Fully Electronic Hopper Scale (DVIU/F)

Intake/outloading at high capacity by the means of DVIU/F

Technical data

DATA/MODEL	-0007	-0008	-0009	-0010	-0011	-0012	-0013	-0014
Capacity t/h	250	300	350	400	450	600	800	1000
Capacity m3/h	416	500	583	666	750	1000	1333	1667
Charge size Kg.	2000	2500	3000	3500	4000	5000	6000	6000
Min. charge Kg.	1000	1250	1500	1750	2000	2500	3000	3000
Division Kg.	1-2	1-2-5	1-2-5	2-5	2-5	5-10	5-10	5-10
Vol. Weigh hopper L.	4300	5400	6500	7600	8600	8400	11100	13000
Air cons. L. /Stroke	230	220	250	380	380	380	760	760
A as per sketch	1850	1850	1950	2000	2000	2450	2670	2770
B -	1400	1400	1500	1500	1500	1910	2165	2265
C -	2775	3000	2660	2900	3100	3240	3010	3510
D -	2320	2535	2210	2400	2590	2700	2510	3010
E -	2525	2815	3450	3670	3830	3420	3220	3460
F -	4475	4865	5915	6275	8850	5565	5400	5900
G -	6900	7580	9265	9850	10300	8700	9730	9225
H -	300	300	400	400	400	400	720	820
J -	1800	2025	1700	1900	2080	2000	500	1000
Min. feeder section	6450	8100	9750	11400	12900	12600	16650	19500
Min. discharge hopper	6450	8100	9750	11400	12900	12600	16650	19500

Control voltage for valves: 220 VAC
Signal voltage for sensors: 24 VDC
All capacities are for grain of volume weight 0.6 t/m^3.
DVIU/F operates with 2.5 strokes/min. as an average.
Please note that the air consumption is stated as: (1 free air / stroke) at a working pressure of 6 bar.
As regards special execution please address yourself to Danvægt A/S.

Precision and balance down to the smallest detail

DANVÆGT A/S is a well-balanced, growing Danish company. We concentrate on advising, development, production, sales and installation of scales and integrated weighing systems. **Danvægt** has become synonymous with pioneering, high-tech weighing technology in many different areas. The growth, and the position we have achieved has been made possible by concentrating on current product development in connection with the increasingly complex and demanding weighing problems of a wide range of different companies. Thanks to this, **Danvægt** today can offer the best and most advanced range of scales and integrated PC-controlled weighing systems on the market for the agricultural, grain and feedstuff, industrial, transport and public sectors. And there is weight, know-how and experience behind these words.

Precision and balance down to the smallest detail

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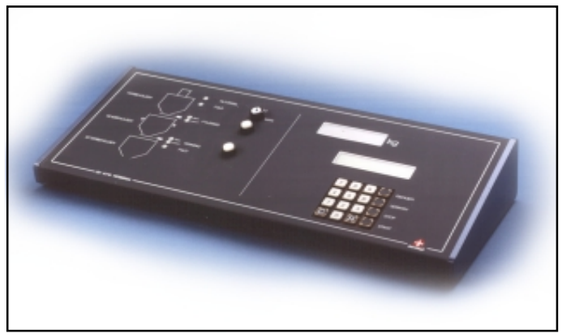
Automatic hopper scales - Speed, precision and reliability of operation.

Danvægt hopper scales are constructed for rapid, precise and safe performance of weighing incoming and outgoing material such as grain, feeding stuffs, almost all types of powders and granulars. The hopper scales have all been approved in Denmark for the use when buying and selling. By means of computer control it is guaranteed that the yield of the system will be at its maximum and is characterized by an adequate documentation of the weighing with a possibility for statistics suited for your purpose. The construction of the hopper scales is consistent. The scales are not only rapid and efficient, but also reliable and environmentally compatible. The flow of the material is continiously under complete control and considerably larger than one would expect, due to the facts stated below:

- A regulation machanism operating at its optimum, securing against unnecessary stops, caused by for example transport hoist.
- A sufficient number of alarm devices for empty and full hoppers.

