# InfoSight Custom Solution—Robot Plate Marker
### InfoDent® 8400 Stamper Mounted to Robot to mark hot steel plates

**Problem:** A customer required an automatic stamper that could quickly locate variable size hot steel plates and mark them with a reliably legible dot-peen style message.  The manual marking method that was in use was a potential safety hazard for the operator who had to mark the steel plates at nearly 2000ºF (1093ºC).  Furthermore, it was difficult for the operator to determine if the mark was readable until the plate cooled.

**Solution:** InfoSight's InfoDent® 8400 is designed to automatically and consistently mark hot steel with variable message data.  InfoSight incorporated a custom InfoDent® 8400 marking head as the End Of Arm Tool (EOAT) on a robot, giving the customer the flexibility to quickly find the side edge and trailing end of variable size steel plates and reliably stamp legible messages in exact locations on each plate.

The Robot Plate Stamper is a custom integration of an ID8400 stamping head with three pin cartridges.  The robot is the mechanism used to move the stamping head into position.  A laser sensor on the marking head assembly detects the side edge and trailing end of the hot steel plate.  This information is used to determine the exact location of up to six marks.

InfoSight is increasingly using robots in the design of custom automation equipment.  Other design options require support structures, such as jibs or gantries, and a means to move the marking head into place, such as with air cylinders or on motor driven carriages.  The space available for the marking machine, the desired mark location on the product, and the desired marking cycle time factor into the whether a robot or other motion method is used.



_Machine Features_
- Custom ID8400 Marking Head with three pin cartridges
- Laser Sensor for detecting plate location
- Heat Shield with sliding doors
- Safety Fence
- PLC program for integration into customer's PLC
- Operates in extreme heat environment

_Mark Features_
- Up to six unique messages per marking  cycle
- Each message can contain up to 21 alphanumeric characters

*Click or Scan* **the QR Code to watch the equipment in action**



**Quickly and accurately stamp a legible identifying message on variable size hot steel plates.**