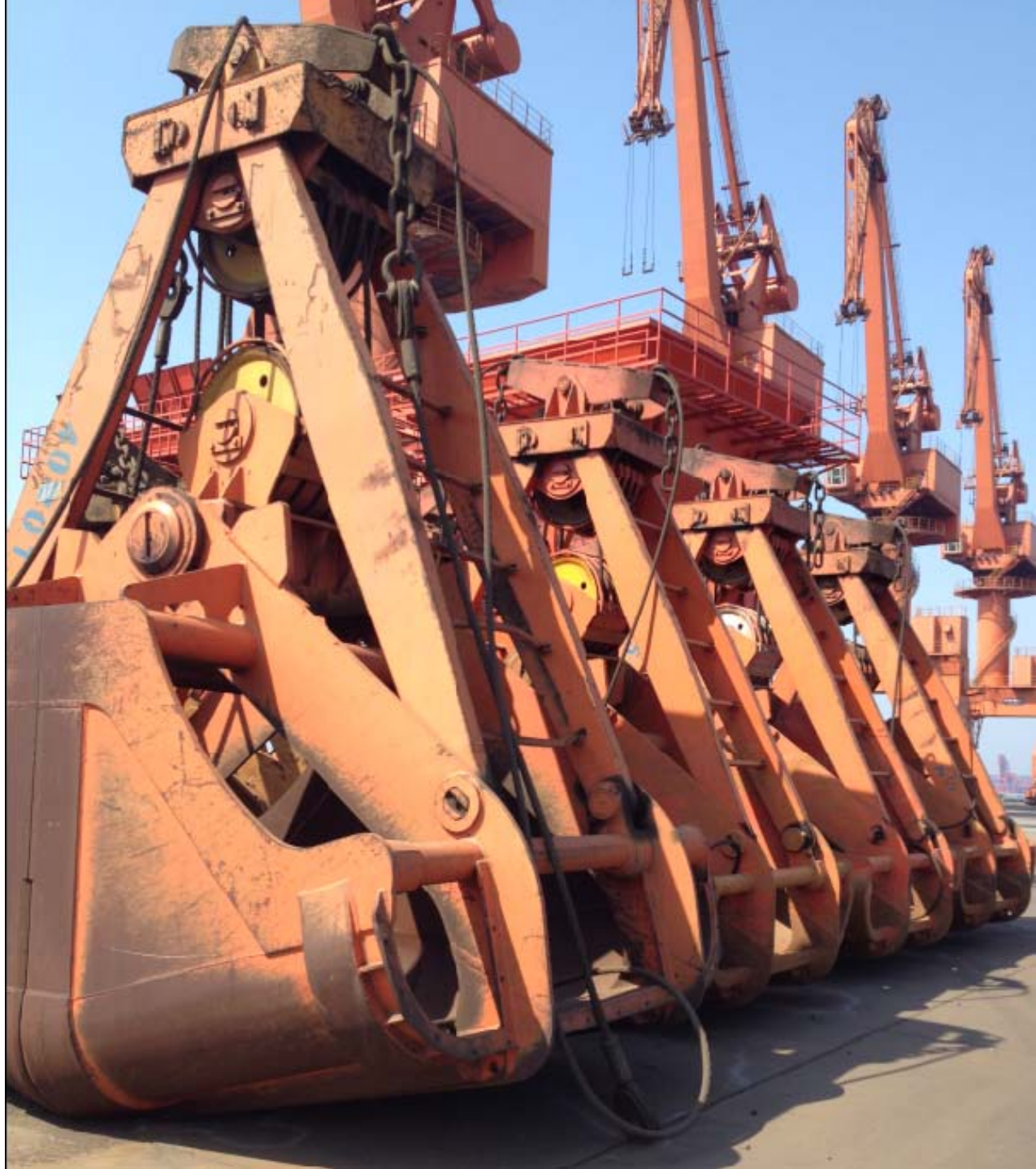


THLE
新华起重工具

Nickel Ore Grab

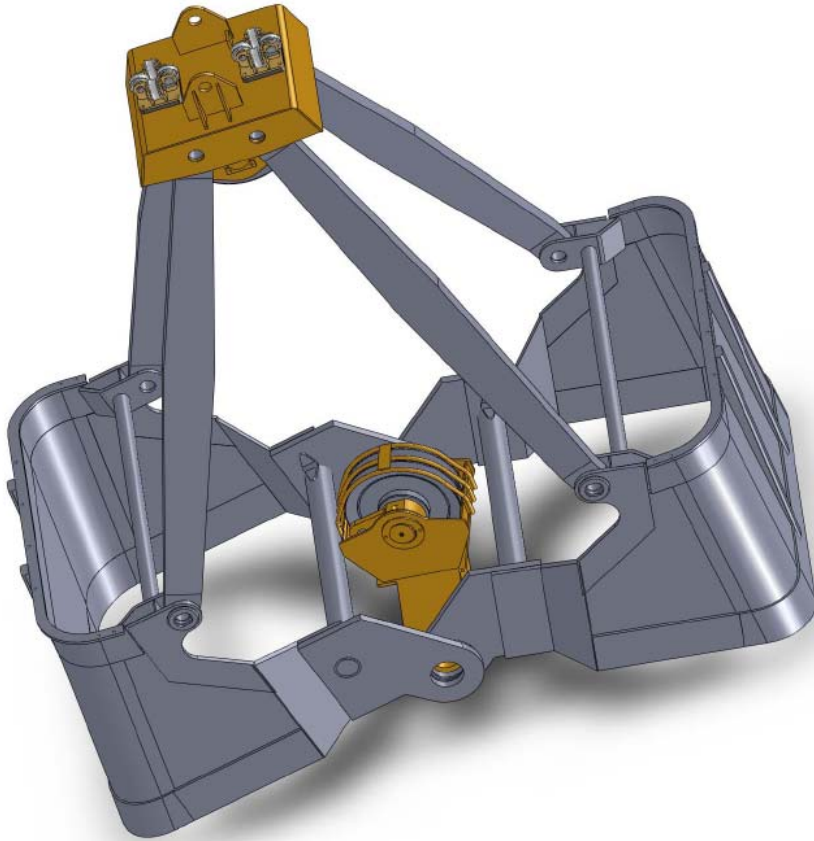


Why we make it

The nickel ore is viscous material which unloading operations have serious sticky problem. The grabbing process make extrusion of material, Nickel stick inside bucket more and more which lead leakage phenomenon, So workers always need clean it and the bucket must be closed before return .

That kills the working efficiency, cause pollution and loss.

So we created Nickel Ore Grab on 2011.



Working principle introduction


So we make bucket structure as open design, no stacking angle of dead.

Nickel ore grab will not squeeze material ,So nickel ore is loose and massive , All material will fall down clearly when open . Nothing sticking inside bucket ,so no need close bucket when grab return after unloading. Nothing will drop to the dock and sea.



Main technical performance comparison

Orange peels grab VS Nickel ore grab

technical performance	Orange Peels Grab			Nickel ore grab			Efficiency improvement
	40 t	25 t	16 t	40 t	25 t	16 t	
Grab dead weight	18t	11.5t	7t	16.5t	9.5t	5.5t	Average 8%
Nickel ore stick on it	5t	3t	2t	0	0	0	Average 12%
Time for close grab before return	15 seconds	12 seconds	10 seconds	0	0	0	Average 10%
Change grab when clean warehouse	2 hours/ship	2 hours/ship	1 hours/ship	0	0	0	Average 3%
Total	Total Work efficiency						Average 33% 

Optional function (Add regulating volume plate)

- Apart from handling Nickel ore, When add regulating volume plate which enable to handle other material.