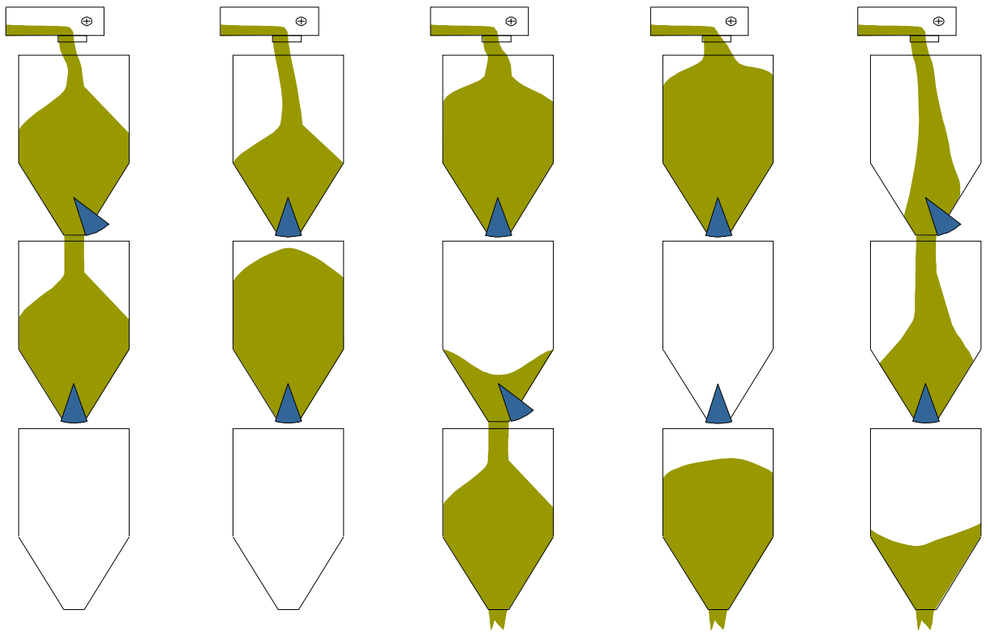
The scales are fully electronic and as regards DVIU/F these models are suspended from 4-6 high-quality load cells, which make anti-rolling steering devices unnecessary. Most of the scales shown in the following scheme can be supplied in a special execution according to your needs. Please address your self to Danvægt A/S for further information.



For the stand alone plants without the need for statistics of storages etc. operation terminal DV 6710 is a natural choice. Although this terminal is simple and easy to use, it gives all the information necessary in condition with settlement on delivery of material and reception.

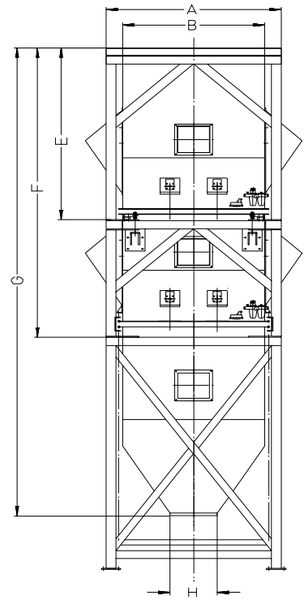
The Danvægt hopper scale is constructed for weighing at a high precision. By means of the frictionless suspension combined with the efficient internal pressure compensation it is ensured that the system returns to its resting point rapidly. Furthermore with the frictionless suspension of the weight hopper it is also ensured that influences from the surroundings do not affect the weighing. Due to the fact that the system is constructed with well-functioning internal pressure compensation passages the scale can function as a self contained unit without external aspiration in the vast majority of cases. These pressure compensation passages can also be utilized to remove dust fro the scale during weighing; in this way only minimal deposits occur in the interior of the hopper scale. Also as regards the surroundings of the scale dust contamination is avoided as the transition between feeder section, weigh hopper and discharge hopper is protected by means of high quality flexible connections.

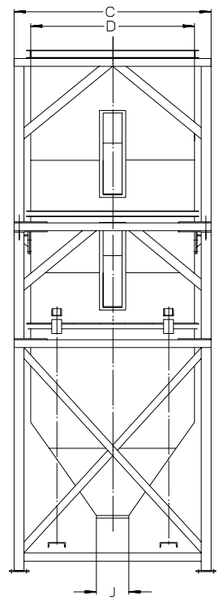
Why is the weighing efficient?



In the above drawing the weighing principle that is used for the Danvægt system is shown. It is called automatic discontinous weighing. Feeding and discharging of the various hoppers starts and stops automatically as the weighing is coontrolled by means of signals from load cells as well as sensors indication “empty” and “full” in the various hoppers. The weighing system guarantees maximum weighing accuracy and speed considering the capacity of the weigh hopper, the speed of discharge, the quantity and kind of material as well as the moisture content. The Danvægt hopper scales are intended for materials of volume weight 0.6t/m^3 guaranteeing a high degree of flexibility as regards sorts of material. In order to obtain the highest degree of reliability of operation possible the hopper scales are as standard supplied with a large buffer volume in feeder and discharge sections, thus ensuring that brief stops on transport systems emptying the discharge section do not affect the weighing capacity.

With a PC-based control of the hopper scale the possibility of building-up numerrous statistic functions are obtainable. The possibility of having the scale form a part of a scale network which is integrated with the administrative system also exists.





Diagrams of the Danvægt hopper scale. Measures and capacities on reverse.