

# JUST-MES Shop Floor Data Collection

## Products Overview



# Product function

- JUST-MES Shop floor data collection system provide the best MES software which is fast deployment and open interface with different ERP System.

## Shop floor

- Machine
- Employee
- Tooling
- Spare parts

## Planning

- Capacity
- Schedule
- Predictive Maintenance
- Proactive Maintenance

## Production

- Work Order
- Labor
- Material
- Finish Goods
- Service Order

## Query

- Kanban
- Dashboard
- Report
- Mobile
- Notification

## Integrate

- PLC
- BARCODE
- RF Card
- Clock Machine

# Shop floor layout

- JUST-SFDC Platform provide the flexibility allow setup and visualize the machine resource, with machine connected feature to get the full real time information about the whole factory.



0\_M\_Equipment

10/14/2019 2:13:06 PM

Machine #	Status	No of Job	Plan Qty	Actual Qty	Progress
Machine_#01	Norm...	10	181534.5	88210	49%
Machine_#02	Norm...	26	7321985	109665	1%
Machine_#03	Norm...	2	13026	8026	62%
Machine_#04	Warni...	1	10000	4000	40%
Machine_#05	Down	1	10000	4000	40%
Machine_#06	Norm...	7	581481	433781	75%
Machine_#07	Norm...	1	1000	800	80%
Machine_#08	Maint...	1	1000	1000	100%
Machine_#09	Maint...	0	0	0	0%
Machine_#10	Down	0	0	0	0%
Machine_#11	Down	0	0	0	0%
Machine_#12	Norm...	0	0	0	0%

JUSTPRO

Call Down Start Notify

Enter text to search...

# Machine maintenance

- JUST-SFDC Platform provide the customized alarms where you can notify the related user to check unexpected condition or events, include automatic create predictive/proactive maintenance service order.



SFDC Platform

Login

MachineName

Status	Job	StockCode	Start	Finish	PlanQty	ActualQty	Progress	PlanTime	ActualTime	TimeProgress
Normal	40000004	825163	10/3/2019	10/3/2017	580	32000	100%	1.16	26.00	100%
MachineName: Machine_#03										
Normal	400000045	813648	11/2/2019	10/17/2017	8026	8026	100%	100.00	12.00	12%
Normal	400000055	813322	9/28/2019	10/26/2017	5000	0	0%	5.56	28.00	100%
MachineName: Machine_#04										
Warning	400000012	813648	9/19/2019	10/6/2017	10000	4000	40%	100.00	45.00	45%
MachineName: Machine_#05										
Down	400000014	825163	9/21/2019	10/7/2017	10000	4000	40%	100.00	45.00	45%
MachineName: Machine_#06										
Normal	400000017	824674	9/26/2019	10/8/2017	2000	1000	50%	100.00	0.00	0%
Normal	400000005	825163	12/12/2019	12/21/2017	50000	45400	91%	50.00	80.00	100%
Normal	400000008	825163	9/5/2019	10/5/2017	10000	5000	50%	100.00	60.00	60%
Normal	100292585	813208	9/11/2019	10/2/2017	80000	46000	57%	80.00	44.00	55%
Normal	400000047	813648	9/4/2019	10/19/2017	93000	90000	97%	100.00	30.00	30%
Normal	400000019	813648	9/12/2019	10/10/2017	100	0	0%	100.00	15.00	15%
Normal	400000031	831767	9/12/2019	10/11/2017	346381	246381	71%	100.00	30.00	30%
MachineName: Machine_#07										
Normal	400000018	824674	9/13/2019	10/9/2017	1000	800	80%	100.00	0.00	0%
MachineName: Machine_#08										
Maintenance	400000030	813208	9/13/2019	10/11/2017	1000	1000	100%	100.00	15.00	15%
			Total:		8120026.5	649482	Total:		4557.51	1554.00

JUSTPRO Capacity

Enter text to search

# Dynamic production plan

- JUST-SFDC can dynamic generated the production plan by each machine, the original source can be download from ERP and consider the actual production environment include machine, tool, labor, etc.

Product/Break	PLU	QTY	Make Ahead	Total QTY
Product 254	2254	250	100	350
Product 436	2436	350	0	500
Product 885	2885	500	100	220
Product 915	2915	120	100	25
Product 101	3101	150	100	
Product 201	3201	120	50	

