

ARE YOU A **DIESEL** ENTHUSIAST ?

Did you know.....DAVCO now offers DIESEL powered SUPACUT torches.



(various sizes and configurations are available)

KEY FEATURES

Dramatic Cost Savings: Utilising LIQUID combustible fuel has an outstanding effect on reducing operating costs. When using diesel the fuel operating cost can be reduced buy up to 90%! Oxygen consumption can be reduced by up to 30% and cutting speed is often faster than an acetylene based system.

Time Saving: Can cut up to 2-3 times the SPEED of Acetylene !

Performance: SUPACUT quickly and easily cuts thru steel up to 300mm **[with appropriate hand piece and tip].....**

Versatility: Cutting flame will easily cut across voids (air space between plates) thru rust

Cuts Thru Paint, Dirt Rust: Cutting flame easily slices thru surface materials coating old used steel

Safer Cutting: By utilising diesel (as a fuel) greatly improves site safety. No special tanks needed, non flammable fuel. (Petrol is flammable – Diesel is combustible)

Cleaner Cut: A high level of oxidation leaves an smoother cleaner finish

Multi Layer Cutting : Due to the very clean cut and high oxidation there is almost no molten steel residue to "stick" cut plates together Why cut one piece when you can cut 5 or 10 at the same time !!

Stable Flame: Due to the unique patented liquid fuel delivery system the cutting flame is extremely stable. The torch can be used at any angle and even if torch is used upside down or shaken violently the flame shape will not change... even immersed underwater the flame keeps going !!.

Long life Tips: SUPACUT tips are kept much cooler with the use of a liquid fuel thus dramatically extending tip life

Robust Design: The DAVCO SUPACUT is manufactured with quality materials and will prove to be a durable and reliable system providing many years of service

Easy to use: Tools are very EASY and SAFE to use and the unique regulating control technology of the SUPA CUT makes it easy to synchronize the control of fuel and oxygen with the regulating valve.

Accurate fuel delivery: At even only 0.5Mpa oxygen pressure the hand piece can be used with long hoses and up to 6 meters vertical height above the fuel supply tank

Patented technology: the Supacut Oxy-fuel cutting systems utilise special technology and are patent pending.

FREQUENTLY ASKED QUESTIONS:

Q. Does DAVCO DIESEL BOSS do all that oxy-acetylene cutting torch does?

A. YES ...and MORE. The DAVCO DIESEL BOSS Diesel system was originally designed as a VERY powerful cutting system and that is its primary strength. If you need to cut (or heat), Diesel is the way to go, as it has much higher performance and the running cost is a fraction of acetylene or propane.

Q. Is a DAVCO DIESEL BOSS easy to use?

A. Definitely YES. A Diesel powered DDB system looks like and operates almost identically to an acetylene or propane powered cutting torch... DDB is just way better !! Setup is simple and operation is straight forward. Nothing complicated at all ! No special fuel no special tanks or canisters.

Q. What is included?

The typical starter set includes a cutting torch and tips to cut up to 4" thick steel. However we do offer a variety of configurations to suit individual client needs. Diesel, Acetylene & Propane Torches in Hand held or Machine/CNC torches. Also Custom made to order in short or long torches for specialised applications. Torches available to cut up to 20 inch thick steel.

Q. Can I heat and bend steel?

A. YES, The cutting torch can also be used for heating work, but if heating is the primary need the optional dedicated heating torch may be a better option.

Q. Can I weld with a DAVCO DIESEL BOSS system?

Sorry.... at present there is no welding torch option

Q. Does DAVCO offer torches for mounting in CNC and profile cutting systems ?

Yes, SUPERCUT offer machine mountable torches. Please contact us

Q. Where can I purchase the Diesel fuel ?

A. The Diesel required is just regular Diesel you buy for your motor vehicle, same place you get fuel for your diesel car,, tractor, semitrailer etc pickup. Oxygen requirement is same as oxygen for oxy-acetylene. You can usually rent or buy a cylinder from a local industrial gas supplier.

Q. Why do you say the Diesel system is much more powerful than oxy-acetylene?

A. Due to the properties of Diesel the gas vapor is about 4 times as heavy (dense) as oxy-acetylene so has much more "punch". Additionally, while the liquid fuel vaporizes in the torch tip it causes a huge volume expansion that then creates a flame velocity up to 10 times greater than torches that just use compressed gases. This dense and high velocity flow produces the resulting unrivalled powerful cutting power.

Q. If I need to cut a hole in a piece of steel can I cut through plate or other solid surface or do I have to drill a hole first?

A. No pre drilling is needed. The DAVCO DIESEL BOSS is MUCH better at punching through metal than an acetylene system. As the vapor is approximately 4 times heavier/more dense than acetylene and the flame is highly oxidizing so DAVCO DIESEL BOSS can easily cut a hole and has almost no heavy/hot molten waste (acetylene has about 30% molten steel waste).

Q. Do I need oxygen?

A. YES. Oxygen is needed for the torch to function so a standard oxygen setup is required just the same as for an acetylene system. However, the DAVCO DIESEL BOSS uses about 30% less oxygen than an acetylene system.

Q. Can I use compressed air instead of oxygen?

A. NO. This will not work with compressed air. Like an acetylene or propane system you MUST have OXYGEN to achieve the temperatures required for operation.

Q. Does Diesel supply need to be pressurized

A. NO - the torch is designed in such a manner the flow of oxygen thru the torch draws the Diesel into the tip, then mixes the Diesel and oxygen and the resultant vapor is burnt to provide the cutting flame

Q. What do I need to use for a Diesel tank?

A. There is no special needs for the Diesel. Even a hose just dunked into a bucket of diesel should work..... (Not that we are recommending that)

Q. Do I need any extra items for a Diesel tank?

If using a commonly available automotive or marine diesel you should not need a fuel pump, regulator, fuel filter or any other items.

Q. How much Diesel does the system use?

A. Diesel consumption is TINY. As a simple example if you were cutting 1/2" (12mm) plate with a D100 torch (with a No. 1 tip), in one hour you should be able to cut about 100 ft (30m) of plate and use less than 1/4 Gal Diesel (approx. \$1.25c Diesel cost)

Q. Is the DAVCO DIESEL BOSS a robust system suitable for commercial use and a long operational life?

A. YES – The DAVCO DIESEL BOSS system is designed and manufactured with quality materials for private, trade, commercial and industrial use. With appropriate care and use a DAVCO DIESEL BOSS system should last a lifetime whoever is using it.

Q. Is the DAVCO DIESEL BOSS easy to clean and maintain?

A. YES – The DAVCO DIESEL BOSS system generally needs minimal effort to keep I good working order.

WANT TO KNOW MORE Call me... Australia - 61 466 980 909 (PAUL) or eMail paul@davco.biz