



## Electro Hydraulic 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 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 requirements and has to be designed optimally for maximum efficiency. We design, develop and manufacture both electro hydraulic and mechanical clamshell used on excavators and cranes.

### The applications of clamshell bucket are:

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.



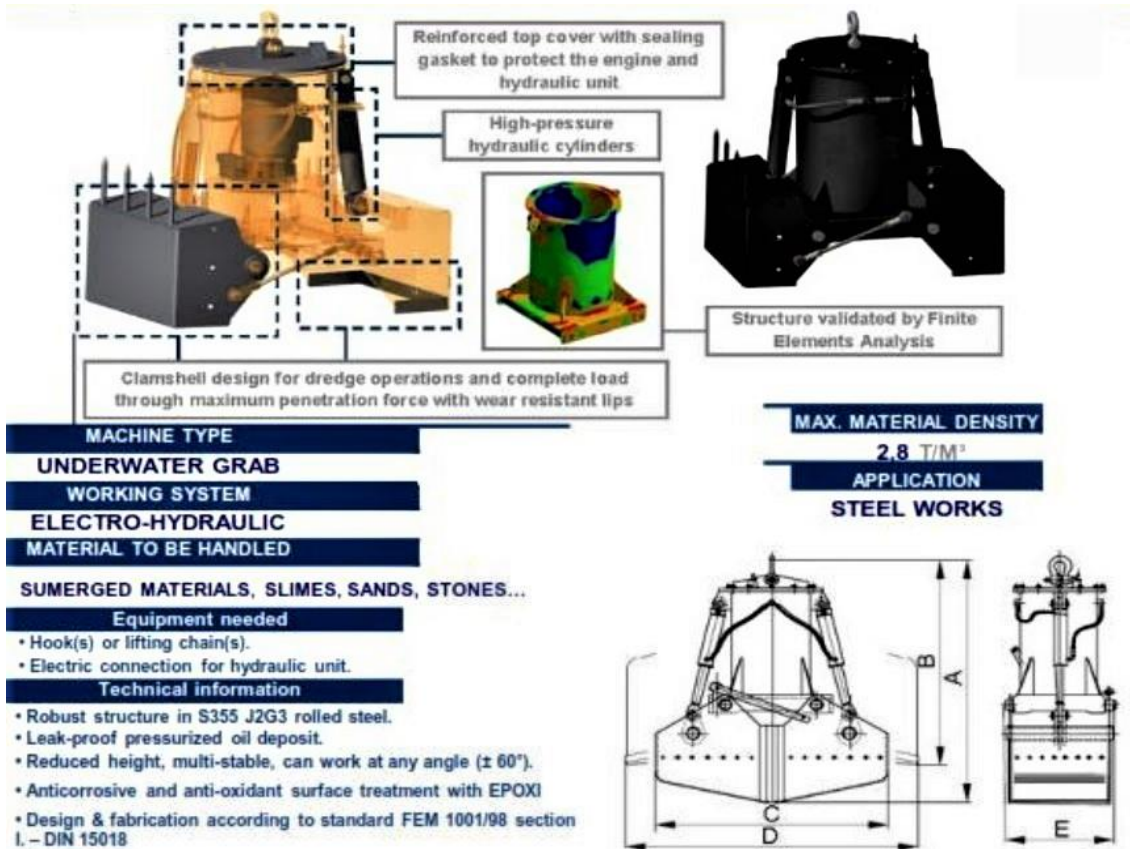
### Distinguished features of NG Clamshell bucket are:

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.





TYPE	Capacity	Engine	Working pressure	*Weigth	DIMENSIONS (mm)				
	m <sup>3</sup>	kW	bar	kg	A	B	C	D	E
NG-100	0.1	3	100	390	1265	1210	835	1060	605
NG-150	0.15	3	100	420	1350	1230	835	1215	605
NG-250	0.25	4	100	460	1525	1260	1165	1550	605
NG-300	0.3	4	120	480	1550	1280	1190	1575	605
NG-500	0.5	5.5	130	650	1700	1485	1310	1770	770
<b>NG-600</b>	<b>0.6</b>	<b>7.5</b>	<b>180</b>	<b>950</b>	<b>1840</b>	<b>1525</b>	<b>1580</b>	<b>2035</b>	<b>970</b>
NG-1000	1	11	180	1260	2060	1580	1890	2450	1070

\*It can be change weigth with oil.

\*\* The crane hook and 380v energy required for the installation. Electric control scheme for opening and closing movements is sent with the product.

### Safety Notes

Extreme care and adequate precautions must be taken to prevent trapping fingers during installation. Always use certified lifting equipment. Improper installation can cause serious damage to the equipment and to the Crane. If in doubt, contact NG Engineering for assistance.

Any interference or obstruction between the Clamshell Bucket and Crane;

Whether the length of the connecting hoses are too short or too long and they are not interfering with any moving parts;

Any twisting, excessive bending or squeezing of the connecting hoses;

While lifting the Clamshell Bucket above the ground (no-loading condition), Check:

Whether the Clamshell Bucket operates normally without delay during operation.

Any oil leakage from hoses, fittings, hydraulic motor or motor control valve;

Any loosening of bolts or nuts;

Any abnormal vibration or noise while the Clamshell Bucket is working.



#### Safety Notes

**All site activity must be thoroughly planned before work commences to identify hazards and assess risk.**

**These instructions form guidance for Clamshell Grab Buckets. Nonstandard applications should be approved by a suitably qualified engineer.**

**Ensure all personnel engaged in installation operations are properly briefed and adequately supervised by a competent person.**

#### Important Operational Guidelines

The weight of the Clamshell Bucket is increased by the weight of the load being picked up and must never exceed the maximum allowance of excavator lifting power.

It is possible that material could fall out of the Clamshell Bucket. For this reason, never operate the Clamshell Bucket above people, machines or vehicles.

Always pick up a long reach load at its centre of gravity: this is to prevent the crane from either rotating or tipping over.

The Electro Hydraulic Clamshell Bucket MUST be greased every two hours when in use.



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