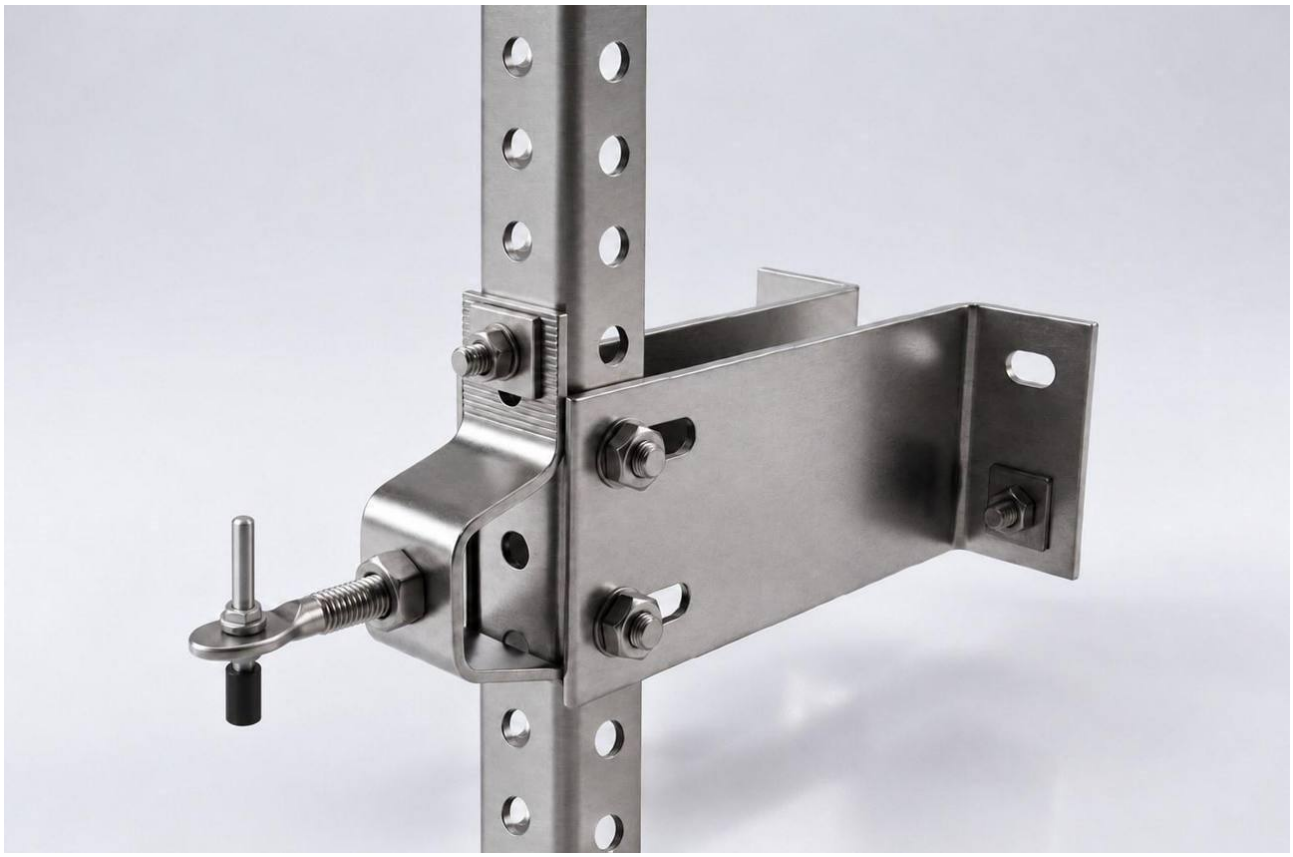
TRION METAL SANAYI VE TICARET LIMITED SIRKETI

Company Profile

Capabilities, product range, projects and certification — in one place.



CONTENTS

What is inside

01	Company at a glance	03
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01

Company at a glance

Founded in 2019, Trion Metal designs and produces façade fixing systems and custom metal components for architectural projects — precision-fabricated, drawing-led and built around standard production with geometry adapted to each project.

FOUNDED 2019	FACTORY Başiskele, Kocaeli	OFFICE / HQ Pendik, Istanbul
CAPACITY ~100 t / month (1 shift) ~250 t / month (3 shifts)	LEAD TIME 1–4 weeks, indicative	QUALITY ISO 9001:2015
MATERIALS AISI 304 / 316 / 430, galvanised S235JR	MARKETS Türkiye, Europe, Gulf, Central Asia	AFFILIATE Trion AKG Marble, Dubai

Why Trion Metal

Integrated façade expertise
Engineered façade fixing systems, backed by natural stone experience through the Dubai-based affiliate Trion AKG Marble.

In-house engineering & custom manufacturing
Components developed with project-specific flexibility for precision and reliable performance.

International project background
Façade and stone applications delivered across Central Asia and the Gulf region.

Stainless 304 / 316 specialisation
Made for demanding exterior conditions, focused on durability and load reliability.

Scalable production
The Kocaeli facility handles both standard supply and high-volume custom production.

Reliable technical coordination
Support from design stage through delivery and site implementation.



02

Manufacturing capabilities

Precision-fabricated façade fixing systems, architectural metal components and drawing-led bespoke production.

A

Precision cutting

6 kW fibre laser cutting (1550 × 3050 mm, ±0.03 mm); guillotine sheet cutting up to 14 mm; drilling to Ø35 mm.

B

Pressing & forming

Hydraulic (750 t) and eccentric pressing (60–160 t), 320 t press brake bending, servo roll opening and feeding.

C

Machining & finishing

Thread rolling 6–25 mm, tapping 6–18 mm, milling, turning, grinding, deburring and degreasing.

D

Welded assemblies

MMA and MIG/MAG metalwork, subject to project qualification.

Custom manufacturing & technical input

Drawing-led feasibility assessments cover material selection (including AISI 304/316 stainless steel and galvanised carbon steel), forming and fabrication routes, tolerances, inspection scope, prototypes and production planning. Non-standard components can be reviewed for in-house or clearly identified subcontracted manufacture.

Production capacity

Approximately **100 tonnes per month** on one shift for an L-bracket production mix, with potential scale-up to approximately **250 tonnes per month** on three shifts. Output depends on geometry, unit weight, product mix and programme — Z-brackets yield lower tonnage than L-brackets. Indicative manufacture lead times: **one to four weeks**, subject to package review.

