

Metal-Asia

COMMERCIAL PROPOSAL

OM-2500Q Automatic Wire Mesh Welding Machine — 2,500 mm Width, Wire dia. 6–10 mm

Supplier: Metal-Asia.pw — Global Industrial Procurement & Supply Chain Solutions

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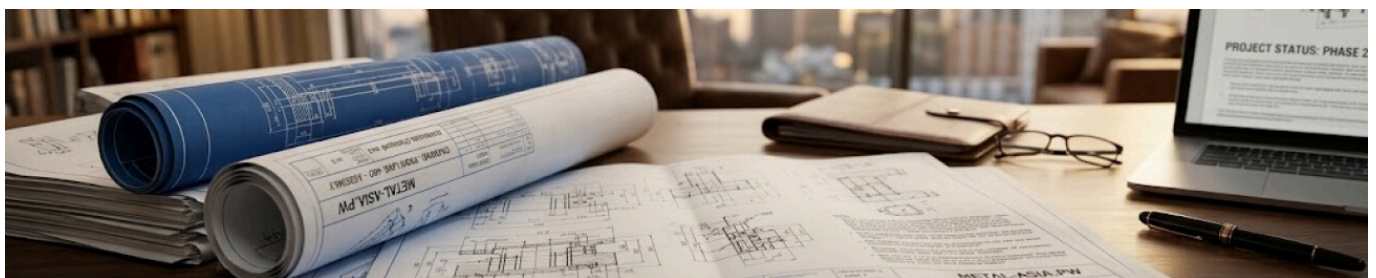
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Segment: Industrial Equipment for Concrete Reinforcement, B2B

Target Markets: Europe, North America, Middle East, Africa, Southeast Asia, Latin America

Introduction

Reinforcement mesh production represents one of the core segments of the construction materials industry. Modern automated lines deliver up to 60 tons of finished product per shift with minimal operator intervention. The OM-2500Q model is engineered for large-scale production of mesh up to 2,500 mm wide from longitudinal and transverse wire with diameters of 6–10 mm. This equipment serves infrastructure projects including industrial facilities, bridge decks, road pavements, tunnel linings, residential complexes, and airport runways. The machine features PLC control with HMI touchscreen, automatic wire feeding, servo-driven mesh pulling, and automated stacking. Every unit undergoes factory testing and pre-shipment inspection prior to delivery. For international customers, we provide end-to-end services: technical specification preparation, manufacturer negotiation, quality control at the factory, certification, shipping, customs clearance, and commissioning with operator training.



Technical documentation and engineering drawings for wire mesh welding equipment

Customer Pain Points & Our Solutions

Customer Challenge	Business Impact	Our Solution
Unclear specifications in factory catalogs	Equipment mismatch, project delays	Engineering audit and specification verification before ordering
Risk of receiving defective equipment	Financial losses, disputes	Pre-shipment inspection with photo/video reporting

Customer Challenge	Business Impact	Our Solution
Customs clearance complexity	Delays, penalties, extra costs	Customs & logistics services — full clearance management
No local service support	Downtime, spare parts shortages	Local spare parts inventory, remote diagnostics, field engineer dispatch
Incomplete shipments	Startup blocked, schedule slips	Pre-shipment completeness check against packing lists at our warehouse
Language barrier with manufacturers	Miscommunication, specification errors	Multilingual project management throughout the process
No payment security	Full prepayment loss risk	Contract with legal escrow payment protection

Equipment Overview

Purpose

Automatic resistance welding machine for manufacturing welded reinforcement mesh up to 2,500 mm wide from longitudinal and transverse wire diameters 6–10 mm. Finished product is used for reinforcing concrete structures in industrial and civil construction.

Applications of Finished Product

- Industrial buildings and warehouses
- Concrete flooring and foundations
- Bridge decks and overpasses
- Road pavements and airports
- Tunnel linings and metro systems
- Residential high-rise structures

Technical Specifications

Main Parameters — OM-2500Q

No.	Parameter	Value	Notes
1	Welding wire diameter	6–10 mm	Longitudinal and transverse
2	Welding width	2,500 mm	Adjustable
3	Maximum mesh length	9,000 mm	Adjustable
4	Longitudinal wire pitch	100–200 mm	Fixed or adjustable
5	Transverse wire pitch	50–300 mm	CNC-controlled
6	Number of welding points	24	Simultaneous

No.	Parameter	Value	Notes
7	Welding speed	15–55 rows/min	
8	Welding method	Pneumatic pressure	Simultaneous / sequential
9	Welding transformer power	180 kVA x 12 units	Total 2,160 kVA
10	Supply voltage	380 V, 50 Hz, ±10%	Requires >400 kW grid
11	Power cable	Copper 120 mm ² x 3+1	
12	Compressed air pressure	≤0.8 MPa	
13	Cooling	Water-cooled, closed-loop	
14	Control system	PLC + HMI touchscreen	Intelligent interface
15	Equipment color	Grey + blue	Customizable
16	Dimensions (L x W x H)	38,000 x 6,000 x 2,200 mm	
17	Weight (approximate)	18,000–25,000 kg	
18	Manufacturing lead time	70 days	

Control & Automation Systems

No.	Component	Description
1	PLC controller	Programmable control of all units
2	HMI touchscreen	Real-time parameter input and display
3	Microcomputer weld control	Precise impulse time and power management
4	Variable frequency drives	Smooth speed adjustment of all drives

Welding System

No.	Component	Description
1	Welding transformers	180 kVA x 12, epoxy-filled, water-cooled
2	Welding electrodes	Water-cooled, wear-resistant
3	Pneumatic drive system	Up to 0.8 MPa, adjustable weld force

Feeding & Pulling Mechanisms

No.	Component	Description
1	Transverse wire hopper	Stepper motor, rotary disc mechanism
2	Longitudinal wire feed	Servo motor, automatic feeding
3	Mesh pulling mechanism	Servo motor + planetary gearbox, pneumatic grip

No.	Component	Description
4	Stacking & unloading system	Automatic, reducing manual labor

Supply Scope

Main Configuration

No.	Item	Qty	Unit
1	Main welding machine OM-2500Q	1	pcs
2	CNC mesh pulling platform	1	set
3	Automatic transverse wire feeding hopper	1	set
4	CNC control cabinet	1	pcs
5	Automatic stacking & unloading system	1	set
6	Output roller table	1	set
7	Longitudinal wire support rack	4	pcs
8	Auxiliary control cabinet	1	pcs
9	Air compressor	1	set
10	Air receiver tank 1 m ³	2	pcs
11	Air dryer unit	1	pcs
12	Air filters	3	pcs
13	Water cooling chiller	1	pcs

Spare Parts & Consumables (Included)

No.	Item	Qty	Unit
1	Operation manual	1	pcs
2	Welding electrodes	8	pcs
3	Solenoid valves	3	pcs
4	Pneumatic fittings set	1	set

Operational Consumables

No.	Material	Purpose
1	Longitudinal wire 6–10 mm	Pre-cut blanks
2	Transverse wire 6–10 mm	Pre-cut blanks

No.	Material	Purpose
3	Welding electrodes (spare)	Electrode replacement
4	Cooling water	Closed-loop with cooling tower
5	Compressed air	Up to 0.8 MPa
6	Electrical power 380 V	>400 kW installed capacity

Facility Requirements

Parameter	Requirement
Production floor space	Minimum 38 x 6 m (228 m ²)
Ceiling height	Minimum 3.5 m
Temperature	+5°C to +40°C
Humidity	≤80%
Electrical supply	380 V, 50 Hz, >400 kW
Power cable	Copper, min. 120 mm ² x 3+1
Cooling system	Closed-loop with cooling tower
Compressed air	Compressor, receivers 2 x 1 m ³ , dryer
Foundation	Industrial concrete floor
Floor coating	Industrial-grade concrete
Ventilation	Exhaust, especially at welding stations
Lighting	Min. 200 lux

Services Included

Full-Scope Procurement Services

[Metal-Asia.pw](#) provides comprehensive industrial equipment sourcing from China:

Engineering Audit for Complex Orders — Technical parameter verification, specification alignment with the manufacturer, bilingual technical specification preparation in English and Chinese. Our engineers validate equipment compliance with your requirements before contract signing.

China Sourcing Services — Full cycle from manufacturer identification to delivery at your facility. Includes negotiation, production monitoring, pre-shipment inspection, packaging, shipping, and customs clearance.

Customs & Logistics from China — Full-cycle customs clearance, declaration preparation, certification, and permit acquisition. We handle all HS codes including industrial machinery and metal products.

Comprehensive Procurement & Sourcing — Optimal equipment configuration selection for your tasks and budget. Comparison of offers from multiple manufacturers, factory audits.

