

Experience in construction.



CUSTOM COMPONENTS FOR WELDING MACHINES AND PLANTS
COMPONENTI CUSTOM PER IMPIANTI DI SALDATURA





Vesta Automation is specialized in making components for industrial automation. Founded in 1984, in **over 40 years of experience** Vesta developed projects in over 60 international markets, specializing in pneumatic automation for outdoor environments and heavy-duty applications: **truck equipments, railways, amusement parks, cement plants and process industries.** Production, in the ISO:9001/2015 certified Rovigo plant, ranges from pneumatic cylinders, electric actuators, pneumatic valves and solenoid valves, air treatment units and precision pressure control systems.

*Vesta Automation è un'azienda specializzata nella produzione di componenti per l'automazione industriale. Nata nel 1984, in **oltre 40 anni di esperienza** ha sviluppato progetti nei settori più disparati e in oltre 60 mercati internazionali, specializzandosi nell'automazione pneumatica in ambienti outdoor e applicazioni gravose: **attrezzature per camion, settore ferroviario, amusement park, cementifici e industrie di processo.** La produzione, nello stabilimento di Rovigo certificato ISO:9001/2015, spazia da cilindri pneumatici, attuatori elettrici, valvole ed elettrovalvole pneumatiche, unità di trattamento aria e controllo di precisione della pressione.*



Different product certifications can be provided by Vesta.
Vesta può rilasciare diverse certificazioni di prodotto.



Check out Vesta
 Production Range:
 Scopri il Production
 Range di Vesta:



Vesta Automation HQ is located in Rovigo - Italy
 Easily accessible from Venice, Bologna and Milan



PNEUMATIC CYLINDERS CILINDRI PNEUMATICI

Full range of pneumatic cylinders, with **polyurethane seals and stainless steel rods**.
All the ISO standard families are available, along with non-rotation flat cylinders.
Cylinders can be supplied with seals and coating for **high temperatures**.

Gamma completa di cilindri pneumatici, con **guarnizioni in poliuretano e steli Inox**.
Tutte le **famiglie standard ISO** sono disponibili, oltre a cilindri piatti anti-rotazione.
I cilindri possono essere forniti con guarnizioni e verniciature per **alte temperature**.



VALVES AND SOLENOID VALVES VALVOLE ED ELETTROVALVOLE

Solenoid valves with lip seals, **resistant to humidity and dust**.
Poppet valves for **quick actioning and high flow** (up to G 2" size).
Valves can be supplied in **high-temperature version** (over +100°C).

Valvole con guarnizioni a labbro per **ambienti umidi e polverosi**.
Valvole a otturatore per **scambi rapidi ad alta portata** (fino a taglia G 2").
Le valvole possono essere fornite per **alte temperature** (oltre i 100°C).

AIR TREATMENT UNITS GRUPPI DI TRATTAMENTO ARIA

A complete series of regulators and FRL units, **from size G1/4" to G2"**.
All the sizes can be supplied with **metal bowl** for harsh environment.
Vesta range also includes **proportional valves** for high-flow applications.

Una serie completa di regolatori e unità FRL, **da taglia G1/4" a G2"**.
Tutte le taglie sono disponibili con **tazze in metallo** per ambienti aggressivi.
Il range di Vesta comprende **valvole proporzionali** per alte portate.





CUSTOM CYLINDERS FOR MESH WELDING MACHINES CILINDRI CUSTOM PER IMPIANTI DI SALDATURA A RETE

Since over 30 years Vesta has been developing for mesh welding different technologies for strong anti-rotation: from flat piston cylinders, to precision-machined square bronze bushes. Cylinders can sustain extreme speeds (up to 180 cycles per minute) and are protected to the calamine-filled environment by special sealing sand silencers.

Da oltre 30 anni Vesta sviluppa per la saldatura a rete diverse tecnologie per anti-rotazione: da cilindri a pistone piatto, a boccole quadrate in bronzo lavorate con precisione. I cilindri possono sostenere velocità estreme (fino a 180 cicli al minuto) e sono protetti dalla calamina in ambiente, grazie a speciali guarnizioni e silenziatori.

