

**NOT FOR SALE** - THIS IS EVALUATION UNIT INFORMATION

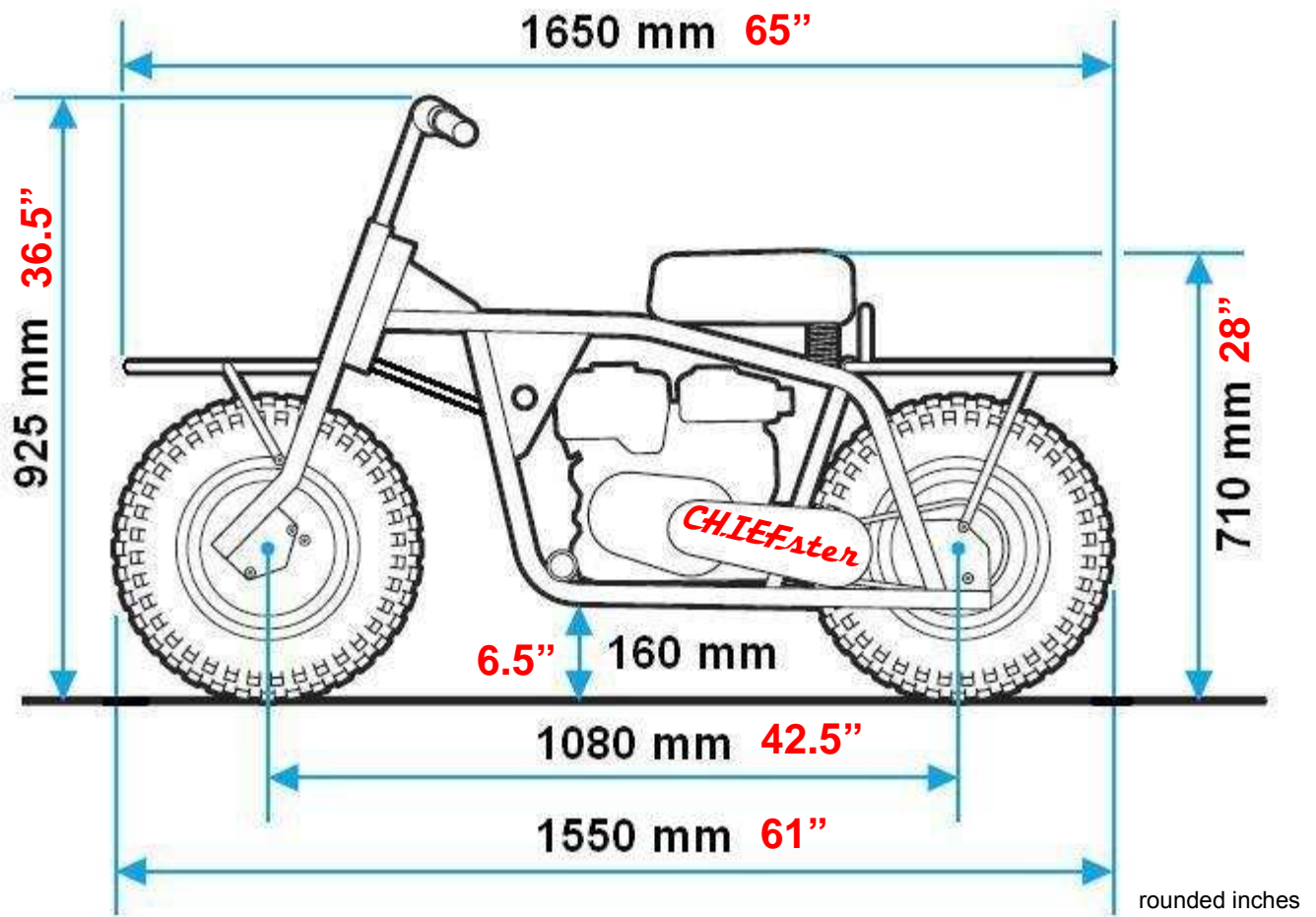


General description and specifications

Product description: Incident Commander's one track vehicle

Product name: **CHIEFster™**

Technical data



Width: - handlebars, tip to tip, 685mm, 30"  
- frame with motor, 385 mm, 15"

# THIS IS A TEST & EVALUATION UNIT INFORMATION



## General description and specifications (continued)

Work bike weight data:

Work bike total: including fuel, 78kg, 171 lbs

Max. weight, load included: 257 kg, 565 lbs (wheel bearings limited)

Max. front axle load: 128.5 kg, 282 lbs (wheel bearings limited)

Max. rear axle load: 128.5 kg, 282 lbs (wheel bearings limited)

Frame: trellis construction, 353 round steel tubing

Fork, handlebars & carriers: 353 round tubing

Tires: work bike specific, Mitas 120/90-10, max. load 300 kg, 662 lbs; 10 to 30 PSI air pressure, weigh and terrain depending

Wheel: pressed steel, 3.50 x 10

Turning radius: 1,580 mm, 4.5 feet

Brakes: front and rear disc, cable operated; disc 180 x 3.5 mm; 7" x 0.15"

