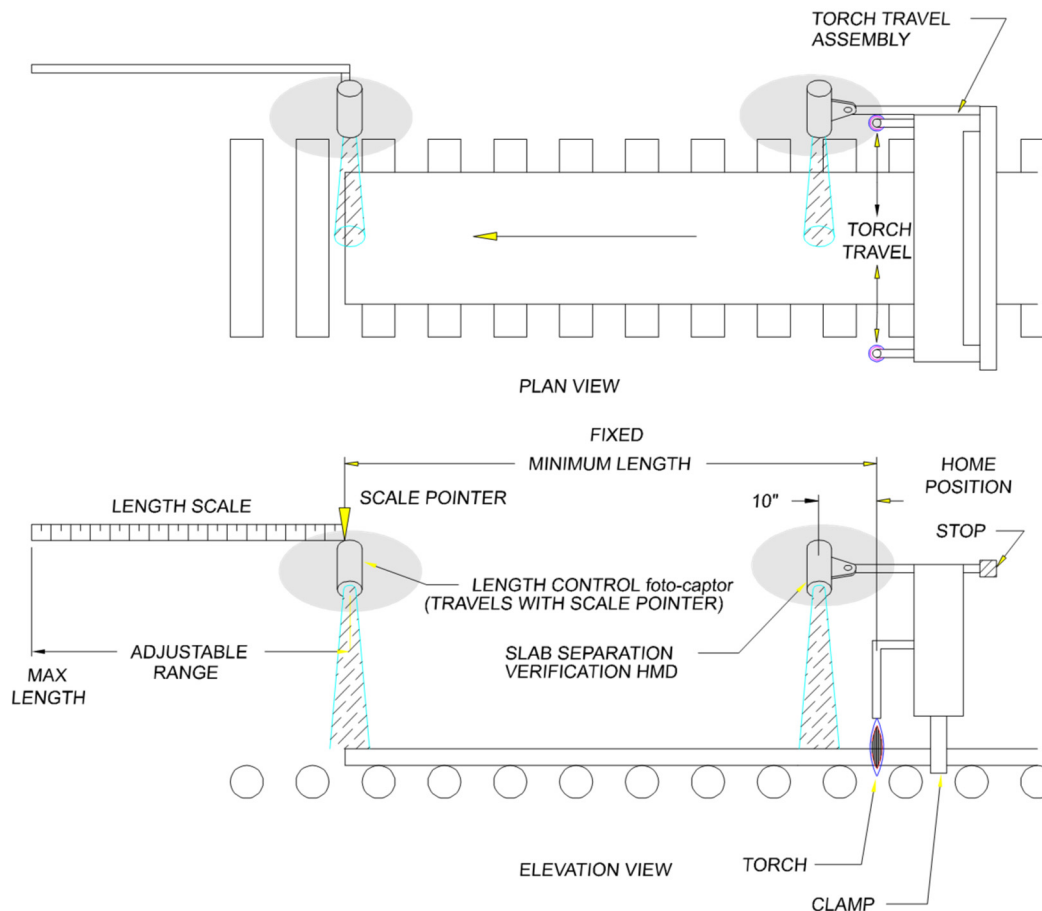


Slab caster length control

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

Cutting of slabs to a specific length, separation and verification of slab for an automated operation.

SOLUTION

Installation of two foto-captors, one for length control and the other for slab separation and verification.

When the length control foto-captor is activated by the slab, the torch clamp is activated, slab is cut and moves past the slab separation verification foto-captor. The torch returns to its starting position and the cycle is complete.

The foto-captor provides a means for consistent length control and verification of slab separation. If the cutting torch is lit but did not traverse its cutting path, the slab would not be separated. The foto-captor would signal the control unit of this condition, avoiding the chance of feeding another slab and causing a "crash" or buckling.

BENEFIT

Avoiding equipment damage and down time.