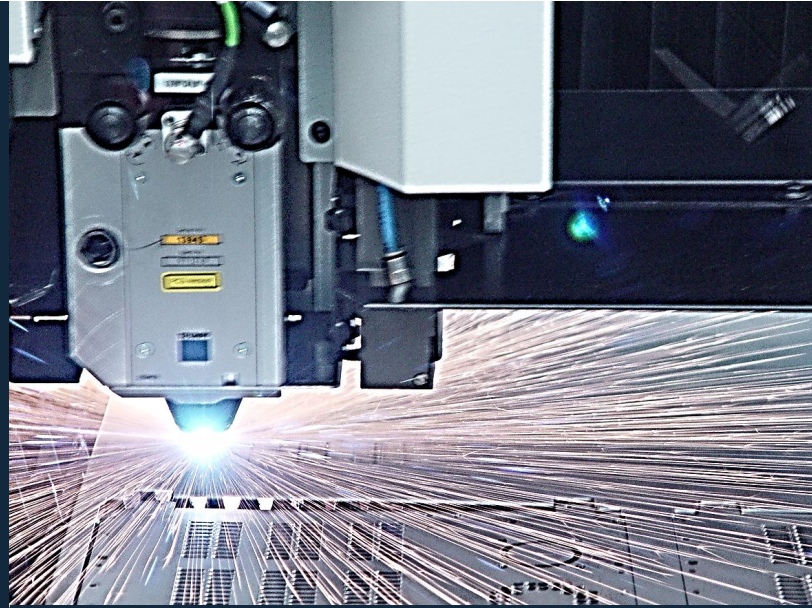


NUCLEAR & INDUSTRIAL MANUFACTURING

Nuclear components & precision metalwork

Laser cutting, waterjet cutting, CNC punching and forming for components made to customer drawings.



LASER CUTTING / METAL PLATE PROCESSING

A manufacturing base in Busan serving industrial applications

Kyoung Sung Eisen manufactures metal plate components for nuclear, industrial equipment, rail and marine applications.

FIBER LASER

6 kW

TRUMPF

WATERJET

5 AXIS

FLOW Dynamic XD

SITE AREA

3,035 m²

Hwajeon, Busan

ISO SYSTEMS

3

Quality / Environment / Safety

Markets served

Nuclear

Steam generator
tube support components

Industrial equipment

Structural parts, cable trays
and supports

Rail

Cut and bent parts
for vehicles and underframes

Marine

Fabricated components
and cable control enclosures

Business and technology milestones

1979	2014	2016	2024
Predecessor business founded	Expanded Hwajeon facility	Two Korean patents registered	Environmental and safety ISO

Core products and fabrication portfolio

Steam generator support-bar manufacturing experience, supported by a broader range of metal plate fabrication.

NUCLEAR STEAM GENERATOR SUPPORT COMPONENTS

EGGCRATE & TUBE SUPPORT BAR

Grid components and bars for tube support. Manufacturing considers slot and hole pitch, deburring, cleanliness and identification requirements.

Slot and hole pitch control

Deburring and staged cleaning

Laser identification marking



Laser-cut components

Plate profiles for brackets, frames and related parts



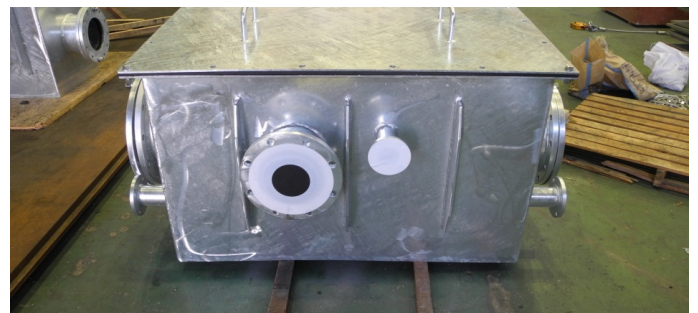
Punched and formed panels

Holes and repeating patterns in metal plate



Bent and roll-formed parts

Clamps, shells and other angular or curved forms



Industrial and marine fabrications

Plate-based assemblies including cable control enclosures

MATERIALS

Steel, stainless steel, aluminium, copper and other metals

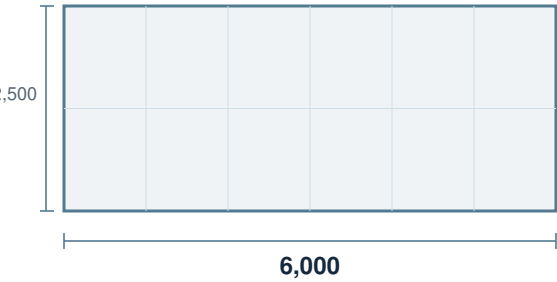
Images are fabrication examples from the company profile. Material, geometry and processing scope are reviewed against each drawing.

