Did you Know?

Net Productivity – A performance figure that helps you to monitor your production

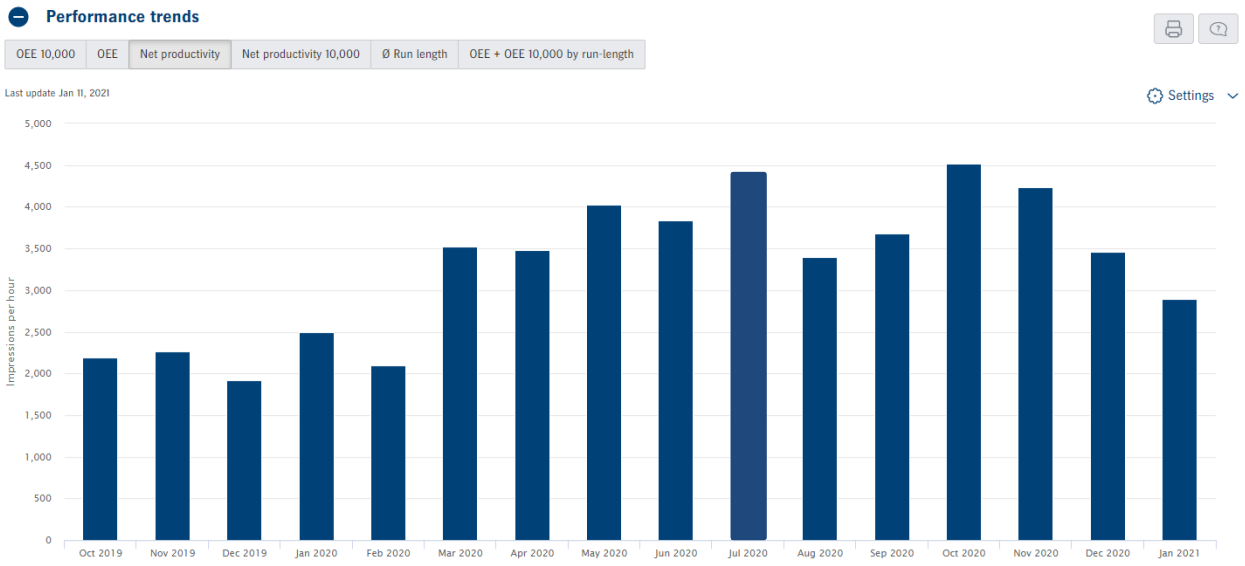
Explanation

The Net Productivity Number is the relation between the good impression and the operating time. This number shows you the average number of sheets which are produced per hour while machine turned on. It provides an indication about the productivity of the press. The higher the Net Productivity, the better is the performance of the press.

Note:

The Net Productivity is not the same number as the Net Output. For the Net Output, please check the following article.

Chart



Calculation

Net Productivity	**=**	**Net Impressions / Operating time**
Net Impressions	=	*Number of produced good sheets*
Operating time	=	*time machine is switched on*

Influencing Parameters

Looking on the formula, the Net Productivity can be improved by either increasing the Net Impressions or reducing the Operating time.

Depending on the number of jobs you are producing, you have different options. If you have more jobs than you can produce, it makes sense to work on improving the Net Impressions while keeping the Operating time on the same level. This helps you to produce more jobs at the same time and increase your Production.

If you do not have enough jobs that can be additionally be printed, you can work on reducing the operating time thus saving costs.

No matter if you want to increase the Net Impressions or decrease the Operating time, most of the measures are the same. It strongly depends on your order intake situation.

In the following, you will learn which parameters can be changed to help improve the Net Productivity:

Average Printing Speed

Increasing the average running speed allows you to produce more sheet in the same time. Thus, you will be able to either reduce the operating time of the press or use the gained time to produce additional jobs.

Make-ready time

The make-ready process is one of the most time-consuming processes during print production. It is more important the more make-ready's you have, as every make-ready means additional time that cannot be used to produce good sheets. So, the higher your number of make-ready's (the more print jobs you print), the more time you can save by improving the make-ready process and use for printing additional good sheets.

Other Time

The Other time includes all the actions which are necessary to prepare the press for the next job. It is the time span between the last printed sheet and the following plate change of the new job. The other time together with the make-ready time are the most time-consuming processes in a print shop. Just like the make-ready time, the other time will increase with the number of jobs printed. With a smart internal supply chain and good job planning in prepress, along with well-trained employees, the other time can be reduced dramatically.

Standstill time

Another very important factor is the standstill time. The standstill time defines the time the machine is switched on, but no one is working. This time includes breaks but also waiting times for printing substrates, plates or other missing materials or information.

Customer Benefit

The Net Productivity allows you to keep an eye of the efficiency of your print shop with using only one KPI. It is displayed in sheets per hour and basically shows you how many sheets you are printing in average through the complete time the machine is switched on.

Priority

High

Ideal direction

up