



2026

PRODUCT CATALOGUE

Hightech Industry Group

Machinery | Materials & Tools | LED & Lighting Sources

For professional sign production.

THE 2026 COLLECTION

htindustryco.com

Contents

One collection. Three connected disciplines.

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01 / THE MACHINERY COLLECTION

Machinery

From forming letter returns to cutting,
welding and marking.

EXPLORE THE MACHINE CATEGORIES

43 products. Six categories. A complete production workflow.

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01.01 / MACHINE CATEGORY

Channel Letter Bending Machines

Form the returns. Define the letter.

FIND YOUR MODEL

Select by application and production requirement.

HTS1	Compact flat-aluminum production	05
HT1	N Series / aluminum strips and profiles	06
HT6	Versatile aluminum letter forming	07
HT3	Stainless steel and flat-metal letters	08
HT PRO	Mixed-material channel-letter production	09
HTZ5	Servo-controlled metal letter forming	10

HTS1

Channel Letter Bending Machine



COMPACT FLAT-ALUMINUM PRODUCTION

Up to 100 mm

Material height

0.3-0.8 mm

Material thickness

DXF / PLT

Input formats

A compact automatic bender for flat-aluminum letter returns. Automatic feeding, grooving and arc bending support trimless and resin-letter production in smaller workshops.

- Planer-cutter slotting
- Roller feed with double-rod linkage bending
- Minimum bending radius: 5 mm

MATERIALS

Flat aluminum strip.

PRODUCT DETAILS

Scan or click to explore



HT1

Channel Letter Bending Machine



N SERIES / ALUMINUM STRIPS AND PROFILES

20-130 mm

Material height

0.3-1.2 mm

Material thickness

AI / DXF / PLT

Input formats

An automated aluminum bender with software-controlled cutting-depth calibration. Roller feeding and double-rod linkage bending support everyday channel-letter fabrication.

- Milling-cutter slotting system
- Software-controlled cutting-depth calibration
- Minimum bending radius: 10 mm

MATERIALS

Letterume (LET-R-Edge), flat aluminum, single-edge strip and aluminum extrusion profiles.

PRODUCT DETAILS

Scan or click to explore



HT6

Channel Letter Bending Machine



VERSATILE ALUMINUM LETTER FORMING

20-180 mm

Material height

0.3-1.2 mm

Material thickness

AI / DXF / PLT

Input formats

Automatic feeding, slotting and bending for aluminum channel-letter production. Software-controlled cutting-depth calibration supports a practical, repeatable workflow.

- Roller feeding with double-rod linkage bending
- Milling-cutter slotting
- Automatic cutting-depth calibration by software

MATERIALS

Letterume, flat aluminum, extrusion profiles, Korean profiles and metal trim cap.

PRODUCT DETAILS

Scan or click to explore



HT3

Channel Letter Bending Machine



STAINLESS STEEL AND FLAT-METAL LETTERS

20–130 mm

Material height

0.3–1.2 mm

Material thickness

DXF

Input format

A channel-letter bender for stainless steel and flat-metal strips. Circulation-clamp feeding, planer-knife slotting and alternate-blade bending form a coordinated production workflow.

- Circulation-clamp feeding system
- Planer-knife slotting
- Automatic bending-rebound compensation

MATERIALS

Flat aluminum, galvanized strip, iron strip and stainless steel.

PRODUCT DETAILS

Scan or click to explore



HT PRO

Channel Letter Bending Machine



MIXED-MATERIAL CHANNEL-LETTER PRODUCTION

30–160 mm

Material height

0.3–1.2 mm

Material thickness

AI

Input format

A mixed-material machine combining milling-cutter and planer-knife cutting systems. It supports aluminum, galvanized strip and stainless-steel channel-letter workflows.

- Roller feeding device
- Milling-cutter and planer-knife slotting
- Double-rod linkage and alternate-blade bending

MATERIALS

Aluminum materials, galvanized strip and stainless steel.

PRODUCT DETAILS

Scan or click to explore



HTZ5

Channel Letter Bending Machine



SERVO-CONTROLLED METAL LETTER FORMING

10–220 mm

Material height

0.8–1.2 mm

Material thickness

AI

Input format

A servo-driven bender for metal channel-letter returns. Circulation-clamp feeding, planer slotting and alternate double blades coordinate the forming process.

