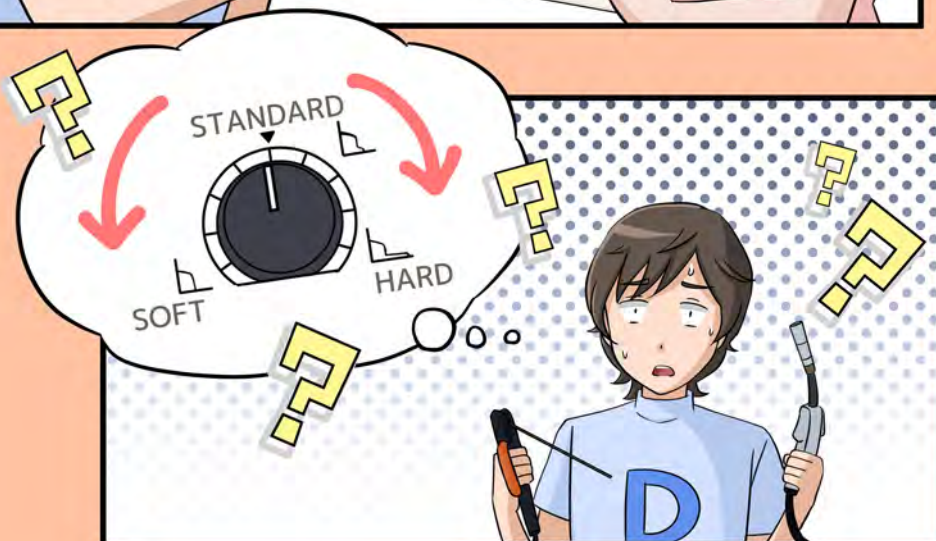
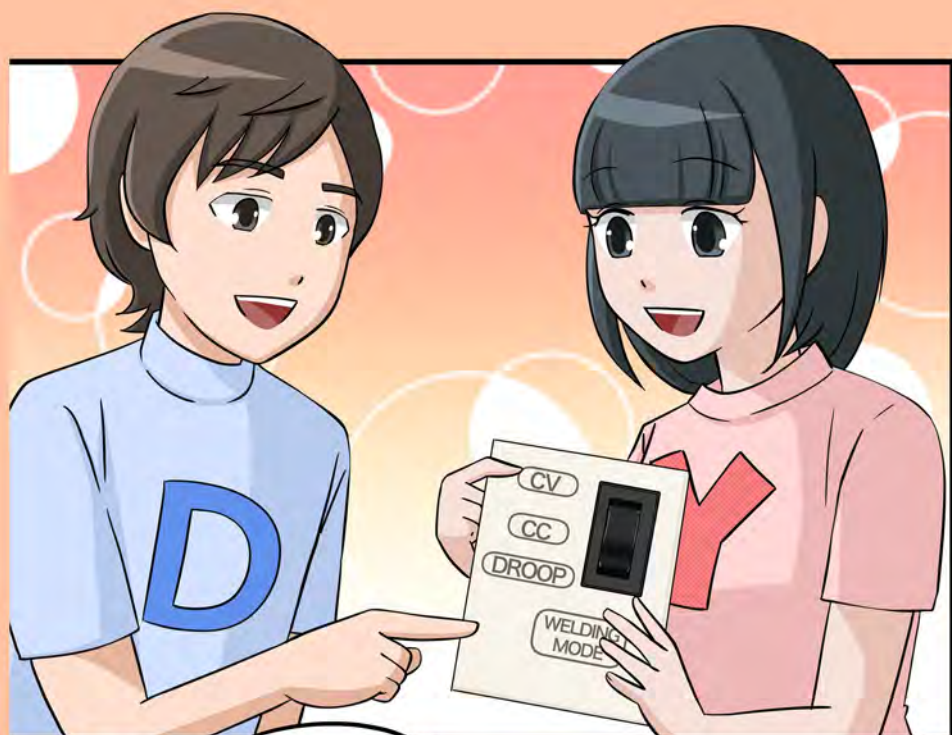