Equipment for your material and geometry

Processes cover large-format plate cutting, repeating hole patterns, bending and edge finishing.

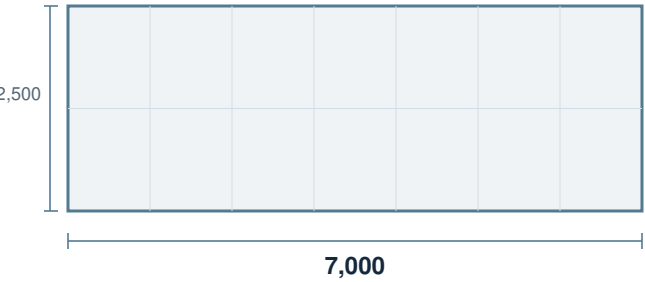
Fiber laser

6 kW / TRUMPF



5-axis waterjet

FLOW Dynamic XD / vertical and bevel cutting



Working-range diagrams / same scale / dimensions in mm

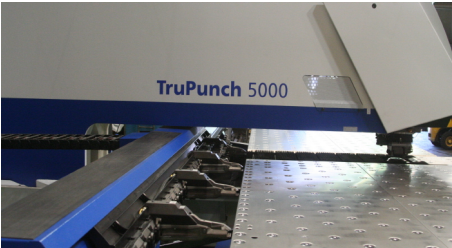
Process	Equipment / model	Working range and specifications
Fiber laser	TRUMPF	6 kW / 2,500 × 6,000 mm
CO2 laser	TRUMPF	4 kW / 1,524 × 3,048 mm
Waterjet	FLOW Dynamic XD	100 HP / 87 kpsi / 2,500 × 7,000 mm
CNC punching	TRUMPF TruPunch 5000	1,524 × 6,000 mm
NC bending	NC press brake	6 mm × 3,100 mm (rated)
Deburring / edge finishing	WEBER	-



Fiber laser equipment



Waterjet equipment



CNC punching equipment

Specifications are from company records. Feasible thickness, size and tolerances depend on material, geometry and operating conditions.

Control through inspection and release

A representative support-bar workflow combines in-process inspection, staged cleaning and identification before final inspection and shipment.

REPRESENTATIVE WORKFLOW / 11 STAGES



Control points: slot and hole pitch / cumulative tolerances / burrs and surface condition / part identification

Client QC attendance and final inspection scope are agreed to suit the part and customer requirements.

Certified management systems

ISO 9001

Quality management
ISO 9001:2015 / QSC1474

ISO 14001

Environmental management
ISO 14001:2015 / ESC4374

ISO 45001

Occupational health & safety
ISO 45001:2018 / OSC0944

Korean registered manufacturing patents

Tube support bar manufacturing

KR 10-1653653

A method addressing punch-induced elongation and hole-spacing control in nuclear steam generator support bars.

Burr removal apparatus

KR 10-1625453

An apparatus for mechanised deburring and polishing of parts after punching.

ISO references describe management systems, not product certification. Patent numbers link to the public patent records.

Project experience and technical enquiries

Nuclear and industrial project experience supports drawing-based discussions about your manufacturing scope.

Korea / UAE / Japan

Historical project supply experience

Supply experience on Doosan Enerbility nuclear projects



Region	Application	Representative scope
Korea	Nuclear, industrial equipment, rail	Nuclear parts, crane machinery rooms, cut and bent rail components
UAE	Nuclear power projects	Components for nuclear projects
Japan	Power, steel, chemical and paper facilities	Cable trays and ducts, brackets, supports and gratings

References summarise historical project applications. They do not establish current contracts or direct customer relationships.

Four inputs for a manufacturing review

01 Drawings Drawing number, revision and key dimensions	02 Material Grade, thickness and material specification	03 Quantity & timing Quantity by item and requested delivery	04 Inspection & records Tolerances, acceptance criteria and required documentation
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Discuss your next manufacturing project

Send your drawings and requirements. We can review processing options, delivery timing, inspection scope and documentation with you.

TECHNICAL & COMMERCIAL ENQUIRIES

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