



Empower Your Planning

Simplify, Strategize, Succeed

www.HBSmartFactory.com

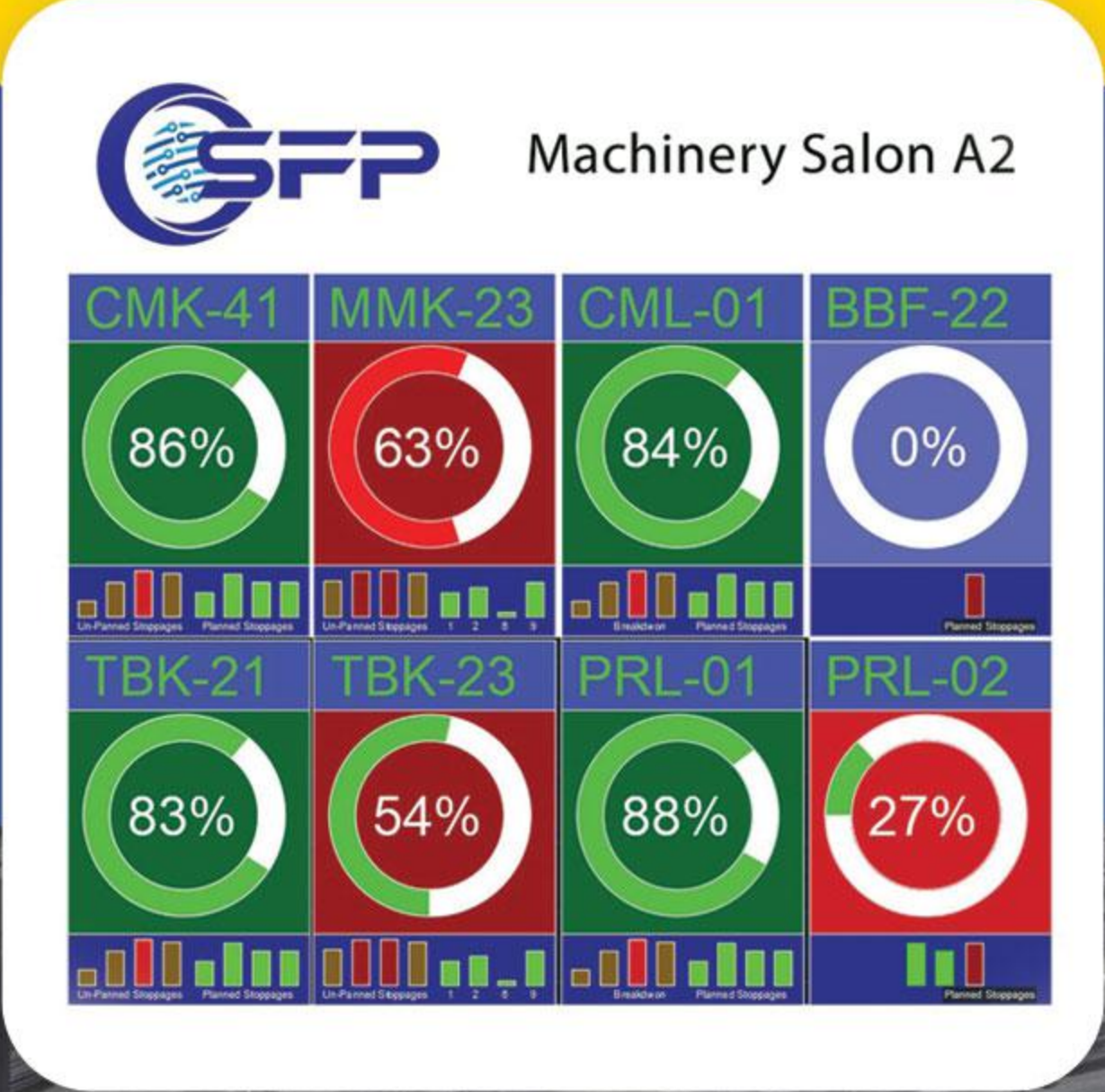
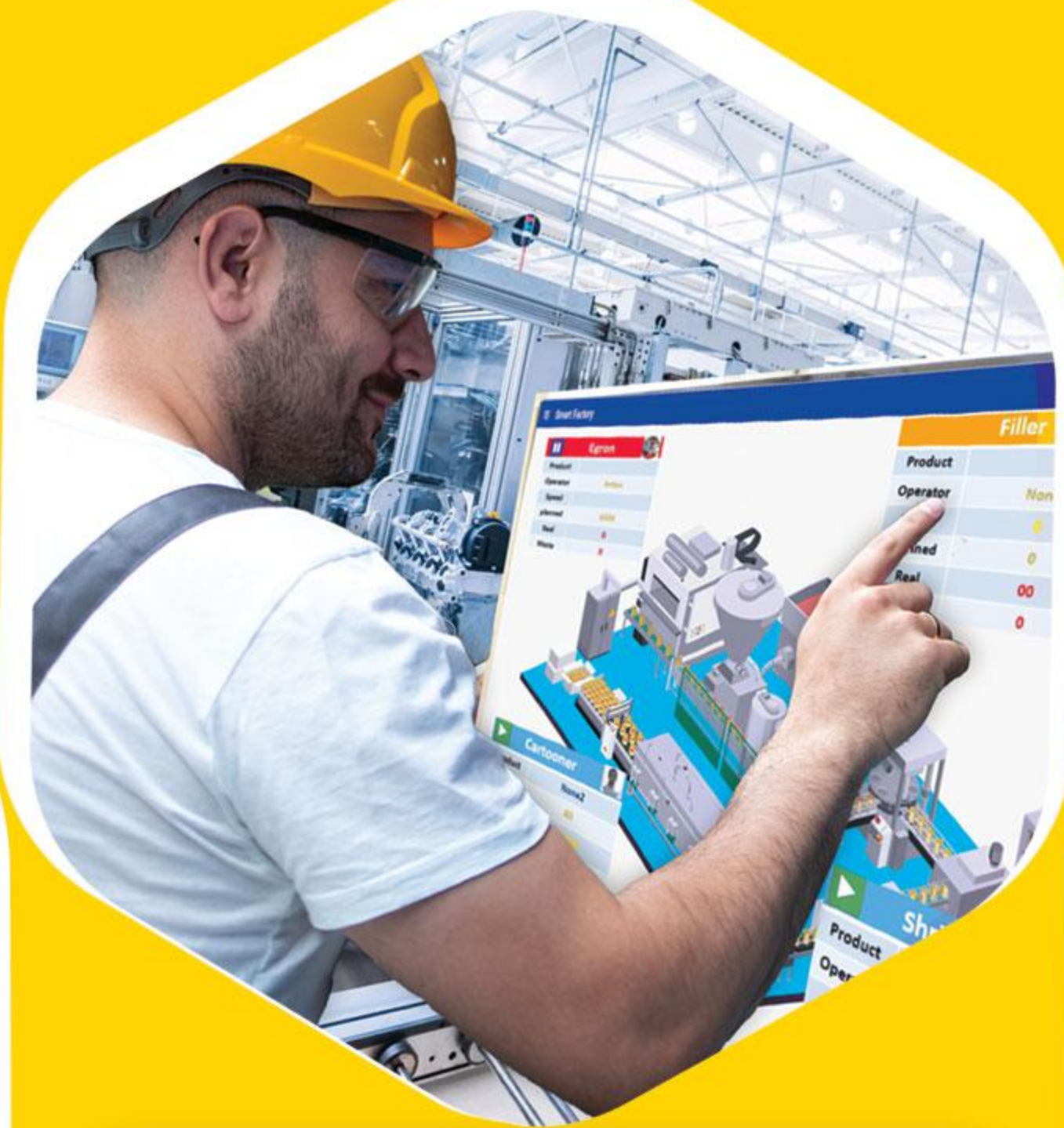