Power Source Technology for the Future

Denyo

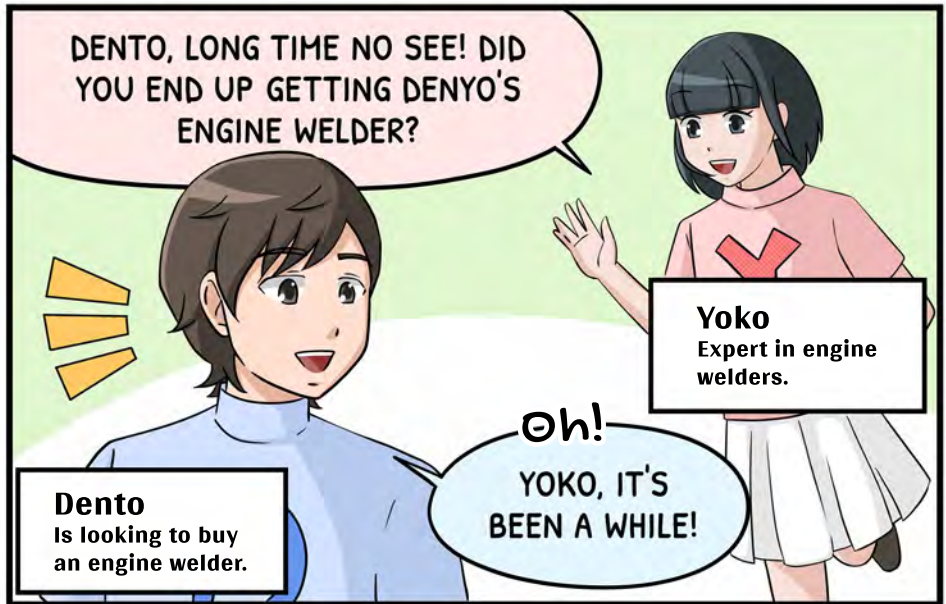
Don't miss out!

DENYO Engine-Driven Welder's superior features



 **Denyo Co., Ltd.**

<https://www.denyo.co.jp>

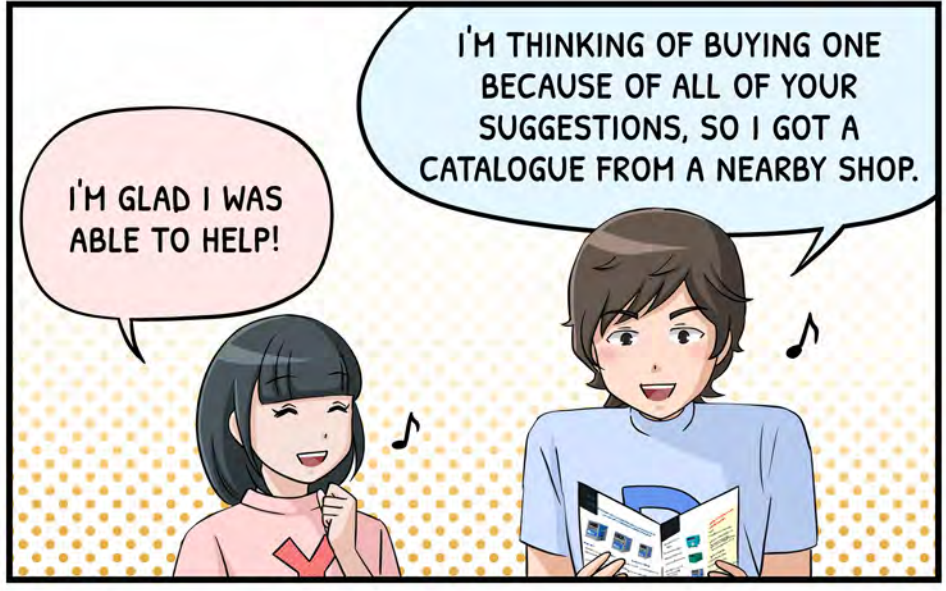


DENTO, LONG TIME NO SEE! DID YOU END UP GETTING DENYO'S ENGINE WELDER?

Yoko
Expert in engine welders.

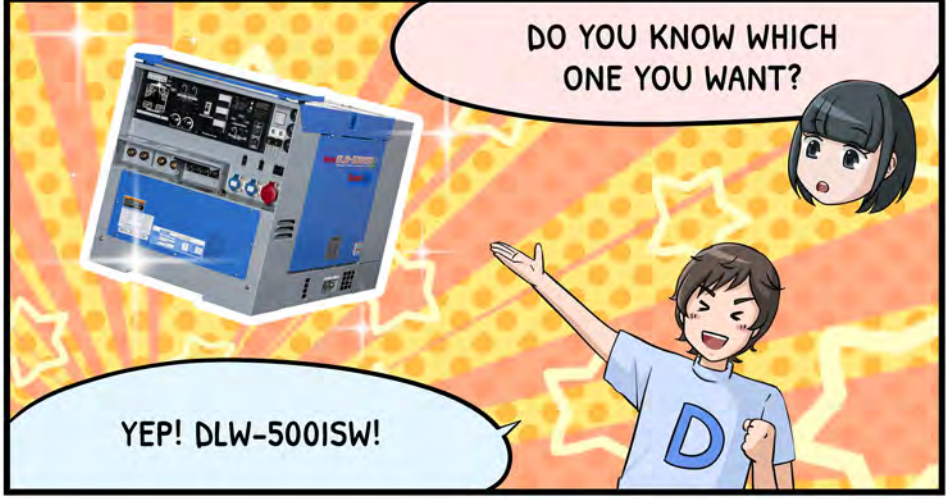
Dento
Is looking to buy an engine welder.

Oh!
YOKO, IT'S BEEN A WHILE!