Quality, welding & installation

ISO 9001:2015 quality-management certification, valid to 13 October 2027. Welding execution class, welder qualifications, ISO 3834-2 / EN 1090-2 EXC3 / ASME requirements, NDT and inspection plans require verification for each package. Site erection and installation support can be assessed against agreed scope and HSE requirements.

Package review approach

For each new project we classify every item as in-house, subcontracted or excluded; clarify heavier secondary steelwork separately; review drawings and welding specifications; and provide technical queries, realistic programmes, quotation and commercial terms. AI-assisted document coordination helps identify specification gaps, alongside certified inspection and engineering approval.

Factory-highlighted components



F BRACKET



DOUBLE L BRACKET



Z BRACKET TYPE 1



Z BRACKET TYPE 2



WELDED L-BRACKET

03

Product range overview

Standard and bespoke components. Specifications and materials are confirmed against approved project drawings.

Brackets 13


Z BRACKET TYPE 1


Z BRACKET TYPE 2


BODY ANCHOR TYPE 1


BODY ANCHOR TYPE 2


C BRACKET


CORNER BRACKET


OMEGA BRACKET


L BRACKET


L ADJUSTABLE BRACKET


L FIXED BRACKET


F BRACKET


DOUBLE L BRACKET


WELDED L-BRACKET

Channels & profiles 4


G CHANNEL


U CHANNEL


L CHANNEL


L EXTENSION ARM

Fixing accessories 14


ADJUSTABLE ARM


ADJUSTABLE ARM — WELDED T


THROUGH BOLT


SLEEVE ANCHOR


WIRE ANCHOR


MORTAR ANCHOR


UNDERCUT ANCHOR


CHANNEL NUT (LOCK NUT)


HEX BOLT


HEX NUT


FLANGED PIN


SQUARE WASHER


L ADJUSTABLE ARM


SQUARE ADJUSTABLE ARM

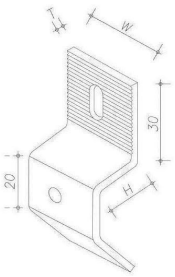


04

BRACKETS

Z, body-anchor, C, corner, omega and L-family brackets for natural stone and façade cladding.





8 STANDARD SIZES · DIMENSIONS IN MM

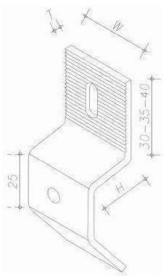
Z Bracket — Type 1

Stone cladding bracket with serrated vertical leg and slotted hole.

CODE	H	W	T
TR20273	20	27	3
TR40273	40	27	3
TR60273	60	27	3
TR80273	80	27	3
TR20303	20	30	3
TR40303	40	30	3
TR60303	60	30	3
TR80303	80	30	3

STAINLESS STEEL · GALVANISED





8 STANDARD SIZES · DIMENSIONS IN MM

Z Bracket — Type 2

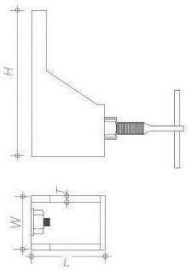
Serrated Z bracket supplied with adjustable arm and pin assembly.

CODE	H	W	T
TR20304	20	30	4
TR40304	40	30	4
TR60304	60	30	4
TR80304	80	30	4
TR40355	40	30	5
TR60355	60	35	5
TR80355	80	35	5
TR100355	100	35	5

STAINLESS STEEL · GALVANISED

Material, all items: St 37 (S235JR) sheet, electro-galvanised or hot-dip galvanised, or stainless steel AISI 304 (1.4301), AISI 316 (1.4401), AISI 430 (1.4016).





6 STANDARD SIZES · DIMENSIONS IN MM

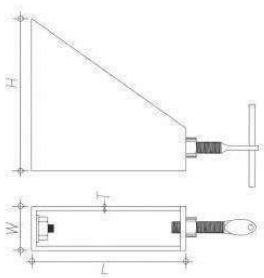
Body Anchor — Type 1

Box-section body anchor with threaded adjustable arm.

CODE	L	W	H	T
TRBA140	40	30	80	3
TRBA150	50	30	100	3
TRBA160	60	30	120	3
TRBA170	70	40	140	4
TRBA180	80	40	160	4
TRBA190	100	40	200	4

STAINLESS STEEL · GALVANISED





6 STANDARD SIZES · DIMENSIONS IN MM

Body Anchor — Type 2

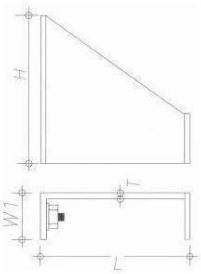
Triangular body anchor for larger cavity depths.

CODE	L	W	H	T
TRBA280	80	30	80	3
TRBA2100	100	30	100	3
TRBA2120	120	30	120	3
TRBA2140	140	40	140	4
TRBA2160	160	40	160	4
TRBA2180	180	40	180	4

STAINLESS STEEL · GALVANISED

Material, all items: St 37 (S235JR) sheet, electro-galvanised or hot-dip galvanised, or stainless steel AISI 304 (1.4301), AISI 316 (1.4401), AISI 430 (1.4016).





6 STANDARD SIZES · DIMENSIONS IN MM

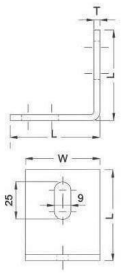
C Bracket

Channel-form bracket with serrated face and adjustable arm.

CODE	L	W	H	T
TRC80404	80	40	80	4
TRC100454	100	45	90	4
TRC120455	120	45	90	5
TRC140505	140	50	100	5
TRC180506	180	50	100	6
TRC200606	200	60	120	6

STAINLESS STEEL · GALVANISED





1 STANDARD SIZE · DIMENSIONS IN MM

Corner Bracket

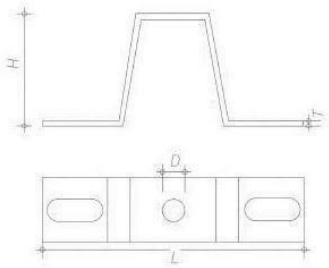
Angle bracket for external corner stone joints; 25 × 9 mm slot.

