

# Shop Tool Can Make “Almost Anything”

“About 7 years ago I designed and built a portable universal fabricating device. To advertise the machine, I used a picture of a pedal-powered playground-size yellow Ferris wheel that I built for my grandkids, and sales took off,” says Marshall Bulle about his UF-25H Universal Fabricator.

He says the Fabricator is ideal for any project that requires forming square and round tubing, pipe, flat and solid bars. Most bending is done in 45, 90 or 180 degree bends, and he says that’s where the device really shines. He’s used it to build a merry-go-round, swing sets, lawn furniture, a greenhouse, 4-wheeler racks, ladder racks, brush guards, dune buggys, go carts, trailer hitches, ornamental railings, gates, and fences.

The Fabricator has a standard lock-n-stop gauge with an engraved numbering system. The gauge allows the user to repeat precise angles at a later time. Bulle has written plans books that include step-by-step directions for many different projects which he’s first built himself. In 7 years of selling the Fabricator he’s never had a complaint about the machine and very few questions about how to use it. He’s had industrial arts teachers tell him that students can easily understand the directions and many have used the fabricator to build projects that they’ve sold to bring in money for their schools.

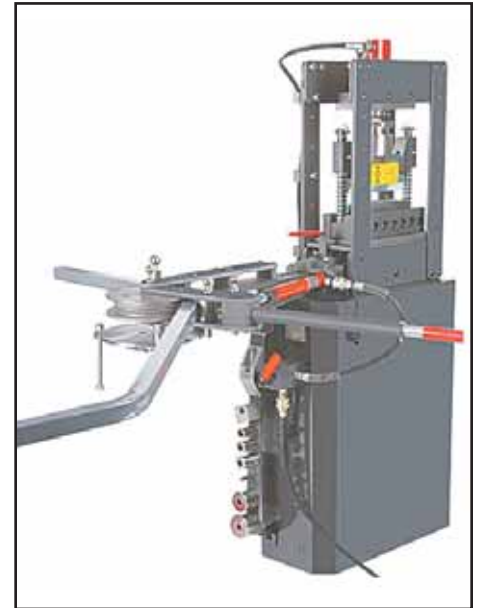
The Universal Fabricator sells for \$6,998



The inventor of the Universal Fabricator used it to build this pedal-powered Ferris wheel for his grandkids.

plus shipping. Different attachments for producing scrolls, twists, bending square and round tube, flats and angles are available. The company also sells two different sizes of ring rollers.

He built the wheel in about a week, which included drawing up the plans, fabricating the parts, assembling, welding and painting. The triangular base frame is made of round tubing and the wheel frame is made of square tubing. The wheel rides on bearings at the top of the base frame and is driven by a bicycle-type pedal system on one side. The pedaling, typically done by an adult, turns the wheel slowly with a chain drive. Both seats on the wheel have safety



Universal Fabricator works great for any project that requires forming square and round tubing, pipe, and flat and solid bars.

restraints so kids can’t accidentally tumble out. Says Bulle, “I’ve had a lot of experience fabricating and building, so I probably made the wheel faster than most people can, but anyone who’s adept at building can quickly learn how to use the fabricator and build the wheel and other things.”

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## Chainsaw Holder Cuts Small Tree Limbs Fast

“It’s always a problem to keep my chainsaw out of the dirt while cutting small tree limbs. And I got tired of having to bend over all the time. So when I saw this idea for a chainsaw holder on the internet, I decided to build my own,” says Ward Clark, Ludlow, Maine.

Clark uses the chainsaw holder with a Husqvarna chainsaw equipped with a 16-in. bar. The holder is made entirely of wood and is fitted with brackets that slip over the side rail on a small yard trailer that Clark pulls behind his garden tractor. To cut wood, he pushes the tree limbs down on top of the bar and the cut piece falls into the trailer.

“It works great on tree limbs up to 3 in. in dia.,” says Clark. “A big benefit is that I can take the holder out to the woods with me and cut the wood there instead of having to haul it back home and cut it.”

Key to success of the setup is a “trigger rod” that revs up the chainsaw when it’s cutting. It consists of 2 pieces. A short rod runs through the handle, under the trigger. It connects to a pivot point with a longer

“spring-loaded” rod that runs alongside the chainsaw bar.

At rest, the rod is about 3 in. above the bar, moving up and down through a slot in a vertical wood bracket that bolts to the bar.

As the operator pushes the tree limb down onto the bar it pushes the front end of the rod down, which raises the back end and forces the cross rod up against the throttle trigger to rev up the saw’s engine.

“It works fast. I can cut a whole trailer load of firewood in only about five minutes,” says Clark. “Because the front end of the rod is 3 in. higher than the bar, by the time the wood hits the bar the engine is already going at full speed. Once the wood has been cut and drops into the trailer the front of the rod springs back up and the cross rod drops off the throttle to slow the engine down to idle and I’m ready for the next cut.”

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Wooden chainsaw holder is fitted with brackets that fit onto side of yard trailer. As Clark pushes tree limbs down on top of chainsaw bar, the cut piece falls into trailer.



“Trigger rod” revs up chainsaw. It consists of a short rod that runs through chainsaw handle and under the trigger, and a longer “spring-loaded” rod that runs alongside chainsaw bar.