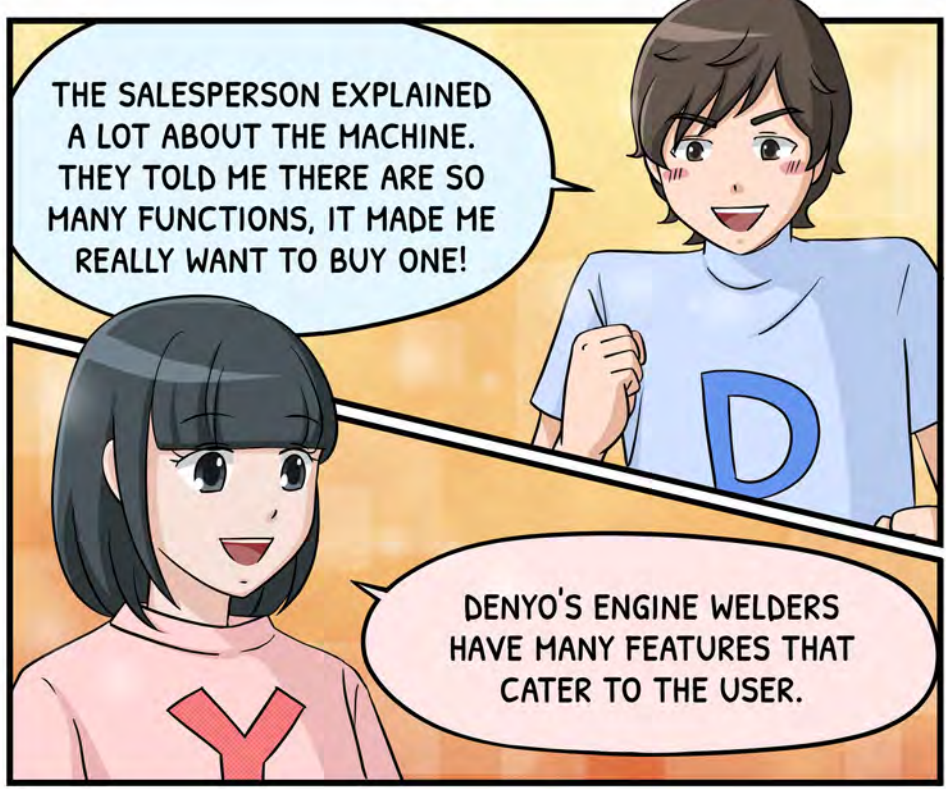
I'M GLAD I WAS ABLE TO HELP!

I'M THINKING OF BUYING ONE BECAUSE OF ALL OF YOUR SUGGESTIONS, SO I GOT A CATALOGUE FROM A NEARBY SHOP.



DO YOU KNOW WHICH ONE YOU WANT?

YEP! DLW-500ISW!



THE SALESPERSON EXPLAINED A LOT ABOUT THE MACHINE. THEY TOLD ME THERE ARE SO MANY FUNCTIONS, IT MADE ME REALLY WANT TO BUY ONE!

DENYO'S ENGINE WELDERS HAVE MANY FEATURES THAT CATER TO THE USER.

BY THE WAY...WHY ARE YOU LOOKING THROUGH A CATALOGUE THOUGH YOU'VE ALREADY DECIDED ON THE MACHINE?

WELL, WHEN I WAS AT THE SHOP, I WAS TOO EXCITED ABOUT SEEING ALL OF THE MACHINES...

THERE WAS SOMETHING I WANTED TO CHECK SO I THOUGHT MAYBE I COULD FIND THE ANSWER IN THE CATALOGUE.

YOU CAN ASK ME ANYTHING ABOUT DENYO'S ENGINE WELDER!

WELL...FIRST OFF, CAN YOU TELL ME ABOUT THE **WELDING MODE SELECTOR SWITCH**?

OK!

STICK WELDING



FOR DENYO'S DLW-500ISW, IT IS DESIGNED TO POWER EACH INDIVIDUAL ARC WELDER IN MIND.

SELF-SHIELDED ARC WELDING



CO2/MIG/MAG WELDING



THESE ARC WELDING METHODS EACH HAVE SPECIAL CHARACTERISTICS AND DLW-500ISW CAN DO ALL THREE!

CC/DROOP CHARACTERISTICS

Stick welding

CV CHARACTERISTICS

Self-shielded, CO2 weldings, etc. are semi-automatic arc welders.

*In order to use CO2/MIG/MAG/Self-shielded welder, you need a wire feeder which does not come with this engine welder.

I SEE. SO WHAT ARE WELDING CHARACTERISTICS?

YOU CAN SWITCH BETWEEN THE WELDING CHARACTERISTICS WITH THE SELECTOR SWITCH.

CV

CC

DROOP



WELDING MODE

THE CORRELATION BETWEEN ELECTRIC CURRENT AND VOLTAGE DURING WELDING.

CV

A CV (CONSTANT VOLTAGE) CHARACTERISTIC IS THAT THE ELECTRIC CURRENT CHANGES WITH THE ARC LENGTH.

