king slat tablet counters
fast, accurate and reliable

Model SC6L
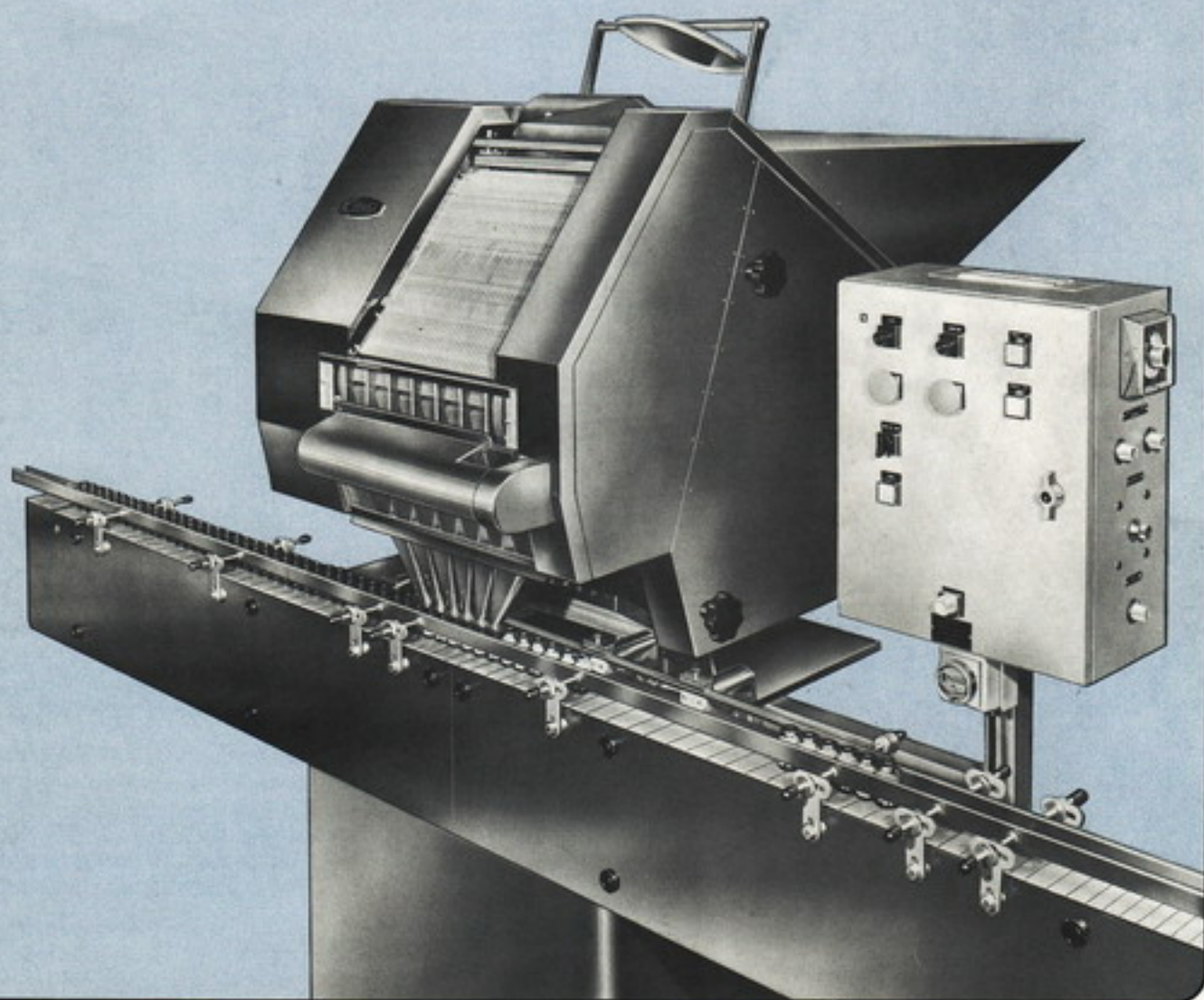
why a king slat tabl

Gentle handling
The tablets are cradled in cavities

Accurate count
Positive pick-up of individual tablets

Easy cleaning
Smooth surface, no blind corners, sub-assemblies easily removed.

Simplicity
Operator can changeover and set up machine

Low cost
The most economical way of packaging tablets

Versatility
*Suitable for all shapes and sizes of tablet, soft/hard gelatine capsules.*

Over 400 installations worldwide

Why a slat counter?

As a method of counting all shapes and sizes of compressed tablets, dragees and soft and hard gelatine capsules the KING slat counter is unsurpassed in speed and accuracy. The design of the moulded plastic slats ensures gentle handling of the product and incidence of broken tablets is reduced to a minimum — much more gentle than disc counters! Slats are easily removed by the operator and changeover time from one set to another can be less than 20 minutes.

The product can be positively ejected from the slat into the container, preventing misshapen tablets and broken pieces from lodging in the slat cavities.