CODE	L	W	T
TRC60504	60	50	4

STAINLESS STEEL · GALVANISED

Material, all items: St 37 (S235JR) sheet, electro-galvanised or hot-dip galvanised, or stainless steel AISI 304 (1.4301), AISI 316 (1.4401), AISI 430 (1.4016).





6 STANDARD SIZES · DIMENSIONS IN MM

Omega Bracket

Hat-section bracket with slotted feet and central hole (D).

CODE	W	H	T	D
TRO3020	30	20	3–4	8-10-12
TRO3040	30	40	3–4	8-10-12
TRO3060	30	60	3–4	8-10-12
TRO4080	40	80	3–4	8-10-12
TRO40100	40	100	3–4	8-10-12
TRO40120	40	120	3–4	8-10-12

STAINLESS STEEL · GALVANISED



6 STANDARD SIZES · DIMENSIONS IN MM

L Bracket

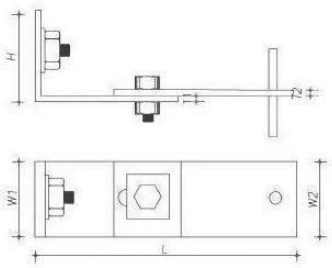
Plain angle bracket with slotted vertical leg.

CODE	C	W	B	T
TRL4035	40	35	40	3
TRL6035	60	35	40	3
TRL4040	40	40	40	3
TRL6040	60	40	40	3
TRL4050	40	50	40	3
TRL6050	60	50	40	3

STAINLESS STEEL · GALVANISED

Material, all items: St 37 (S235JR) sheet, electro-galvanised or hot-dip galvanised, or stainless steel AISI 304 (1.4301), AISI 316 (1.4401), AISI 430 (1.4016).





6 STANDARD SIZES · DIMENSIONS IN MM

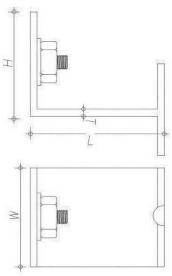
L Adjustable Bracket

Two-part sliding L bracket with serrated plates for depth adjustment.

CODE	L	W1/W2	H	T1/T2
TRLA100403	100	40	40	3
TRLA1210403	120	40	40	3
TRLA140504	140	50	50	4
TRLA160504	160	50	50	4
TRLA180505	180	50	50	5
TRLA220505	220	50	50	5

STAINLESS STEEL · GALVANISED





6 STANDARD SIZES · DIMENSIONS IN MM

L Fixed Bracket

Fixed L bracket with hooked return and serrated back plate.

CODE	L	W	H	T
TRLF32403	32	40	30	3
TRLF42403	42	40	30	3
TRLF47403	47	40	30	3
TRLF47404	47	40	30	4
TRLF52404	52	40	30	4
TRLF57404	57	40	30	4

STAINLESS STEEL · GALVANISED

Material, all items: St 37 (S235JR) sheet, electro-galvanised or hot-dip galvanised, or stainless steel AISI 304 (1.4301), AISI 316 (1.4401), AISI 430 (1.4016).

BRACKETS · WITHOUT STANDARD TABLES

Made to drawing



F BRACKET



DOUBLE L BRACKET



WELDED L-BRACKET

These factory-highlighted forms are produced to project geometry; dimensions and material are confirmed against approved drawings.

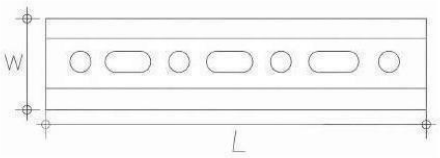


05

CHANNELS & PROFILES

G, U and L channels and L extension arms, manufactured in the desired length.





4 STANDARD SIZES · DIMENSIONS IN MM

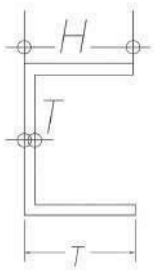
G Channel

Lipped strut channel, slotted, cut to the required length.

CODE	W	H	T
TRGC414125	41	41	2.5
TRGC414130	41	41	3
TRGC412125	41	21	2.5
TRGC412130	41	21	3

STAINLESS STEEL · GALVANISED





6 STANDARD SIZES · DIMENSIONS IN MM

U Channel

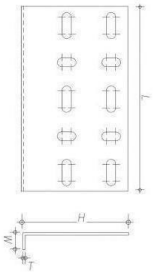
Perforated U profile, cut to the required length.

CODE	W	H	T
TRU303025	30	30	2.5
TRU353525	35	35	2.5
TRU404025	40	40	2.5
TRU303030	30	30	3
TRU353530	35	35	3
TRU404030	40	40	3

STAINLESS STEEL · GALVANISED

Material, all items: St 37 (S235JR) sheet, electro-galvanised or hot-dip galvanised, or stainless steel AISI 304 (1.4301), AISI 316 (1.4401), AISI 430 (1.4016) Supplied in the desired length.





5 STANDARD SIZES · DIMENSIONS IN MM

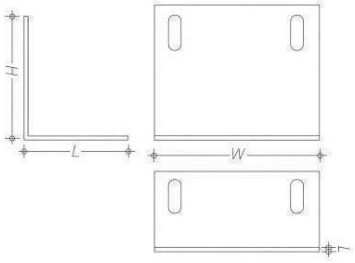
L Channel

Slotted angle profile, cut to the required length.

CODE	W	H	T
TRLC8525	15–20	85	2.5
TRLC9025	15–20	90	2.5
TRLC8530	15–20	85	3
TRLC9030	15–20	90	3
TRLC12040	15–20	120	4

STAINLESS STEEL · GALVANISED





7 STANDARD SIZES · DIMENSIONS IN MM

L Extension Arm

Slotted angle extension arm for stand-off adjustment.

CODE	L	W	H	T
TRLE50	50	90	50	3-4-5
TRLE80	50	90	80	3-4-5
TRLE100	50	90	100	3-4-5
TRLE120	50	90	120	3-4-5
TRLE150	50	90	150	3-4-5
TRLE200	50	90	200	3-4-5
TRLE250	50	90	250	3-4-5

STAINLESS STEEL · GALVANISED

Material, all items: St 37 (S235JR) sheet, electro-galvanised or hot-dip galvanised, or stainless steel AISI 304 (1.4301), AISI 316 (1.4401), AISI 430 (1.4016) Supplied in the desired length.



06

FIXING ACCESSORIES

Arms, anchors, bolts, nuts, pins and washers to complete each fixing system.

