

ESTD 1989



AECT

ADVANCED EARTHEN CONSTRUCTION TECHNOLOGIES
10608 CASSIANO RD.
SAN ANTONIO, TX 78223
(210)400-9831
AECTEARTHBLOCK.COM

Fireplace and
garden border
created in Houston,
TX using:

TexaTerra Blocks

See page 12

2021 Catalog

A message from AECT President, Ryan Runge



Thank you for your interest in AECT compressed earth block products and services. Advanced Earthen Construction Technologies was established in 1989 and has been building quality equipment and providing unparalleled support for the earthen construction industry ever since. AECT's various CEB machines produce anywhere from 240 to 480

compressed earth blocks per hour and are extremely energy efficient, consuming a minimal amount of electrical power or diesel fuel. We have been involved in projects in more than 50 countries around the world and are continually working to make advancements that reduce construction time and labor costs. Through the work of AECT, compressed earth blocks have become a viable building material that can be mass-produced to high technical standards. AECT's portable, self-

contained CEB machines allow builders to produce compressed earth blocks on site, reducing cost and carbon footprint for both residential and commercial construction.

Earthen construction has stood the test of time (at least 5,000 years by most accounts). It's hard to argue with a building material that's natural, fireproof, bullet proof, tornado proof, hurricane proof, insect proof, eco-friendly, durable, and overwhelmingly beautiful! CEB construction, made possible through the use of AECT compressed earth block machines, offers a natural, environmentally friendly and inexpensive method of building...and because of the high energy efficiency of the earth blocks themselves, the real savings is in the reduced energy cost experienced over the life of the home.

The AECT compressed earth block system is helping to re-establish earth as a primary building material. We're glad you found us and hope you'll join us in showing that the world's search for a durable, eco-friendly, inexpensive, and beautiful means of construction is over!

Semper Terrae

R. Ryan Runge
President

AECT Product and Service Offerings

At AECT, we aim to progress earthen construction in any way we can. That means supporting all aspects of earthen construction - from selecting earthen material...to putting the finishing touches on a new CEB home. Here is a summary of our full range of services:

Machinery and Equipment Manufacturing and Sales

- CEB machines
- Material mixers
- Testing equipment
- Auxiliary equipment for CEB production

Block Sales

- Our **TexaTerra Blocks** can be shipped anywhere in the U.S. (see pg. 12)
- A range of block sizes (including interlocking blocks) are available

Equipment Leasing and Support

- CEB batch-plant rental on per-block basis
- Training/Support during entire lease period

Consulting

- Material testing and selection
- Block production process flow
- Building techniques

Construction

- Custom CEB home builds



Our handmade CEB machines and Mixers

At AECT, we have been developing and perfecting our CEB machinery for over 30 years. Our best-in-the-world CEB machines are hand-manufactured right at our CEB workshop in San Antonio, Texas.



Our heavy-duty machines are made to last for decades and produce millions of blocks. We have sold them into over 50 countries around the globe, and they are world-renowned as the fastest, most advanced, most reliable CEB machines ever built. Specifications and prices for each of our machines are shown below.

Impact 2001A



The Impact 2001A is the smallest, least expensive CEB machine that we make. This machine is automated and produces 300 CEBs per hour. It's fed by a smaller hopper that can be loaded using shovels, buckets, or a power conveyor. This machine is perfect for someone who only needs to build one to five houses. The Impact is lightweight and can be hauled behind any vehicle.

Weight: 1,640 lbs. (744 kg)

Dimensions: 6' 9" (206 cm) long x 5' 8" (173 cm) wide x 4' 3" (130 cm) tall.
Road clearance approximately 6" (15 cm)

Engine: 7.0 HP Yanmar diesel engine

Hopper Capacity: 8 - 9 blocks, depending on block thickness

Block Production: 300 blocks per hour

Block Dimensions: 6" x 12" (block thickness can be set between 2" and 4.5")

Options: Holey block plate set, 4" x 12" veneer block plate set

Prices:

Impact 2001A (with standard 6" x 12" press plate)	\$39,000
optional holey block variant	\$41,000
optional 4" x 12" veneer block plate set	\$4,000
Spare parts package	\$5,640

5' removable gravity roller conveyor and stand are included

2500HD



The 2500HD produces the same sized block as the Impact 2001A, but it produces 480 blocks per hour and has a one-yard hopper to facilitate loading with a tractor. If you like working with the 6" x 12" blocks, and you need to manufacture tens of thousands of blocks fast and without much effort, then the 2500HD is for you!

Weight: 4,000 lbs. (1,814 kg)

Dimensions: 11' 1" (338 cm) long x 6' 9" (206 cm) wide x 7' 1" (216 cm) tall when hopper is closed (9' 1" (277 cm) tall when hopper is open). Road clearance approximately 12" (30.5 cm)

Engine: 22 HP, 3-Cylinder, water-cooled Yanmar diesel engine

Hopper Capacity: One cubic yard of material; 85 - 105 blocks, depending on block thickness

Block Production: 480 blocks per hour

Block Dimensions: 6" x 12" (block thickness can be set between 2" and 4.5")

Prices:

2500HD

\$79,000

Spare parts package

\$8,554

5' removable gravity roller conveyor and stand are included

3500



The AECT 3500 is the Cadillac of CEB machines. It's big, it's fast, it's versatile, and it's built to last. There are 3500s out in the field today that have made a million, two million...even three million blocks! If you need to make lots of big CEBs fast and with ease, this is your machine.

Weight: 5,200 lbs. (2,359 kg)

Dimensions: 13' 8" (417 cm) long x 7' 5" (225 cm) wide x 6' 10" (208 cm) tall when hopper is closed (8' 11" (272 cm) tall when hopper is open). Road clearance approximately 12" (30.5 cm)

Engine: 47.5 HP water-cooled Yanmar diesel engine

Hopper Capacity: One cubic yard of material

Block Production: 480 blocks per hour

Block Dimensions: 10" x 14" (block thickness can be set between 2" and 4.5")

Options: 7" x 14" plate set, 8" x 14" plate set

Prices:

3500 (with standard 10" x 14" press plate)	\$149,000
optional 7" x 14" or 8" x 14" plate set	\$4,920
Spare parts package	\$11,251

10' removable gravity roller conveyor and stand are included

BP714



Depending on your project application, and in certain jurisdictions (California for example), interlocking, holey blocks may be your required CEB type. Our BP714 produces this type of block. In contrast to our other CEB machines, the BP714 is not yet automated; instead, hand-operated levers are used to complete the block production cycle. We plan to automate and develop a trailer-mounted version of the BP714 in the coming year. Monitor our website www.AECTearthblock.com for more details on this exciting development!

Weight: 2,400 lbs. (1,089 kg)

Dimensions: 8’4” (255cm) long x 3’ 5” (104 cm) wide x 6’ 8” (204 cm) tall

Power Source: Diesel, Gas, Electric, or PTO

Hopper Capacity: 30 Gal (4 cu ft) [113.6 L (0.1 cu M)] approx. 14 blocks

Block Dimensions: 7” x 14” (block thickness can be set between 3.5” and 4.5”)
Interlocking hollow block shape for reinforceable construction

Prices:

BP714	\$59,000
basic spare parts package	\$1,588
standard spare parts package	\$3,696
premium spare parts package	\$4,411

Mega Mixer



No matter which model of our world-class CEB machines you decide to buy, in order to get the full capability out of your machine(s), you will need a good, efficient material mixing capability. Our Mega Mixer is the solution to the earthen construction industry's challenge of mixing a lot of earthen material fast, effectively, and for the long haul. This mixer has a large hopper for earth, a smaller hopper for

stabilizer (cement or lime), a large basin with a heavy-duty auger for mixing, and a water rail for infusing the correct amount of moisture into the mix. A power conveyor can be used to transfer the mixed material from the mixer into the hopper on your CEB machine. The Mega Mixer mixes 10 cubic yards of material per hour; this is enough to feed a 3500, 2 x 2500s, 3 x Impact 2001s, or 4 x BP714s

Weight: 5,000 lbs. (2,268 kg)