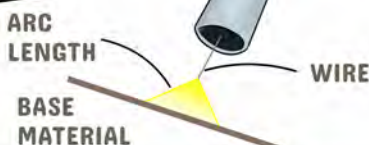
THIS CHARACTERISTIC IS SUITED FOR SEMI-AUTOMATIC ARC WELDING, LIKE SELF-SHIELDED WELDING, CO2 WELDING, MIG/MAG THAT USES WIRES.



CV CHARACTERISTIC IS THAT IT CAN AUTOMATICALLY KEEP THE ARC LENGTH STEADY AND IS VERY IMPORTANT WHEN USING THE SEMI-AUTOMATIC ARC WELDER.



Uh-huh.

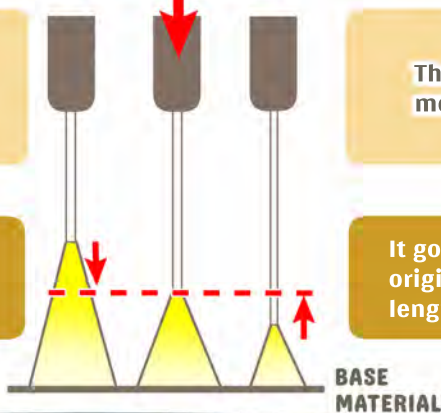


The distance between the wire and base material is longer.

The wire melts slower.

It goes back to the originally set arc length.

The arc length that has been set beforehand with the welding voltage regulator.



The distance between the wire and the base material is shorter.

The wire melts quicker.

It goes back to the originally set arc length.

OH, SO THAT'S HOW IT WORKS!

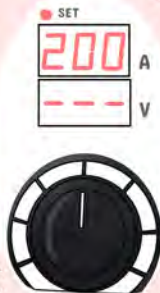


CC

CC (CONSTANT CURRENT) CHARACTERISTIC IS THE WELDING CURRENT THAT STAYS FAIRLY STABLE EVEN WITH THE DIFFERENT ARC LENGTHS.

FOR EXAMPLE, WHEN YOU SET THE WELDING CURRENT REGULATOR TO 200A,

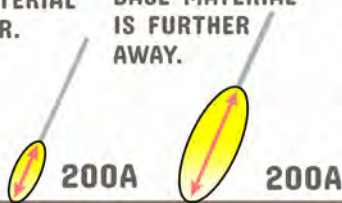
THE WELDING CURRENT WILL STAY AT 200A NO MATTER THE DISTANCE BETWEEN THE ELECTRODE AND THE BASE MATERIAL.



IT IS MORE SUITABLE FOR STICK WELDING BECAUSE THE BASE MATERIAL'S STABLE WELDING CONDITIONS MAKE IT EASIER TO DRAW AN EVEN BEAD.

BASE MATERIAL IS CLOSER.

BASE MATERIAL IS FURTHER AWAY.



WELDING CURRENT STAYS THE SAME!

CC IS FOR STICK WELDING...

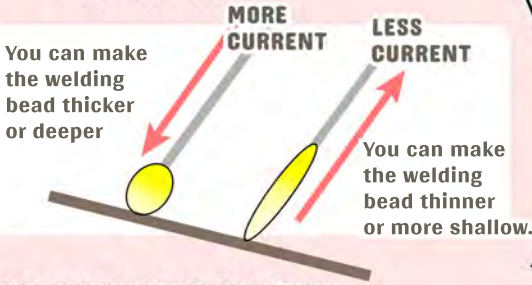
CC → Stick



DROOP

DROOP (DROOPING) CHARACTERISTICS ARE USED FOR **STICK WELDING** TOO. BUT FOR DROOP, **THE ELECTRIC CURRENT AND VOLTS VARY DEPENDING ON THE ARC LENGTH.**

YOU CAN GET CLOSER OR FURTHER AWAY FROM THE BASE MATERIAL WITH THE WELDING STICK,



YOU HAVE MORE CONTROL OF THE WELDING BEADS' LENGTH, DEPTH, AND FALL OF THE BEAD THIS WAY.

THAT IS WHY THIS IS MORE SUITED FOR **GROOVE WELDING, AND PIPE WELDING, ETC.**



MY HANDS ARE STILL UNSTEADY...MAYBE DROOP IS NOT FOR ME.



I think I understand!

YOU'RE RIGHT. DROOP IS MORE PREFERRED BY SKILLED WELDERS.

AH! I GET IT.



Semi-automatic arc welding
⇒ CV (constant voltage)

Steady and even manual welding
⇒ CC (constant current)

Skilled welder that wants to adjust the width, depth and fall of the bead manually
⇒ DROOP (drooping)



THE NAMES ARE VERY CONFUSING, BUT ONCE YOU UNDERSTAND WHAT SETTING YOU WOULD HAVE AT WHAT TYPES OF WELDINGS, IT WOULD BE EASIER TO UNDERSTAND.

Good job!!

PROUD



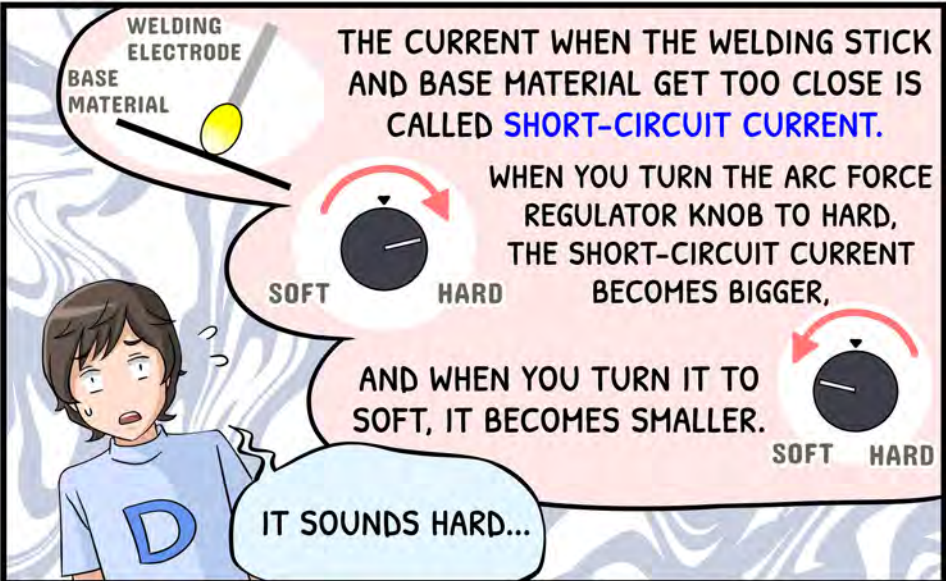
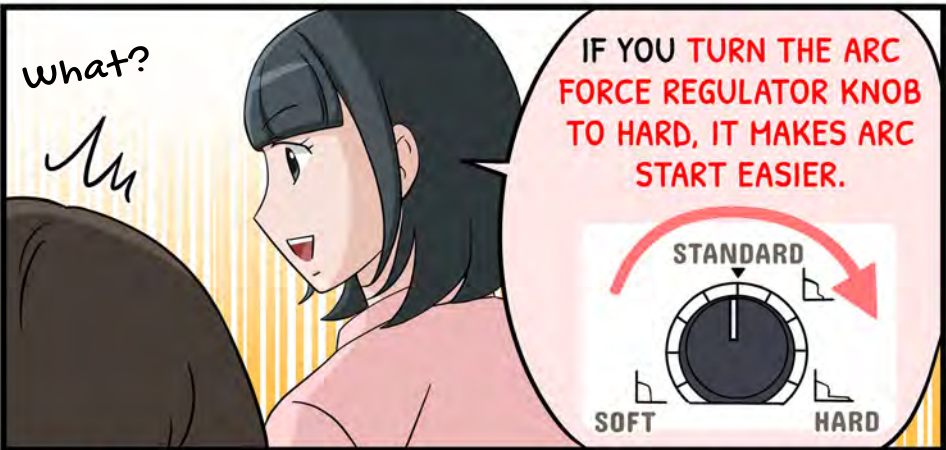
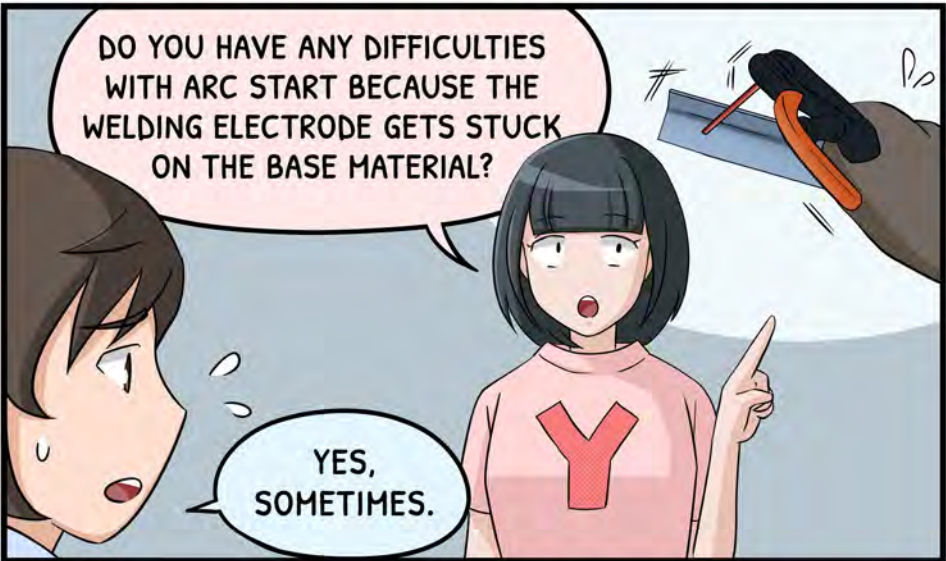
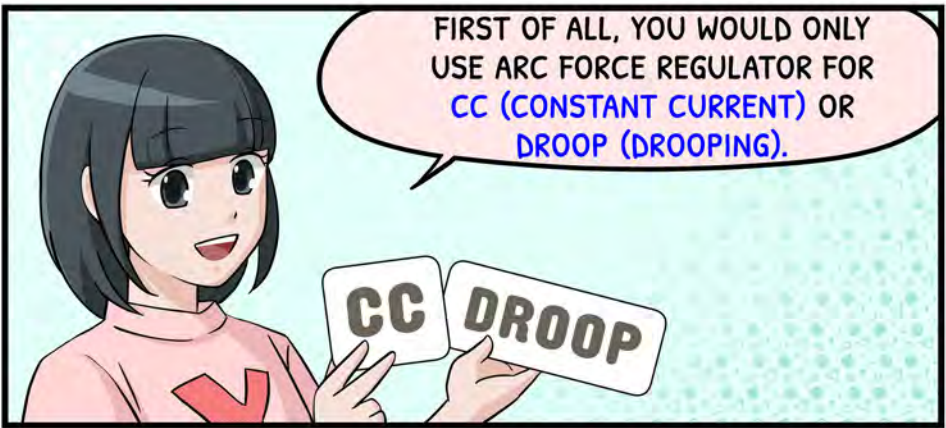
CAN I ASK ABOUT **ARC FORCE REGULATOR** NEXT?

THE NAME ITSELF MAKES IT SEEM LIKE IT'S A DIFFICULT SYSTEM TO UNDERSTAND...

OK!

DON'T WORRY! IT'S NOT HARD AT ALL!

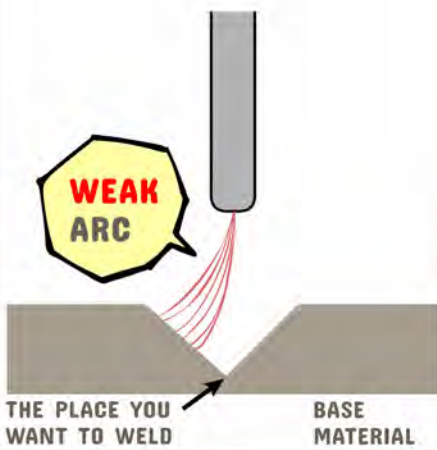




SOFT

The short-circuit current becomes **smaller**

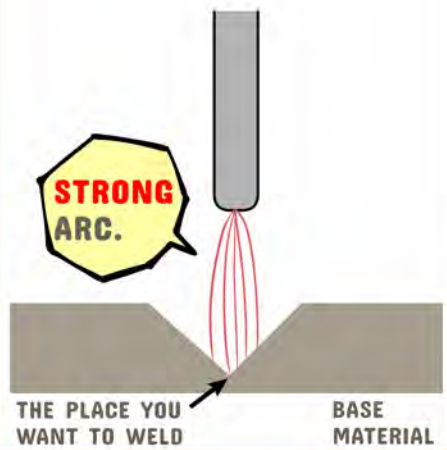
- Since the arc power is weak, it is difficult to control the welding electrode, which means you need to be more skilled.



HARD

The short-circuit current becomes **bigger**

- Easier to arc start.
- The arc power is strong so arc break rarely happens
- It is easier to draw the bead as you want.



- There is less spatter so the end result looks more manicured.



- The downside is there is more spatter.



I got it!

IF I SET IT TO HARD, THE SHORT-CIRCUIT CURRENT IS BIGGER SO IT MAKES IT MORE DIFFICULT FOR THE BASE MATERIAL AND WELDING ELECTRODE TO STICK. THAT'S WHAT MAKES THE ARC START EASIER. AND IF I SET IT TO SOFT, THERE IS LESS SPATTER.



I UNDERSTAND THE HARD AND SOFT MODE, BUT WHAT ABOUT THE STANDARD?

IT IS BETWEEN HARD AND SOFT. IF YOU CAN'T DECIDE, IT'S SAFER TO CHOSE STANDARD.



BY THE WAY, WHICH SETTING DO YOU RECOMMEND FOR EACH WELDING STYLE?

LET ME EXPLAIN THE SUITABLE WELDING METHOD AND WELDING ELECTRODE.



HARD

[Suited for]

- Overlay welding
- Underwater welding
- Arc air gouging

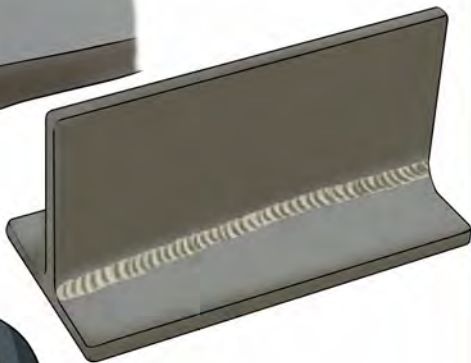
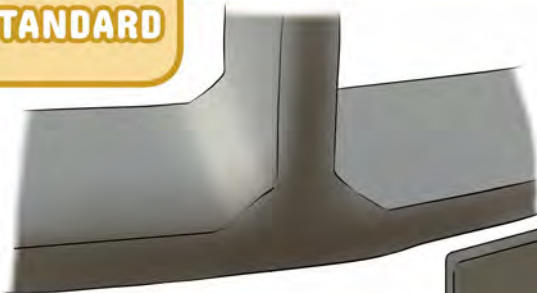


