion solution.

**Tolomatic Solution:**

A MXP40 pneumatic rodless band-type cylinder with an internal bearing design was selected to accommodate lifting the safety gate and served as a cost-effective replacement. Since a rodless cylinder's stroke is contained within the cylinder housing itself, the MXP pneumatic cylinder reduced the footprint of the safety cage.

**Customer Benefit:**

- Reduced the space required to operate the safety cage by over 50% at lowered cost