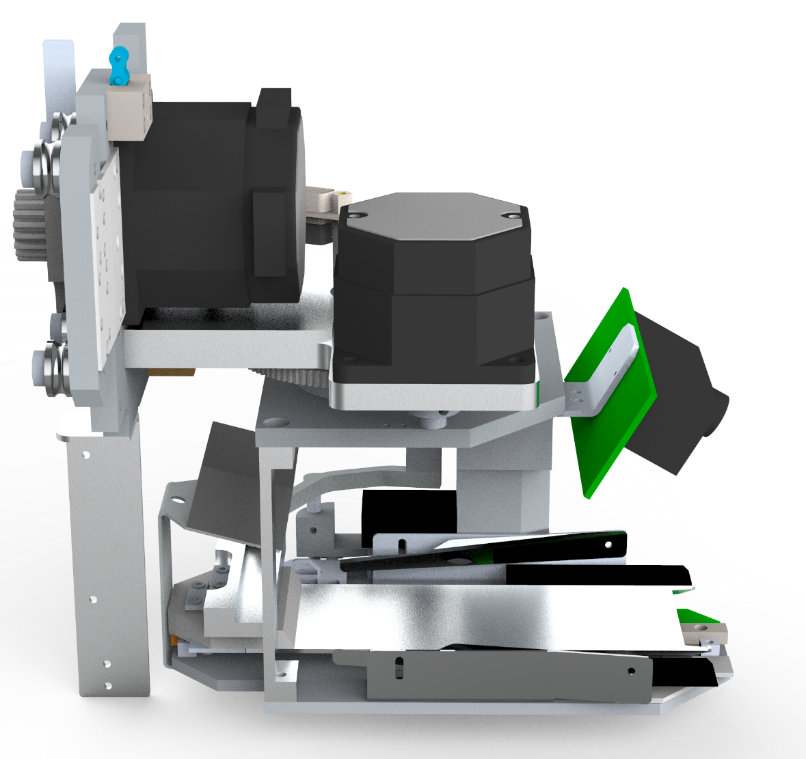
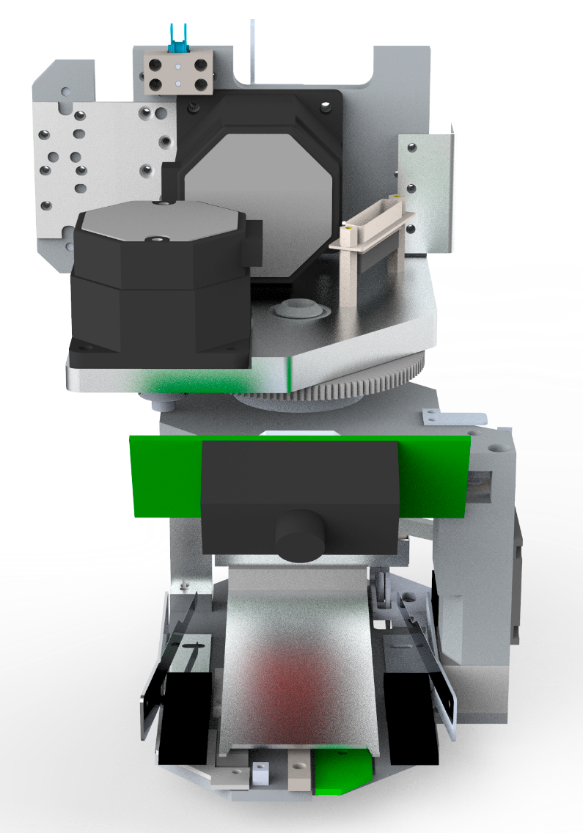
# Identification

## Plate Presence Sensor

A Plate Presence Sensor is installed under the shovel on the Handling Assembly. It allows the check the present of the plates stored in the stackers. Plate Present Sensor is an optical sensor.