Heavy machinery repair (Overlay welding)

[Suited for] High Cellulose electrode

STANDARD

[Suited for] Fillet welding



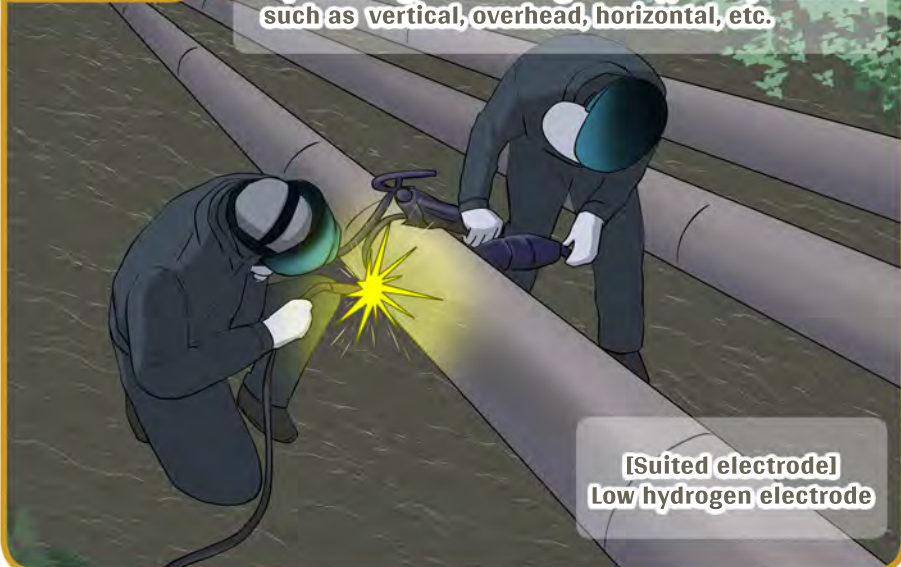
IF YOU ARE EVER IN DOUBT, CHOOSE THIS MODE! IT'S USED FOR NORMAL ELECTRODES!



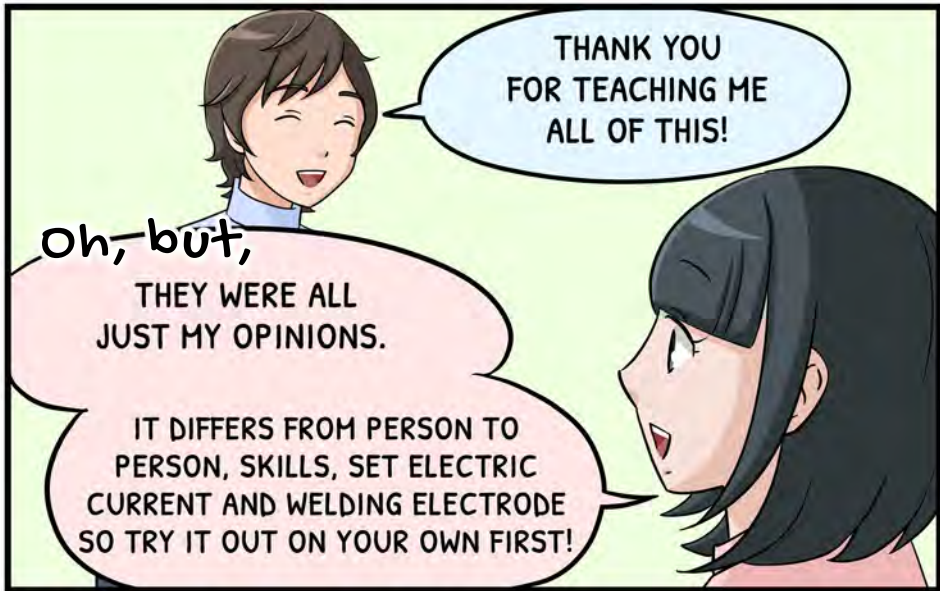
[Suited electrode] Lime-titania type electrodes (Zerode)

SOFT

[Suited for] Pipe welding, and welding in all types of positions, such as vertical, overhead, horizontal, etc.



[Suited electrode] Low hydrogen electrode



THANK YOU FOR TEACHING ME ALL OF THIS!

