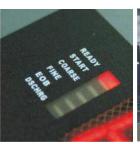


BAYKON SQC Statistical Quality Control

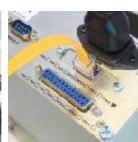












BAYKON SQC SOFTWARE





WHY BAYKON SQC?



What is net weight control?

Ensuring net weight tolerances of prepacked products according to European Directives 76/211/EEC - 75/107/EEC

Monitoring of the missing and excessive weighing risks during production process and taking corrective measures.



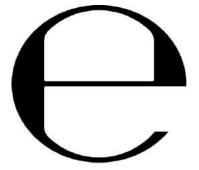
WHY BAYKON SQC?



What does net weight control relate to?

- Compliance with directives and regulations
 Ensuring regulation on weight and volume control of prepacked products, GMP,....
- Unintentional incomplete filling Company image
- Unnecessary overfilling Profitability
- Control production process

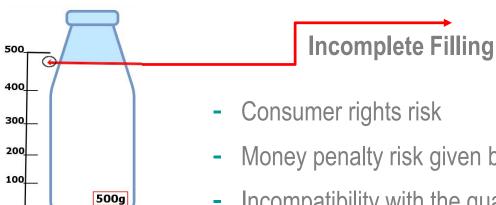
 Performance analysis, corrective intervention
 and adjustments, maintenance of filling machines
- Calibrated traceable equipment
- Human factor management
 Trained staff for duty



WHY BAYKON SQC?



Why we monitor and check net amount?





- Money penalty risk given by authorities
- Incompatibility with the quality system





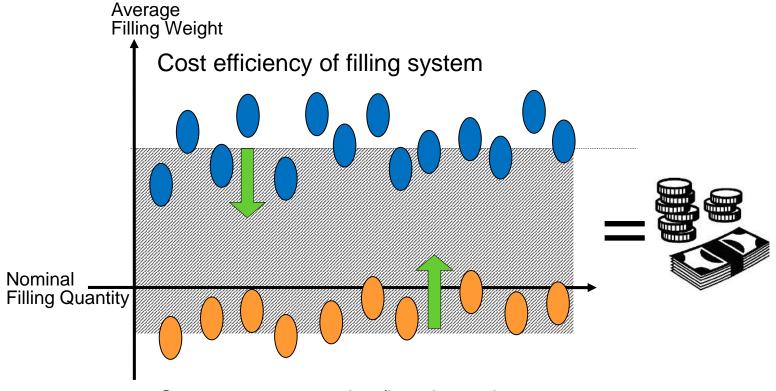


NET WEIGHT CONTROL



Target of net weight control

- Minimizing the distribution of production
- Optimizing average weight



Consumer protection/legal requirements

EXCESS FILLING



Excess filling cost

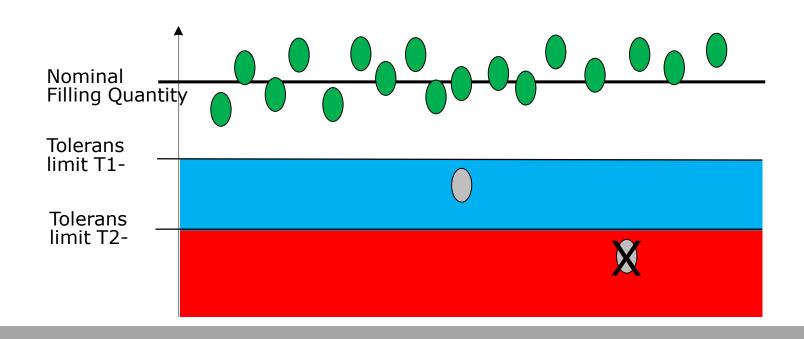
1 kg price of the material	10	USD	A
Package quantity produced in one day	100.000	pieces	В
Nominal filling quantity	100	gr	C
Number of days in per year	250	days	D
The average value of the product filling	101	gr	Е
Consumption of the machine	2	gr	F
Excess filling per package	1	gr	H = E - C
Excess filling per day	100	kg	$I = B \times H/1000$
Excess filling per year	25.000	kg	$J = D \times I$
Cost of excess filling per year	250.000	USD	$K = A \times J \times 1000$

EU REGULATION



- The average weight of a party has to be equal or greater than the declared weight of package
- The amount of incomplete filling between T2 and T1 should not exceed certain limits.
 - * the number of samples should be approx. in % 2
- No product can be below T2 limit



