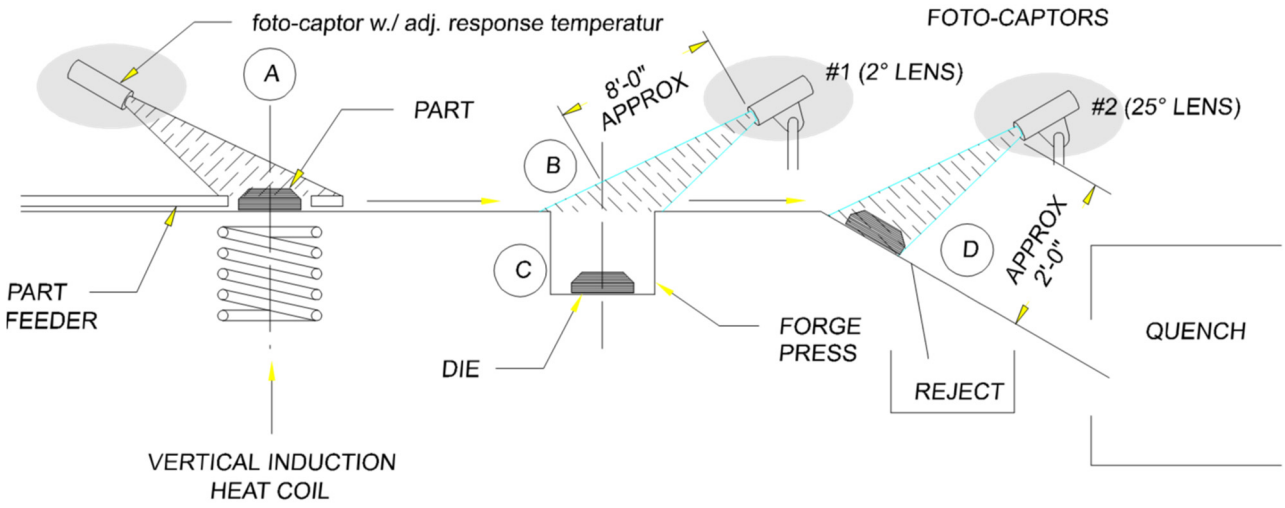
Detection of hot parts in a forge press

INTRODUCTION

The environmental conditions in the steel industry are a challenge for any type of control equipment. High temperatures, vibration, excessive dust and contamination are setting the limits for standard equipment. Our sensors have been designed and carefully built to meet the specific demands of the steel industry.



PROBLEM:

In the process of producing forged metal part, parts can end up stuck in the press, possibly being pressed twice or worse, another part loaded into the die with one stuck, therby pressing two parts in a single part die. The result would be destroying both parts, the die and possibly the press itself.

SOLUTION:

1. Track the part through the processing line with foto-captors in order to maintain constant location of the part from start to finish. In this way, “double loading” of the press can be avoided along with “misfeeds” and “jamming”.
2. Detect the temperature level in the die so that the press can be initiated, when the part has reached the ideal temperature.

BENEFIT:

1. Avoidance of “downtime”, destroyed parts and damage to equipment.
2. Very high repeatablity of the forging process and therefore a very high constant quality level.

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