

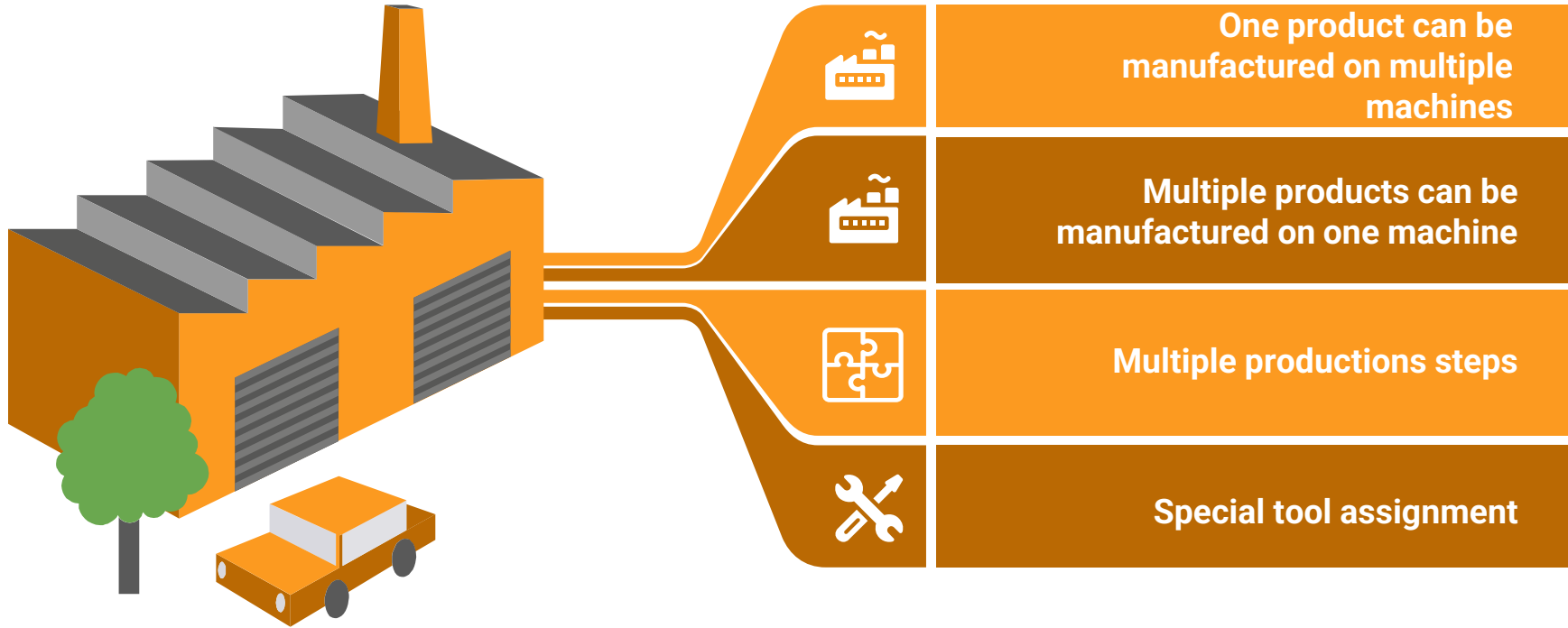
CAADPRO BY CAAD^{EX}

PRODUCTION OPTIMIZATION & PLANNING

With the help of this system can optimize of the production and the planning of our factory.



Possibilities of CAADPRO



Several machines can be present in one factory, plenty of products can be manufactured on them, and a production of one product can contain several steps. Some machines could require some type of special tools as well. However, our solution can handle all dependencies.

Input data

The software requires input data. We can create machines groups, in machine groups we can create our machines we can name it and add shifts to them and optionally we can add its working cost. Separately from this we can create our Products. After all we gather the information about the orders from an ERP. These information could include the customer names, products, production quality, shipping quality, priority, and all the key dates.

Machine Group browser x Production Step browser x

Default filter Custom filter...

Production Step browser

Create Edit Remove Excel 23 rows

Machine	Product	Step number	Step name
Marógép Fanuc Robodrill 3	O-Ringtraeger (06M 121 432 C	3	Marás
Marógép Fanuc Robodrill 3	O-Ringtraeger (0P2 121 085-2	1	Marás
Marógép Fanuc Robodrill 3	Stutzen (0P2 121 075 E-2)	1	Marás
Marógép Fanuc Robodrill 2	O-Ringtraeger (06M 121 137 F	5	Marás
Marógép Fanuc Robodrill 2	O-Ringtraeger (059 121 065 E	1	Marás
Marógép Fanuc Robodrill 1	O-Ringtraeger (06M 121 083 I	4	Marás
Marógép Brother Speedio 3	O-Ringtraeger (06M 121 481 I	3	Marás
Marógép Brother Speedio 2	Flansch (06M 121 481 L-3)	2	Marás
Marógép Brother Speedio 1	O-Ringtraeger (06M 121 071 I	3	Marás
Marógép Brother Speedio 1	Sensoraufnahme (4N0 145 B7	1	Marás
Marógép Brother Speedio 1	Flansch (06M 121 071 E-3)	1	Marás
Eszterga JNC Star 1	O-Ringtraeger (0P2 121 164-2	2	Esztergá
Eszterga JNC Star 1	O-Ringtraeger (0P2 121 193-2	1	Esztergá
Eszterga Citizen Miyano 2	O-Ringtraeger (0PD 121 397 C	4	Esztergá
Eszterga Citizen Miyano 2	O-Ringtraeger (0PD 121 508 C	3	Esztergá
Eszterga Citizen Miyano 2	Lötstutzen (0PD 121 163 D FL	2	Esztergá
Eszterga Citizen Miyano 2	O-Ringtraeger (0PB 121 469 E	2	Esztergá
Eszterga Citizen Miyano 2	O-Ringtraeger (9A2 106 625 3	1	Esztergá

Order browser x

Default filter Custom filter...

