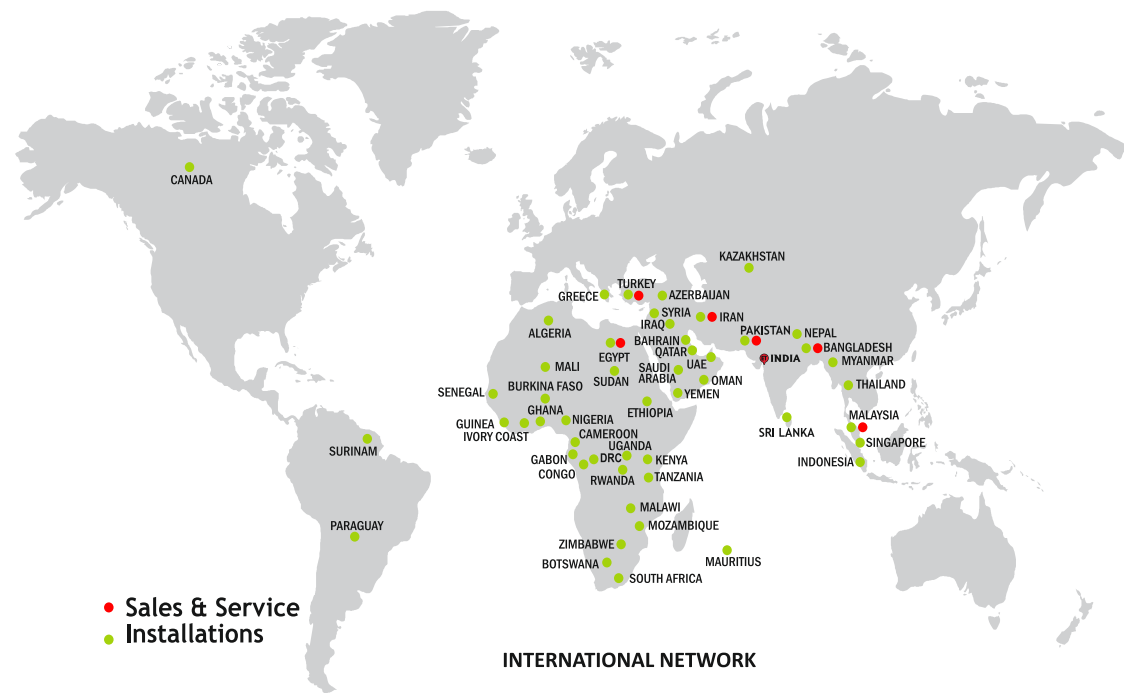


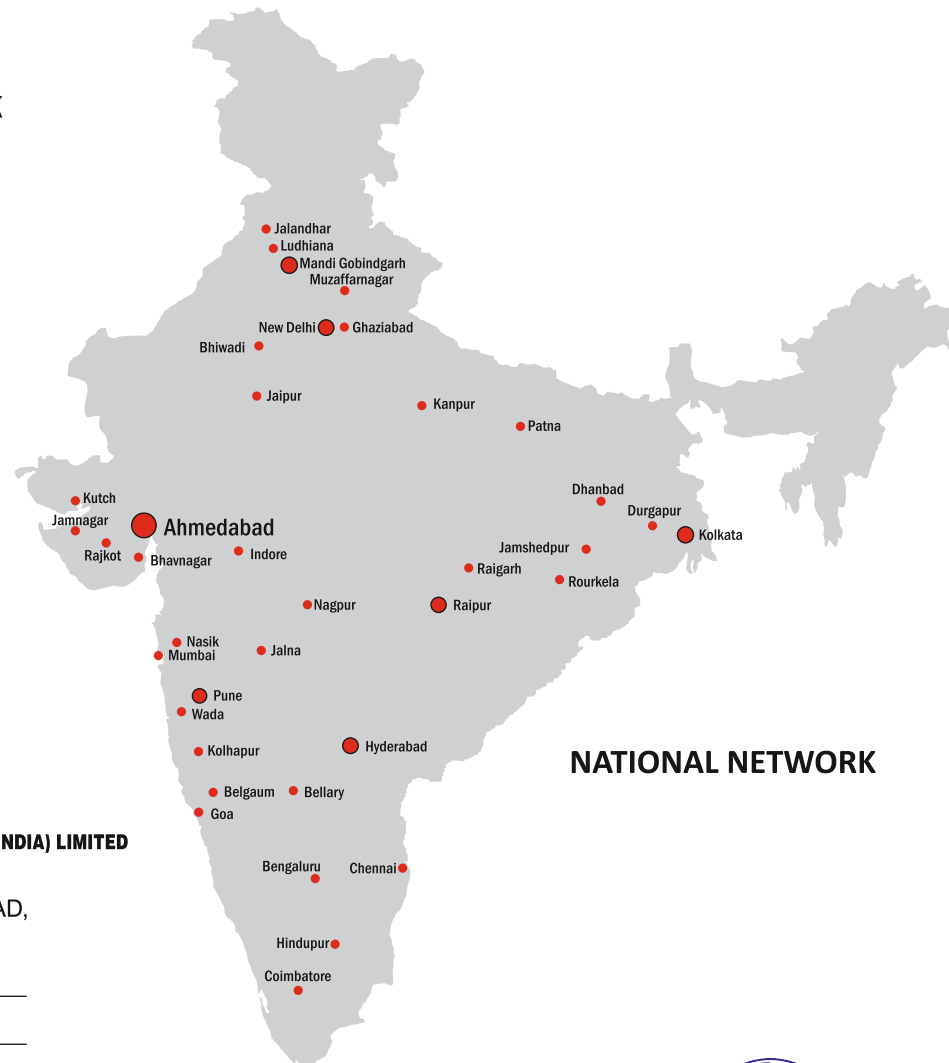


Electro-Hydraulic Grabs

Grab profit with ETGRAB



Electrotherm Network



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Engineering & Projects (E&P) division of Electrotherm is a leading designer and manufacturer of Induction Melting Furnaces, Electric Arc Furnaces, Metal Refining Konverters (AOD), Electrotherm Refining Furnaces (ERF) (patented for design & process), High Speed Continuous Casting Machine, Power Distribution and Furnace Transformers and other equipment for Steel Plants, Foundries, Induction Heating and Hardening equipment for Heat Treatment.

E&P division is a customer centric organization delivering total solutions. It is particularly renowned for providing end-to-end solutions for steel melt shops from iron ore to long product, supplying sturdy and highly efficient plant and machinery and rendering outstanding pre and post sales services to its customers around the world. Due to high level expertise and vast experience, Electrotherm (E&P) is the most preferred mini steel plant maker up to 1 million