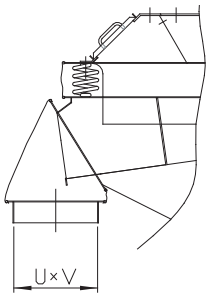
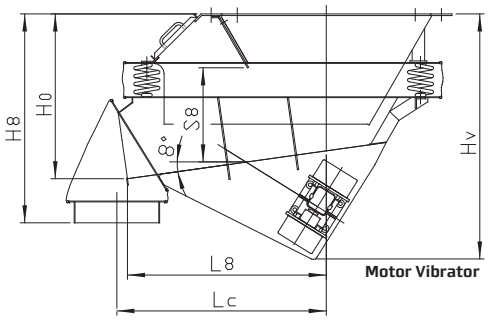
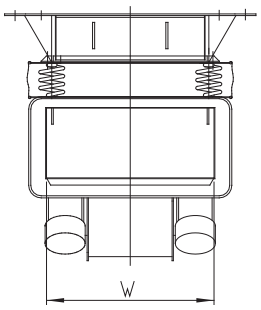
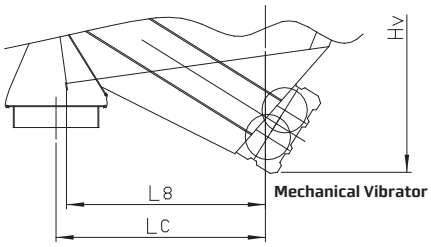
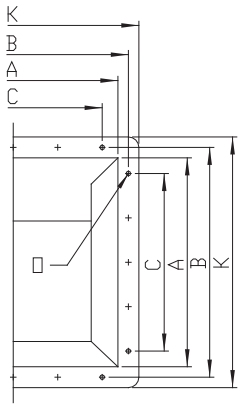
Enclosed Vibratory Feeder
Type FCU/FCR-4NL
with Motor/Mechanical Vibrator











Feeder Size W/L_0	Capacity m^3/h 2) 8°	Dimensions trough Profile (mm) Width (W)	Height (H)	Wear Lining 3)	Vibrator Type 1)	Weight kg Excl. wear liner 3	Installation Requirements (mm) L_C	H_8	H_V	L_8	H_0	S_8	A	B	C	K	Diameter (D)	Quantity (D)	UxV
040/0050	51	400	160	3	15/400	200	500	500	730	450	380	200	500	580	450	650	18	8	200x460
040/0100	51	400	160	3	15/550	250	1000	570	810	950	450	200	500	580	450	650	18	8	200x460
056/0071	102	560	225	4	15/550	285	735	710	930	680	560	360	710	800	610	870	22	8	280x620
056/0125	102	560	225	4	15/1100	335	1250	840	1050	1180	660	360	710	800	610	870	22	8	280x620
080/0100	221	800	315	5	15/1100	515	1000	1000	1200	950	790	450	1000	1100	2x425	1200	22	12	400x900
080/0160	196	800	315	5	15/1710	600	1600	1100	1300	1550	870	450	1000	1100	2x425	1200	22	12	400x900
100/0125	349	1000	400	5	15/1710	860	1250	1220	1420	1190	930	540	1250	1400	2x525	1490	27	12	500x1100
100/0200	354	1000	400	5	10/2610	1200	2000	1230	1590	1900	1030	540	1250	1400	2x525	1490	27	12	500x1100
125/0160	476	1250	500	6	10/2610	1680	1600	1630	1950	1520	1350	800	1600	1750	2x650	1900	27	12	620x1350
160/0200	638	1600	500	6	075/6500	3270	2000	2010	2470	1900	1640	1010	2000	2200	2x850	2400	27	12	800x1700

17-06-2011

1) See appropriate data sheets for vibrators.
2) The capacities stated are valid for naturally moist sand 0-3 mm and including wear liners.
   Be aware that the capacities are stated in m^3/h.
3) Lc dimensions are valid for naturally moist sand 0-3 mm.
   For coarse materials L_c is increased by 50-100 mm.

Please contact us for further information regarding exact dimensions and installations.

Enclosed Vibratory Feeder Type FCU/FCR-4NL with Motor/Mechanical Vibrator

Feeder capacity can be regulated in 3 ways:

By adjusting the trough gate
Adjusting the trough gate allows a continously variable regulation of the depth of material on the vibratory trough.

By adjusting the eccentric weights
The stroke can be regulated by adjusting the eccentric weights of the vibrator.

By adjusting the working frequency
By means of a frequency inverter or hydraulic drive, it is possible to achieve an infinite variation from appr. 25% to 100% of the preset capacity.

Feeder size is chosen on the basis of:

Primarily, capacity in cubic metres per hour (m3/h)
Bulk densities in the range 0,3-5t/m^3 have an insignificant influence on the capacity of feeders with motor/mechanical vibrators. The indicated capacities are calculated at a bulk density of 1,5 t/m^3.

Secondarily, particle size and material characteristics
Normally the indicated capacities are achievable when particle sizes are no larger than 1/10th of the trough width.

The feeders are able to handle considerably coarser materials, but with reduced capacity.

To avoid jamming, materials containing lump sizes larger than 1/3rd of the maximum gate opening should only be handled in larger feeders.

Feeder Design:

All standard feeder sizes are available in a short version; the smaller sizes are also available in a long version for materials with a low slope angle.

At 8° downslope the following minimum slope angels at maximum and minimum gate opening are obtained:

Short feeders: approximately 40° and 25°, respectively.

Long feeders: approximately 25° and 15°, respectively.

Vibratory troughs may be lined with e.g rubber, PEHD, PUR, steel etc. The type of liner is selected according to the nature of the material to be handled (e.g sticky, corrosive or very abrasive).

Feeders with no wear lining are appropriate for proportioning from e.g rarely emptied silos. The material may be slightly to moderately abrasive, e.g vegetables, gravel and sand.