FIXING ACCESSORIES



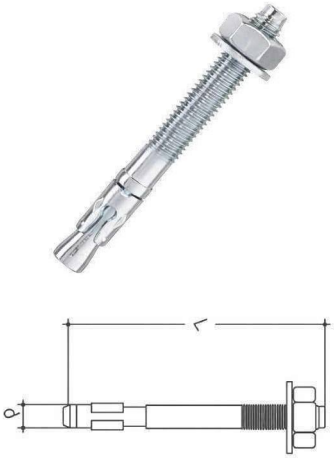
Adjustable Arm

Threaded arm with pin eye; dimensions W, T.



Adjustable Arm — Welded T

Threaded rod welded to a flat plate with two holes.



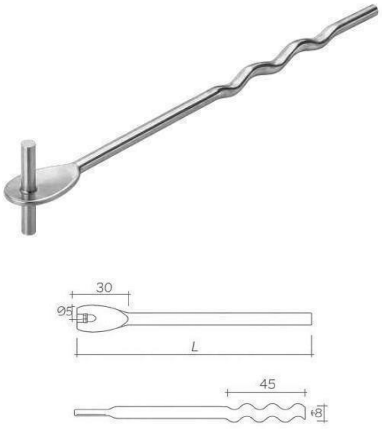
Through Bolt

Expansion bolt with nut and washer; dimensions L, Ø.



Sleeve Anchor

Sleeve-type expansion anchor; dimensions L, Ø, M.



Wire Anchor

Wave-formed wire tie with pin eye (30 mm head, 45 mm wave).



Mortar Anchor

Flat strip anchor with eye, wave-formed for mortar embedment.

Material: St 37 (S235JR) sheet, electro-galvanised or hot-dip galvanised, or stainless steel AISI 304 (1.4301), AISI 316 (1.4401), AISI 430 (1.4016). Size tables available on request.

FIXING ACCESSORIES



Undercut Anchor

Undercut anchor assembly for back-fixing stone panels.



Channel Nut (Lock Nut)

Strut channel nut; dimensions L, W, T, Ø.



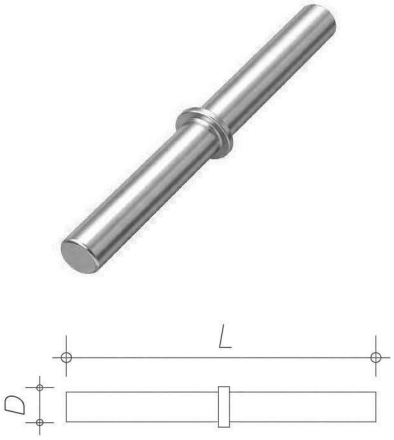
Hex Bolt

Hexagon head bolt; dimensions S, K, L, Ø.



Hex Nut

Hexagon nut; dimensions E, S, K, Ø.



Flanged Pin

Stone dowel pin with centre flange; dimensions L, D.

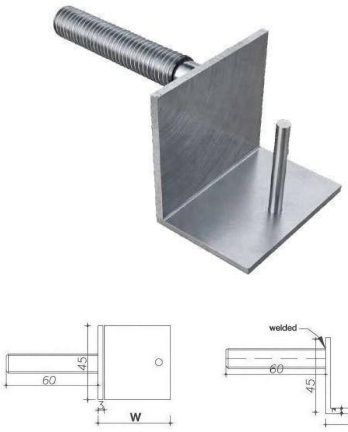


Square Washer

Plain and serrated square washers.

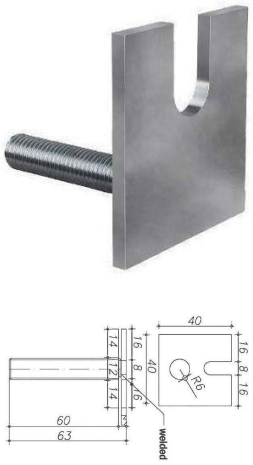
Material: St 37 (S235JR) sheet, electro-galvanised or hot-dip galvanised, or stainless steel AISI 304 (1.4301), AISI 316 (1.4401), AISI 430 (1.4016). Size tables available on request.

FIXING ACCESSORIES



L Adjustable Arm

Welded L arm with 60 mm threaded rod and 25 mm pin.



Square Adjustable Arm

40 × 40 mm slotted plate, 12 mm threaded rod 60 mm, welded.

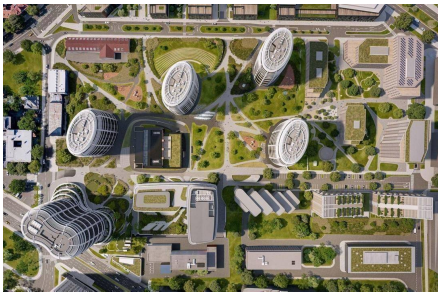
Material: St 37 (S235JR) sheet, electro-galvanised or hot-dip galvanised, or stainless steel AISI 304 (1.4301), AISI 316 (1.4401), AISI 430 (1.4016). Size tables available on request.

07

Project references

Selected façade fixing projects across Europe, Türkiye, the Gulf and Central Asia — 11 references.

NO.	PROJECT	LOCATION	CATEGORY	YEAR
01	Sky Park	Bratislava, Slovakia	Fibrobeton façade	—
02	Holland Park	Diemen, Netherlands	Fibrobeton façade	—
03	Bezmialem Vakıf University Hospital	Istanbul, Türkiye	International	2026
04	Guggenheim Abu Dhabi	Saadiyat Island, Abu Dhabi, UAE	International	Ongoing
05	Imam Bukhari Complex	Samarkand, Uzbekistan	International	2025
06	Islamic Civilization Center	Tashkent, Uzbekistan	International	2025
07	Nur Astana Mosque	Astana, Kazakhstan	International	2021 – 2022
08	The Galleria – Sowwah Island	Abu Dhabi, UAE	International	2019
09	New Al Ain Hospital	Al Ain, UAE	International	2018
10	Ramzan Kadyrov Mosque	Shali, Chechnya	International	2018
11	Canvas Hotel	Grozny, Chechnya	International	2018







Project visualisations are available on LinkedIn, Instagram and YouTube at Trion Metal.