ton per year capacity through various alternative routes. Moreover, Electrotherm (E&P) is the only Indian company having CE marking for its Induction Furnaces, LRF and MRK, certified by UL Laboratories, USA.

ET-EHG (Electro Hydraulic Grabs) are ideal for handling large volumes of scrap. Design of the grab generates a very high gripping force due to vertically mounted large cylinders and claw geometry. Specially designed ET-EH Grabs can be mounted on EOT Cranes, wheel loaders and tracked excavators.

Innovative design allows ET-EH Grab to incorporate a very robust mechanism powered by in-built hydraulic system for grabbing the scrap. Each of the independently operated claws is set in motion by double acting cylinders. This allows ET-EH Grabs to have a good grip on asymmetrical objects and loose material.

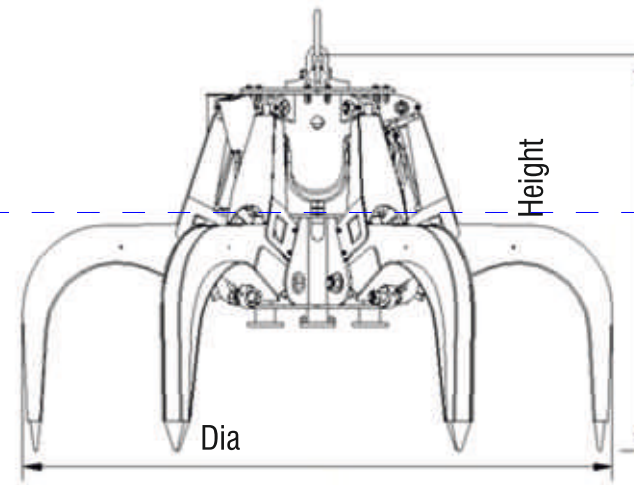
Structural parts of ET-EH Grabs are made of high tensile strength steel, while the parts that normally come in contact with scrap are made from wear resistant special steels. Hardened steel pins and special bushings are used at all junction points of the grab.