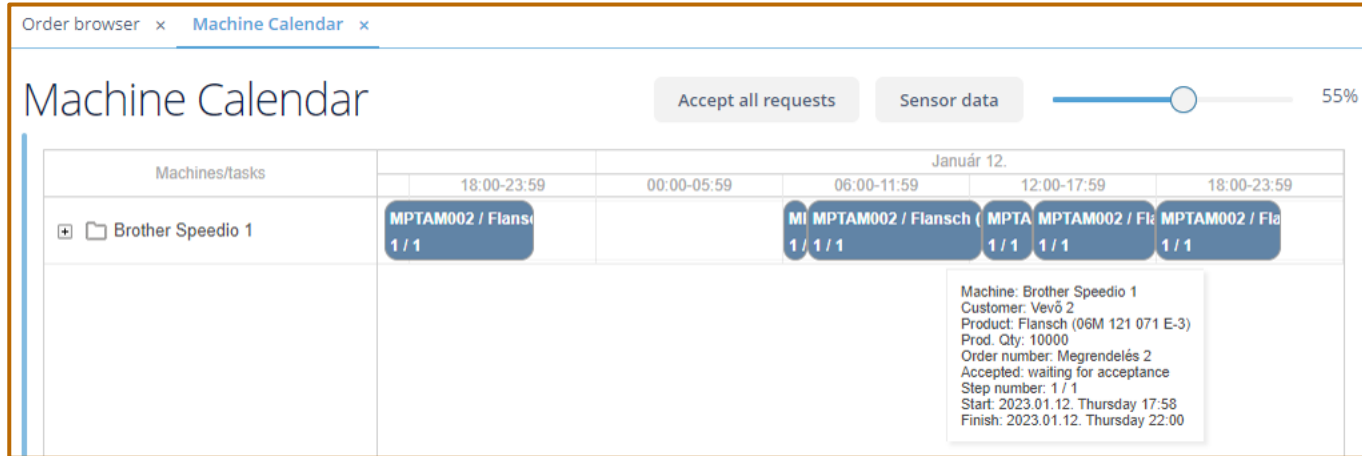
Order browser

Show original orders Show production tasks

Create Edit Remove Excel Reject Order separation Optimization 23 rows

Selected	Order status	Work number	Order number	Customer	Product	Prod. Qty	Ship. Qty	Pri
<input type="checkbox"/>	New	MPTAM023	Megrendelés 2	Vevő 3	O-Ringtraeger (0P2 121	2000	2000	
<input type="checkbox"/>	New	MPTAM022	Megrendelés 2	Vevő 2	O-Ringtraeger (0P2 121	1500	1500	
<input type="checkbox"/>	New	MPTAM021	Megrendelés 2	Vevő 1	Snellkuplung (06M 121	7000	6800	
<input type="checkbox"/>	New	MPTAM020	Megrendelés 2	Vevő 4	O-Ringtraeger (9A2 106	800	800	
<input type="checkbox"/>	New	MPTAM019	Megrendelés 1	Vevő 3	O-Ringtraeger (0PB 121	1500	1300	
<input type="checkbox"/>	New	MPTAM018	Megrendelés 1	Vevő 2	O-Ringtraeger (0PD 121	200	200	

Results of optimization



After all the required data, the optimizer is able to run. After a successful run we see the results in the machine calendar. We have two choices before the running, we can choose to optimize on the fastest way or on the least cost way.

Main output

Order browser x Machine Calendar x **Daily plan view** x

Machine: Marógép Brother Speedio 1 | Date: 2023.01.12 | Shift: All Shifts (06:00 - 22:00)

Daily plan view

2023.01.12. Thursday - Brother Speedio 1 - All Shifts

[Create](#) [Excel](#) [Remove](#) Display nonproductive time 5 rows

Start	Finish	Working hours	Order number	Ship. Qty	Step name	Name	Current state
2023.01.12 06:00	2023.01.12 06:46	0,767	Megrendelés 2	8000	Marás	Flansch	Started
2023.01.12 06:46	2023.01.12 12:22	5,6	Megrendelés 2	8000	Marás	Flansch	Started
2023.01.12 12:22	2023.01.12 14:00	1,633	Megrendelés 2	8000	Marás	Flansch	Started
2023.01.12 14:00	2023.01.12 17:58	3,967	Megrendelés 2	8000	Marás	Flansch	Started
2023.01.12 17:58	2023.01.12 22:00	4,033	Megrendelés 2	8000	Marás	Flansch	Started

The main output of the system is a table where we can see, which machine will work, when, on what, for which order, and what is the quantity and the deadlines for it.