APPLICATION EXAMPLE:

High-frequency 5 cm pitch mesh welding machineries

SPECIAL REQUEST:

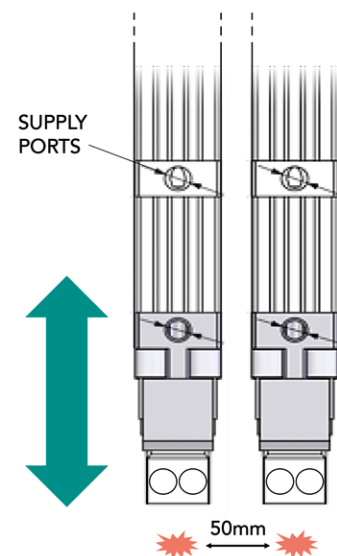
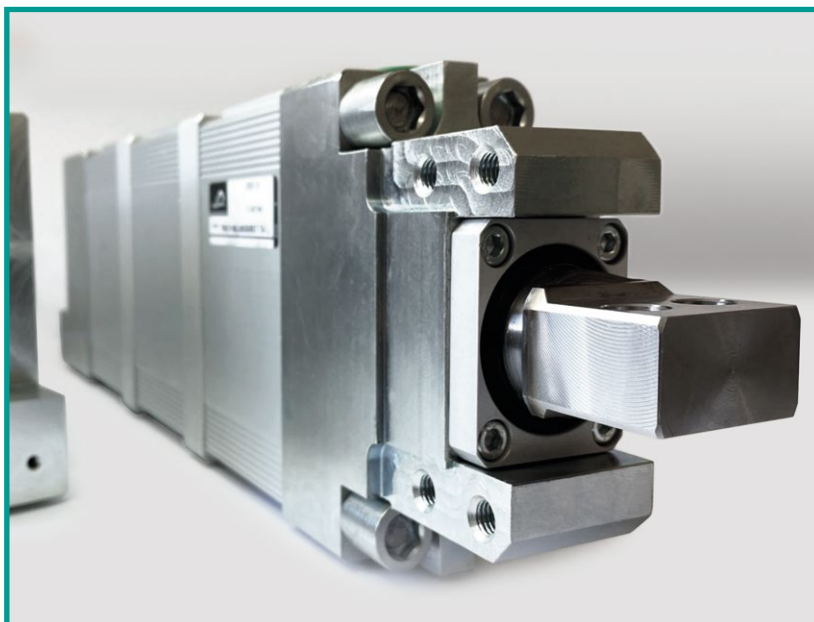
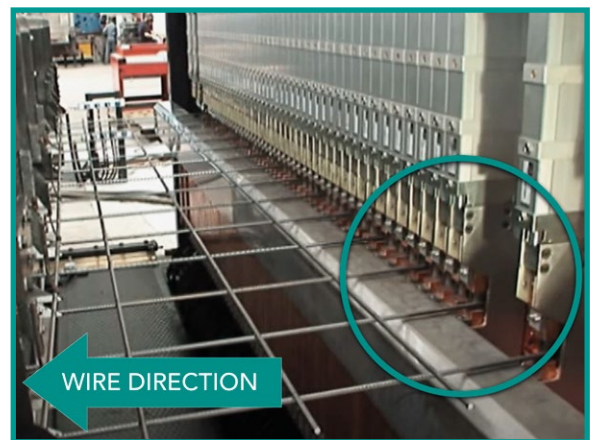
Compact dimensions (<50mm), resistance 3 Hz cycles

TECHNICAL FEATURES:

Triple-tandem flat $\varnothing 63$ cylinder

Lateral dimension 49mm (5cm welding point)

Custom piston rod-end for welding torch fixing



APPLICATION EXAMPLE:

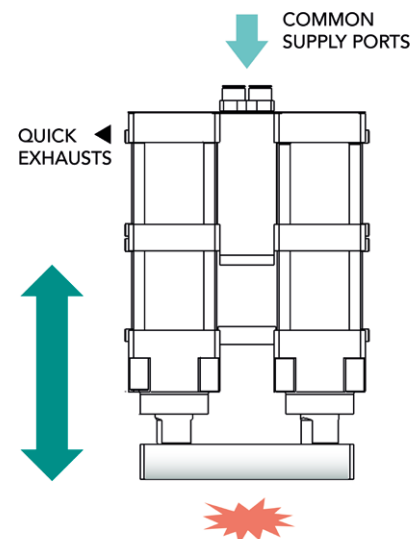
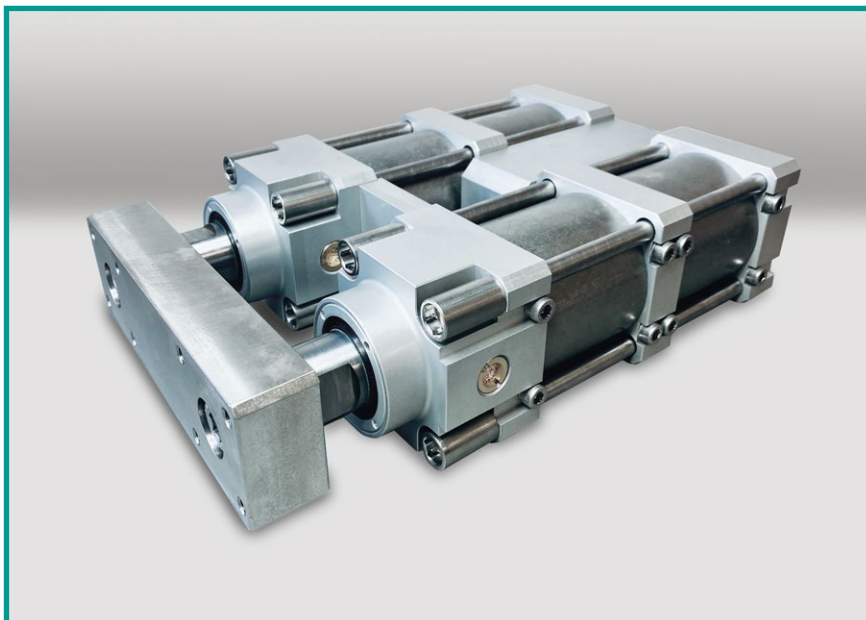
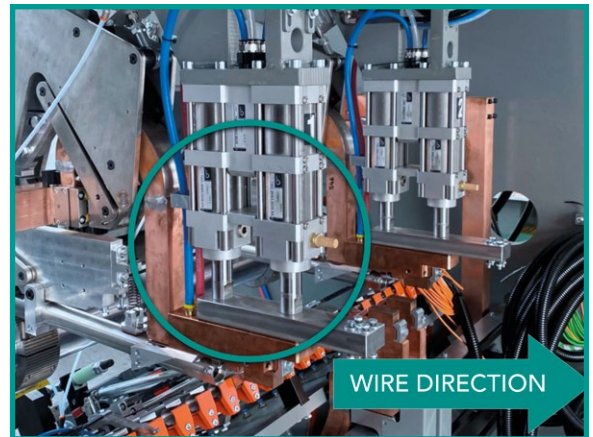
High-force mesh welding units (15,000 Ampere torch)

SPECIAL REQUEST:

Over 7000N force, 3 Hz cycles, compact dimensions

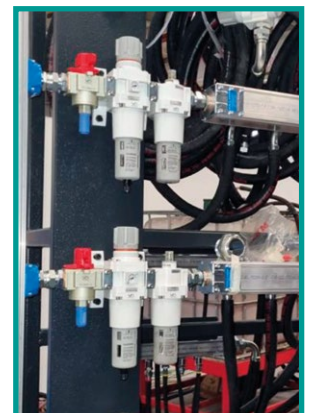
TECHNICAL FEATURES:

Quadruple-tandem non-rotating Ø63 cylinder
 Common supply for all the 4 air ports
 Special teflon/steel bushing for extreme speed



Vesta supplies **complete air treatment units** for mesh welding machineries and plants. The high demand of air to guarantee cylinder cycles up to 3 Hz (180 movements per minute) is supported by **TU FRL elements size G1"**.

