MESSER
Cutting Systems

OmniFab 2018

Unlocking Manufacturing Potential through the IoT

Internet of Things (IoT)

The goal of all manufacturers is to run a safe and effective operation. Unfortunately, some of the major obstacles to achieving this goal are machines. Isolated, traditional equipment prevents consistent, thorough, and simple data tracking. Additionally, when downtimes occur, your operation may grind to an extended but preventable halt. With insight into difficulties like these that machine cutting businesses face, our latest software suite helps you revolutionize your business through the IoT.

The Internet of Things (IoT) has opened the door to new automated abilities for your equipment. Not only can you run a safer and more effective operation, but you have access to a host of innovative data collection and reporting functions that can improve your transparency and productivity. Equipped with cutting edge knowledge and technology, you will be able to overcome current industry challenges.

Current Industry Limitations

Without congruent software linking all machines within a process across the entire value chain of a company, manufacturing floors face a range of challenges related to the gathering of data, organization, and utilization of information.

Data Collection

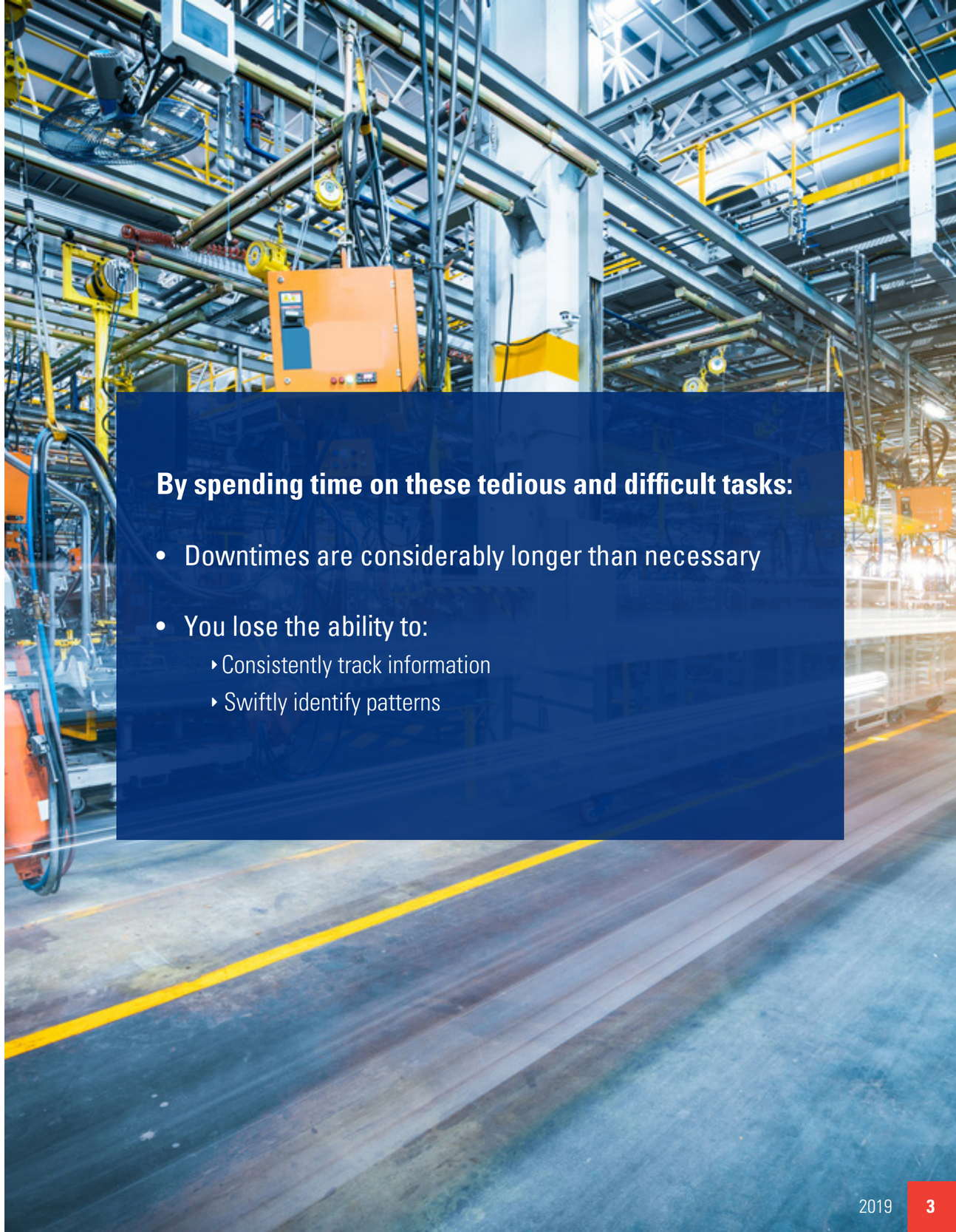
When up-to-date statistics are not consistently tracked for all devices, you lose insight into, material usage and waste, length and type of downtime, recurring errors, and source of errors.