Drive: primary and secondary chains

Transmission: centrifugal, continuous, wet clutch

# THIS IS A TEST & EVALUATION UNIT INFORMATION



## General description and specifications (continued, 2)

**Engine:** Subaru “Robin” EX 17, slant single cylinder, OHC,  
5.7 HP

**Class** Air Cooled Overhead Cam, Chain Drive, Gasoline Engine

**Shaft** Horizontal

**Cylinders** 1

**Displacement** 322 cc

**Cycles** 4

**Fuel** Unleaded Gasoline

**Max HP/RPM (Gross HP)** 5.7/4000    **Max KW/RPM** 4.2/4000    **Max Nm/RPM** 11.3/2500

**Bore x Stroke mm** 67 x 48

**Compression Ratio** 9 :1

**Starter** Recoil (electric at later date)

**Dry Weight lbs** 33

**Dry Weight kg** 15

**Length inches (mm )** 304

**Width inches (mm )** 354

**Height inches (mm )** 335

**Fuel Capacity US Gallons (ltrs )** 0.95

**Fuel Capacity Fl oz** 3.6

**Lube Type** SAE 10W-30, 20W,30W

**Oil Capacity Fl oz (ltrs)** 20.3 (0.6L)

**Air Cleaner** Dual Element

**Muffler (type)** Low Tone Rigid Design

**Ignition System** Solid State Transistorized Magneto

**Lube System** Splash    **Oil Sensor** Low Oil Level Optional

**Emission Rating** Tier III EPA/CARB

**Color** Black Standard

**Governor System** Centrifugal Flyweight

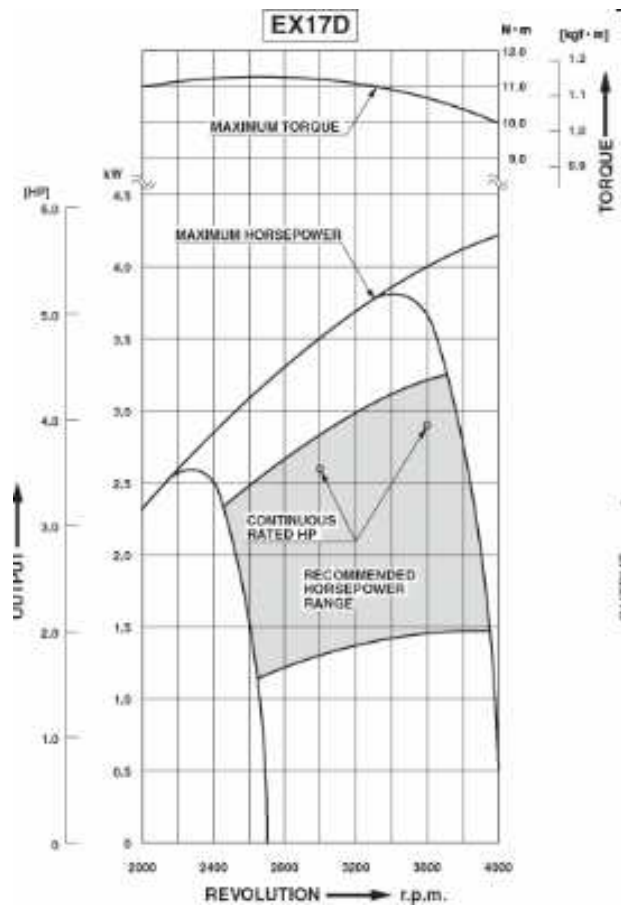
**Fuel System** Carbureted Float

# THIS IS A TEST & EVALUATION UNIT INFORMATION



## General description and specifications (continued, 3)

Engine: Subaru "Robin" EX 17, slant single cylinder, OHC.  
5.7 HP



# THIS IS A TEST & EVALUATION UNIT INFORMATION



## General description and specifications (continued, 4)

Engine: Subaru “Robin” EX 17, slant single cylinder, OHC.  
5.7 HP

- **Chain-Driven Overhead Cam** Chain-driven Overhead Cam design offers superior power and performance with an automatic decompression system to reduce the required pulling force by 30 to 40 percent, and ensure starting on the first pull. EX engines start instantly – even at temperatures as cold as -10 degrees C – without any perceptible kickback.
- **Spheroidal Graphite Cast-Iron Crankshaft** The crankshaft is made of spheroidal graphite cast iron, and the crank pin is high-frequency induction hardened. Both the crank sprocket used to drive the chain, and the gear used to drive the governor gear, are pressed on the output end of the shaft.
- **Heavy-Duty Piston Rings and a Cast-Iron Cylinder Liner** Heavy-duty piston rings coupled with a cast-iron cylinder liner resist wear and ensure a long engine life.
- **Pent-Roof Combustion Chamber** Pent-roof combustion chamber enables optimum intake and exhaust valve placement for maximum engine performance and efficiency
- **Hardened Steel Rocker Arms** Hardened steel rocker arms with precision tappet adjusters are used for greater durability and reduce service requirements.
- **Aluminum Alloy Die-Cast Connecting Rod** The connecting rod is a specially heat-treated aluminum alloy die-casting. Its large and small ends function as bearings. A splasher built into the connecting rod lubricates by splashing engine oil. The piston is an aluminum alloy casting with grooves for mounting compression and oil rings.
- **Optimized-Capacity Rigid Muffler** Optimized-capacity rigid muffler and 33 percent fewer moving valve train parts than OHV designs, reduce mechanical noise levels a full 2 decibels below competitive models.
- **NO Special Tools Needed** Even though the EX series of engines bring the latest technology, performance, and durability to the industrial air cooled engine market, there are no special tools required to work on them. Most shop tools that small engine mechanics currently own will also work on these engines for service or complete tear down. Subaru engineers achieved their commitment to 'keep it simple', while utilizing the latest technology.
- **Three-Year Limited Warranty** Subaru provides a three-year limited warranty. See <http://www.robinamerica.com/media/files/warrantystatementforengines,generators,andpumps128601732848296250.pdf> for details.