



Clam Shell Gate

Salient Features

- * A Lower Initial Cost.
- * Simplicity of the Components.
- * Low Operating Speed.
- * Low Stresses Seen By the Gear Teeth during Operation.
- * Lubrication of The Teeth is not Required.

Design Features

UNICON adopting new/ latest technologies for design, manufacturing and testing. So we can provide equipments and services with international standard and with competitive price. The tooth gear quadrants that we use on our double clamshell units are designed for long trouble free use. One big advantage of using a double clamshell gate is that the material drops out of the center of the opening as the gate blades separate.

The gate actuation through a PLC system to control the desired opening to facilitate smooth flow of material.

Construction Features

Construction is of minimum 6mm mild steel plate, heavily reinforced wherever necessary. Bolting portion is constructed of heavy structural steel angle. All welding as per AWS standards. Gate pivot shafts are C-1045 steel shafting, and are attached to heavy backing plates welded to the gate body.

Once the gear sets are located and properly timed, they are welded in place eliminating any further adjustment or need for maintenance.

The assembly and reassembly of the gate can be accomplished without affecting timing of the gate blades.

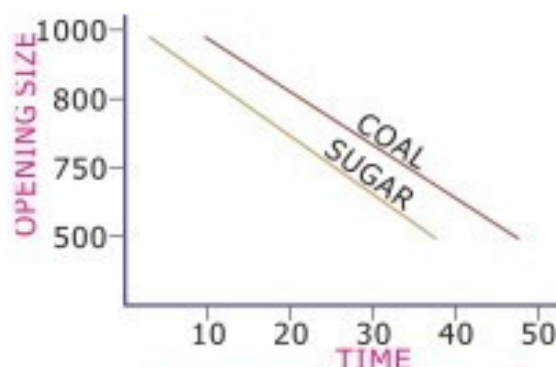
The outboard end of the hinge pins of double clamshell gates are supported to keep them in line even as the parts wear. The box and blades are heavy in construction for longer life.

Applications

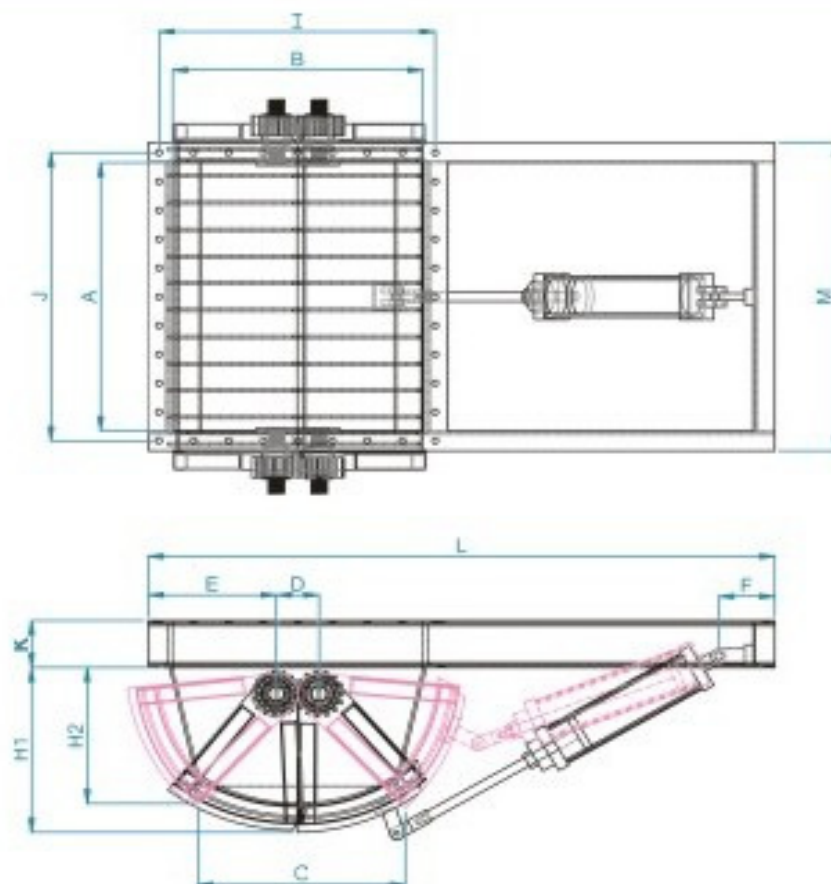
UNICON has been manufacturing clamshell gates for bulk material handling systems for more than a decade. Clam Shell gates are typically used for cutting off or regulating material flow when loading hopper bins, conveyors and other containers.

Quality

Our clam shell gates can be used any type of bulk material handling whether it is high temperature, adhesive or abrasive. We are providing hardox 400 or hardox 200 lining for all material contact surfaces according to the application. Our state-of-the-art clam shell and testing facilities is the key of achieving optimal performance.



For a specified amount of material discharge through the different size of gate



A	B	C	D	E	F	H1
1000	880	700	150	450	200	610
800	750	660	120	360	160	495
750	500	545	115	340	150	460
500	500	375	90	205	100	305

H2	I	J	k	L	M
500	970	1075	175	2200	1150
405	825	860	150	1760	920
380	775	810	125	1650	865
250	485	530	100	1100	575

Note : Dimensions and other details given in this catalogue are subject to change without notice, due to continuous product improvement.