

INTEGRATED WELDING SOLUTIONS



LUVATA

Invention & Innovation
NITTA

centerline®

B™ **BRONCO**

STI **SIAM TECHNO**
INDUSTRY
Integrated Welding Solutions



GLOBAL PARTNERSHIP



MIG/MAG WELDING

SPOT WELDING



APPLICATION AREA



บริษัท แสงเจริญพัฒนาเอ็นเตอร์ไพรส์ จำกัด
SAENG CHAROEN PATANA ENTERPRISE CO.,LTD.

สำนักงานใหญ่ และศูนย์กระจายสินค้า ผลิตภัณฑ์อุปกรณ์ก่อสร้าง เครื่องมือช่าง และสินค้าในเครือฯ

สถานที่ตั้ง 438/12-13 ถนนลาดพร้าว ซอย 24 แขวงจอมพล เขตจตุจักร กรุงเทพฯ 10900
โทร 02-9381938, 02-9389292, 02-5113366
Email : welding@siamtechno.co.th



บริษัท สยามเทคโนอุตสาหกรรม จำกัด
SIAM TECHNO INDUSTRY CO.,LTD.

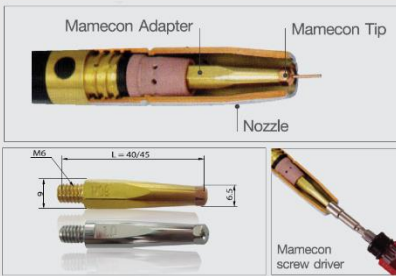
โรงงานผลิต กลุ่มผลิตภัณฑ์เชื่อมไฟฟ้า (SPOT WELDING) สำหรับอุตสาหกรรมยานยนต์
โรงงานผลิต และแปรรูปผลิตภัณฑ์กระดาษทราย ผ้าทราย (ABRASIVE PRODUCT)
โรงงานผลิต อุปกรณ์ประตูและหน้าต่าง (DOOR & WINDOW HARDWARE)
ภายใต้เครื่องหมายการค้า COLT & COLT PLUS

สถานที่ตั้ง 48/1 หมู่ 4 ต.ลาดหลุมแก้ว อ.ลาดหลุมแก้ว จ.ปทุมธานี 12140
โทร 02-9793121-3 Email : welding@siamtechno.co.th