Integrated Engineering Systems — Turnkey production line design and equipment supply, including auxiliary equipment, utilities, and automation systems.

Tender Support — Bid preparation for [government and public procurement](#) frameworks. Complete documentation package for tender participation.

Quality Control — Factory inspection with non-destructive testing methods (NDT, ultrasonic testing), chemical composition verification against international standards, pre-shipment equipment testing.

Why Metal-Asia.pw vs. Direct Chinese Suppliers

Criterion	Direct Order from China	Working with Metal-Asia.pw
Language barrier	Communication issues	English-speaking manager at every stage
Factory verification	Impossible without presence	On-site audit with photo/video report
Technical documentation	Chinese only only	Translated, adapted to your standards
Quality control	None	Pre-shipment inspection with spare parts kit
Customs clearance	Self-managed	Full customs management
Warranty case	Lengthy negotiations, ship to China	Local resolution through our office
Payment	Direct transfer to China, high risk	Secure payment schemes with escrow
Commissioning	Expensive, difficult to organize	Comprehensive commissioning with training
Spare parts	Long delivery from China	Local spare parts inventory
Legal protection	Difficult to enforce claims	Contract under international law

Customs Information

HS Code

Parameter	Value
HS Code	8462.90.80
Description	Other machine tools for working metal, including presses
Import duty rate	Per current customs tariff

Parameter	Value
VAT	Per destination country rate

Customs Clearance

[Metal-Asia.pl](https://www.metal-asia.pl) provides full customs clearance services. We prepare complete documentation including commercial contract, invoice, packing list, certificate of origin, technical documentation, and conformity declaration. The equipment may require a certificate or declaration of conformity to machinery safety directives. All permits are obtained prior to delivery, eliminating customs delays.

Delivery Terms

Parameter	Terms
Incoterms	Per agreement (CIP/DDP/FCA)
Transport mode	Road, sea, rail
Manufacturing lead time	70 days after advance payment
Transit time	15–45 days (route-dependent)
Packaging	Wooden crates, open-frame for large units
Number of packages	8–12
Volume	~45–55 m ³
Gross weight	~18,000–25,000 kg
Warranty	12 months from startup

Equipment Gallery



Automatic mesh welding machine and reinforcement mesh production line

Frequently Asked Questions (FAQ)

Q1: What personnel is required to operate the OM-2500Q?

One operator and one maintenance technician per shift. The operator manages startup, parameter monitoring, and finished product unloading. The technician handles wire loading, electrode replacement, and routine maintenance. For 24/7 operation in 3 shifts, 6 core personnel plus a lead technician are required.

Q2: What electrical supply is required?

Dedicated line at 380 V, 50 Hz, 3-phase. Installed capacity must exceed 400 kW. Recommended power cable: copper 120 mm² x 3+1. Ground resistance not exceeding 4 Ohm.

Q3: Is a special foundation required?

No special foundation is needed. A level industrial concrete floor is sufficient. Equipment dimensions: 38 x 6 meters, height 2.2 meters. Clear space around the machine is required for maintenance access.

Q4: What raw material is used for mesh production?

Low-carbon steel wire VR-1 (deformed/ribbed) or smooth wire, diameter 6–10 mm. Longitudinal wire is fed as pre-cut lengths (manual loading), transverse wire as pre-cut segments from automatic hopper.

Q5: How is operator training conducted?

Comprehensive training is included in commissioning: theoretical course on equipment construction (18 hours) and practical sessions (18 hours). Up to 3 persons trained at no additional cost. Training completion certificate provided.

Q6: What warranty coverage is provided?

12-month warranty from successful equipment startup. Covers defect correction, phone and video consultations. Field engineer dispatch for warranty cases at supplier's expense. Warranty valid only with certified commissioning.

Q7: What is the total lead time from order to production?

Manufacturing: 70 days. Transit by road: 15–25 days; by sea: 30–45 days. Commissioning: 10–14 days. Total from contract signing: 95–130 days by sea, or 80–110 days by road.

Q8: Is commissioning included in the equipment price?

Commissioning is priced separately. Engineer daily rate: USD 100–200 plus travel, accommodation, and meals. For this machine, 10–14 engineer-days are required. Fixed-price full-service packages are also available.

Contact Information

For detailed service information, visit Metal-Asia.pw.

For all inquiries, contact our customer service team:

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Turnkey supply of industrial reinforcement mesh welding equipment with global commissioning