

FIXATOR clamping system

Using the FIXATOR can save you both time and money. The following example illustrates the enormous potential savings and the template on page 2 offers you the possibility of calculating for yourself how much money you could potentially save.

Expenditure to date **without** the use of the FIXATOR when using a tool with 8 compartments and performing one measurement procedure per shift

	1 SHIFT	2 SHIFTS	3 SHIFTS
Equip bar with 8 pieces for measuring procedure and secure in place	2.5 min.	5 min.	7.5 min.
Remove clay or adhesive residues from pieces (8 × 1 minute)	8 min.	16 min.	24 min.
Total time	10.5 min.	21 min.	31.5 min.
Per month (20 workdays)	210 min.	420 min.	630 min.
Per year (220 workdays, 11 months)	2.310 min.	4.620 min.	6.930 min.
In hours	38.5 h	77 h	115.5 h
Wages at € 40/h	€ 1,540	€ 3,080	€ 4,620
Annual cost for 20 machines	€ 30,800	€ 61,600	€ 92,400

Your potential savings **when** using the FIXATOR

	1 SHIFT	2 SHIFTS	3 SHIFTS
Install 8 FIXATORS	1 min.	2 min.	3 min.
Remove clay or adhesive residues from 8 pieces	Not necessary	Not necessary	Not necessary
Total time	1 min.	2 min.	3 min.
Per month (20 workdays)	20 min.	40 min.	60 min.
Per year (220 workdays, 11 months)	220 min.	440 min.	660 min.
In hours	3.6 h	7.3 h	11 h
Wages at € 40/h	€ 144	€ 292	€ 440
Annual cost for 20 machines	€ 2,880	€ 5,840	€ 8,800
Annual savings Delta (Δ) + X	€ 27,920	€ 55,760	€ 83,600

Example calculation: Injection moulding company with 20 injection moulding machines. The default values come from the customer and have been rounded up accordingly. (X) The potential savings are calculated based on conservative data. Further aspects such as process reliability, avoidance of contamination in the measuring room, machine utilisation, flexible deployment of workforce through imaginably most simple operation and increased quality through ruling out of erroneous measurements were not taken into consideration in the calculation.

Determine your own potential savings

	BISHER	MIT FIXATOR
How long do you need to prepare a piece for a measurement?	Minutes (t1)	Max. 3 seconds ± 0.05 minutes (t1)
How long do you need to clean a piece after the measurement?	Minutes (t2)	0 minutes (t2)
How many measurements are performed per shift?	No. of measurements (M)	No. of measurements (M)
How many shifts do you operate?	No. of shifts (S)	No. of shifts (S)
Calculation (t1 + t2) · M · S = t3	Minutes per day (t3)	Minutes per day (t3)
Minutes per year (t3 · 220 workdays)	Minutes per year (t4)	Minutes per year (t4)
This corresponds to the following number of hours (t4 ÷ 60)	Hours per year (h)	Hours per year (h)
What hourly wage applies?	€ per hour (a)	€ per hour (a)
Annual cost in wages for one machine (h · a)	(a1)	(a1)
How many machines are in use?	(Z)	(Z)
Wages for all machines (a1 · Z)	€ expenditure	€ expenditure
Potential annual savings (to date ./ FIXATOR)	€ per year*	

* You can assume that any piece can be clamped process-capably by absolutely anyone within max. 3 seconds (0.05 minutes). The calculation only takes the saved wage costs into consideration. Further aspects such as process reliability, avoidance of contamination in the measuring room, machine utilisation, flexible deployment of workforce through imaginably most simple operation and increased quality through ruling out of erroneous measurements were not taken into consideration in the calculation.

The FIXATOR clamping system

Faster, more efficient, more precise – cost-efficiency that never fails to impress.



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