

AUTOMATIC BATCH WEIGHER



Diplomat batch weighers are based on the continuous batch weighing system where the material flows constantly through the weigher at a given capacity. Weighing is based on the principle of establishing physical balance between the batch weighed out and the weigher setting. This ensures optimum accuracy irrespective of the nature and type of material.

The weighers are of simple and very sturdy construction. This, in conjunction with unique reliability in operation, makes the individual models suitable for widely differing industrial and farming applications.

The weighers are designed to be used in connection with conveying systems for weighing in and out from silos, cleaning plants, feeding systems etc. and for weighing out mixed feed or other mixtures in industry and agriculture.

The weighers are suitable for weighing out grain and other granules with a particle size not exceeding 25mm as well as ground materials. However they are unsuitable for fine meal and other substances liable to bridging. The weigher can be custom made for use with other materials.



Two-compartment weighers:

- Simple and sturdy construction.
- The smallest models are suitable for installation in feeding and mixing systems.
- The D5 weighers are available in two versions, D5G and D5K.
- Type D5K can be provided with a shutter

One-compartment weighers:

- High capacity - up to 40 t/hour.
- Great accuracy - max. deviation $\pm 0.5\%$.
- The weighing-out can be checked in the weigher.

Functions

- Recording of the total throughput for a given period of time
- Dosage: Interruption of the material flow when the desired volume has been weighed out

All data is either read on a mechanical counter fitted on the weigher or on an electronic battery counter. The data can also be transferred by a microswitch to other external units of measurement. The weigher can therefore act as an essential control unit in a complete transport system both in terms of time and weight quantity.

WHY BDC SYSTEMS?

SALES & DESIGN

We offer a full range of post-harvest equipment from world-leading manufacturers. Our sales team covers the entire UK and Ireland, and are highly experienced in designing and specifying systems for new-build and plant extensions on an agricultural and industrial scale.

TECHNICAL SUPPORT

As well as after-sales support, our technical support department has an enviable knowledge of all aspects of grain drying, storage, cleaning and conveying.

SPARES

We keep in stock a wide range of commonly required spare parts and ducting for much of the equipment we supply. This can be dispatched quickly by carrier or on our own transport for local customers. Items not carried as standard stock can be sourced quickly from the original manufacturers.

DRYING:

- ◆ Svegma Continuous Flow or Batch Grain Dryers
- ◆ Drying Silos

HANDLING:

- ◆ Skandia Elevators & Conveyors
- ◆ Silo Discharge Systems

STORAGE:

- ◆ Hopper Bottom Square Silos
- ◆ Lorry Loading Silos
- ◆ Round Silos
- ◆ Square Silos

VENTILATION

- ◆ Low Cost Galvanised Steel Air Stacks
- ◆ Fans
- ◆ Corraduct Laterals
- ◆ Multibar Laterals
- ◆ Drive-Over Laterals
- ◆ Kool-It Airspears
- ◆ Grain Butler Self Propelled Stirring Auger

CLEANING

- ◆ Skandia Dust & Chaff
- ◆ Aagaard Pre-Cleaners
- ◆ Zanin Cleaners
- ◆ Denis Cleaners
- ◆ President Cleaners

Flow Control

Controlling the material flow can be done by either Starting and stopping the conveying system serving the weigher or opening and closing the electrically / pneumatically operated shutters in the flow ducting.

These functions can be obtained in all weighers connected to an electronic counter with pre-selector switch or other type of electric control. Eg Batchmaster for 1 to 4 products.

For weigher types D5 and D15 the same functions can be obtained by using dosage devices types DE and DRE. For weigher type D5K dosage devices types D and DR can be used to control a shutter in the weigher inlet.

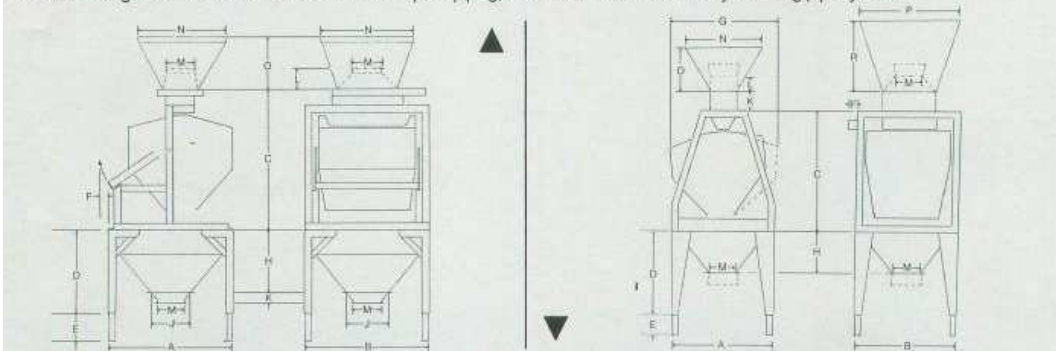
Size Selection

It is important that the weigher should have at least the same capacity as the other machinery in the installation in question. For instance if the inlet of a weigher is filled by an auger and the outlet empties into a feeding system, the capacity of the weigher should at least equal the capacity of the filling auger.

Weigher type	D4	D5	D15	D25	D40
Capacity, t/h (dry barley)	5	8	15	25	40
Contents, kg/comp. (normal)	5	10	25	50	100
Contents, kg/comp. (min/max)	3-7	6-12	20-30	40-60	70-125
Scale volume, 1 per comp	13	26	68	130	225
Net weight, kg	19	30	52	75	142
Greatest deviation subject to correct adjustment & operation				±1%	±0.5%
All weighers are balanced from the factory to weigh out the batch volume indicated					
If desired the volume may be varied within the limits stated on the table.					

Weigher type	A	B	C	D	E	F	H	J	K	L	M*	N	O
D 30	740	740	830	600	0-400	40	400	300	120	100	180	500	325
D 40	900	900	1030	600	0-400	50	485	300	120	150	180	670	380

* Can be designed for connection to 180 x 180 mm square piping, 200 mm dia or other commonly occurring pipe systems.



Weigher type	A	B	C	D	E	F	G	H*	K	L*	M	N	O	P	R
D 4	420	425	475	400	0-300	-	460	160	100	75	125	400	200	480	335
D 5	500	500	585	400	0-300	40	550	200	100	75	125	400	200	480	335
D 15	660	660	730	600	0-400	40	720	300	100	75	125	400	200	480	335
D 25	800	810	840	600	0-400	40	860	350	100	75	180	400	200	480	335

* The dimensions refer to hoppers with square flange. To use OK or Jacob connection add 50 mm.

**The Ultimate
in Grain Care**



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