Spot Welding Spare Part Solution

Mamecon Tip



Electrode



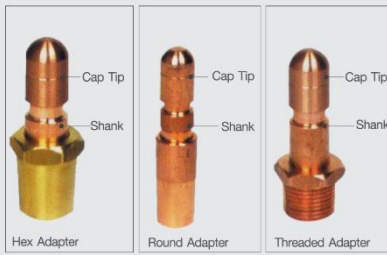
Shank



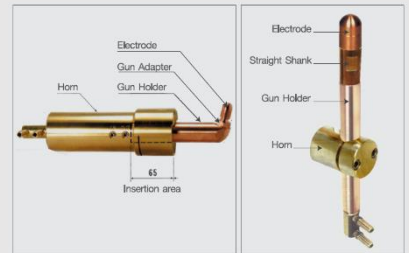
Holder



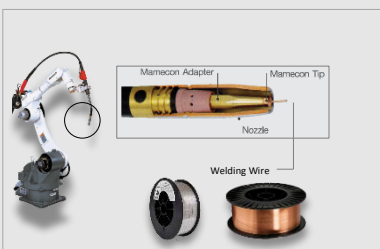
Adapter



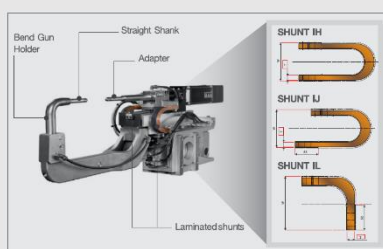
Horn



Welding wire



Flexible



Projection

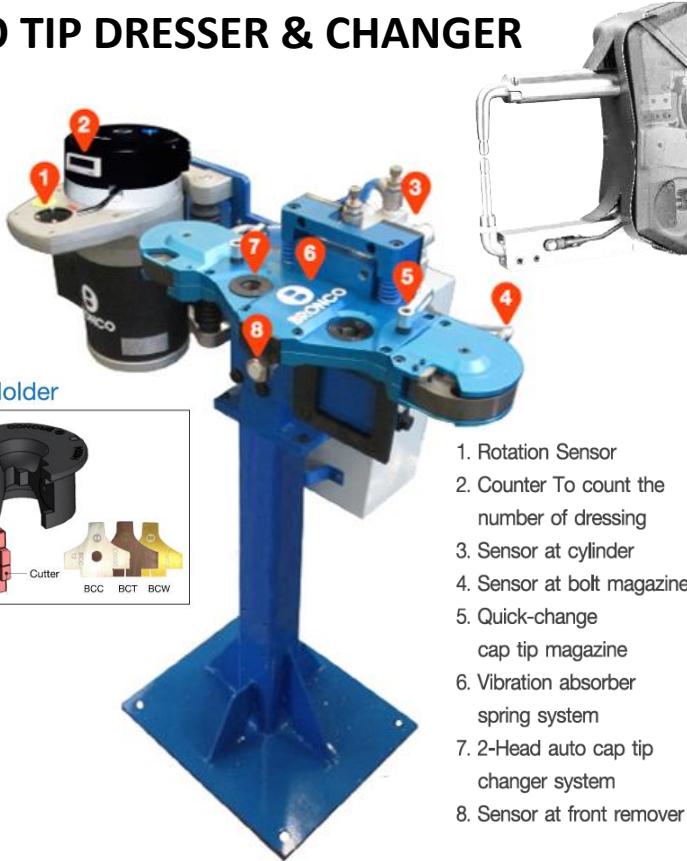


Robotic Tip Dresser & Tip Changer

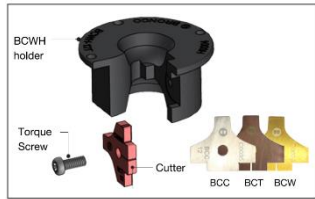
(For Spot Welding & MIG Welding)



AUTO TIP DRESSER & CHANGER

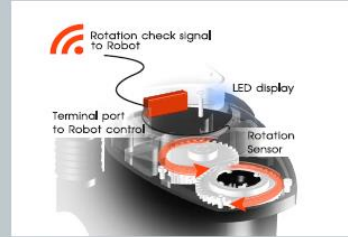


Cutter & Holder



1. Rotation Sensor
2. Counter To count the number of dressing
3. Sensor at cylinder
4. Sensor at bolt magazine
5. Quick-change cap tip magazine
6. Vibration absorber spring system
7. 2-Head auto cap tip changer system
8. Sensor at front remover

Function



Rotation Sensor



Counter To count the number of dresser



Quick-change cap tip magazine



2-Head auto cap tip changer system

NOZZLE CLEANER & WIRE CUTTING



Function



Nozzle clamp system & Welding wire cutter system



Anti-spatter spray system



Manual Anti-spatter spray system

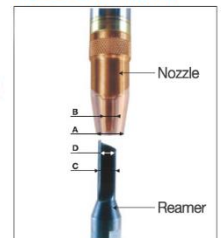


Zero position confirmation



1. Welding wire cutter system
2. Nozzle clamp system
3. Zero position confirmation
4. Manual Anti-spatter spray system
5. Anti-spatter spray system
6. Chip Collector

Nozzle and Reamer



Cap Tip Solution



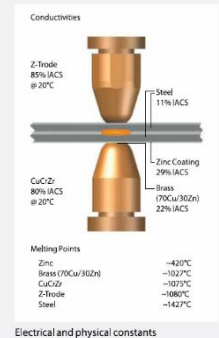
A-TRODE™

“ The universal cap electrode for reliable resistance welding at minimum piece price.”

Specifications - Quality

Form of supply	Tensile strength [N/mm ²]	0.2% Offset yield strength [N/mm ²]	Elongation AS [%]	Hardness HV
Electrodes	≥ 490	≥ 430	≥ 15	≥ 172

Luvata welding electrodes are available in all industry sizes, geometries and tapers.



Z-TRODE™

“ The ideal cap electrode for resistance welding of light-to-medium gauge coated and uncoated steels and aluminum alloys.”

Spatter matters

Z-Trode is the electrode of choice for the Luvata Spatter Reduction Project. The reduction or even elimination of weld expulsions reduces maintenance, protective clothing and rework costs and improves productivity.

Prevents sticking

Z-Trode is an alloy of pure zirconium and oxygen-free copper. The zirconium discourages the alloying effect on the electrode weld face and prevents sticking.

Requires less energy

In comparison to CuCrZr and CuCr alloys, Z-Trode requires lower current due to its higher electrical conductivity. Welder current settings can be reduced up to 20% with no loss in weld integrity.

Z-Trode's non-stick properties

Z-Trode's superior conductivity means that the maximum electrical resistance in an assembly is always cleanly between the steel or aluminum sheet. This reduces heat generated between the sheet and electrode, which in turn reduces sticking.