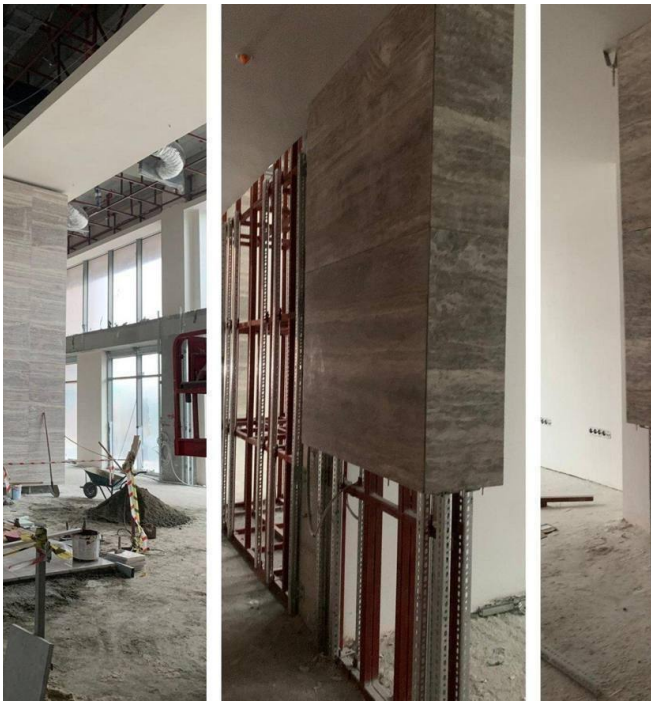
PROJECT REFERENCES



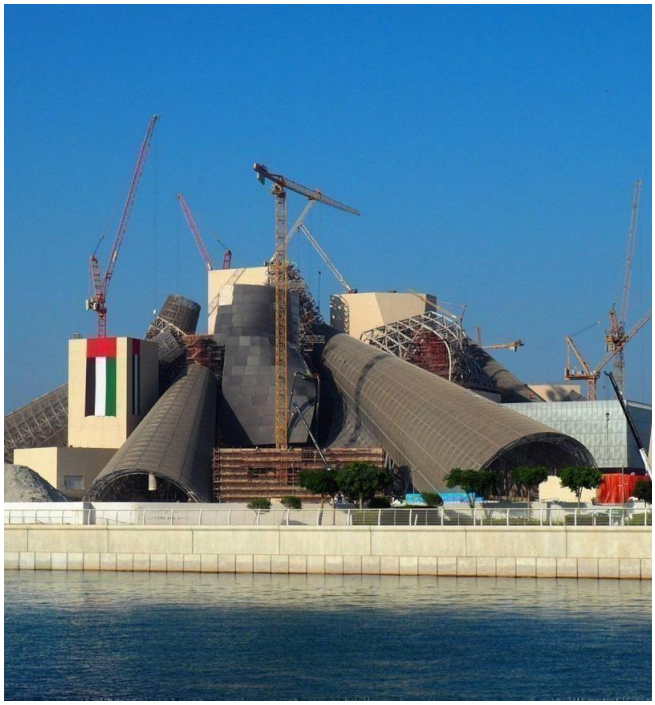
01 **Sky Park**
Bratislava, Slovakia
FIBROBETON FAÇADE



02 **Holland Park**
Diemen, Netherlands
FIBROBETON FAÇADE



03 **Bezmialem Vakıf University Hospital**
Istanbul, Türkiye · 2026
INTERNATIONAL

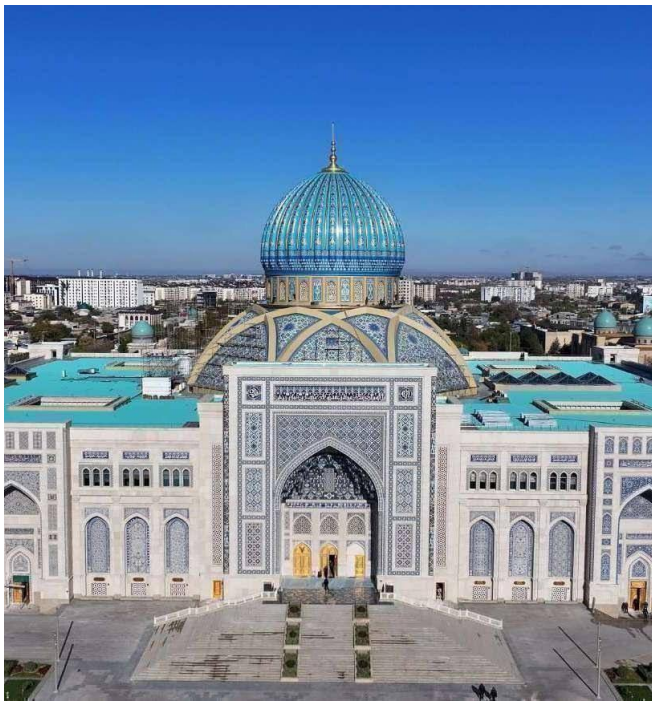


04 **Guggenheim Abu Dhabi**
Saadiyat Island, Abu Dhabi, UAE · Ongoing
INTERNATIONAL

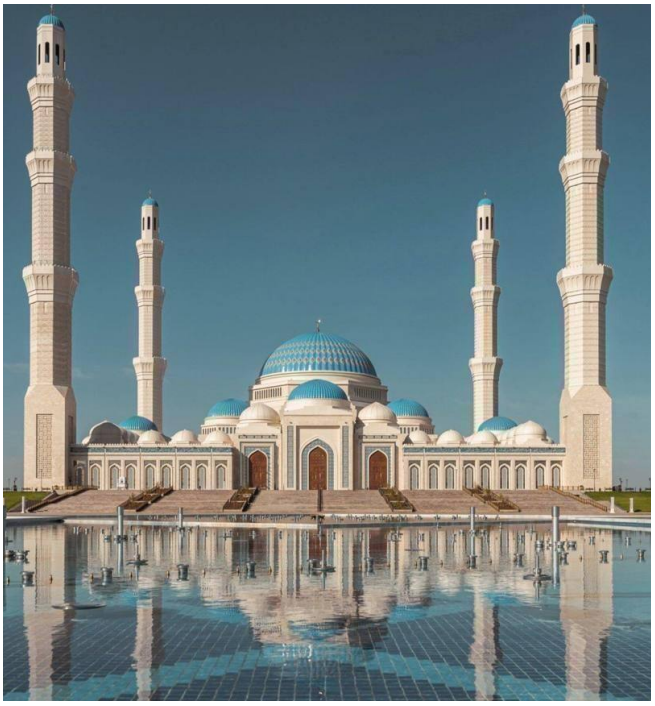
PROJECT REFERENCES



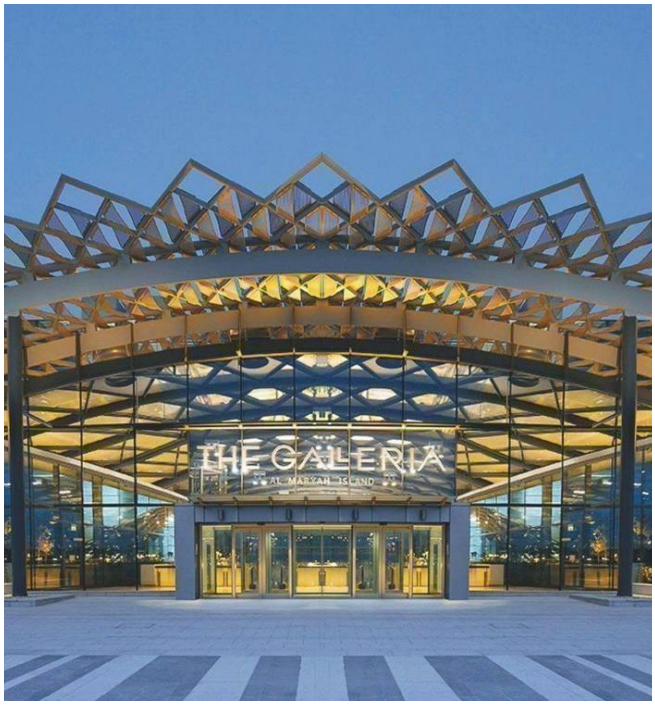
05 **Imam Bukhari Complex**
Samarkand, Uzbekistan · 2025
INTERNATIONAL



06 **Islamic Civilization Center**
Tashkent, Uzbekistan · 2025
INTERNATIONAL



07 **Nur Astana Mosque**
Astana, Kazakhstan · 2021 – 2022
INTERNATIONAL

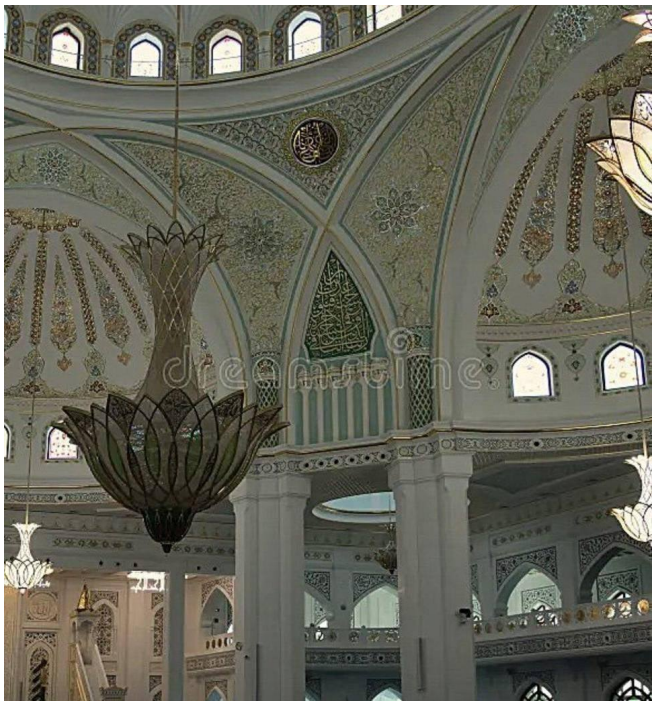


08 **The Galleria – Sowwah Island**
Abu Dhabi, UAE · 2019
INTERNATIONAL

PROJECT REFERENCES



09 **New Al Ain Hospital**
Al Ain, UAE · 2018
INTERNATIONAL



10 **Ramzan Kadyrov Mosque**
Shali, Chechnya · 2018
INTERNATIONAL



11 **Canvas Hotel**
Grozny, Chechnya · 2018
INTERNATIONAL

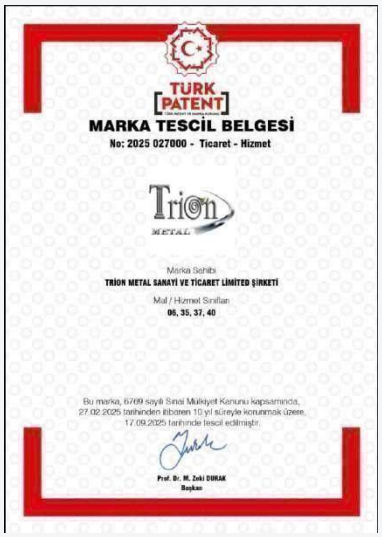
08

Certification



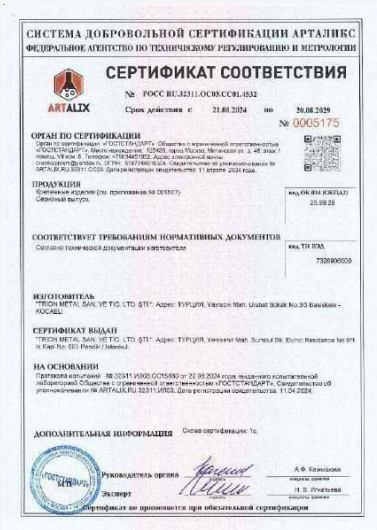
ISO 9001:2015

Issuer	IQR International Certification Services (ISAC)
Certificate	IQR.016/QMS.0066800
Initial	14.10.2025 · 3-year period
Valid to	13.10.2027
Scope	Design and manufacture of fastening systems, natural stone and marble cladding fixing systems, rail systems for stone cladding, brick-veneer walls and secondary structures.



Turkish trademark

Issuer	TÜRKPATENT
Reg. no.	2025 027000
Classes	06, 35, 37, 40
Registered	17.09.2025
Protection	10 years from 27.02.2025

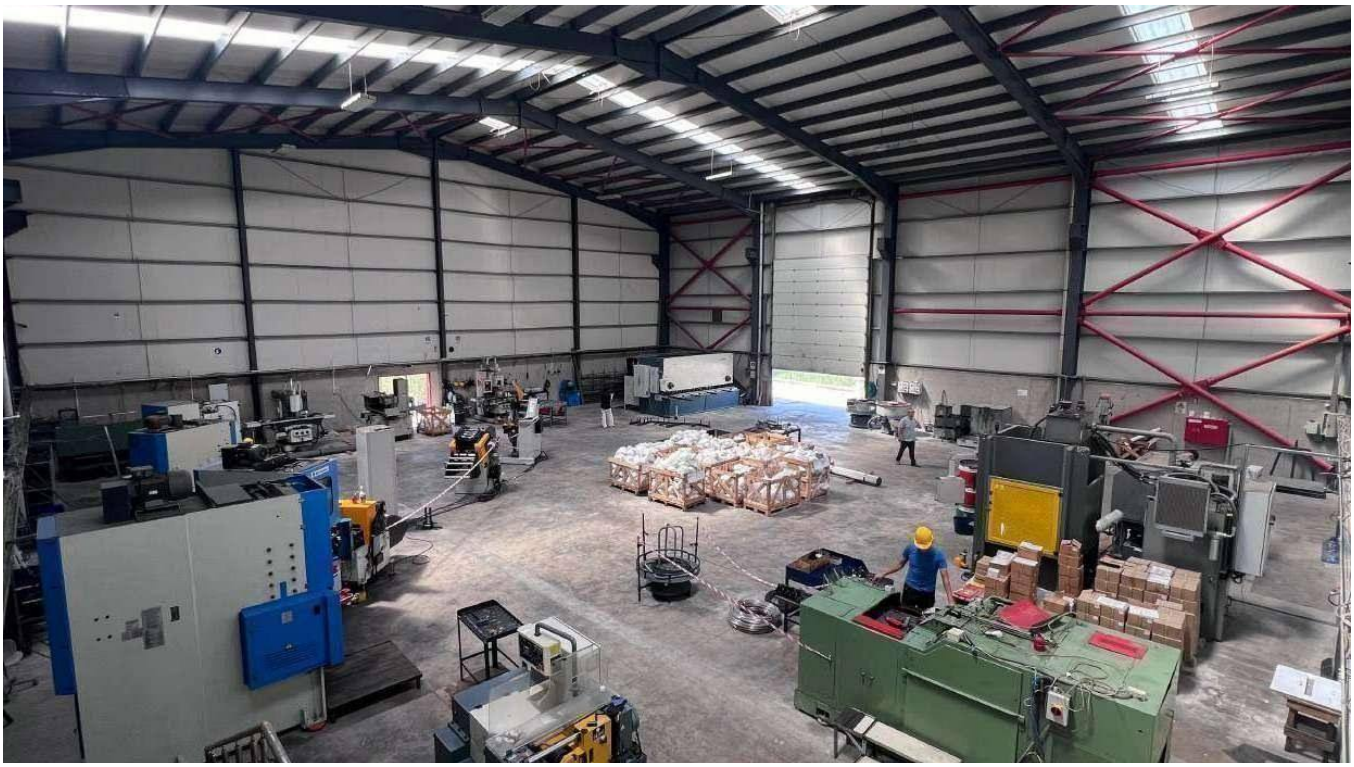


ARTALIX certificate of conformity

System	ARTALIX voluntary certification (Russia)
No.	POCC RU. 32311.OC03.CC01.4532 · № 0005175
Valid	21.08.2024 – 20.08.2029
Products	Fastening products, serial production

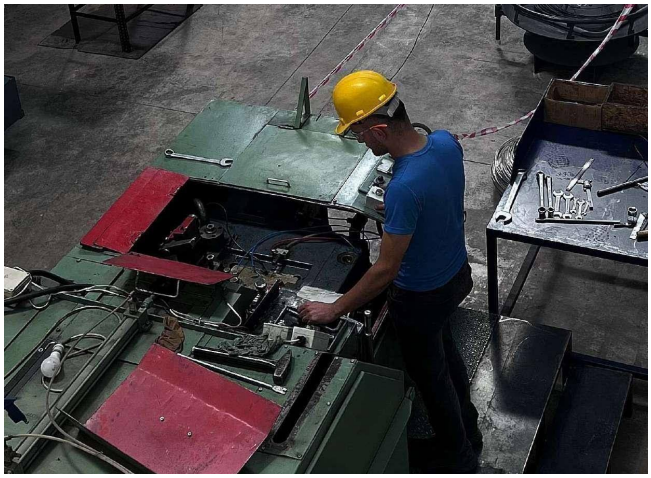
09

Production facility



Located in Başiskele, Kocaeli, the factory is the core production hub for Trion Metal's façade fixing and custom metal component systems — built for precision manufacturing and scalable production, combining engineering expertise with modern metal processing.

Lines cover laser and shear cutting, eccentric and hydraulic pressing, bending, coil processing, cold heading, thread rolling, tapping, drilling, milling, deburring, degreasing and drying, plus MMA and MIG/MAG welding.



PRODUCTION FACILITY · IN PICTURES



Factory, Kocaeli
Başiskele, Kocaeli



Production floor
Cutting, pressing, forming and finishing lines



DXTECH 6 kW fiber laser
1550 × 3050 mm bed, ±0.03 mm · 2025



Hidrometa hydraulic press
750 t, 80 × 80 cm table



On site
Trion fixing systems installed

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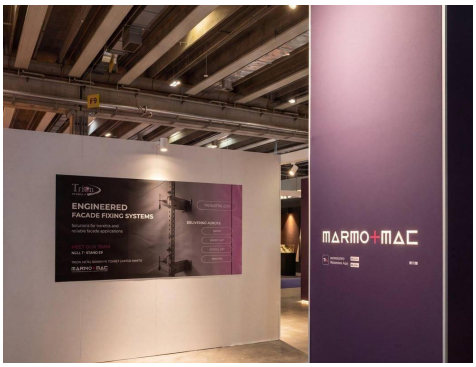
Exhibitions · Marmomac

Trion Metal exhibits at Marmomac in Verona, the leading international trade fair for natural stone, design and technology — meeting architects, stone processors and façade contractors from around the world.