HB Smart Factory, founded by experienced professionals with over 20 years of collective expertise, offers innovative planning solutions for manufacturing companies. With a diverse team of software developers, AI specialists, and planning professionals, the company aims to revolutionize production planning by surpassing existing production planning software with SFP (Smart Factory Planning).

Recognizing the increasing significance of technologies such as ERP and AI in production, HB Smart Factory tackles the limitations of current planning software. Initially targeting the motor vehicle parts and other product manufacturing sectors worldwide, their AI-driven system revolutionizes production planning by streamlining processes, minimizing errors, and boosting efficiency. Key features encompass OEE and real-time monitoring, automated re-planning, precise performance metrics, employee empowerment, and knowledge retention. Ultimately, the SFP (Smart Factory Planning) Software aims to optimize factory production lines, ushering in smarter, more efficient planning practices across diverse industries.

Central to SFP's success in the manufacturing world is its emphasis on customization within its solution. The founders of HB Smart Factory firmly believe that reducing planning errors and increasing efficiency in production lines can be achieved simply by using customized software. Therefore, SFP is a customizable platform designed to be your user-friendly, dream planning Solution.





3 steps for start planning

Step one

Define the process and production pipeline, encompassing the factory timetable, machinery, human resources, and products. These vital elements serve as initial inputs for subsequent stages. Simplifying the definition of resource capacity in this manner can facilitate easier modifications for planners in managing capacity resources modification.



Step two

Modifying the best-fitted algorithm for the production process. Formulations and algorithms for two types of continuous and non-continuous production lines are pre-defined for the planning process. Additionally, the planning method's foundation will be queried in every weekly plan.

Step Three

Verify human resource availability and updates to the human resource patterns, leading to the generation of the plan accordingly.



What is Visual OEE?

An extremely effective method of automating OEE data collection and bringing real-time OEE and other key metrics to the plant floor and to managers and supervisors anywhere in your plan.



Steps to measure OEE and other real time data:

Using Wireless IoT devices to connect PLC or other sensors like one of these devices
 Adjusting the web service token for sending signals alongside machines to the SFP.

Planned stoppages and unplanned stoppages are listed. SFP will automatically list non-working hours according to your plan to calculate OEE.



Cloud-Based & On-Premier Deployment:

Seamlessly deploy in the cloud or on-premises, providing flexibility and scalability tailored to your organization's infrastructure.

- Web-Based Interface:

Enjoy a user-friendly interface accessible via web browser, allowing for convenient planning and collaboration from any desktop or laptop.

-Web Service Integration:

Effortlessly integrate with third-party web services to boost functionality and streamline workflows. Our software fully supports APIs, facilitating smooth communication and data exchange with other cloud-based platforms. This ensures seamless integration into your existing ecosystem.

- Mobile App for Android and iOS:

Access your planning tools on the go with our intuitive mobile app, available for both Android and iOS devices, ensuring productivity anytime, anywhere.

- AI :

Our platform leverages Artificial Intelligence (AI) to revolutionize data analysis and decision-making. Seamlessly integrated, AI optimizes processes, automates tasks, and fosters innovation, ensuring a transformative experience tailored to organization's needs.

- High-Level Security Measures:

Benefit from industry-leading security protocols, including encryption, multi-factor authentication, and robust access controls, ensuring the confidentiality and integrity of your data.



4 - 3D management dashboard & on-line charts



Most of charts and statistics are generated automatically based on predefined parameters.

The dashboard displays four donut charts for OEE (74.5%), Performance (79.6%), Availability (94%), and Quality (98.9%). Below these is a 3D factory layout with data pop-ups for 'Filler XM' and 'Jet Printer'.

Product	NONE1
Operator	Robinson
Speed	800/min
planned	8500
Real	4500
Waste	26

Product	NONE1
Operator	Ali
Speed	800/min
planned	8500
Real	4300
Waste	22

The 'Smart Factory' dashboard shows a top navigation bar with four status indicators: 6611 (Work Plan), 2960 (Work Product on), 175 (Work Product), and 286:13 (Work Time). The main area contains three charts: a line chart, a bar chart, and a smaller bar chart.

The 3D layout shows four machines with their respective data pop-ups: Filler XM, Mixer, Hoper, Jet Printer, and Clincher.

Product	NONE1
Operator	Anton
Speed	800/min
planned	8500
Real	4300
Waste	45

Product	NONE1
Operator	Anton
Speed	800/min
planned	8500
Real	4300
Waste	56

Product	NONE1
Operator	Anton
Speed	800/min
planned	8500
Real	4300
Waste	56

5- Customized MRP and MPS



MPS, or Master Production Scheduling, stands as one of the cornerstone tools for translating sales requirements into actionable plans.

