

Sycor.MES

Transparent production, objective key performance indicators



Sycor.MES is a software solution integrated with SAP that lets you enter and analyze machine and production data and import it into the SAP module for actual cost accounting.



Sycor.MES covers the following functional areas:

- Machine data acquisition (for all automatic signals)
- Machine approval (bidirectional interface)
- Production data acquisition (for manual recording, either locally or directly in SAP)
- Personnel time allocation (with SAP-HR integration)
- Quality data recording (for employee self-monitoring in SAP-QM)
- Production control station (machine condition report)
- Production metrics (TEEP, Geff, OEE)
- SAP-CO transfer (production orders, make-to-stock production, internal orders, etc.)

Decentralized, resilient system architecture

The core components of *Sycor.MES* are SAP-oriented and do not require a dedicated backup system as they are managed by the SAP backup concept. The system features a self-contained client that communicates with production systems via sensors or your existing machine control system. SAP Netweaver ensures communication between the client and the SAP server. If the connection fails (e.g., if the SAP server is unavailable), data is stored in a buffer and automatically synchronized once the connection is restored. Production data can also be recorded via decentralized PDA terminals or entered directly via a SAP PDA transaction.

Your advantages:

- One integrated solution for PDA and MDA
- Analysis function and ability to import data to SAP actual cost accounting
- Variable personnel cost allocation in production
- Transparent view of production metrics
- Customized further processing in SAP

Your challenges:

- Separate acquisition of machine data and production data with time-consuming analysis processes
- Cumbersome calculation of production metrics
- Complex allocation of personnel costs to production cost centers
- Changing requirements relating to information processing

Freely configurable information processing

You can use the *Sycor.MES* Configuration component to customize further processing of data in SAP. For example, for each workstation, record type or cause (multilevel model) you can define the standard SAP value to which you want the actual data to be posted.

Personnel time allocation using a range of models

Sycor.MES Personnel Time offers a variety of options for allocating personnel costs to cost

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centers in the production department. These scenarios include direct allocation per production system, multiple machine operation, stand-in staff, support staff and teamwork. These scenarios can also be combined. In the Configuration component, you define for each time event whether the personnel time is calculated at 100%, 0% or prorated.

Productions KPIs right out of the textbook

The Sycor.MES KPI module lets you calculate well-known production metrics such as TEEP (Total Effective Equipment Productivity), GEFF (German abbreviation for total system efficiency) or OEE (Overall Equipment Efficiency). Individual components of these key performance indicators are displayed, including availability factor (usage level), performance factor and quality factor. This also applies to workstations and individual production lots.

A special feature of this module is that it records adherence to schedules, a „new“ key performance indicator. This metric is especially useful for companies that employ continuous flow production strategies. It documents the JIT capabilities of isolated production departments.

Conclusion

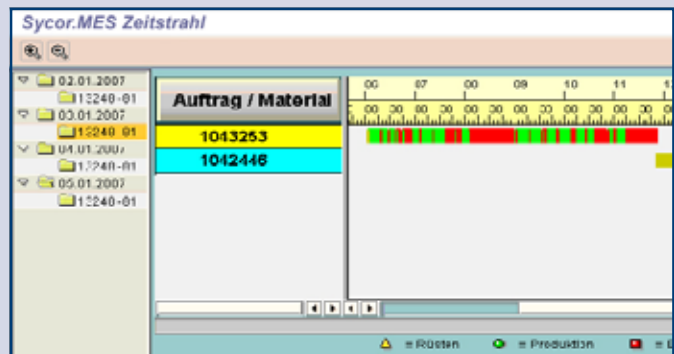
The scope of CO transfer is defined based on your company's needs. You can define data transfer in Sycor.MES according to how actual cost accounting is structured in SAP. Data can be posted to all objects in SAP that are assignable to accounts – you decide which objects.

Sycor.MES Kennzahlen

Arbeitsplatz: Auftragsstück 1 Colitzzeit / kapang. HCL 1stahl

Arbeitsplatz	Kurzbezeichnung	Ausl. %	KapAngabe	Datum	Job	Besamt. Nr	Produkt	Werkst.	Col. n. nut
Auftrag	Material	Charakter	Kapazität	Gesamt. Nr	Produkt	Werkst.	Col. n. nut		
13240-D1	Spritzguß 2-Komp.	Hersteller 1-1	87,4	107					
A3 01 2007			83,1	608,758	283,357	3,5	478,11		
1043253	1031-L-00-03	1708	53,1	301,722	101,722	53,7	10,17		
1042223	1031-L-003-03	1708	103,2	300,322	121,722	39,8	30,93		
13240-D2	Spritzguß 2-Komp.	Hersteller 1-2	80,2	922					
A3 01 2007			35,7	740,351	205,157	30,8	322,07		
1043053	1031-F-002-03	4708	3,7	38,357		0,8			
1042883	1031-F-004-03	4708	82,5	61,754	205,157	48,3	322,07		

KPI cockpit



Timeline display

Sycor.MES Leitstand / 06.03.2007 / 15:06:15

Control station