

# 680ES

## Deep Cutting, Gas Powered Saw

Built to meet the operation and flexibility demands of the general construction user, the 680ES stands alone in terms of reliability and value. Easy to start with a new multifunction lever to control choke, run, and stop functions. The distinctive black powerhead houses specially designed carburetion and ignition systems that work together to ensure easy starting, cooler operation and dependable performance at just about any elevation. Available with 12-inch (30 cm) and 14-inch (35 cm) guidebars and the entire line of MAX series diamond chain.

## 680ES PRODUCT SPECIFICATIONS

Engine Type	2-stroke, Air Cooled
Displacement	76.5 cc (4.7 cu-in)
Horsepower	3.7 kW (5 hp) @ 9,500 rpm
Torque	4.1 Nm (36.3 in-lbs) @ 6,500 rpm
Engine Speed	11500 +/- 500 rpm (max) 2,800 - 3,200 rpm (idle)
Chain Speed at Maximum Power	34.5 m/s (6800 ft/min)
Weight	9.5 kg (21 lbs) powerhead only
Powerhead Dimensions	46 cm (18 in) length 29 cm (11.5 in) height 25 cm (10 in) width
Starter	Dust and water resistant
Ignition	Special water resistant electronic ignition
Fuel ratio	4% (25:1) gasoline-to-oil
Fuel Capacity	0.88 liter (0.23 gallon)
Water Supply Requirement	Minimum 1.5 bar (20 psi)
Water Flow Requirement	Minimum: 4 lpm (1 gpm)
Guaranteed Sound Power Level, $L_{wa}$ (1)	117 dB(A) ( $K_{wa}=3.0$ dB(A))
Equivalent Sound Pressure at the Operator's Ear, $L_{pa}$ (1)	101.0 dB(A) ( $K=2.0$ dB(A))
Vibration, $a_{hv,eq}$ Concrete Cutting (2)	7.2 m/s <sup>2</sup> ( $K=1.0$ m/s <sup>2</sup> ) Front Handle 8.5 m/s <sup>2</sup> ( $K=1.0$ m/s <sup>2</sup> ) Rear Handle

(1) Measured in accordance with ANSI S12.51-2012/ISO3741:2010  
(2) Measured in accordance with ISO5349=1:2001 and IS 22867:2011

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Polyester air filter  
designed specifically  
for wet cutting



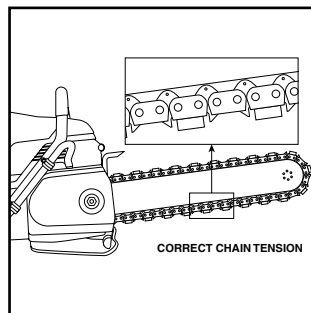
Operates TwinMAX™ bar  
and chain consumables up  
to 14" (35cm)

Multifunction lever  
controls choke,  
throttle advance, run  
and stop modes

Extended drive sprocket  
adapter offers easy  
chain assembly



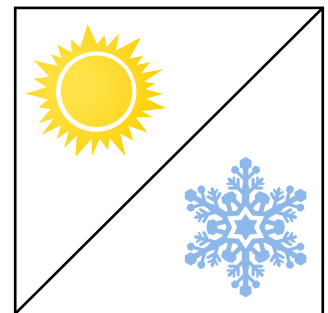
Deep cutting solution  
for obstructed or small  
openings



Easy tensioning of chain



Cut squares as small as  
4" x 4" (10 cm x 10 cm)



Easy-to-start in all weather

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