EVENT	EDITIONS	STAND
Marmomac, Verona, Italy	2025 and 2026	Hall 7, Stand E9





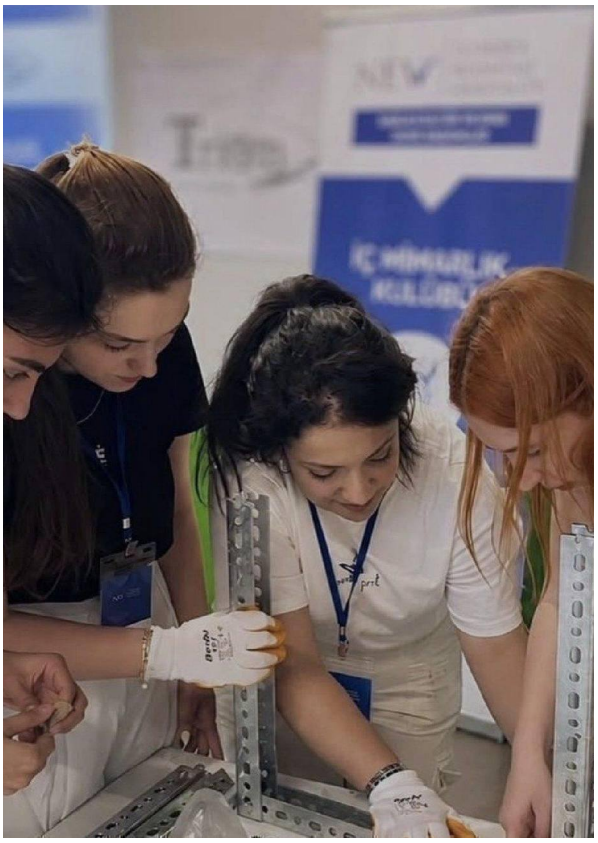




On the stand: the full bracket and adjustable-arm range on a live display wall, with project references from Central Asia and the Gulf.

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R&D, university & sustainability



ACADEMIC COLLABORATION

Designing with the next generation

In 2026 we carried out a **concept development project with Nişantaşı University** in Istanbul: interior architecture students designed and built concept pieces from Trion Metal profiles, exploring new uses for our brackets and channels. We remain in close contact with the university and are planning further collaboration.

Concept design
New uses for brackets and channels

Hands-on build
Workshops with our standard parts

Exhibition
Metal Design Workshop, Nişantaşı University

New ideas from design and R&D feed straight into our custom work.

Sustainability

We are actively looking for opportunities in sustainability and research — materials, processes and product design that support a more sustainable built environment.

Research & development

We welcome partnerships with universities, research institutes and industry partners on new fixing solutions, product development and manufacturing improvements.

Connected teams

Sales, design and engineering, marketing and R&D work in one loop, supported by AI-assisted coordination — so what one team learns, all of them use.

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Quick answers

When was Trion Metal founded and where is it?
Founded in 2019. Factory: Başiskele, Kocaeli. Headquarters / office: Pendik, Istanbul.

Which projects can you reference?
Guggenheim Abu Dhabi (ongoing), Bezmialem Vakıf University Hospital (2026), Imam Bukhari Complex and Islamic Civilization Center (2025), Nur Astana Mosque, The Galleria Abu Dhabi, New Al Ain Hospital, Ramzan Kadyrov Mosque, Canvas Hotel, plus Sky Park and Holland Park fibrobeton façades.

What is your monthly production capacity?
About 100 t/month on one shift for an L-bracket mix; up to about 250 t/month on three shifts. Z-brackets and other geometries yield lower tonnage.

What is the maximum sheet thickness you can cut and bend?
14 mm steel on the guillotine shear and the 320 t press brake. Coil processing up to 8 mm thick × 250 mm wide.

What threading and drilling sizes can you do in-house?
Thread rolling 6–25 mm; tapping 6–18 mm; drilling up to Ø35 mm; flanged pins and nuts up to 10 mm on the double-blow header.

Do you weld?
Yes — MMA and MIG/MAG. Welding class, welder qualifications and standards (ISO 3834-2, EN 1090-2 EXC3, ASME) and NDT are verified per package.

Can you make non-standard or bespoke parts?
Yes. Drawing-led feasibility covers material, forming route, tolerances, inspection, prototypes and planning; items are made in-house or via clearly identified subcontract.

Do you have an affiliate?
Trion AKG Marble, Dubai — natural stone experience coordinated with the façade fixing systems.

Do you exhibit at trade fairs?
Yes — Marmomac, Verona, in 2025 and 2026 (Hall 7, Stand E9).

How do I contact Trion Metal?
info@trionmetal.com · +90 543 372 58 44 · +90 216 685 11 41 · www.trionmetal.com

Which markets do you serve?
Türkiye, Europe (Slovakia, Netherlands), the Gulf (UAE), Central Asia (Uzbekistan, Kazakhstan) and Chechnya.

What materials can you supply?
St 37 (S235JR) carbon steel, electro-galvanised or hot-dip galvanised; stainless AISI 304 (1.4301), AISI 316 (1.4401) and AISI 430 (1.4016).

What lead times can you offer?
Indicatively one to four weeks for manufacture, subject to package review.

What is the laser cutting capacity?
6 kW DXTECH fiber laser, 1550 × 3050 mm bed, ±0.03 mm positioning accuracy, 120 m/min max speed (acquired 2025).

What is the largest press you operate?
750 t Hidrometa hydraulic press (80 × 80 cm table), plus 60/80/110/160 t eccentric presses and a 320 t press brake.

Which certificates do you hold?
ISO 9001:2015 (IQR, cert. IQR.016/QMS.0066800, valid to 13 Oct 2027), Turkish trademark No. 2025 027000, and an ARTALIX certificate of conformity valid to 20 Aug 2029.

Do you provide installation?
Site erection and installation support can be assessed against agreed scope and HSE requirements.

How many dies / tooling sets do you have?
55 sets of Saymet metal dies (2021) for Z brackets, adjustable arms, profiles, drilling, cutting and pressing.

Do you work with universities or on R&D?
Yes — in 2026 we completed a concept development project with Nişantaşı University, Istanbul, and remain in contact for further work. We are also open to R&D and sustainability partnerships.

13 · CONTACTS

Let’s build together.

Façade fixing systems and custom metal components — made to your drawings in our own factory in Kocaeli.

HEADQUARTERS

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