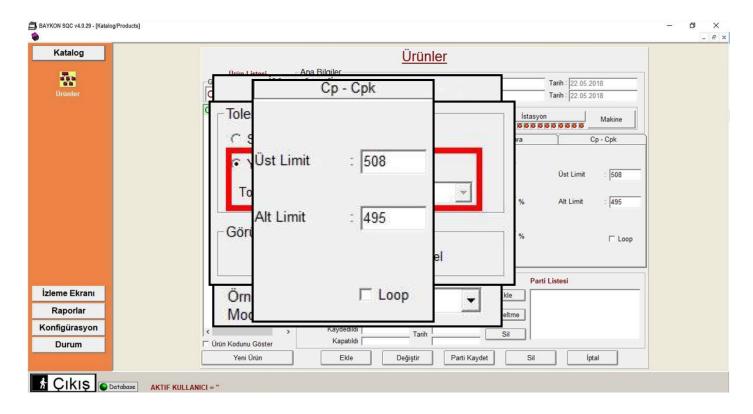


SPC MODULE



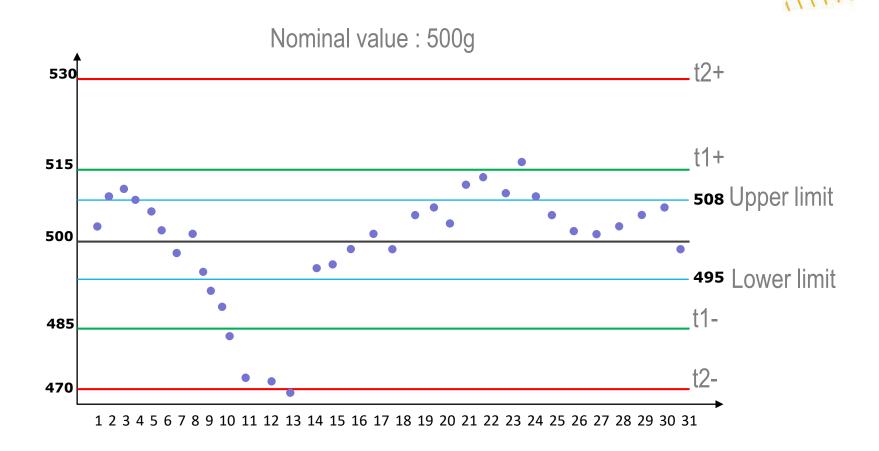
SPC module provides appropriate statistical methods during production to support control of filling process and maintenance activities.

Thus, prevents operation and product errors, reduces maintenance costs and increases productivity.



SPC MODULE

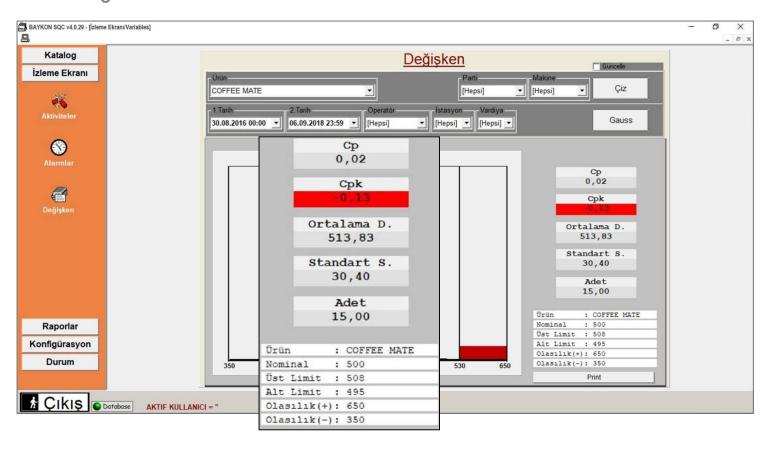




SPC MODULE



The results of the SPC module can be monitored online from the monitoring screen.



DIRECTIVE: EU



EU tolerance system

Nominal quantity		t1- (nominal quantity)		
	g o	r ml		
			% nominal	g or ml
5	-	50	9	
50	-	100		4.5
100	-	200	4.5	
200	-	300		9
300	-	500	3	
500	-	1000		15
1000	-	10'000	1.5	

DIRECTIVE: EU



EU Tolerance System

Non-destructive sampling plan for individual values

Packages which are larger than the negative error are considered defective.

