# EtaBriq® Press

## High efficiency briquetting lines


The Metso EtaBriq press is a high-performance briquetting press, designed to process large quantities of chips, both in the metal processing and the recycling industries. Excellent results are achieved when processing steel, copper, aluminium and brass, but also when briquetting grinding sludge, mixed with chips. The goal is to produce high-quality briquettes for cost-optimized transportation and sale to the end users at the best prices.

### 3 advantages of high-density briquettes produced with the EtaBriq®

**Better logistics**

reduced volume resulting in lower storage and transportation costs combined with high impact and wear resistance

**Easier handling**

easier handling and better metering when re melting

**Better sale**

increase in the melting-down efficiency=less melting loss and, thus, higher metal yield

### Flexible briquette length and density

The briquette length and density can be flexibly adapted to the feedstock and the end customer's requirements. Briquettes of optimum quality are always produced with maximum throughput capacity and minimum wear. The control system of the machine automatically adjusts to the feedstock.

### More profit on resale

Due to the unique Metso Recycling double-sided pressing technology, the Metso EtaBriq produces superior high-density briquettes. Apart from increased impact resistance when transporting, the Etabriq briquettes sink more quickly into the molten metal bath and loseses due to abrasion or surface burn-off are kept to a minimum.

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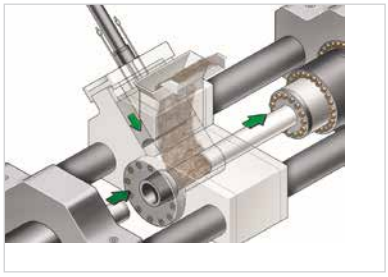
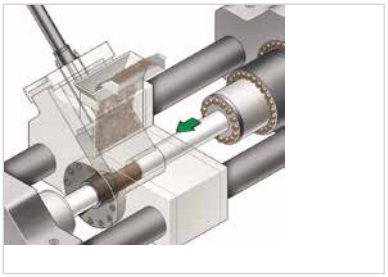
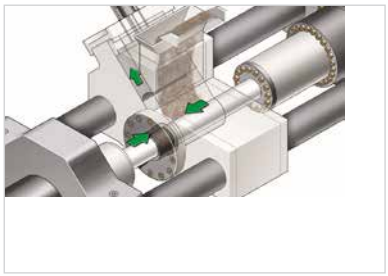


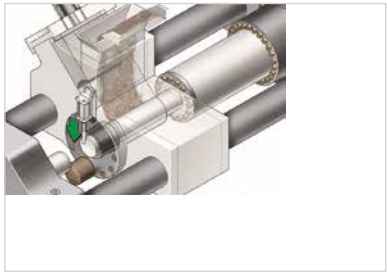
**1. Filling**
The material to be briquetted slides into the filling chamber while the main compaction cylinder moves back and the counter compaction cylinder moves forward. The filling chamber is closed



**2. Pre-compaction**
The main compaction cylinder pushes the material to be briquetted into the compaction bushing. Cutting of the material and the wear connected with this are avoided



**3. Compaction**
Pressing forces accumulate between the two compaction rams and a high-density briquette is produced. During the compaction precess, the pre compactor lifts again and new material slides in.



**4. Ejection**
The main compaction cylinder moves forward again and ejects the briquette. The stripper reliably ensures separation from the compaction ram even with difficult materials.

## Technical Data

| Type | Briquette dimensions | | Power | Compression Force | Production capacity* (TPH) | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Dia (inch) | Length (inch) | (HP) | TON | Steel | Aluminium | Cast iron | Brass | Copper |
| EtaBriq® 630 | 5.5 | 2.3 - 8.25 | 2 x 125 | 2 x 693 | ≤ 5.5 | ≤ 2.0 | ≤ 7.2 | ≤ 7.4 | ≤ 6.0 |
| | 6.1 | 2.3 - 8.7 | | | ≤ 6.7 | ≤ 3.0 | ≤ 8.9 | ≤ 7.8 | ≤ 8.1 |
| | 6.9 | 3.5 - 7.6 | | | ≤ 8.5 | ≤ 3.8 | - | - | - |
| | 7.6 | 3.5 - 7.6 | | | ≤ 10.5 | ≤ 4.7 | - | - | - |
| | 8.25 | 3.5 - 7.6 | | | - | ≤ 5.5 | - | - | - |
| | | | Briquette density | | 262 - 343 | 112 - 150 | 293 - 356 | 368 - 412 | 455 - 487 |
| | | | | (Lbs/ cuft) | | | | | |

| Mechanics | |
|---|---|
| Double-sided compaction | X |
| Pre-tensioned tie rods | X |
| Hydraulic pre-compaction | X |
| Exact dosing by vibrating chute and dosing bunker | X |
| Pre-assembled hydraulics | X |
| Lindemann valve block with built-in valves | X |
| Anti-vibration mounting of the drive units | X |
| Tank heating | X |
| Oil / air cooler | X |
| Oil filtering and cooling in the bypass circuit | X |
| Energy efficient drive | X |
| **Electrical system** | |
| Pre-assembled electrics | X |
| Magnetostrictive position measuring systems | X |
| PLC control with control panel | X |
| Pre-selection of briquette length with control circuit | X |
| Pump test/ cylinder test | X |

| Options | |
|---|---|
| Bunkers with discharge screw conveyors | O |
| Chip conveyors | O |
| Turning crushers | O |
| Screening devices | O |
| Centrifuges | O |
| Magnetic separators | O |
| Bunker extensions | O |
| Oil drip pan | O |
| Control cabin (approx. 2 m x 2 m) | O |
| Spraying device | O |
| Briquette conveyor | O |
| Increased cooling capacity (hot climates) | O |
| Air-conditioning for switch cabinet | O |
| Modem for data transmission | O |

X = Standard  O = Optional