Dimensions: 14' 6" (442 cm) long x 7' 2" (219 cm) wide x 6' 3" (191 cm) tall when hopper is closed (8' 0" (244 cm) tall when hopper is open). Road clearance approximately 12" (30.5 cm)

Engine: 47.5 HP water-cooled Yanmar diesel engine

Hopper Capacities:

Earth Hopper:	One cubic yard
Stabilizer Hopper:	10 cubic feet

Production: Mixes up to 10 cubic yards of earthen material per hour

Mixing Trough: Rubber trough with bolt-on replaceable paddles

Prices:

Mega Mixer	\$149,000
Spare parts package	\$4,785

Auxiliary Equipment

Small Block Press

\$2,100



We manufacture the AECT Small Block Press at our factory in San Antonio, Texas. The Small Block Press tests earth samples over the same pressures and moisture ranges used by our full-size AECT CEB machines. This press operates over a pressure range of 1,000 to 6,000 PSI and produces a 2.5" x 3.5" x 1" earth block - a 1/4 scale size version of the typical 10" x 14" x 4" CEB produced by the AECT 3500 machine.

The AECT Small Block Press is simple to use and provides the user with important information related to the block strength characteristics and block-making viability of earth samples, both in the laboratory and in the field.

Block Cutter

\$795



Our AECT block cutter makes straight cuts on un-stabilized CEBs (or stabilized CEBs that have not yet cured) in seconds. This device is simple to use and provides the user with a fast, repeatable, and effective way to cut blocks without the need for electricity or expensive blades.

AECT PRICE LIST

2001AL

SAL 2001AL	Automatic – 300 blocks (6" x 12") per hour	\$39,000
SAL 2001ALH	Automatic – 300 holey blocks (6" x 12") per hour	\$41,000
SAL 2001AL4	Automatic w/extra 4" x 12" plates for veneer blocks	\$43,000
SAL 2001A	Spare parts package	\$ 5,640

2500HD

2500 HD	Automatic – 480 blocks (6" x 12") per hour with 1-yd hopper	\$79,000
2500 HD SPP	Spare parts package	\$ 8,554

MC3500

MC3500	Automatic – 480 blocks (10" x 14") per hour	\$149,000
MC3500	7" x 14" or 8" x 14" plates added	\$ 4,920
MC3500 SPP	Spare parts package	\$11,251

BP714

BP714	Manual, on skids – 240 interlocking holey blocks (7" x 14")/hr	\$59,000
BP714A	Automatic, on skids – 300 blocks (7" x 14") per hour	\$67,000
BP714MA	Automatic, on trailer – 300 blocks (7" x 14") per hour	\$72,000
BP714 SPP-B	Spare Parts Package – Basic	\$ 1,588
BP714 SPP-S	Spare Parts Package – Standard	\$ 3,696
BP714 SPP-P	Spare Parts Package – Premium	\$ 4,411

Mixer

MX10	10 yards of material per hour	\$149,000
MX10 SPP	Spare parts package	\$ 4,785

Accessories

Small Block Press for testing	\$ 2,100
Block Cutter	\$ 795
5' Roller Conveyor with one stand	\$ 595
10' Roller Conveyor with two stands	\$ 795
Conveyor Stand	\$ 119

ALL PRICES ARE FOB SAN ANTONIO, TX. USD

Shipping and loading are not included in these prices.

Due to volatile steel, oil and transportation prices, these prices subject to change with 30 days notice.

TexaTerra Block



In addition to selling CEB-making equipment, AECT also produces and sells stabilized CEBs for shipping all over the U.S.A.

TexaTerra Blocks are made using our tried and true mix design using local San Antonio earth.

These blocks are beautiful, strong, and perfect for garden beds, pavers, firepits, barns, homes, and more. Let your imagination run wild!