Party Size	Number of samples			Number of allowed numbers	
	Serial	Piece	In a row	Accept	Rejectn
100-500	1.	30	30	1	3
	2.	30	60	4	5
501-3200	1.	50	50	2	5
	2.	50	100	6	7
≥ 3201	1.	80	80	3	7
	2.	80	160	8	9

DIRECTIVE: EU



EU average value criterion

The average weight of the party should be equal or greater than the declared weight of the package.

Destructive testing, average value sampling plan.

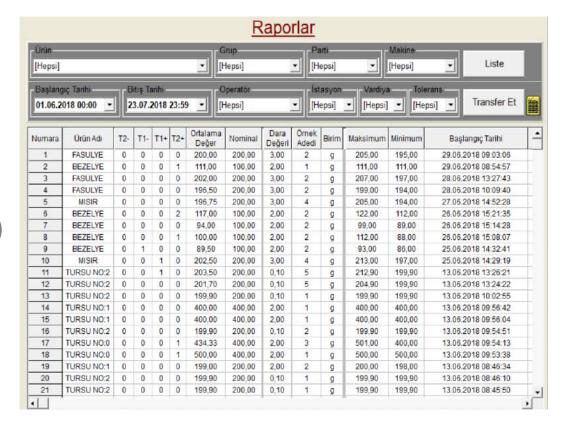
PartySize	Number of Sample	Criterion		
		Accept	Rejection	
100 to 500	30	X ≥ Qn - 0.503s	\overline{X} < Qn - 0.503s	
> 500	50	X ≥ Qn - 0.379s	X< Qn - 0.379s	

EU REGULATION



Nominal weight
Sampling Date/Time
Tolerance system
Product name
Number of Samples
Number of tolerance
violations

Operator name (optional))
Target weight
Average value of samples
Standard deviation
Average tare weight
Tare deviation (optional)



CHECK STATION







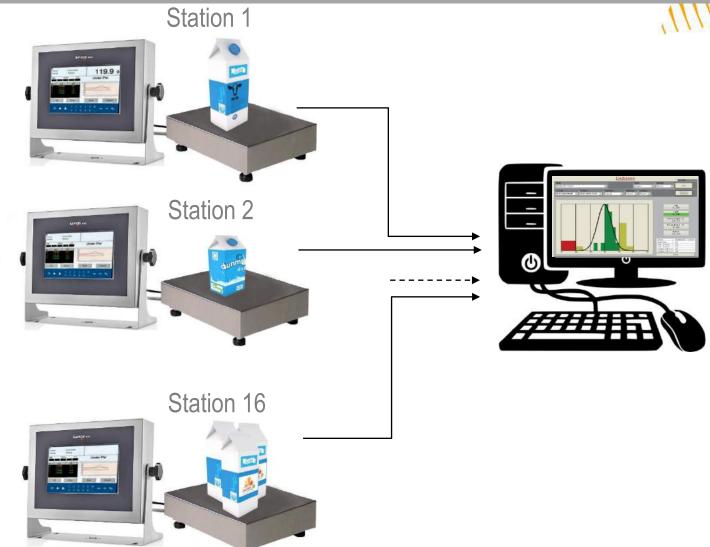
Industrial scale with BX65-SQC Terminal

Barcode/ RFID reader



SYSTEM STRUCTURE





ONLINE CONTROL



Office

Multi-user Quality Control and average weight system to monitor the net content of your packaged products during filling and packaging.

Online monitoring of your production



ONLINE CONTROL



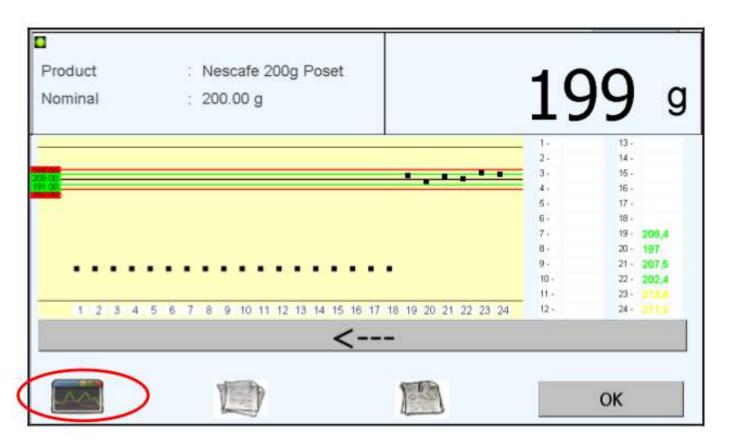
Weighing results are indicated by colors and graphics to alert the operator.



ONLINE TRACEABILITY



Average values of samples and graphical representation of these samples can be viewed by pressing the corresponding button.