- Circulation-clamp feeding system
- Servo-driven planer slotting
- Servo double-blade alternating bending

MATERIALS

Aluminum plate, galvanized sheet and stainless steel.

PRODUCT DETAILS

Scan or click to explore



01.02 / MACHINE CATEGORY

CNC Routers & Blade Cutters

Cut the sheet. Shape the idea.

FIND YOUR MODEL

Select by application and production requirement.

HT-R1 Q	Compact vacuum-table routing	12
HT-R3 E	Flexible sheet routing	13
HT-R3 Q	Vacuum hold-down for sheet work	14
HT-R5	Routing and blade cutting	15
HT-R6	Higher-power sheet routing	16
HT-RX6	Automatic tool-change workflow	17

HT-R1 Q

CNC Router & Engraving Machine



COMPACT VACUUM-TABLE ROUTING

2.2 kW

Spindle power

600 × 900 mm

Working area

Vacuum

Table / workflow

A CNC platform for cutting and engraving sheet materials used in signage, displays and interior fabrication. Water-cooled spindle operation supports a broad mix of routing tasks.

- 600 × 900 × 80 mm working envelope
- Automatic lubrication
- Floating tool-setting system

MATERIALS

PVC, MDF, ACP, aluminum, plywood, wood, acrylic and polycarbonate sheet.

PRODUCT DETAILS

Scan or click to explore



HT-R3 E

CNC Router & Engraving Machine



FLEXIBLE SHEET ROUTING

3.2 kW

Spindle power

1300 × 2500 mm

Working area

T-slot

Table / workflow

A CNC platform for cutting and engraving sheet materials used in signage, displays and interior fabrication. Water-cooled spindle operation supports a broad mix of routing tasks.

- Aluminum-alloy T-slot table
- 1500 × 3000 mm working-size option
- NV103A controller with wireless handwheel

MATERIALS

PVC, MDF, ACP, aluminum, plywood, wood, acrylic and polycarbonate sheet.

PRODUCT DETAILS

Scan or click to explore



HT-R3 Q

CNC Router & Engraving Machine



VACUUM HOLD-DOWN FOR SHEET WORK

3.2 kW

Spindle power

1300 × 2500 mm

Working area

Vacuum

Table / workflow

A CNC platform for cutting and engraving sheet materials used in signage, displays and interior fabrication. Water-cooled spindle operation supports a broad mix of routing tasks.

- Vacuum table with automatic tool setter
- 1500 × 3000 mm working-size option
- Integrated cabinet

MATERIALS

PVC, MDF, ACP, aluminum, plywood, wood, acrylic and polycarbonate sheet.

PRODUCT DETAILS

Scan or click to explore



HT-R5

CNC Router & Blade Cutter



ROUTING AND BLADE CUTTING

3.2 kW

Spindle power

1300 × 2500 mm

Working area

Router + blade

Table / workflow

A combined CNC router and vibration-blade cutter for rigid sheet and flexible display materials. Switch between spindle machining and blade work within one production platform.

- Water-cooled spindle and vibration blade
- Vacuum table
- 1500 × 3000 mm working-size option

MATERIALS

PVC, MDF, ACP, aluminum, plywood, wood, acrylic and polycarbonate sheet. Also light-box cloth, KT board, paper and self-adhesive media.

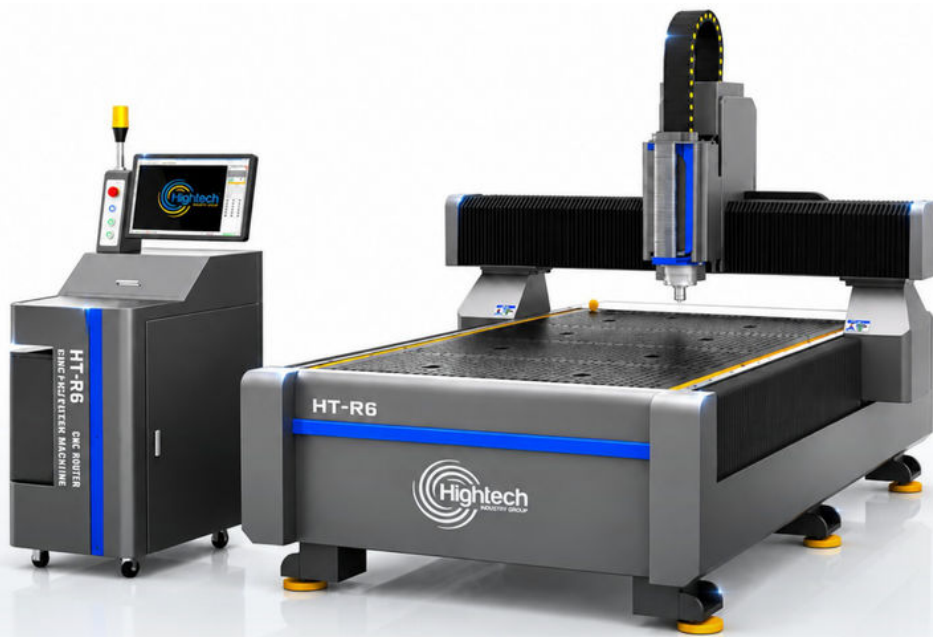
PRODUCT DETAILS

Scan or click to explore



HT-R6

CNC Router & Engraving Machine



HIGHER-POWER SHEET ROUTING

5.5 kW

Spindle power

1300 × 2500 mm

Working area

Vacuum

Table / workflow

A CNC platform for cutting and engraving sheet materials used in signage, displays and interior fabrication. Water-cooled spindle operation supports a broad mix of routing tasks.

- Water-cooled spindle
- 1500 × 3000 mm working-size option
- Vacuum table for material hold-down

MATERIALS

PVC, MDF, ACP, aluminum, plywood, wood, acrylic and polycarbonate sheet.

PRODUCT DETAILS

Scan or click to explore



HT-RX6

CNC Router & Engraving Machine



AUTOMATIC TOOL-CHANGE WORKFLOW

7.5 kW

Spindle power

1300 × 2500 mm

Working area

Auto change

Table / workflow

A CNC platform for cutting and engraving sheet materials used in signage, displays and interior fabrication. Water-cooled spindle operation supports a broad mix of routing tasks.

- Automatic tool change with tool magazine
- Vacuum table
- 1500 × 3000 mm working-size option

MATERIALS

PVC, MDF, ACP, aluminum, plywood, wood, acrylic and polycarbonate sheet.

PRODUCT DETAILS

Scan or click to explore



01.03 / MACHINE CATEGORY

CO2 Laser Cutting & Engraving

Bring detail to every surface.

FIND YOUR MODEL

Select by application and production requirement.

HT-CO2 6040	Precision cutting and engraving	19
HT-CO2 7050	Precision cutting and engraving	20
HT-CO2 1390	Precision cutting and engraving	21
HT-CO2 1325 / 1530	Two sheet formats. One CO2 platform.	22

HT-CO2 6040

CO2 Laser Cutting & Engraving Machine



PRECISION CUTTING AND ENGRAVING

600 × 400 mm

Working area

40–100 W

Available laser-power options

CO2 laser

Technology

A CO2 laser platform for cutting and engraving non-metal materials. Choose the working size and laser-tube configuration to suit the material and production format.

- Yongli CO2 laser-tube options
- Water-chiller cooling
- PLT / DXF / AI / BMP / RLD file support

MATERIALS

Acrylic, wood, MDF, leather, cloth and cardboard.