EQID	EQName	Machine	Job	Stock Code	Description	Start	Finish	Plan	Actual	Job Desc	Status	Progress
10000002	Machine_#...	J002	40000054	813322	CANFOR 1...	9/15/2...	10/25/2017	999000	0	TECO MSP...	正常	0%
10000002	Machine_#...	J002	40000052	813752	RHINORO...	9/25/2...	10/23/2017	66	66	TECO PRC ...	正常	100%
10000002	Machine_#...	J002	40000050	824684	PP 0888 D...	9/23/2...	10/21/2017	8800	5800	TECO PRC ...	正常	66%
10000002	Machine_#...	J002	40000048	824701	PP 0888 D...	9/21/2...	10/19/2017	2000	1800	TECO PRC ...	正常	90%
10000002	Machine_#...	J002	40000044	824701	PP 0888 D...	9/17/2...	10/16/2017	8800	5500	TECO PRC ...	正常	62%
10000002	Machine_#...	J002	40000046	824701	PP 0888 D...	9/19/2...	10/18/2017	30	0	TECO PRC ...	正常	0%
10000002	Machine_#...	J002	40000032	813201	0504.8116...	9/13/2...	10/12/2017	6499	6499	TECO MSP...	正常	100%
10000002	Machine_#...	J002	40000033	813201	0504.8116...	9/12/2...	10/13/2017	29411	29000	TECO MSP...	正常	99%
10000002	Machine_#...	J002	40000034	813201	0504.8116...	9/15/2...	10/14/2017	29411	29000	TECO MSP...	正常	99%
10000002	Machine_#...	J002	40000004	825163	1004.7148...	10/3/2...	10/3/2017	580	32000	TECO PRC ...	正常	100%
10000003	Machine_#...	J003	40000045	813648	TITANIUM ...	11/2/2...	10/17/2017	8026	8026	TECO PCN...	正常	100%
10000003	Machine_#...	J003	40000055	813322	CANFOR 1...	9/28/2...	10/26/2017	5000	0	TECO MSP...	正常	0%
10000004	Machine_#...	J004	40000012	813648	TITANIUM ...	9/19/2...	10/6/2017	10000	4000	TECO CNF ...	警告	30%
10000005	Machine_#...	J005	40000014	825163	1004.7148...	9/21/2...	10/7/2017	10000	4000	TECO MSP...	宕机	30%
10000006	Machine_#...	J006	40000017	824674	PP 1950 D...	9/26/2...	10/8/2017	2000	1000	REL PCNF ...	正常	50%
10000006	Machine_#...	J006	40000005	825163	1004.7148...	12/12/...	12/21/2017	50000	45400	TECO MSP...	正常	91%
10000006	Machine_#...	J006	40000008	825163	1004.7148...	9/5/2019	10/5/2017	10000	5000	TECO MSP...	正常	50%
10000006	Machine_#...	J006	100292585	813208	0504.8119...	9/11/2...	10/2/2017	80000	46000	TECO MSP...	正常	57%
10000006	Machine_#...	J006	40000047	813648	TITANIUM ...	9/4/2019	10/19/2017	93000	90000	TECO PRC ...	正常	97%
10000006	Machine_#...	J006	40000019	813648	TITANIUM ...	9/12/2...	10/10/2017	100	0	TECO PRC ...	正常	0%

# Capacity adjustment

- JUST-SFDC can automatic adjust the capacity base on the machine status, the platform will provide the real time data include the machine OEE statics, the machine capacity is direct refresh by PLC via OPC technology.

Shade on Sun	Hour / Block	Gantt Chart Start Date	Jan-2013							
Yes	8	1/1/13 8:00	8	16	0	8	16	0	8	16
OP End	OP Earlier/Late(-)	Job No - Op No.	1/1 Tue	1/1 Tue	1/2 Wed	1/2 Wed	1/2 Wed	1/3 Thu	1/3 Thu	1/3 Thu
1/2/13 10:00	2.3	101-1	█	█	█	█				
1/3/13 12:00	1.2	101-2				█	█	█	█	
1/4/13 8:00	0.4	101-3							█	█
1/4/13 14:00	0.1	101-4								
1/3/13 12:00	1.2	102-1				█	█	█	█	
1/4/13 15:00	0.1	102-2							█	█
1/5/13 11:00	(0.7)	102-3								
1/5/13 17:00	(1.0)	102-4								

The screenshot displays the SFDC Platform interface. At the top, there's a 'Login' button and a table with columns: MachineName, Status, Job, StockCode, Start, Finish, PlanQty, ActualQty, Progress, PlanTime, ActualTime, and TimeProgress. A row for 'Machine\_#05' is highlighted with a red 'Down' status.

Below this is a 'Capacity Maintenance' dialog box. It contains a table with columns: MachineName, Status, Lot, PlanQty, ActualQty, Progress, PlanTime, ActualTime, and TimeProgress. The table lists several machines with their respective status (Normal), lot numbers, and progress percentages.

At the bottom of the main interface, there's a filter bar showing '[Job] = '400000014'' and a search bar.

# Performance

- With JUST-SFDC's OPC technology, each job assign to machine can be tracking the real time performance, you can get the 100% accurate information with minimal operator resource.



The screenshot displays the JUST PRO SFDC Platform interface. At the top, there is a navigation bar with a 'Login' button and a breadcrumb trail '0\_M\_Equipment>Machine\_#02'. Below this, there are filter options: 'Sort' (set to Date), 'Products', 'Include Complete Job', and 'Include Past due Job'. A digital clock shows '10/14/2019 3:14:29 PM'. The main area contains a grid of 12 job performance cards, each with the following fields: Job, Sku, Desc, Date, Plan, Actual, Progress (represented by a green bar), and Status (represented by a purple bar). The bottom of the interface features a toolbar with icons for Labor, Issue, Receipt, Kit Issue, Query, and Close, along with a search bar.