Vesta fornisce **sistemi completi di trattamento aria** per macchinari e impianti di saldatura reti. L'elevata richiesta d'aria, che garantisce cicli cilindro fino a 3 Hz (180 colpi al minuto), è soddisfatta grazie a unità della serie **TU di taglia G1"**.





PROPORTIONAL PRESSURE CONTROL SYSTEMS CONTROLLO PROPORZIONALE DELLA PRESSIONE

Resistance welding machines require extreme precision in the control of pressure, with high-flow capacity and quick exhaust. Air units assembled with Vesta DPV proportional valves (size G1/2") are ideal for this industry: the immediate precision PNP pressure feed back to PLC guarantees high-speed operations.

Le saldatrici a resistenza richiedono estrema precisione nel controllo della pressione, con portate elevate e alta capacità di scarico. Le valvole proporzionali Vesta DPV (taglia G1/2") sono ideali per il settore: la retroazione in PNP, immediata e precisa nella comunicazione al PLC, garantisce un'elevata velocità di funzionamento.

APPLICATION EXAMPLE:

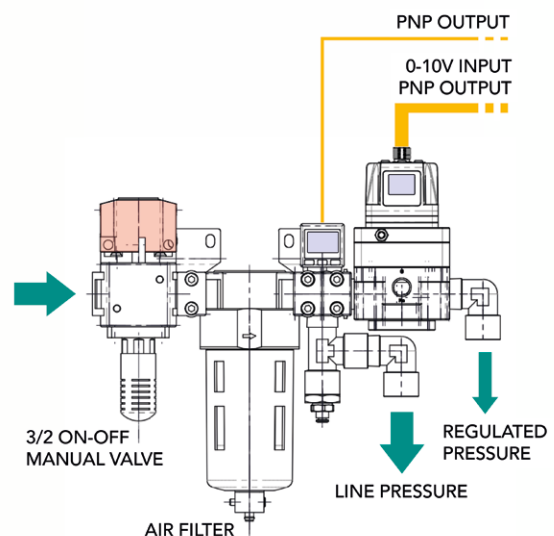
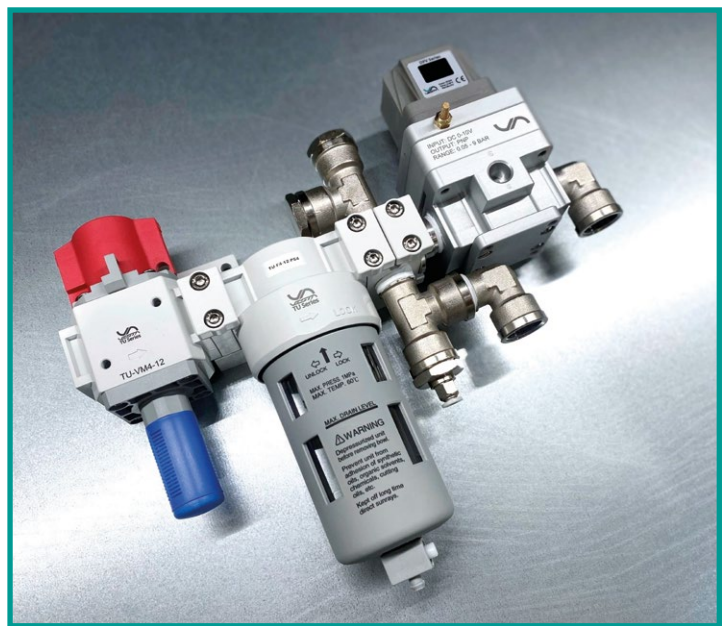
Precision control in resistance welding

SPECIAL REQUEST:

High-flow supply and exhaust

TECHNICAL FEATURES:

1/2" proportional control group
High-flow capacity (>4000 NL/min)
PNP precision out-of-range feedback





SPECIAL WELDING APPLICATIONS APPLICAZIONI SPECIALI DI SALDATURA

APPLICATION EXAMPLE:

Welding gun position and control

SPECIAL REQUEST:

Quick switch by a pneumatic-only system

TECHNICAL FEATURES:

Custom Ø56 cylinder with internal switch
Integrated logic system for quick actioning

APPLICATION EXAMPLE:

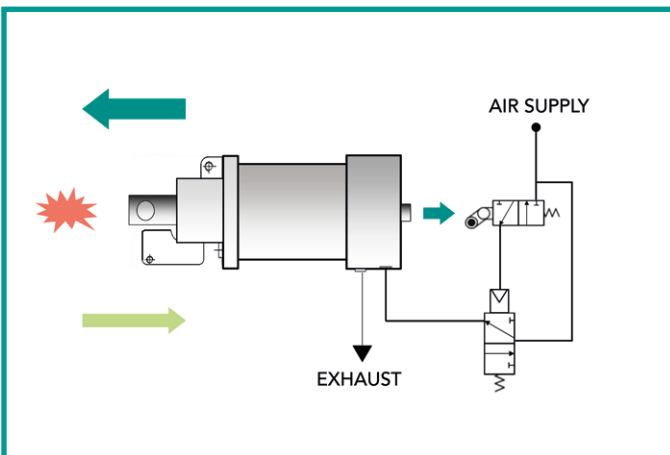
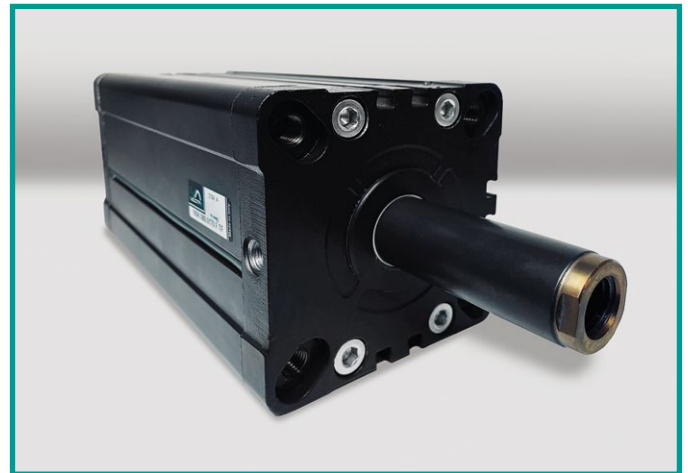
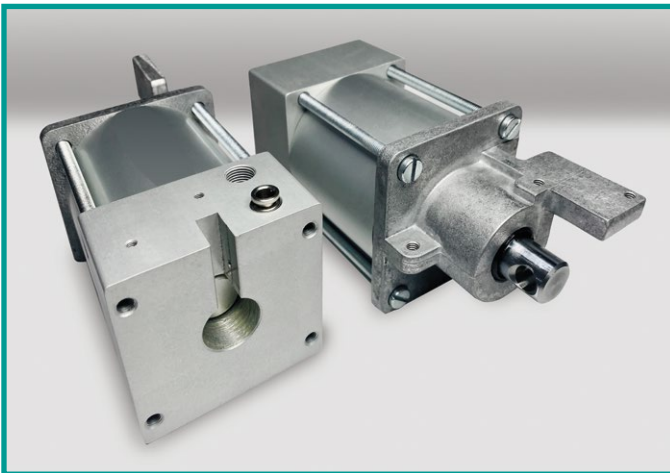
Positioning in welding plants

SPECIAL REQUEST:

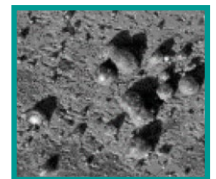
Positioning in welding plants

TECHNICAL FEATURES:

Hard surface treatment for heat
Stainless steel rod coated with PTFE
Standard ISO21287 compatible mountings






Welding spatter damage
on an aluminium surface





VESTA AUTOMATION srl
Via Martiri di Belfiore 69/A
45100 Rovigo - Italia

 +39 0425 474838
 info@vesta.it
 Vesta Automation Srl

Check out Vesta
Production Range:
Scopri il Production
Range di Vesta:

