

# Duke Pro

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## D80CC - Combination Initiator 80 Caps, Shock Tube, Continuity Checker, and Power Indicator

### FEATURES INCLUDE

- Fires Mini 2~2.5mm, 1/8 commercial, and Mil 4mm shock tube.
- Fires 80 standard 2-ohm electric caps + 5 ohm lead line or 165 ohm load.
- Fires electric solenoid breech through 500 feet of wire
- Built-in continuity checker 0.5 to 160 ohms indicates short, .5 ~150, 151 160, and indicator).
- Continuity
- Built-in power safety indicator indicates if the D80CC is delivering adequate power before the shot.
- Two Button Charge / Fire Control mandatory military safety regulation.
- Under Voltage Lockout - Will not fire until fully charged and Ready lamp is illuminated.
- Rugged - Can be fired into a direct short without damage.
- Fully Submersible Design
- Fires MK-17 HERO certified cap
- **Lifetime Warranty covers everything except lost!**
- **Lowest cost of ownership of any blasting machine on the market. Free Machine Repair.** The D80 CC battery life compared to other machines is 5~10 times greater. Tip life is in the thousands of shots and this unit has a quad firing element that can be rotated 90 degrees to use a fresh element. This means 4X thousands of shots.
- **Dual Firing Quick Change Tip Interface Board** – Simultaneous fire two independent shock tube strands dual firing shock tube tip interface board single screw fast change option available.
- **LWDD or MD82** was copied from this design and passed all safety certification requirements.
- **Safety** this machine meets all requirements for safety certification that the LWDD passed. A brief listing of a just a few of those tests: PESD 25 kV discharge to 30 different points on machine, Electromagnetic Compatibility 40Hz to 18 Ghz at 150V / meter with machine fully armed (no triggering of the firing circuit or damage to machine occurred). Submersion 10 meters, MIL 202 environmental Humidity, UV, Salt Spray, Dust, operational temperature -40 ~ +85 C, drop test hard surface 6' ten times on corners, switches, and terminals, Sneak Circuit analysis, Circuit Safety Design analysis by independent engineering group, Technical Data Package including all design calculations, materials, and accurate description materials, components, assembly and quality methods to insure each and every machine meets the specified requirements, and particular circuits used to meet safety requirements including an explanation of multiple redundant safety circuits used in design.



# Specifications for D80CC

<b>Size (LxWxH):</b>	5.2" x 2.44" x 2.28" (13.2cm x 6.19cm x 5.79cm)																
<b>Weight:</b>	10 oz. (0.3 kg)																
<b>Power Requirements:</b>	One heavy duty 9-Volt alkaline battery or Lithium 9-volt preferred																
<b>Electric Output:</b>	10+ Joules at 380 Volts into 165 ohm load. This unit can fire 80 2-ohm caps through a 5-ohm lead line or one MK-17 HERO certified cap. It can also drive the electric breech on a disruptor.																
<b>Shock Tube Tip:</b>	Fires both military and commercial shock tube Maintenance free shock tube adapter One active and three spare blocks built into tip for long life																
<b>Environmentally Sealed:</b>	Submersible to 10 feet (3m)																
<b>Safety:</b>	Blasting machine will not fire until fully charged to design voltage. Outputs remain shorted until unit is fired. Unit automatically discharges internally if ARM button is released. Two button fire control for safety.																
<b>Fast Charge:</b>	3 ~ 4 seconds.																
<b>Long Battery Life:</b>	Battery provides over 1000 charge-fire cycles when using a lithium 9 volt cell.																
<b>Battery Indicator:</b>	Indicates when the battery voltage below 7.2 volts. It can still usually get another 50 shots if it is on at the beginning and end of charge																
<b>Long Tip Life and Three Spares</b>	The shock tube initiator tip has 4 shock tube initiator blocks that can be easily rotated into position by removing the interface board and by rotating the quad electrode block 90 degrees.																
<b>Military Rating :</b>	LWDD was directly copied from the D80CC and passed all safety certification tests, including PESD, MIL-STD-464A (EEE), environmental hazards, and non-nuclear munitions fuzing safety standards.																
<b>Continuity Checker</b>	<b>Disables all charging and firing circuits in micro seconds. Insures blasting circuit is safe before engaging the continuity checker.</b> Exceeds Military current specification < 1mA current when shorted. <1.25V when open. Continuity checker disables all 5 blasting machine circuits related to charging and firing. Will specifically discharge capacitor before allowing measurement of blasting circuit.																
<b>Operational Temperature Range:</b>	-40°C ~ +85°C (Shock Tube option requires 6 warm up shots at -40°C)																
<b>Special Restrictions:</b>	The LWDD and D80CC are for US military, federal law enforcement, civilian law enforcement, research labs, law enforcement training facilities, and those with a well defined need for such equipment. Export to NATO countries only is permitted with state department approval or Foreign Military Sales order through the US Military. Exceptions may be permitted only by the military or US State Department. <b>This product is prohibited for use in civilian blasting operations</b> or for civilians to own this unless they are directly involved in law enforcement or IED / UXO render safe operations.																
<b>Ordering Information</b>	<table border="1"> <thead> <tr> <th>Part</th> <th>Part Number / NSN</th> </tr> </thead> <tbody> <tr> <td>D80CC (Desert Tan)</td> <td>D80CC / 1375-01-684-1704</td> </tr> <tr> <td>Shock Tube Adapter</td> <td>D80STA / 6665-01-588-4823</td> </tr> <tr> <td>Quad Bead Board Spare</td> <td>TIPBLOCK / 6665-01-588-4847</td> </tr> <tr> <td>Custom MultiCam Pouch</td> <td>D80Pouch</td> </tr> <tr> <td>Universal Shock Tube Adapter accepts .086 -.150 diameter shock tube</td> <td>D80STA-5</td> </tr> <tr> <td>D80 Dual Fire Board (red board)</td> <td>D80-514314</td> </tr> <tr> <td>D80 Dual Fire Tip</td> <td>D80STA-D</td> </tr> </tbody> </table>	Part	Part Number / NSN	D80CC (Desert Tan)	D80CC / 1375-01-684-1704	Shock Tube Adapter	D80STA / 6665-01-588-4823	Quad Bead Board Spare	TIPBLOCK / 6665-01-588-4847	Custom MultiCam Pouch	D80Pouch	Universal Shock Tube Adapter accepts .086 -.150 diameter shock tube	D80STA-5	D80 Dual Fire Board (red board)	D80-514314	D80 Dual Fire Tip	D80STA-D
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