Job	Sku	Desc	Date	Plan	Actual	Progress	Status
40000033	813201	0504.8116CC2225RR	9/12/2019	29411	29000	99%	45%
40000032	813201	0504.8116CC2225RR	9/13/2019	6499	6499	100%	30%
40000034	813201	0504.8116CC2225RR	9/15/2019	29411	29000	99%	5%
40000054	813322	CANFOR 114" WHI/	9/15/2019	999000	Actual: C	0%	5%
40000044	824701	PP 0888 DTEX 36 CLR 2.5	9/17/2019	8800	5500	62%	99%
40000046	824701	PP 0888 DTEX 36 CLR 2.5	9/19/2019	30	0	0%	10%
40000048	824701	PP 0888 DTEX 36 CLR 2.5	9/21/2019	2000	1800	90%	30%
40000050	824684	PP 0888 DTEX 43 WH-	9/23/2019	8800	Actual: 5	66%	25%
40000052	813752	RHINOROF U20 042"	9/25/2019	66	66	100%	12%
40000056	813322	CANFOR 114" WHI/BLK	9/29/2019	120000	Actual: 0	0%	36%
40000059	829675	MM STANDARD 110 108"	10/3/2019	10000	Actual: 0	0%	33%
40000004	825163	1004.7148CC432	10/3/2019	580	Actual: 3	100%	100%

# Labor Capture

- In JUST-SFDC, each job assign to machine can be tracking the real time performance, the data can be capture via touch screen or automatic time attendance machine interface.



The screenshot displays the JUST PRO SFDC Platform interface. At the top, it shows a login field, a user icon, and the text "0\_M\_Equipment>Machine\_#02". There are filters for "Sort" (Date), "Products", "Include Complete Job", and "Include Past due Job". The date and time are displayed as "10/14/2019 3:15:45 PM". Below this, there are four job ID fields: "Job: 400000033", "Job: 400000032", "Job: 400000034", and "Job: 400000054".

The main section displays three large digital displays for time tracking:

- Plan Time: 10000
- Current Time: 8
- Total Time: 53

Below these displays are three buttons: "Start", "Stop", and "Close".

At the bottom, there is a table of job performance data:

Desc:	Date:	Plan:	Actual:	Progress:	Status:
RHINOROF U20 042"	9/25/2019	66	66	100%	12%
CANFOR 114" WHI/BLK	9/29/2019	120000	0	0%	36%
MM STANDARD 110 108"	10/3/2019	10000	0	0%	33%
1004.7148CC492	10/3/2019	580	580	100%	100%

The bottom of the interface features the JUST PRO logo and a navigation bar with icons for Labor, Issue, Receipt, Kit Issue, Query, and Close.



# Material Issue

- JUST-SFDC provide the different method to control the material issue during the shop floor include Barcode/ Weight / Counts, the actual transaction can be easy uploading to ERP system.



The screenshot displays the JUST PRO SFDC Platform interface. At the top, there is a header with 'SFDC Platform', a user profile, and a date/time stamp '10/14/2019 3:41:59 PM'. Below the header, there are filters for 'Sort' (Date), 'Products', 'Include Complete Job', and 'Include Past due Job'. The main content area features a table with columns for Job, Material, Desc, Line, Plan, and Actual. Below the table, there are buttons for 'Scan', 'Meteri', 'Weight', 'Count', and 'Close'. At the bottom, there are four summary cards for different jobs, each showing 'Date', 'Plan', 'Actual', 'Progress', and 'Status'.

Job	Material	Desc	Line	Plan	Actual
400000033	824663	PP 1260 DTE...	0020	1336.672	0
400000033	825700	THREAD PP 9...	0010	17.619	0

Plan Issue: 1336.672  
Actual Issue: 0

Summary Cards:

- Job: RHNOROF 020 042, Date: 9/25/2019, Plan: 66, Actual: 66, Progress: 100%, Status: 12%
- Job: CANFOR 114 WH/SLK, Date: 9/29/2019, Plan: 120000, Actual: 0, Progress: 0%, Status: 36%
- Job: MM STANDARD 110 108, Date: 10/3/2019, Plan: 10000, Actual: 0, Progress: 0%, Status: 33%
- Job: 1004.7148CC4324, Date: 10/3/2019, Plan: 580, Actual: 32000, Progress: 100%, Status: 100%

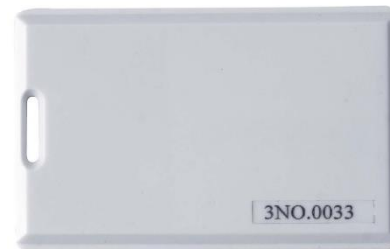
# Related Technology



PLC



RFID



Active Tag



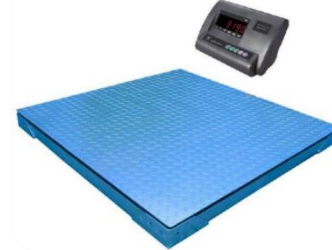
Passive Tag



Shop Clock In/Out



Electric Scan Card



Scale



Length Metering