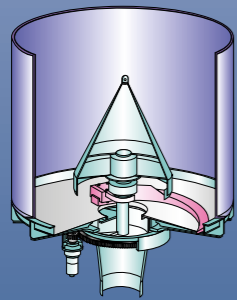


Industries:

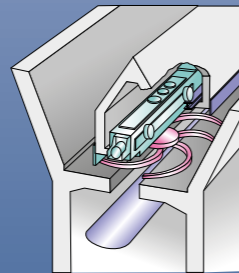
Gypsum
Cement
Power

Alternative fuels
Mining
Chemical

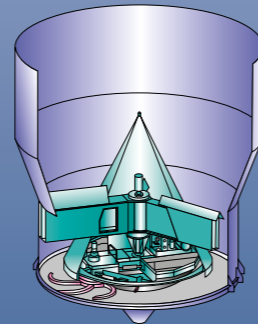
Foundries
Environmental protection
Sludge & Waste handling



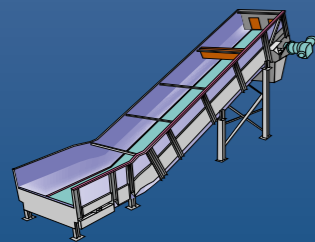
SDM
Silo Discharge Mashine



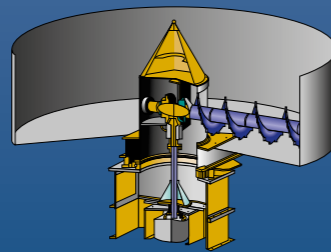
BDM Bunker
Discharge Machine



RDM Rotary
Discharge Mashine



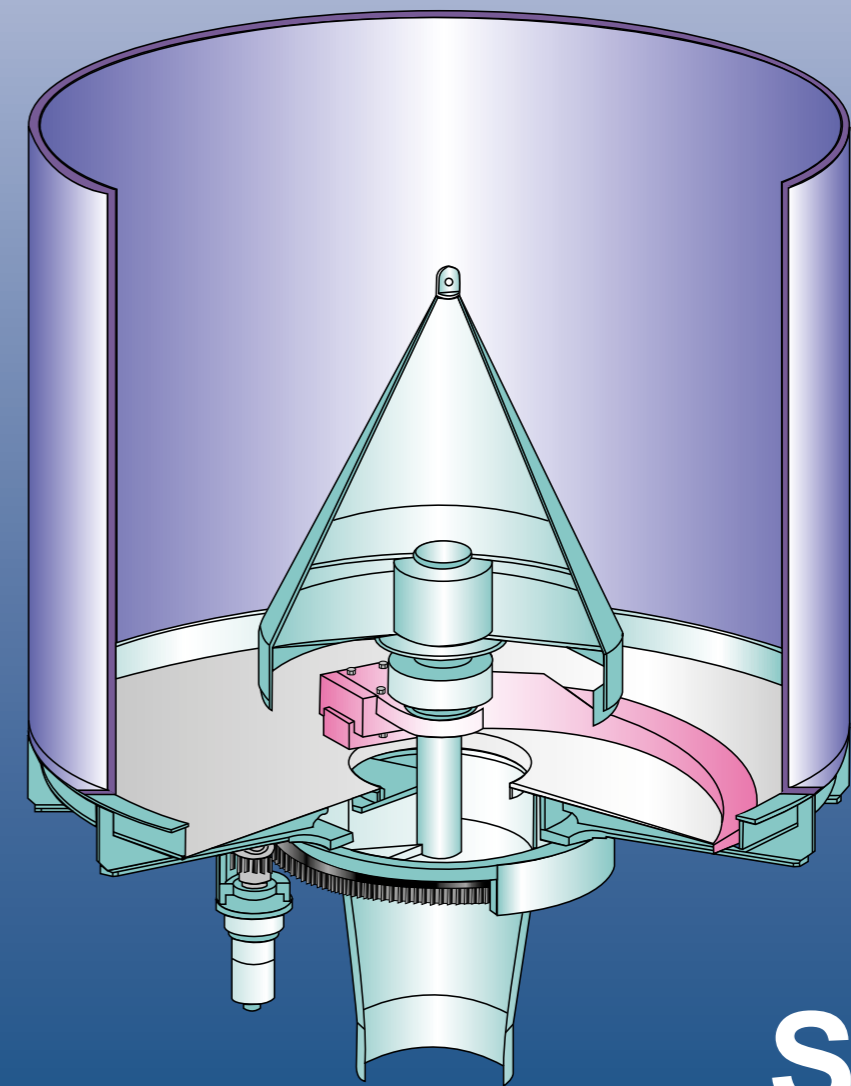
TRU
Truck Reception Unit



Sweeping Auger



Chain Conveyor



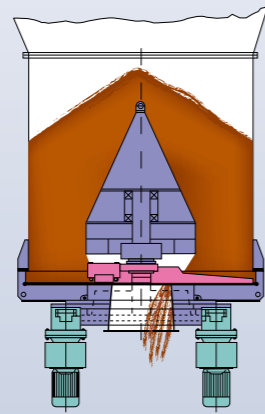
**Silo
Discharge
Machine**

Louise Engineering Ltd.