A visual check area can be easily scanned by the operator in order to inspect the product and confirm count accuracy. Alternatively, an electronic scanning unit can be mounted to check that every cavity is filled, and incorrect containers can be ejected.
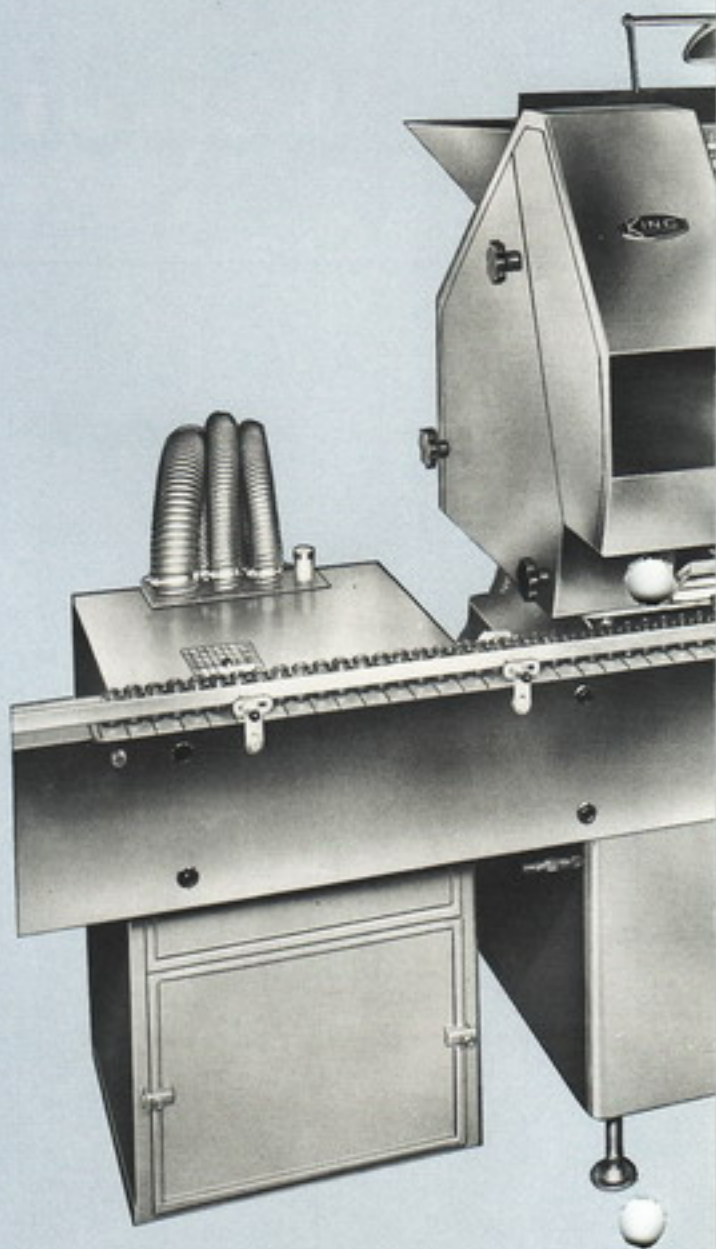
Special advantages of KING counting slats

Slats are made from an anti-static, FDA approved material which is completely neutral to all pharmaceutical products. They are injection moulded which ensures accuracy and reduces costs. This enables KING to offer immediate delivery of standard slats. Once moulded, a slat is always in stock.

Single or multi rows of cavities are moulded into each slat width which means that maximum outputs are obtainable.

Customers' products can be tested on a wide range of standard slats which are suitable for most conventionally shaped products. Substantial variations in product size can frequently be handled on the same slat. Very large tablets can be handled on a special 38mm wide slat.

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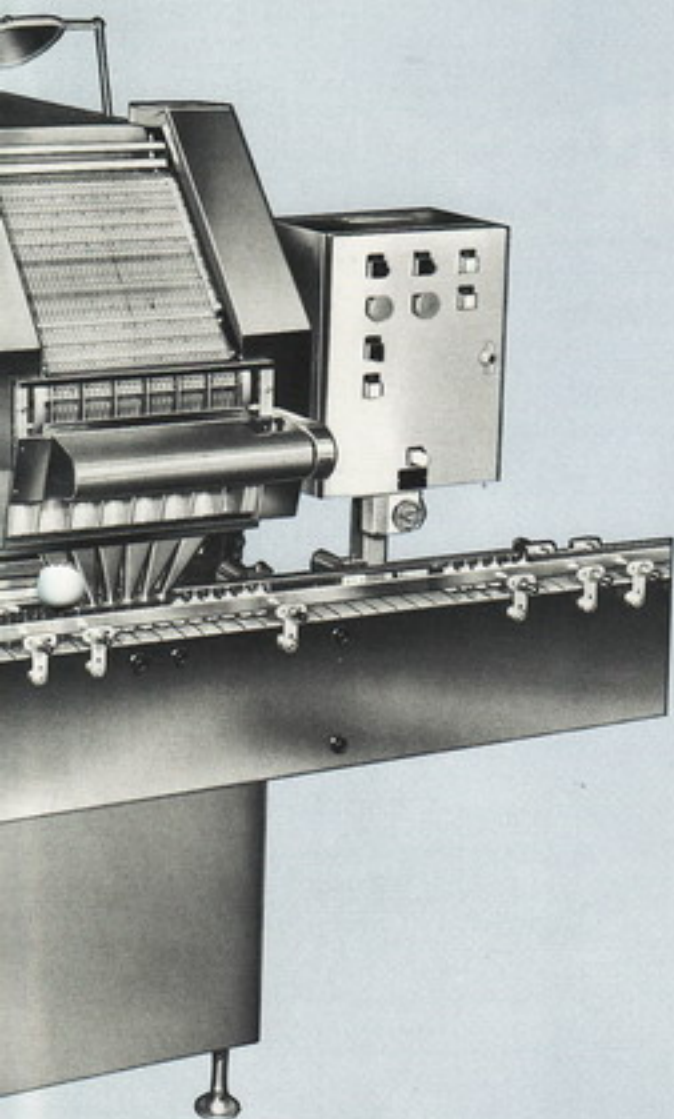
Standard features:—

