Techno-Nav!

テクノナビ

Sumitomo SHI DEMAG

Application 02

⚠ Authentication by QR Code

Available models：
SE-EV/SEEV-A/SEEV-A-HD

Overview `Pat. Pend.`

This QR code reading application links all of the information needed to set up production -- molding conditions, take-out robot E.O.A.T, resin, user information, and more -- to QR codes that users can scan to call up conditions for molding jobs, verify whether conditions are correct or not, and authenticate users. It makes setup accurate, speedy and mistake-free.

● This application is offered as an option. The user is responsible for procuring a QR code reader (USB connection) and preparing QR codes.

● Applicable QR reader: Keyence HR-100 (Wired type) / Keyence HR-100B (Wireless type) (This model is not shown in photos.)

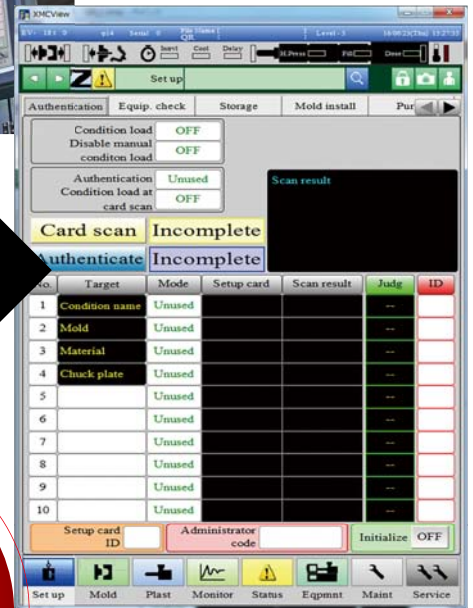### Configuration and benefits

QR reader

Molding conditions
Take-out robot E.O.A.T
Resin information
User information etc.

Loss caused by 'careless mistakes'

Mold damage
E.O.A.T broken
Wasteful molding

QR code authentication screen

Example benefits

■ Less setup loss by preventing 'careless mistakes'

'Careless mistakes' made during production setup

QR code authentication

Annual economic benefit from 1 machine
5,500 USD

Users are spared repair costs for damaged equipment and disposal costs for wasted resin, because 'careless mistakes' made during production setup, e.g., calling up the wrong molding conditions, failure to change out the E.O.A.T, use of the wrong resin, etc., are eliminated.

Basis for calculating economic benefit
- Cracked mold caused by calling up the wrong molding conditions:
  Twice a year (Total repair costs 3,000 USD)
- E.O.A.T broken caused by failure to change out the plate:
  Twice a year (Total repair costs 1,500 USD)
- Disposal of molded products caused using the wrong resin:
  3 times a year (Total wasted product 1,000 USD)

◆ Sumitomo Heavy Industries, Ltd.   Plastics Machinery Div.

Usage examples

QR codes can be used to call up and verify that molding conditions are correct when a check is needed to set up production.

Calling up molding conditions

Molding conditions can be automatically called up by scanning QR codes that represent mold IDs. Users are spared the trouble of manually entering conditions.

Verifying E.O.A.T

Once molding conditions have been called up, the QR code of the E.O.A.T can be scanned. If the E.O.A.T does not match the molding conditions, continuous operation can be blocked.

Verifying resins

Once molding conditions have been called up, the QR code on the resin bag can be scanned. If the resin does not match the molding conditions, continuous operation can be blocked.

Authenticating users

Users can be automatically authenticated by scanning the QR code on a nametag or the like that represents the user name, access level and password.

> QR codes can be used to authenticate other information. For more information, contact Sumitomo.

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