

ECOWEIGHT

Zero Emission

IMPEX Inc., the leading manufacturer of home gyms and strength benches, introduces the first ever, environmentally friendly ECOWEIGHT. This new process generates zero emission, eliminates worker exposure to harmful gases, and produces a stronger higher quality casting.

ECOWEIGHT New Method

- ✓ Fully automated machines replace traditional manual labor and produce a cleaner cast, eliminating workers from having to patch and fill perforated holes and imperfections
- ✓ The new method eliminates all HAP's and toxic fumes.
- ✓ The "cold cast mass element" process is controlled in the matter of grams allowing for more precision and accuracy.

ECOWEIGHTS

- ✓ 100% Environmentally friendly and recyclable
- ✓ They don't stick together or emit odors that can transfer onto user's hands.
- ✓ They don't trigger allergic reactions and won't produce the oxidized powdery layer if exposed to outdoor elements.
- ✓ ECO technology can help reduce 160,000 tons of CO₂, 4,000 tons of HAP, 1.2 million cubic meters of waste gas, 104,000 tons of organic waste, and saves 360,000 tons of water – equivalent of eliminating 42,000 cars on the street annually



Old Cast Iron Method

- A Cupola furnace melts the iron through combustion of coke using a forced upward flow of heated air.
- Afterburners downstream incinerate carbon monoxide, a major by-product of coke combustion.
- Some of the coke used to fuel the furnace becomes part of the molten metal, increasing its carbon content.
- Molten iron is poured in a cast mold.



- Almost 100% of cast iron weights are produced this way.
- Through this method, Hazardous Air Pollution (HAP) is emitted into the environment, and factory workers are exposed to HAP's and toxic fumes.