★ Complete counting head with variable speed drive.

★ Electrically operated power lift to adjust head height to suit container sizes.

★ Stainless steel guards and base cabinet. Plastic slat conveyor.

   ★ A control console centralising all electrics, low voltage control circuits and safety switches.

   ★ A repeater counter for large counts and multi-batch operation.

   ★ An air-operated, adjustable gating system to handle containers up to 120mm diameter.

★ An anti-static unit to prevent tablets or capsules adhering in cavities

★ A foot-switch for operator control.

★ Stainless steel fabrication of all parts in contact with the product.

★ A complete tablet dust extracting/ collection operation.

★ Removable rotary cleaning brush.

Slat counter filling funnels

The funnels are made from stainless steel for each container diameter / neck size and do not require adjustment or pre-setting. Minor variations in container neck diameter can be handled by means of inexpensive adaptor plates. Neck locators are available for containers of non-standard shape.

Optional features

1. Bulk hoppers for larger tablet storage.

2. Positive ejection to remove oversize tablets lodged in the slat cavities.

3. Electronic scanning for checking empty cavities with/without automatic ejection of containers with incorrect count.

Models available — (approximate outputs)

SC4 6,000 tablets per minute. 3 or 6 containers are filled at one time in a single row. (SC6L for large tablets and capsules.)

SC6L 10,000 tablets per minute. 6 containers are filled at one time in a single row.

SC6L/12 Similar to the SC6L, this has 12 funnels to aid feeding into containers with restricted necks or where high output of small containers is required.

SC6 15,000 tablets per minute. Two rows of six containers are filled alternately.

SC12L 20,000 tablets per minute. 12 containers are filled at one time in a single row.

SC12 30,000 tablets per minute. Two rows of 12 containers are filled alternately.

SC20L 40,000 tablets per minute. 20 containers are filled at one time in a single row.

Slats are easily removable - no tools required

Head mechanism slides out of machine for ease of cleaning

Average counting speeds in containers per minute

Tablet O/D	Slat holes	SC4 auto			SC6L			SC6		
		50	100	500	50	100	500	50	100	500
13 - 15mm	4				72	48	12	96	48	12
10 - 13mm	5	48	24	6	96	48	12	144	72	14
8 - 10mm	14	96	48	12	168	96	24	288	168	36
6 - 8mm	16	96	72	18	168	144	30	288	192	48
4 - 6mm	24	144	96	24	168	144	48	300	240	72
0 - 4mm	30	144	96	48	216	168	72	300	288	72
3-4-5 Caps.	6	48	24	6	96	72	12	144	72	18
1-2 Caps.	5				96	48	12	144	72	16
0 Caps.	4				72	48	12	96	48	12

The output of the SC12L is double that of the SC6L.
The output of the SC12 is double that of the SC6.
The output of the SC20 is four times that of the SC6L.

Specification

	SC4 (auto)	SC6 & 6L	SC12 & 12L
Tablet size	3 - 5mm	3 - 25mm	3 - 25mm
Capsules	3 - 5	0 - 5	0 - 5
Container O/d	15 - 125mm	15 - 125mm	15 - 125mm
Max. con. height	250mm	250mm	250mm
Power inc. Dust collection	1.25hp 1Ph 5A	2hp 3Ph 10A	2hp 3Ph 10A
Compressed air	2.5Kg/cm	2.5Kg/cm	2.5Kg/cm
Nett weight	450Kg	700Kg	900Kg
Gross weight	650Kg	1000Kg	1200Kg
Case size	275 x 130 x 200	310 x 150 x 200	310 x 150 x 200
Conveyor length	2.5m	3m	4m

	A	B	C	D	E
SC 6L	290 cm	115 cm	11 cm	85 cm	81 cm
SC 6	290 cm	115 cm	22 cm	85 cm	81 cm
SC 12L	384 cm	136 cm	11 cm	118 cm	98 cm
SC 12	384 cm	136 cm	22 cm	118 cm	98 cm