

Clamshell Bucket



The clamshell bucket is a sophisticated articulating two-piece bucket mechanically hinged at the middle to form a claw-like appendage with an internal volume. It is attached by a hangar or bracket and uses a specially designed ground engaging tool on its cutting edge to dig in a vertical direction. Clamshell buckets are commonly used in dredging, excavation or material handling, however, each application has its unique characteristics and has to be designed optimally for maximum efficiency.

Hydraulic Clamshell

The CS series hydraulic clamshell bucket is designed to be attached onto an excavator. The dual or quad hydraulic cylinders/rams mounted on the outer rim of the bucket provide excellent digging force. The inner side of the bucket has a smooth surface for easy unloading of high viscosity material such as mud and clay, while the outer layer is reinforced with an additional layer of wear strips. The bowl's radius has been optimized to match the locus of the hydraulic cylinder/ram to deliver consistently full load for maximum productivity.

Mechanical/Cable Clamshell

The fully mechanical clamshell is designed specifically to be used on a crane for large capacity dredging and digging applications. The opening and closing action is operated via cable. The inner side of the bucket has a smooth surface for easy unloading of high viscosity material such as mud and clay, while the outer layer is reinforced with an additional layer of wear strips. The hanger is constructed with high tensile steel.

Applications:

- Digging pits for ground construction work.
- Ideal for digging and loading material in tight and limited spaces.
- Material handling, loading and unloading industrial wastes, grains, sands, etc.
- Heavy duty mechanical clamshell is ideal for dredging application by crane.

Features:

- Designed for durability for all material loading needs in field of work towards higher productivity.
- Specially designed tooth point are equipped on the cutting edge to provide higher strength and longer life.
- Hydraulic rotation and knock-around manual rotation is available.