Queens Court Business Centre • Newport Road, Middlesbrough • Cleveland TS1 5EH
E-Mail: contact@louise-engineering.com • Internet: www.louise-engineering.com
V.A.T. Reg. No.: GB 258 5462 32 • Telephone: +44 1642-213131 • Telefax: 1642-218802

Functional Description

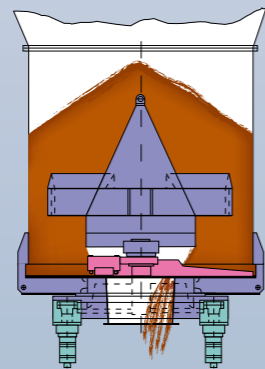
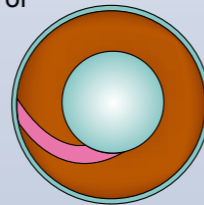
The task of the central discharge unit SDM is to extract wet, cohesive, sluggish or other non free flowing bulk material stored or buffered in bins or silos. The rotating discharge arm conveys the bulk material toward the opening in the center of the floor and discharges it through this opening. To prevent the bulk material from flowing out in an uncontrolled manner, the discharge opening is covered by an inner cone. The discharge arm passes underneath the inner cone and activates the entire silo bottom during the discharge operation. One revolution of this specially curved and profiled arm extracts a uniform disc of material from the silo. This keeps the bulk material column in motion and maintains its flow ability, preventing solidification of the bulk material over time and the risk of bridge formation inside the silo.



Free spinning cone

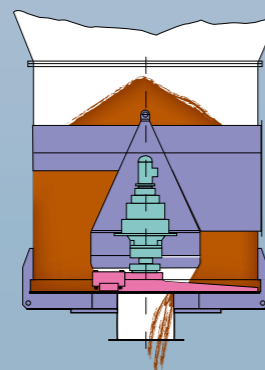
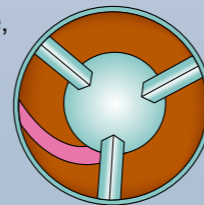
The free spinning cone has the advantage of having no obstacles such as cross beams or cone supports that would disrupt the material flow. Very sticky or non-free-flowing bulk materials have no chance to build bridges. This feature allows for a bulk material to have up to 3 times the amount of storage time at rest when compared with a cone supported by beams. This

design should be used for wet bulk materials such as FGD Gypsum, Clay, Marl, etc.



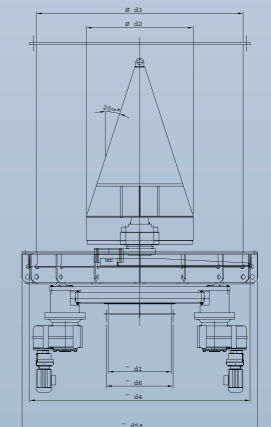
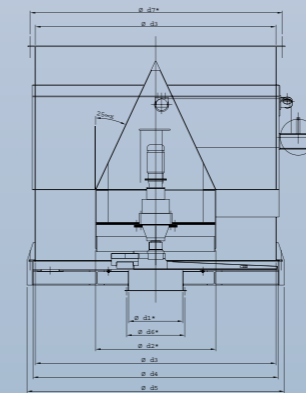
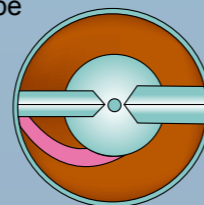
Cone supported by beams

This design is used for bulk materials with poor flow characteristics, or for surge bins where long periods of storage time are not necessary. Typical bulk materials used in this machine are Limestone, Natural Gypsum, Ores, Coal, Petroleum Coke. Coarse or dry bulk materials can also be used with this machine.



Internal drive

This feature gives you the advantage of storing very dusty bulk materials or materials that have the tendency for spontaneous combustion. One of the arms is built as an inspection tunnel, so maintenance can be done without emptying the silo. Typical applications are Pulverized Coal, Sub-Bituminous Coal (PRB coal), Wet Fly Ash and Land Plaster.



Internal drive

Size (d3)	2500	3150	3500	4000	5000
d1	644	797	898	1000	2500
d2	1250	1575	1750	2000	2500
d3	2500	3150	3500	4000	5000
d4	2600	3250	3600	4100	5100
d5	2800	3450	3800	4300	5340
d6	790	898	984	1086	1390
d7	2606	3256	3606	4106	5106
Capacities (m³/h)					
rpm = 1.0	24.0	42	65	100	170
Capacities (m³/h)					
rpm = 6.0	144	252	390	600	1020

Note: All dimensions are in mm

External Drive

Size (d3)	2000	2500	3150	4000	5000
d1	534	625	790	1000	1250
d2	1250	1575	1750	2000	2500
d3	2000	2500	3150	4000	5000
d4	2100	2600	3250	4100	5100
d5	2300	2800	3450	4300	5340
d6	629	730	883	1086	1390
Capacities (m³/h)					
rpm = 1.0	12	24	42	100	170
Capacities (m³/h)					
rpm = 6.0	60	144	252	600	1020
Capacities (m³/h)					
rpm = 6.0	144	252	390	600	1020

Note: All dimensions are in mm