



# Time Study Software

The software allows to conduct time studies for production processes. The program meets the guidelines of REFA, Germany's leading association in the field of industrial engineering. We recommend that only employees trained in time studies will use the program. The software may be adapted to your specific needs.

## Main features of the program

Process times and performance ratings may be entered quite easily and fast via touchscreen.

The program is well suited for performing time studies for all types of production processes, e.g. cyclical, progressive and irregular work sequences.

It is possible to enter the description of the process sections during the time study. Therefore the software is also suited for time studies of single piece production and set-up work.

The extension of the scope of running time study is always possible by adding further process sections and cycles, even during the time study.

Interruptions and unexpected auxiliary process steps are easy to record.

The screen mask is designed well structured, which makes the operating convenient and prevents incorrect input.

The screen mask can be shown in different versions, which eases the handling.

The calculation of time data (single times  $t_i$ , basic time  $t_g$ , time per unit  $t_e$ ) happens permanently during the time study for each individual process section and for the entire time study.

The statistical evaluation (confidence level  $\epsilon$ ) of each process section and of the entire time study is automatically after every input.

User who deal with time studies only sometimes, will be able to run the program intuitively and after only a short time.

Independence of hardware enables a high flexibility in regard of the requirements of the particular application.

Utilization of e.g. tablet PC, iPod, PDA, etc. as input devices are possible.

Interface with foreign PPS software is possible.

Screen masks are available in German and English language. Screen masks may be translated easily in various languages.

SQL data base (MS SQL 2005, Oracle), computer language C#, .Net platform, operating system (Windows 7, Windows XP)





## **Advantages and benefits**

No reading mistakes or writing mistakes during time recording

Prevention of calculation errors during the evaluation of the time study

The screen masks are structured logical and transparent, which facilitates the handling.

Scope of time study will be limited to necessary number of cycles, because obtained confidence level  $\epsilon$  is displayed at any time.

The effort for evaluation of the time study is reduced, because all the data are calculated by the program automatically. The user will not be bothered by routine work.

The original of the time study will be saved as non-changeable data.

Easy and intuitive handling enables users, even with less practice, to perform time studies successful by using a touchscreen.


Consideration of your company's internal requirements by high flexibility of hardware and by adaptations of the program.

Choosing the optimum hardware results in reduced costs.

The modern technology, which is used by us, supports a quick adaptation of future developments.

Very competitive price-performance ratio.

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filing: FRYINGSAUSAGE		<b>WIFAS Time Study</b>		version-no: 3.1.1.1.1	
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job: Flying Sausage					
order-no: 201713	quantity from factory order: 500	department: 1004		costcenter: 14	
date of time study: 01.03.2012		start: 10.02.2012 17:31	end: 10.02.2012 17:28	duration (min.): 7	
	collection of times per unit			time min.	source
	01. add. time per unit			0,01	time study
	02. add. time per unit			0,00	
	03. add. time per unit			0,00	
	04. basic time tg			0,01	
	05. break ter %			0 %	0,00
	06. additional time tv %			0 %	0,00
	07. other %			0 %	0,00
	08. time per unit te l			0,01	
	09. 10 units te 10			0,07	
	10. 100 units te 100			0,73	
	11. 1000 units te 1000			7,30	
	12. set-up time tr			0,00	
work method and proceeding					
hydro-cutter, vacuum-filler, esepa-line					
name	material	condition at input	drawing-no.	material no.	metrics, shapes, weight
frying sausage	frying sausage	New	recipe 1017	1017	batch no. 1017-120221
name	personnel number	sex	age	duration of exercise	
C. Bram	23081	male	49	very good	21 years
Frank Clark	17809	male	58	good	29 years
Susan Fergusson	21429	female	32	good	5 years
definition, type	quantity	equipment no.	year of building	technical data, condition	
mincer	1	285	2002	REX-Mincer D	
cutter	1	306	2001	Alexander 1001	
filler	1	438	2005	Handmann F80	
cyrovac	1	509	1999	Cyrovac 3001	
environment influences: good conditions				payment: no piece rate	
remarks: sometimes delay by preparation of materials					
quality of output: good output					
arranger: Mr. Hoendgesberg	proved: Mr. Schroeder	date: 13.02.2012	effective from: 01.03.2012	until: 28.02.2013	