For exg: coal: Material specific gravity 0.8~1.0

--Iron Ore

--Other mineral gravity 2.0~2.8

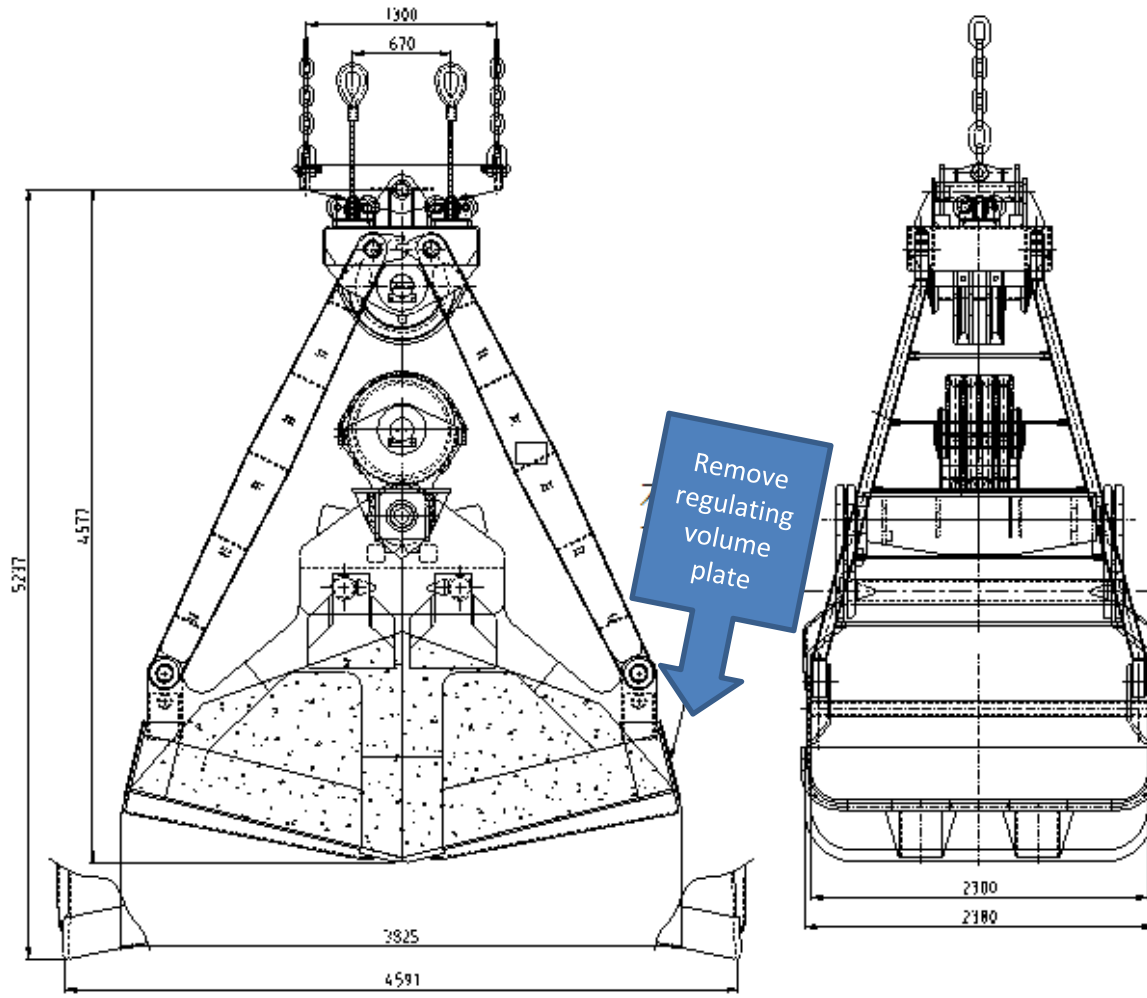
--Cross a wide range.

Nickel grab respectively to bulk unloading (Add regulating volume plate)

	Material specific gravity	40 t- Grab bucket volume	25t-Grab bucket volume	16t-Grab bucket volume
Iron Ore	2.5t/m ³	Around 10m ³	Around 6.5m ³	Around 4.5m ³
Nickel Ore	1.6t/m ³	Around 16m ³	Around 10m ³	Around 6.7m ³
Coal	1.0t/m ³	Around 23m ³	Around 16m ³	Around 9.5m ³