Oxygen free copper casting

NITRODE™

“ No other cap electrode can match Nitrode for its cost-effective, high quality performance in resistance-welding applications.”

Longer weld life

Nitrode caps last longer than conventional electrodes by resisting annealing.

Non-stick

Nitrode caps reduce sticking of electrodes on galvanized steel and other coated metals. The refractory qualities of Al₂O₃ reduce the infusion of liquid and gaseous zinc into the copper matrix.

Reduces maintenance downtime

Nitrode caps require less overall maintenance than conventional CuCrZr and CuCr electrodes, increasing welding process and production efficiencies.

Works On All Steels

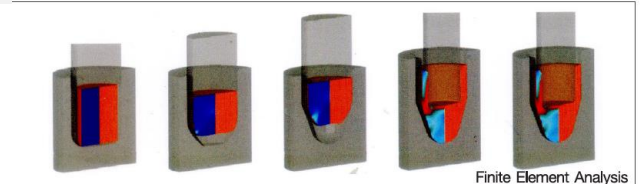
Nitrode has demonstrated superior welding performance for a variety of steels, including HSS, HSLA, micro-alloyed, nitrogenized, low-carbon, electrolytically zinc-coated, galvanized and many others.



CuCrZr after 1200 welds



Nitrode after 1200 welds





NITTAOMEGA

AUTOMATIC TOOL CHANGER

General catalog

Invention & Innovation
NITTA

NITTAOMEGA type S-C

| Features

- Payload: 5-10 kg
- Small and lightweight
- Dust- and water-proofing (IP67)
- Maintenance-free
- Air port self-seal function



NITTAOMEGA IV

| Features

- Employment of 3-module configuration
- Employment of rigid body
- Secure coupling and separation by the cam lock mechanism
- Direct attachment of solenoid valve for chucking/unchucking
- LED and Chuck/Unchuck/Face sensors as standard equipment

NITTAOMEGA type M

| Features/Applications

- **Payload: 50-250 kg**
Can be directly coupled with 45 different types of robots (P.C.D. 125) and international manufacturers.
- **New-generation specifications**
Capacity to handle increased welding current, improved cooling capacity, noise reduction against signal failures, and hydraulic module to reduce spillage.
- **High load capacity with thin and lightweight body**
Direct coupling with robot, thin and lightweight body, and acceleration of small and high-speed robot usage.
- **Inherited versatility**
Inherited versatility features for various applications, e.g. functional modules L/R synchronization.





FlexGun™ RA



- **Common bodies:** For both C and P Style for reduced consumable and spare parts inventories
- **Modular Structure:** Clean and practical design is easy to service
- **Aluminum part (7050 series):** for reduced weight and increased strength ability
- **Use either 100-185kVA MFDC** or 55 to 136 kVA AC transformers to provide users with the most economical choice for their applications
- Optional molded hard cover protects weld gun to reduce maintenance needs and extend operating life.
- Full metric construction

Operating Range

Style	Max. Depth (mm)	Weld Force Capacity
Pinch	300	2000 lbf (8896 N)
Pinch	600	1000 lbf (4448 N)
C	250	2000 lbf (8896 N)

Above data is for the configurations shown. Contact CenterLine for data on other FlexGun RA styles.

Contact CenterLine today to discuss your production welding needs and to learn how the FlexGun RA welding guns can reduce your operating costs.



FlexGun™ UL



- **Optimum lightweight design** – integrated robot mounting eliminated need for additional bracket; streamlined profile for better access in tight areas.
- **Superior strength (weld force) to weight ratio** – greater capability from a physically lighter gun
- **Fit on 80 kg robots** – all standard models less than 70 kg for 85 kVA transformer (most under 70kg 100 kVA transformers).
- **Ideal for high density manufacturing needs** – able to mount on smaller robots (less floor space, less capital costs), reduced weight allows for faster spot-to-spot movement, higher duty cycle for better production rate



FlexGun™ – 3



- **Available for Aluminum welding** – included to aluminum and steel welding applications.
- **High force ability** – wrought high-strength aluminum used as gun body material to enable high welding forces up to 16kN.
- **Common bodies:** For both C and P Style for reduced consumable and spare parts inventories
- **Modular Structure** - Servo and transformer are not structural components of the gun body. If these components require service, they can be removed without taking apart the gun, which simplifies maintenance.
- **Range of 225 kVA MFDC transformers**

Contact CenterLine today to discuss your production welding needs and to learn how the FlexGun RA welding guns can reduce your operating costs.