

OHMURA Technical Report

Vol.5 December 25, 2013

Mass Production with a Dedicated Line

We are building dedicated production lines using Ohmura-developed dedicated equipment with the goal of more streamlined and efficient production. We are contributing to Japanese-style craftsmanship with production lines that respect the human element through TIE activities.

Meet the people managing for the mass-production division



What is a dedicated line?

- Monthly production of 5,000~40,000 units
- Cycle time and tact time
- Approximately 10 production steps
- Combinations of general-purpose equipment and dedicated equipment
- Increased production? Reduced production? Productions steps that are centralized or decentralized?



Ohmura dedicated equipment

- We have already built 300 dedicated units
- Mass production using dedicated equipment
- We also build dedicated deburring equipment
- In-house fabrication of automated equipment
- We also fabricate electrolytic deburring equipment
- The MC dedicated unit is made up of 7 MCs



株式会社 大村製作所
〒355-0076 埼玉県東松山市下唐子1606
TEL.0493-23-1288 FAX.0493-24-1288
<http://www.ohmurasei.co.jp/>



JIS Q
9100

OHMURA Technical Report

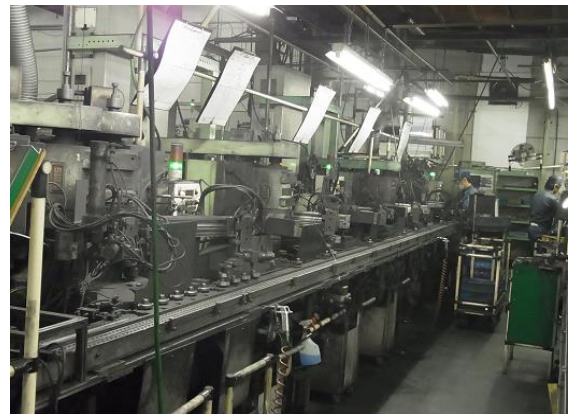
A production technology approach

- Design of dedicated cutting tools
- General-purpose units are purchased “stripped-down”
- We do our own tooling
- Production design is done in an open environment with free exchange of ideas
- Manual work, use of tools, use of equipment, use of jigs, use of machines



Manufacturing technology approach

- We apply money and resources where they are truly needed
- First, it's the people
- From people to machines
- From mechanization to automation
- From automation to more sophisticated automation
- One unit goes through, eliminating intermediate inventories
- Washers that wash a single unit



Management technology

- Freedom from hand-to-mouth production
- Visualization of planning and inventory
- Monthly management → daily management → hourly management
- See the problems → Changing the way people think
- Vision → the way thing ought to be → responsiveness of the plant floor
- Sense of ownership over machines, improved 5S
- Is it the operator who removes the burrs?
- Quality assurance throughout the process
- From partial to total optimization



There can be no improvements in places where there is no mass production capability!
Our next topic will be “small lot products”



株式会社 大村製作所
〒355-0076 埼玉県東松山市下唐子1606
TEL.0493-23-1288 FAX.0493-24-1288
<http://www.ohmurasei.co.jp/>



JIS Q
9100