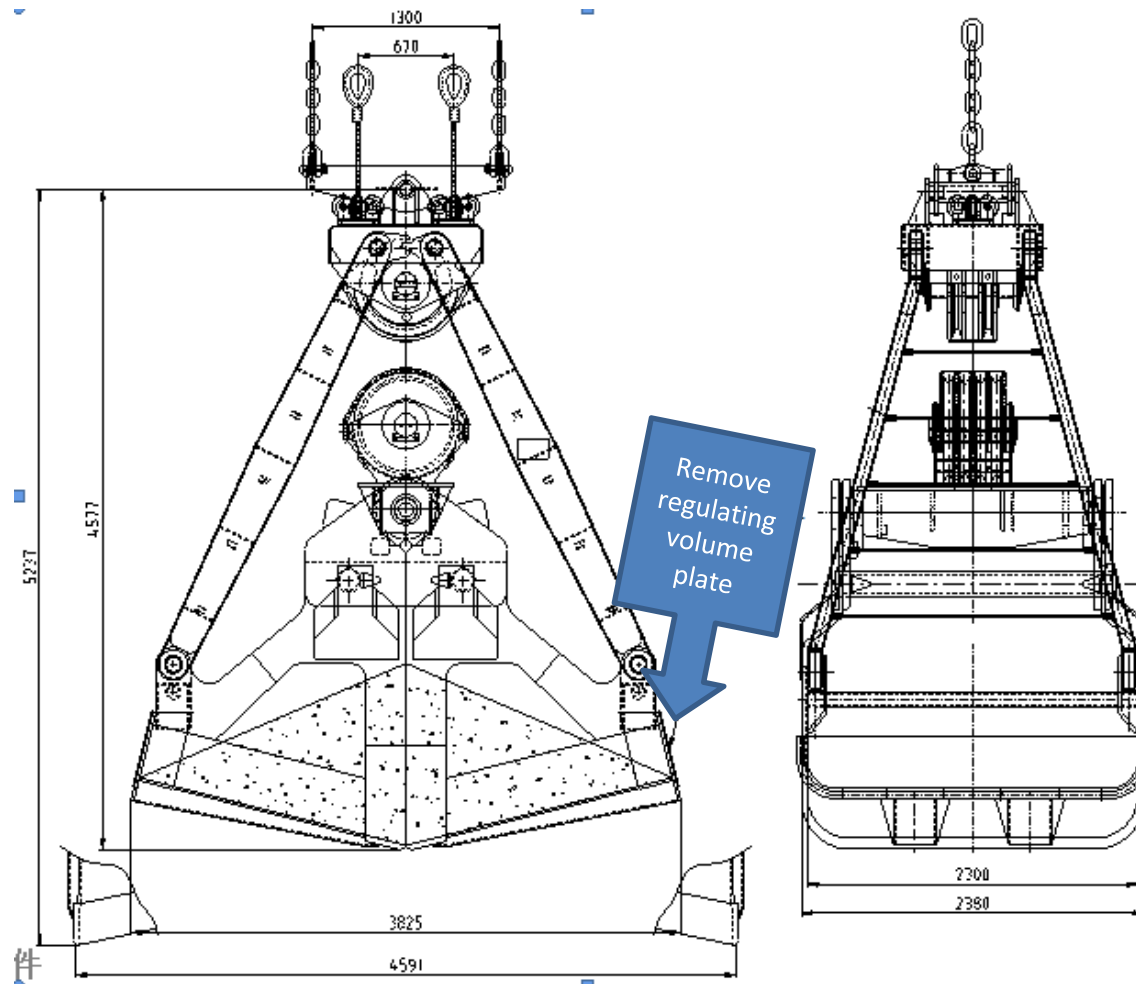
25Ton grab as example

Below grab without regulating volume plate , The excess material can flow out from the side. Because the material is very viscosity , so the material stacking angle is very big. As below volume would be around 10m³