ET-EH Grabs can comfortably work in typically harsh melt shop conditions protected from furnace heat and dust by protective covers.

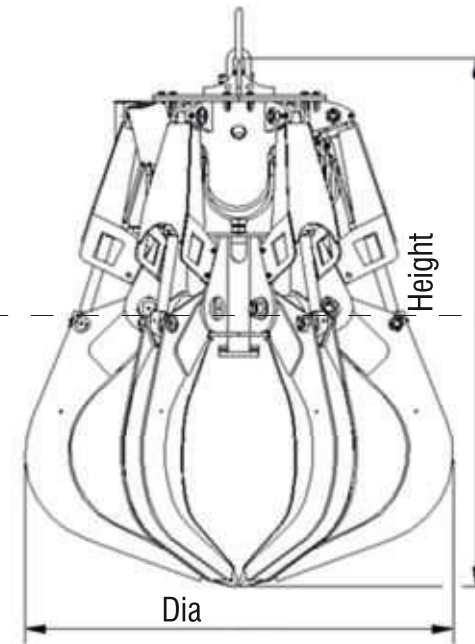
## Salient Features of ET-EH Grab

Following are the benefits of grab over electromagnet:

- Grab can collect scrap almost 3 to 4 times than electromagnet of equivalent rating.
- Much less power consumption as compared to electromagnet of equivalent capacity.
- Reduces operations of EOT cranes.
- No risk of insulation failure.
- Handling scrap with electromagnet on furnace platform reduces the life of platform as magnetic flux of electromagnet pulls up the reinforced steel rods in side concrete slab. This does not happen with ET-EH Grab.
- Simple electrical reversible DOL starter circuit. No need of isolation transformer, diodes, electronic components. Thus, no failures happen which are common in electromagnets.
- Lesser dead weight compared to equivalent capacity of electromagnet. Hence, crane of lower capacity is required.
- Grab does not drop scrap in case of power failure, which is a danger with electromagnet.
- Use of single CRD to carry 3-phase cable, all controls mounted on crane and cabin.