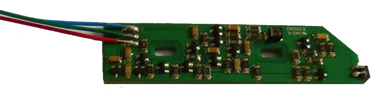


Camera

PPS - Plate Presence Sensor

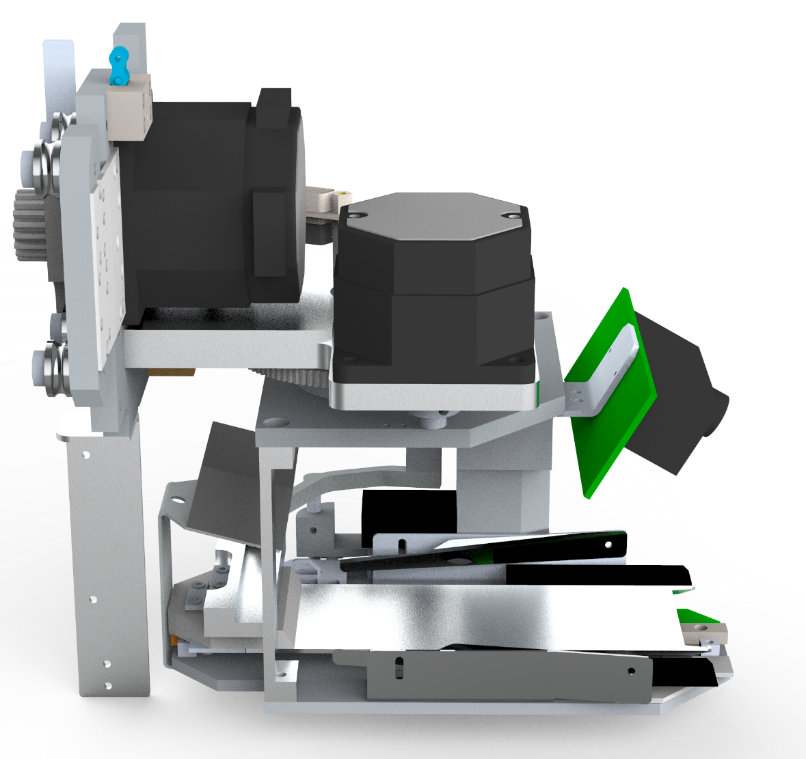
Barcode Reader

Shovel Assembly



## Barcode reader

A Bar Code Reader is installed on the Lift Assembly. It allows the reading of Bar Codes on plates stored in the cassettes. Bar Codes have to be printed on the shorter side of the plates and have to face outwards to the Lift Assembly.



Barcode Reader

Camera

Shovel Assembly

### Plate Code Reader 1D

This is the default reader for all Systems. This is a multi-line laser-based reader for reding only barcodes. Following are the detailed specifications of this reader.

#### Supported Barcode Types

The barcode reader recognizes the following barcode types.

* Code 128 number of characters : 1..32
* Code 39 number of characters : 3..32
* Coda bar number of characters : 3..32
* EAN(UPC (A/E) EAN 13, EAN 8, UPC-E
* ITF
* Industrial 2 of 5
* COOP 2of5
* Code 93
* EAN-128

#### Barcode Specifications

* Light Source: Semiconductor Laser
* Wavelength: 650nm
* Output: 1.0mW
* Class: FDA: Class II

IEC 825-1 11.1993: Class 2

DIN EN 608251 07.1994: Klasse 2

* Reading Bar Width: Reading Bar Width: 0.125 – 1.0 mm

0.15 – 1.0 mm for Code 93 and Code 128

* Ambient Light: Sunlight 10’000 lx
* Incandescent Lamp: 6’000 lx
* UL Applicable standards
* UL File No.
* UL category

### Plate Code Reader 1D/2D

Optional a camera-based reader is available providing the possibility to read 1D and 2D codes. This reader is used when it is required to identify plates with 2D codes or the conditions for reading require the flexibility of this reader.

#### Supported Barcode Types

The barcode reader recognizes the following barcode types.

1D Barcodes

* All standard 1-dimensional symbologies

2D Codes

* DataMatrix
* QR Code
* Micro QR
* Maxicode
* Aztec
* Dot Code

#### Barcode Specifications

* Sensor: CMOS with Global Shutter
* Illumination: White Internal Illuminator
* Focusing System: Manual adjustment (45-120mm)
* Aiming System: Laser indicator
* Class: Class 1M (IEC 60825-1)
* Protection Class: IP65 (EN60529)
* LED Safety: LED Safety Exempt Risk Group as per EN 62471
* Regulatory: EN61000-6-2 Electromagnetic Immunity

EN61000-6-4 Electromagnetic Emissions Class A;

FCC part 15 for Class A digital device

CSA listed product for Canada and U.S.;

CE; KC; EAC

## Falcon Eye FE2D-138 scanner

A 2D code whole rack scanner can be integrated into the systems. It allows the reading of 2D Codes of a whole rack at once under controlled climate condition. To read the 2D codes, the rack needs moved as a whole to the reader.