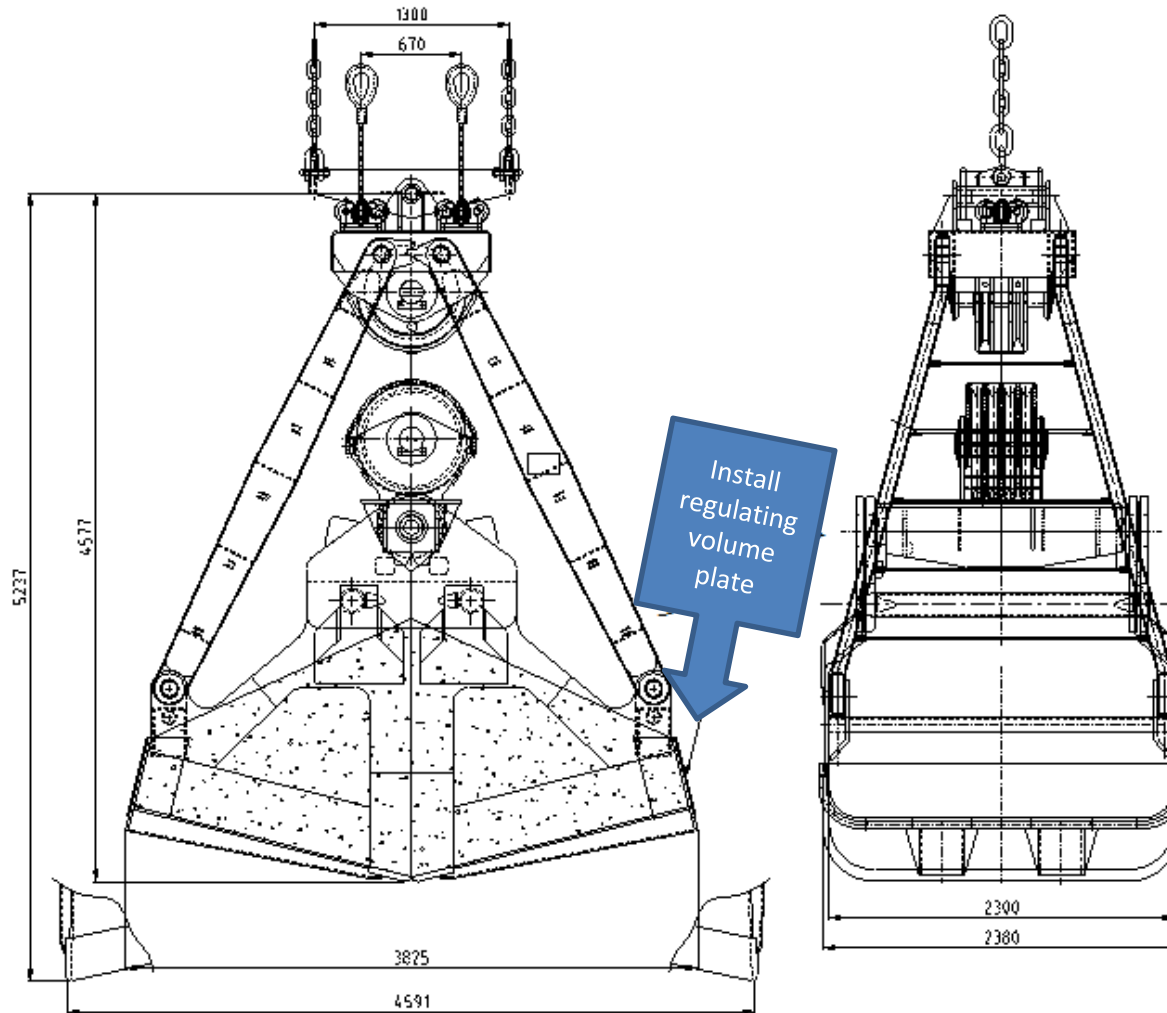
25Ton grab as example

When grabbing mineral powders, As it is high density and material stacking angle is small, So under grab rate 4 times, the bucket volume become smaller. As below, the bucket is around 6.5m^3 .



25Ton grab as example

When need to handle coal and other light weight materials, add regulating volume plate on the both sides of bucket, the general volume can be increased to about 16 m³



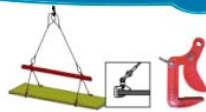
General advantage

- The deadweight similar to normal clamshell grab .
- Bucket bottom is the open type structure, nickel ore will not be squeezed. Material non-stick on bucket .Save working time.
- Compared with orange peels ,this grab is much light weight, and handle more material per time.
- No need change grab when clean warehouse
- The bucket can also be a variety of materials grab with regulating volume plate, No need replacement grab when handle those different material .

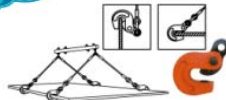
Who use our Nickel ore grab



BOOTH 26



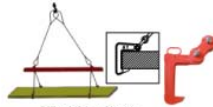
Horizontal Lifting Clamp



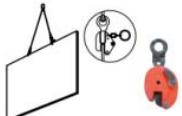
Reversal Lifting Clamp



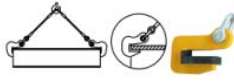
Large Plate Lifting Clamp



Billet Lifting Clamp



Vertical Steel Plate Lifting Clamp



Steel Tube Lifting Clamp



Horizontal Coil Clamp



Vertical Coil Clamp

Multi-Purpose Grab for Nickel Mine



Grab Bucket for Dredge



Grab Bucket for Wood



Remote Control Grab Bucket



Single Wire Rope Grab Bucket



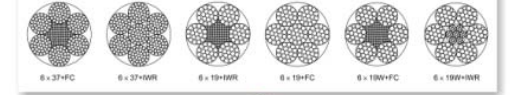
Grab Bucket for Garbage over Water



Scissors Grab



Grasping Machine Grab



6 x 37-FC 6 x 37-WR 6 x 19-WR 6 x 18-FC 6 x 18W-FC 6 x 18W-WR

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Lifting Single Hook Block



Lifting Double Hook Block



Solid Wire Rope Thimble General Wire Rope Thimble Wedge Socket Wire Rope Fast connector Closed Spelter Socket Anti-Rotation Set



Chain for Grab Bucket



BOOTH 26

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