



**PADIDEH
FOULAD ARAS**



Slag Breaker

Hydraulic Slag Breaker

A hydraulic slag breaker, also known as a hydraulic slag crusher, is a device responsible for breaking up accumulated slag using a hydraulic pusher plunger.

Slag, in this context, refers to an artificial and by-product material produced during the separation of iron in blast furnaces from impurities present in iron ore.

Slag is a complex combination of silicates and metallic oxides that remain after impurities cool down. Several types of slag are generated at various stages of iron production, including furnace slag (taphole slag), sand-casting slag, artificial or Pouring Ladle slag, and residual open-hearth slag. Slag is often considered a problem and defect in casting, as its entry into the molten metal significantly reduces the mechanical properties of the component.

All hydraulic slag breaker devices produced by Padideh Steel Engineering Company are designed using up-to-date engineering software and with the selection of suitable materials. During the manufacturing process, all primary tests are conducted on materials, including UT (Ultrasonic Testing), and welding processes are under control with precise inspections, including UT and VT (Visual Testing). In this regard, it provides customers with increased reliability and confidence in the quality of the products.