Prices (not including shipping):

6" x 12" x 3.5" TexaTerra Block



\$2.40 per block
\$240.00 per pallet (100 blocks)

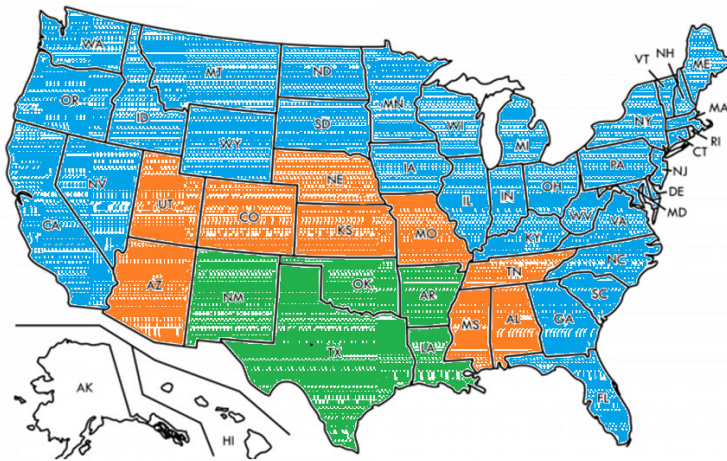
10" x 14" x 3.5" TexaTerra Block



\$3.00 per block
\$150.00 per pallet (50 blocks)

Machinery Rental

AECT machinery can be rented with an operator. Our CEB batch plant consists of a 3500 CEB machine along with a Mega Mixer, a 20-foot power conveyor to feed mixed earth from the mixer to the 3500, power and gravity conveyors, with stands, to convey finished blocks away from the CEB machine and onto pallets, block cutters, spare machine parts, and all tools needed to maintain and repair machinery during the course of your project. Mobilization, which includes batch plant transport/set up, soil testing/selection, equipment fine-tuning, and initial crew training, typically takes about a month. Mobilization of our batch plant to your location is priced according to the map below.



Green zone \$20,000

Orange zone \$25,000

Blue zone \$30,000

The 3500 CEB machine can make block sizes of 10" x 14", 8" x 14", and 7" x 14" (thickness can be set anywhere from 2" to 4.5"). In addition to the mobilization cost, the cost structure of renting the batch plant is as follows:

Customer provides labor

\$1.00 per block

AECT provides labor

\$2.00 per block

Customer is responsible for providing tractors (front loader), forklifts, earth, sand (if applicable), stabilizer (typically cement or lime), water, fuel, electric services, hydraulic oil, pallets, plastic wrap, secure tool storage, and lodging for AECT resources.

Consulting Services

At AECT, we have been at the forefront of the CEB industry since 1989. During the past 30+ years we have conducted more research and accumulated more experience in the CEB field than any other entity in the world. Today, we use our expertise to further the CEB construction movement around the globe. From soil testing and selection to process flows, our experts can provide invaluable knowledge and recommendation to those just beginning their CEB journey as well as professionals in the field looking to optimize their operations. Our services include but are not limited to:

- Soil testing and selection
- CEB machinery usage and calibration
- CEB machinery maintenance
- Construction site setup
- Block stacking and curing methods
- Block-production process flow
- Story-pole and level-line setup
- CEB construction process flow
- Slurry techniques
- Block laying methods
- Block cutting methods
- Methods of running utilities
- Earthen floor process
- Earthen plaster process
- Lime plaster process
- Home design



Consulting Rates (not including travel and lodging)



Daily Rate:
\$1,500

Weekly Rate:
\$5,000

The AECT Mission

Thank you again for your interest in AECT, where our mission is to:

“Advance the CEB industry, in the United States and around the world, by developing the best CEB machinery on the planet, educating anyone interested in building with CEBs, and seeking opportunities to build new CEB structures.”



We're glad you found us, and we're eager to help bring your CEB vision to fruition. Call us today at:

210-400-9831

Or send an email to:

ryan@AECTearthblock.com

And you can always come visit us at our headquarters in San Antonio, TX to see where we manufacture our CEB machines, watch our machinery in action, check out our line of **TexaTerra Blocks**, and take a tour of a CEB home. Come check us out at:

**AECT
10608 Cassiano Rd.
San Antonio, TX 78223**

We're open Monday through Friday, 8:00 to 5:00, and Saturday by appointment.

We'll look forward to hearing from you!

Semper Terrae,

R. Ryan Runge
President