In the execution of MPS, the organizational strategy, which revolves around either Make-to-Stock (MTS) or Make-to-Order (MTO) approaches, holds immense significance. However, a blend of both strategies might be viable, depending on the context.

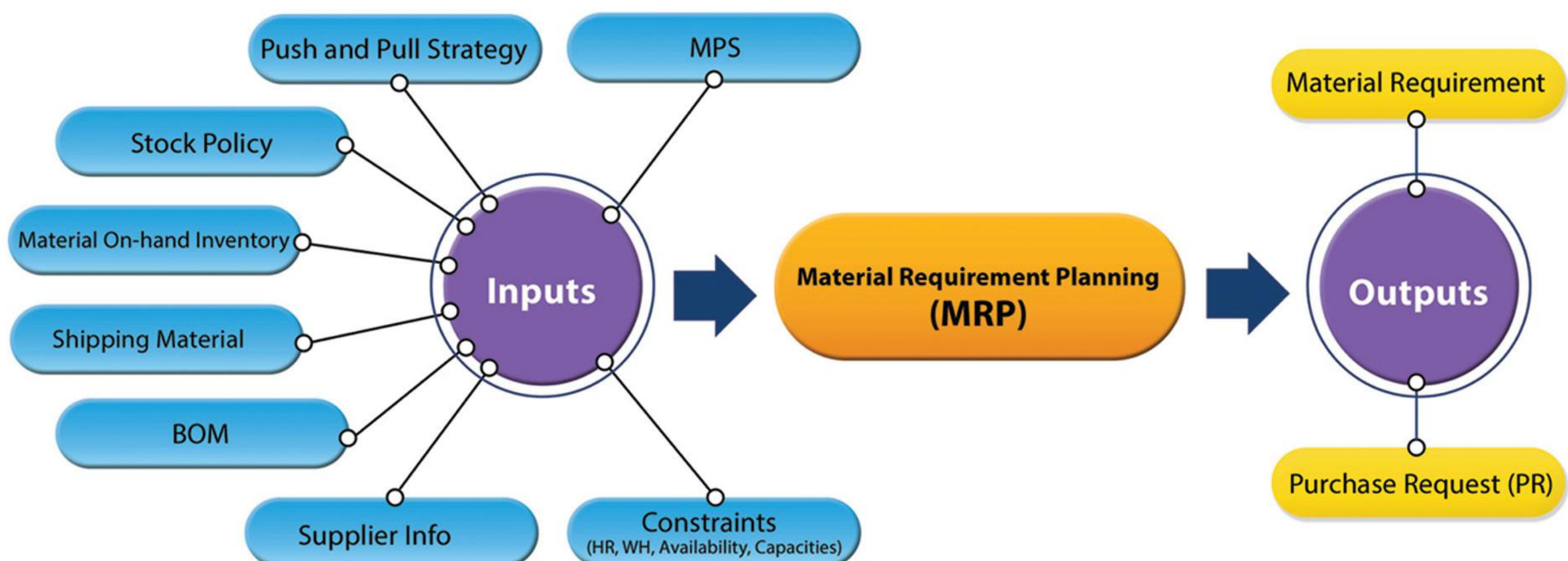
Moreover, determining inventory holding levels stands as a critical decision that significantly impacts operations.

Throughout MPS calculations, variables such as warehouse capacity, production constraints, human resources availability, and the trajectory of development plans or sales trends all wield considerable influence and can potentially reshape calculations.

MRP, or Material Requirements Planning, serves as a pivotal tool for calculating and forecasting the necessary raw materials for the organization.

In essence, leveraging the Bill of Materials (BOM), MRP computes the requisite materials based on MPS.

During MRP implementation, factors like inventory holding targets, purchased material capacities, and the financial health of the organization carry weight. Concurrently, supplier details such as Lead Time (LT), Batch Size (BS), and Minimum Order Quantity (MOQ) play a fundamental and influential role.



6- Auto Assign Task



All expert operators with designated priorities will receive their daily job descriptions via their phones one week in advance, with daily updates provided. Employees and operators have the right to be informed about their roles and benefits in achieving targets. Additionally, a fair promotion system is automated with the SFP.

Managers can communicate with operators via chat and easily assign any unplanned tasks for specific machines or shifts as needed.





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