Reporting

Without reliable or consistent data, consolidating the information you've gathered by hand throughout the operation becomes unnecessarily difficult.

Implementation

Time is lost from when an issue is noticed by an employee and when he or she orders replacement parts or schedules maintenance since these tasks are not completed automatically.



By spending time on these tedious and difficult tasks:

- Downtimes are considerably longer than necessary
- You lose the ability to:
  - Consistently track information
  - Swiftly identify patterns

Ground-Breaking Capabilities

Harnessing the latest technology provided by the Internet of Things (IoT) grants you access to a fleet of new possibilities, enabling you to run your operation seamlessly from start to finish.

Even when manufacturers oversee a process that consists of several moving parts, machines cut out the middleman by:

- Communicating with one another
- Sending relevant data to:
  - Other equipment
  - Machine Operators

When machines of the same function or process communicate, data is gathered and analyzed, which calculates and evaluates the following parameters:

- Pre-calculated production times
- Material usage
- Machine utilization
- Production times and downtimes
- Frequency of error categories
- Errors responsible for the highest downtimes

Each stage of a process is capable of tracking data and passing this information along, either to the:

- Next stage
- Data-collection/analyzing software

When machines have this actionable data, they can:

- Send comprehensive reports to your production-planning department
- Order maintenance or replacement parts automatically

Now the challenge for machine cutting businesses is locating a software suite that connects all machines, tracks input and output, improves productivity, and takes advantage of all the possibilities of the IoT.

OmniFab 2018

Our OmniFab 2018 provides transparency and traceability from the preparation of the quotation to the post-calculation into a large number of machines by integrating their functionality and data collection.

The software's functions help you prepare accurate quotes by providing you with precise data and analytics in the form of comprehensive reports.

All data and production results are made available in your:

- CAD/CAM software
- ERP system

Thorough, reliable information is collected on process times:

- Downtimes and reasons for downtimes for:
  - Definable periods of time (days, weeks, months)
  - Working time
  - Idler time
  - Error time

- Time Used For:
  - Cutting
  - Positioning
  - Piering
  - Preheating

From this data and these evaluations, you can:

- Generate plannable maintenance intervals
- Uncover potential for optimization
- Gain a competitive advantage through increased production efficiency

OmniFab installations are configurable to customer-specific needs and goals and include the following components:

- FDC that generates up-to-date and reliable data on:
  - Cutting machines
  - Number of finished parts
  - Scrap
  - Material actually used

- ERP-Connect:
  - Makes order data available to you, so that items, parts, plates, and other relevant customer data are automatically delivered where they are required
  - Can be fed nesting plans with real production data

- Machine Insight:
  - Monitoring - providing real-time insight into the current machine status and proactively notifying
  - Machine utilization - provide insight into the overall cutting machine effectiveness by suitable reports
  - Job reports - provide information about actual vs planned cutting times on a regular basis
  - Reporting - the module provides you with a set of reports after certain time intervals like shifts, working data, etc

- Additional functions make it easier to:
  - Recognize patterns in the event of anomalies in the data
  - Initiate necessary measures earlier and more purposefully.

Unlocking Potential Through the IoT

Actionable data is made available for your production-planning department in the form of in-depth reports

Items, parts, plates, other relevant items, and maintenance are automatically delivered when needed

A large number of machines can be managed with data collected into a range of metrics

Transparency and traceability enable you to prepare accurate quotes

All installations are configurable based on customer-specific fields

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