AUTO REGISTRATION



All actions are recorded automatically.



All the weighing records that provide informative reports and statistical evaluations in real time automatically saves.

TRACEABILITY



Recording of each weighing result on the central computer allows the production / quality control manager to monitor it instantly.

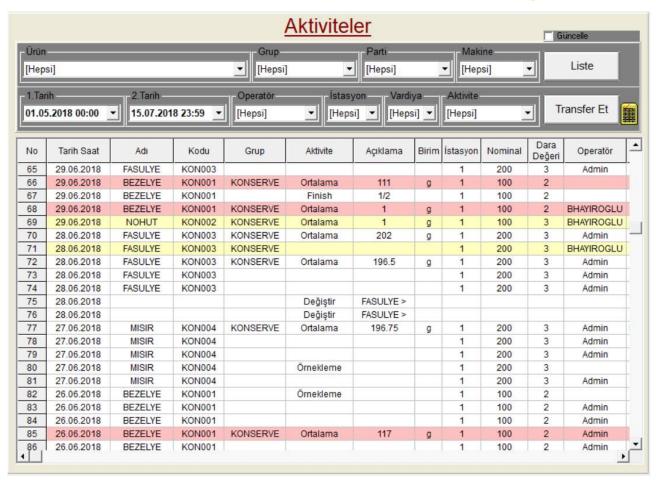


RESULTS



Acceptable erroneous results by yellow, incongruous by red color creates automatic effective monitoring.

For detailed information, the relevant line is clicked.



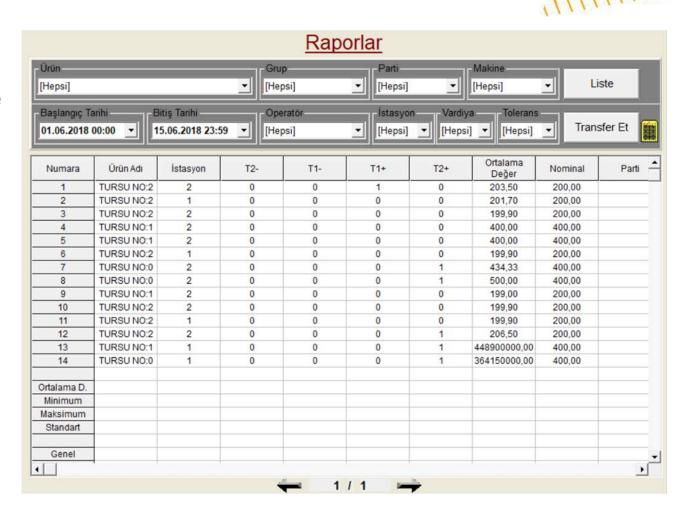
REPORTS



Reports between any 2 dates informing Product code, Batch no, Machine no etc. can be given.

Different type of reports can be configured to address different managers depending on their interests and responsibilities.

Reports can be exported as Excel file.

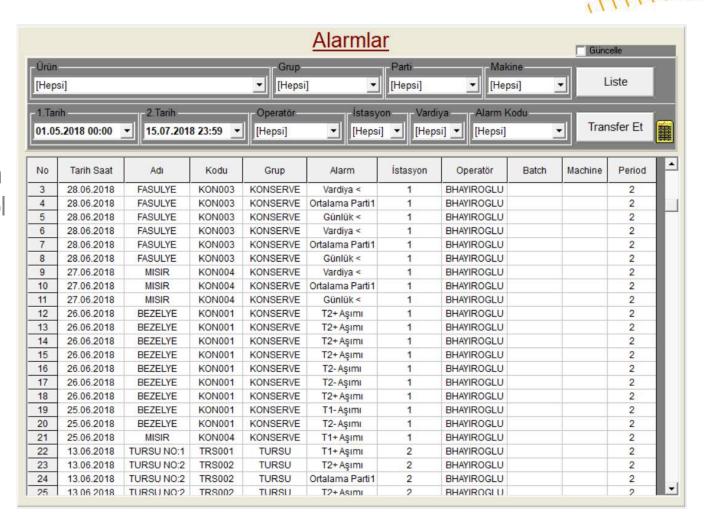


ALARMS



Determined nonconformities can be monitored.

Thus, the production and/or quality control manager will immediately notice the problem with the production.





Danke sehr!

multumesc!

الشكر لك!

谢谢!

Thank you!

Merci!

спасибо!

obrigado!

आपको धन्यवाद देता हूं!

Gratias!

Teşekkürler!