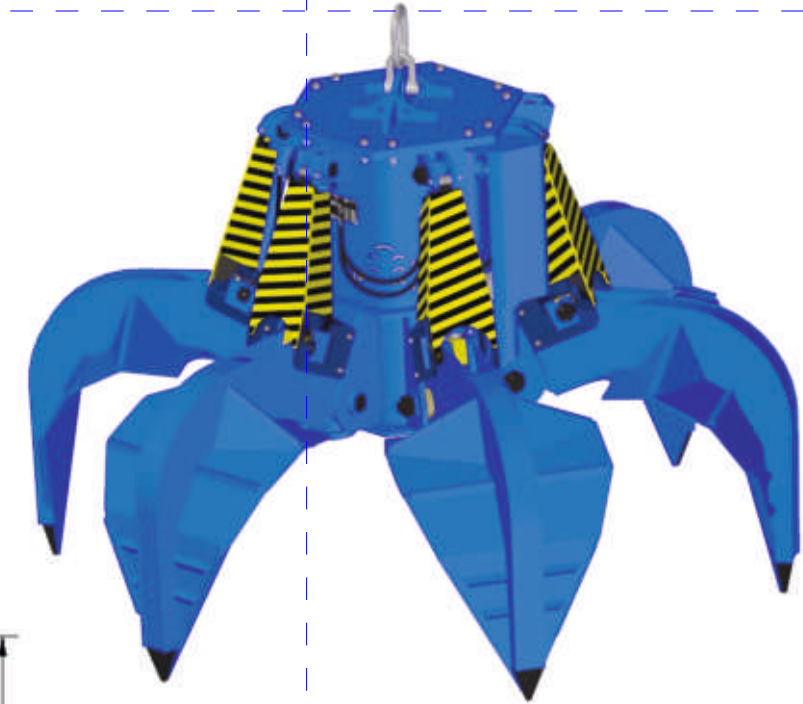


OPEN CONDITION

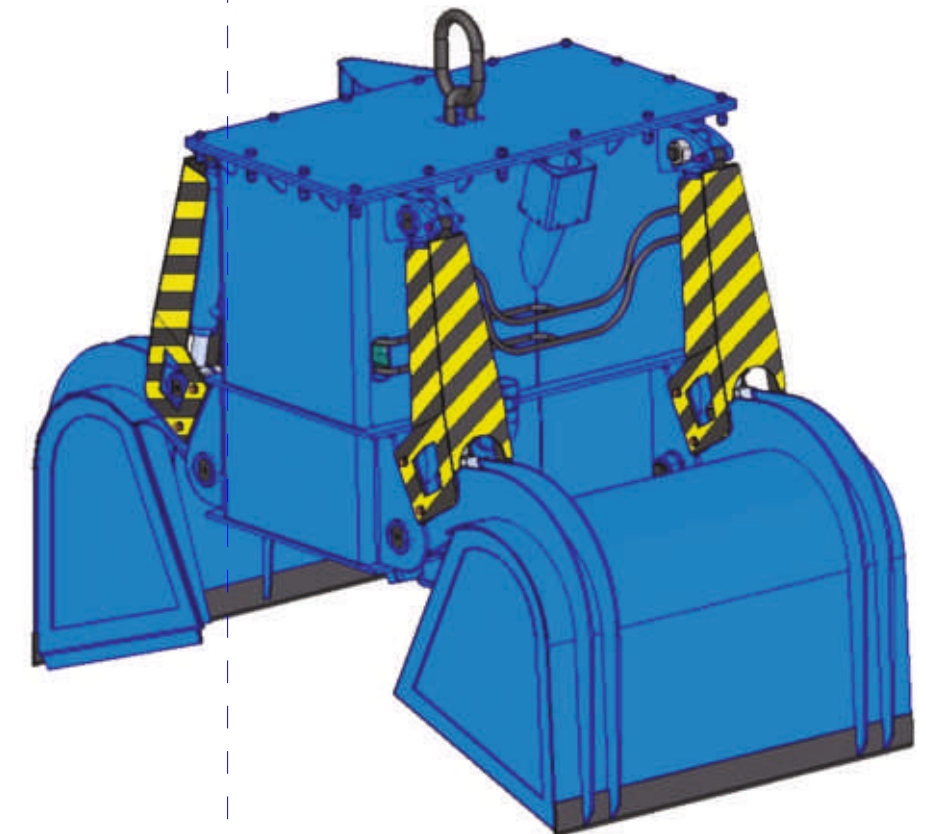


CLOSE CONDITION

GRAB INFORMATION	1.5 m <sup>3</sup>	2.5 m <sup>3</sup>	3 m <sup>3</sup>
TYPE OF MACHINE	ORANGE PEEL GRAB	ORANGE PEEL GRAB	ORANGE PEEL GRAB
REFERENCE	ETEHG-155-W	ETEHG-256-W	ETEHG-306-W
POWER UNIT	ELECTRO-HYDRAULIC	ELECTRO-HYDRAULIC	ELECTRO-HYDRAULIC
MATERIAL TO BE HANDLED	STEEL SCRAP/SPONGE IRON	STEEL SCRAP	STEEL SCRAP
CAPACITY (m3)	1.5 m <sup>3</sup>	2.5 m3	3 m3
<b>OPERATIONAL DATA</b>			
MOTOR (kw)	22 KW	37 KW	37 kw
WEIGHT (kg)	2900 kg	4200 kg	4500 kg
OPEN DIA	2960	3855	4055
CLOSE DIA	2020	2510	2620
OPEN HEIGHT	2040	2620	2707
CLOSE HEIGHT	2320	3165	3297
WORKING PRESSURE (bar)	120 bar	180 bar	180 bar
OPENING TIME AT LOAD (s)	9 Sec	13 Sec	13 Sec
CLOSING TIME AT LOAD (s)	6 Sec	17 Sec	17 Sec



LOW HEIGHT GRAB ETEHG-155-L / 256-L (LOTUS) FOR SPONGE IRON / SCRAP



ETEHG-152-C (CLAM SHELL) FOR SPONGE IRON