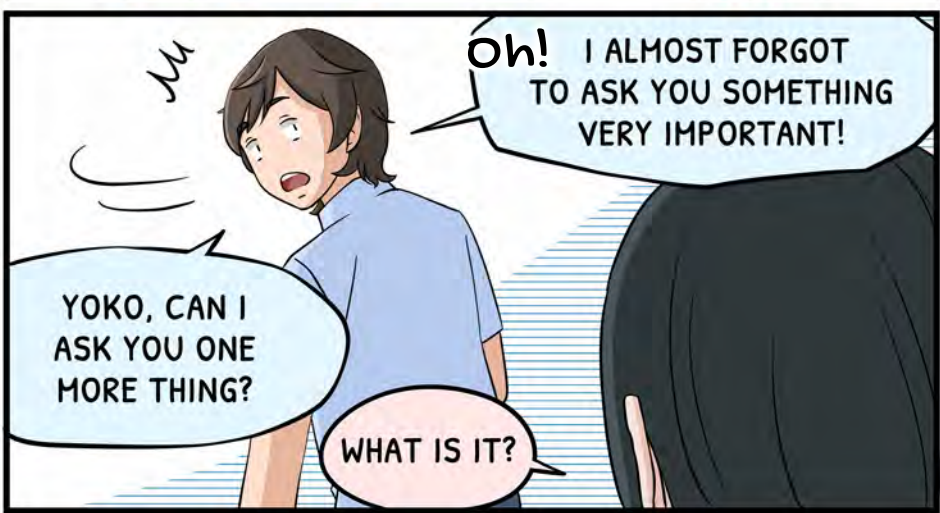
Oh, but, THEY WERE ALL JUST MY OPINIONS. IT DIFFERS FROM PERSON TO PERSON, SKILLS, SET ELECTRIC CURRENT AND WELDING ELECTRODE SO TRY IT OUT ON YOUR OWN FIRST!



I'M GOING TO TRY CC AND DROOP AND TRY TO FIGURE OUT WHICH SETTING IS BEST SUITED FOR ME!

Excited!

I can't wait!



Oh! I ALMOST FORGOT TO ASK YOU SOMETHING VERY IMPORTANT!

YOKO, CAN I ASK YOU ONE MORE THING?

WHAT IS IT?



CAN YOU TEACH ME

ABOUT DENYO'S WELDING TERMINALS?

THERE ARE THREE TYPES OF WELDING TERMINALS.



12MM DIAMETER  **10MM DIAMETER** 



DAW-500S

DLW-400LSW

MOST OF THE ENGINE WELDERS.



DAW-180SS

TLW-230LS

THERE ARE ONLY TWO ENGINE WELDERS, DAW-180SS AND TLW-230LS.

DCW-480ESW AND
DLW-500ISW COME WITH
DINSE'S **DIX-BE 70/95**
FEMALE CONNECTOR.



YOKO! THANK YOU
FOR EVERYTHING!

I'LL CALL YOU WHEN I
GET AN ENGINE WELDER!



DENTO...HE'S ALWAYS
SO QUICK TO LEAVE...

ANYWAY! IF YOU ARE
CURIOUS ABOUT ANYTHING,

PLEASE COME TO
OUR STORE OR CONTACT
DENYO ANY TIME!



PLEASE FEEL FREE TO CONTACT US BEFORE
OR WHEN YOU'RE THINKING ABOUT BUYING ONE,
OR EVEN AFTER THE PURCHASE!



VISIT OUR WEBSITE FOR
MORE INFORMATION!

<https://promowelder.denyo.co.jp>



UNTIL WE MEET AGAIN!



Do you need more information
on denyo welder?
VISIT our special website!!

SCAN NOW



Contact us

Product catalogs

Construction, Oil&Gas, Mining

Engine driven welders do not just need to be easy to use and able to produce quality results. They must also be **durable, versatile, energy efficient, and reasonably priced.** Since our foundation in 1948, Denyo has continued to create engine welders and engine generators that meet all of these demands. Denyo products are used not only in construction and manufacturing, but also at oil & gas, and mining work sites. **Denyo offers the excellent performance and ruggedness unique to Japanese products** and have a track record of use in extremely cold wilderness and extremely hot desert. We at Denyo are **always with you**, helping you perform the finest work.



Contact us

Product catalogs

SPECIAL FEATURES

A WIDE VARIETY OF WELDING METHODS

SMARTSTICK, TIG, CAC-A(Coating), GTAW(TIG)...

ECO-FRIENDLY

Reducing CO₂ emissions and fuel consumption.

IDLE STOP & SMART STICK FUNCTION

Saves fuel and maintenance cost. Red CO₂ emission.

DUAL OPERATOR WELDING

Improves work efficiency.

IT IS A WELDING MACHINE AND A GENERATOR

Can also be used as generators.

COMPACT DESIGN

Easy to transport. No worry about the place to install.

EASY MAINTENANCE

Easy access and save maintenance time.

AFTER-SALES SERVICE NETWORK

Denyo's trusted distributors around the world.

<https://promowelder.denyoko.co.jp>

WAITING FOR
YOUR VISIT!!





This Denyo emblem expresses

“Benefits for Three Parties”

Prosper together with

“the user”, “the seller” and “the manufacturer”

through our products.

 ***Denyo Co.,Ltd.***

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