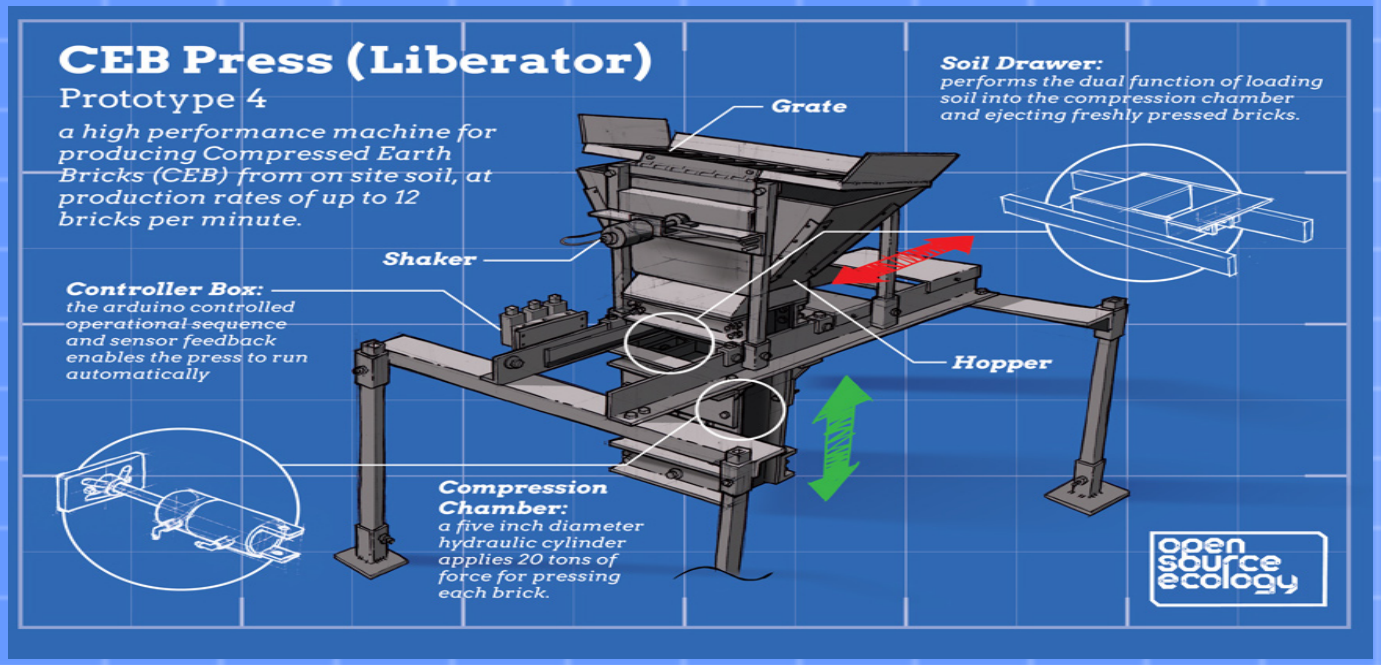
The Compressed Earth Brick (CEB Press is part of of the Global Village Construction Set (GVCS) - a modular, DIY, low-cost, high-performance platform that allows for the easy fabrication of the 50 different industrial machines that it takes to build a small, sustainable civilization with modern comforts.

The Liberator is a high-performance compressed earth brick press. Compressed earth building is the highest quality natural building method. It allows you to build structures with soil from right next to your house - avoiding transportation costs while producing natural, safe, high-quality bricks. The Liberator can produce enough bricks in a day to build a small house.

Workshops: 3 day workshops led by Marcin Jakubowski, founder of Open Source Ecology (OSE) show how Extreme Manufacturing techniques are used to build a complete, automated CEB Press in one day. Workshop immersion involves concept and practice, and includes crash courses on key elements of design, fabrication, CAD, microcontrollers, hydraulics, open documentation, and open enterprise models. We are inviting entrepreneurs interested in creating Distributive Enterprise: radically open, libre, collaborative, ethical enterprise ecosystems that accelerate innovation. We are also inviting dedicated documentors to participate in documenting the build. Participants help to improve the machine and produce documentation – to realize viral replicability of our libre hardware.

The overall workshop is designed for people interested in transitioning from Zero to Maker. We will build the complete machine from scratch, with CNC cut parts as the starting material. Most of the build will involve welding, followed by assembly. We will also build the automated controller, and assemble the hydraulic system from components. This workshop is intended for people interested in immersion, hands-on training – and for those who want to: build, build with, or create enterprises around – the CEB Press.



Workshop Learning Outcomes

Design

Modular design, test-driven development, and parallel development
Design for fabrication, scalability, and lifetime design
Computed-aided design – basics of Sketchup and FreeCAD
Generation of computer manufacturing files
Basic Mechanical Design
Fundamentals of hydraulic system design
Basics of safety engineering
Workshop and workflow design

Build

Fundamentals of metal fabrication: welding, torching, and more
Electronics assembly
Prototyping with a 3D printer
Paralle build techniques
Hydraulic systems
Use of measurement tools, such as temperature and pressure sensors

Documentation

Collaborative editing of documentation using wikis and cloud-based documents
Use of Sketchup and FreeCAD for documentation
Using Trovebox, YouTube, Blender, and OpenShot for real-time multimedia documentation and instructionals

Upcoming Workshops

TBA

open source ecology

The Liberator

The world's first open-source compressed earth brick press

Build yourself.
Build your world.