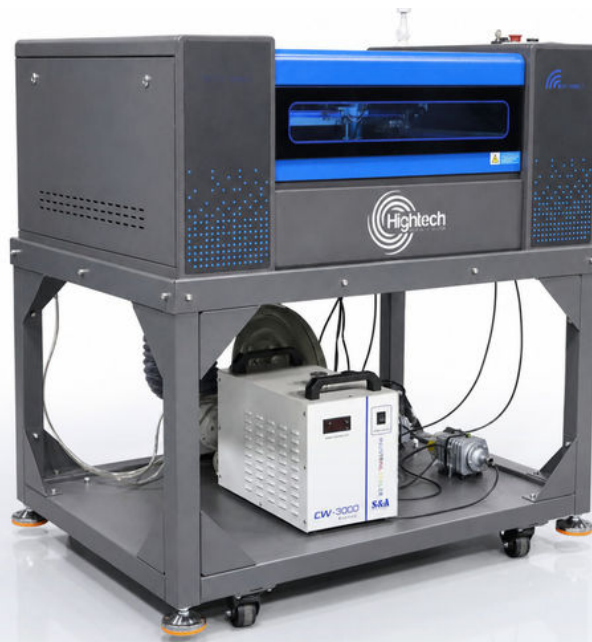
PRODUCT DETAILS

Scan or click to explore



HT-CO2 7050

CO2 Laser Cutting & Engraving Machine



PRECISION CUTTING AND ENGRAVING

700 × 500 mm

Working area

60–100 W

Available laser-power options

CO2 laser

Technology

A CO2 laser platform for cutting and engraving non-metal materials. Choose the working size and laser-tube configuration to suit the material and production format.

- Ruida control system
- CW3000 cooling system
- BMP / DXF graphic-file support

MATERIALS

Acrylic, wood, MDF, leather, cloth and cardboard.

PRODUCT DETAILS

Scan or click to explore



HT-CO2 1390

CO2 Laser Cutting & Engraving Machine



PRECISION CUTTING AND ENGRAVING

1300 × 900 mm

Working area

60–300 W

Available laser-power options

CO2 laser

Technology

A CO2 laser platform for cutting and engraving non-metal materials. Choose the working size and laser-tube configuration to suit the material and production format.

- Ruida control system with CW5200 cooling
- Blade or honeycomb table
- Autofocus and lifting-table options

MATERIALS

Acrylic, wood, MDF, leather, cloth and cardboard.

PRODUCT DETAILS

Scan or click to explore



HT-CO2 1325 / 1530

CO2 Laser Cutting & Engraving Machine



HT-CO2 1325 shown

TWO SHEET FORMATS. ONE CO2 PLATFORM.



60–300 W

Available laser-power options

Yongli

CO2 laser source

2 formats

Working areas below

Water-cooled CO2 cutting and engraving in two sheet formats. Laser options: 60, 80, 100, 120, 130, 150, 180 and 300 W. The 1325 has Ruida control, CW5200 cooling and a blade or honeycomb table.

MATERIALS

Acrylic, wood, MDF, leather, cloth and cardboard.

MODEL	LASER POWER	WORKING AREA
HT-CO2 1325	60–300 W	1300 × 2500 mm
HT-CO2 1530	60–300 W	1500 × 3000 mm

01.04 / MACHINE CATEGORY

Fiber Laser Cutting Machines

Precision for metal production.

FIND YOUR MODEL

Select by application and production requirement.

HT-FC 1325 / 1530 / 2040	Three sheet formats. One fiber-cutting family.	24
HT-FC2040 ET	Exchange-table production	25
HT-3015 ST	Sheet and tube in one platform	26
HT-4015H	Large-format precision metal cutting	27

HT-FC 1325 / 1530 / 2040

Fiber Laser Cutting Machine



HT-FC1530 shown

THREE SHEET FORMATS. ONE FIBER-CUTTING FAMILY.



1.5 / 2 / 3 / 6 kW

Available laser-power options

Raycus

Fiber laser source

Cypcut

Control system

Water-cooled fiber laser cutting for metal-sheet production in three working sizes. Raycus source options and Cypcut control support each format. The HT-FC1530 Q Series uses a BLT421 cutting head.

MATERIALS

Stainless steel, carbon steel, aluminum, copper and brass. Suitability depends on the selected configuration.

MODEL	LASER POWER	WORKING AREA
HT-FC1325	1.5–6 kW	1300 × 2500 mm
HT-FC1530	1.5–6 kW	3000 × 1500 mm
HT-FC2040	1.5–6 kW	2000 × 4000 mm

HT-FC2040 ET

Fiber Laser Cutting Machine



EXCHANGE-TABLE PRODUCTION

2000 × 4000 mm

Working area

1.5–6 kW

Available laser-power options

Cypcut

Control system

A fiber laser cutting platform for metal-sheet fabrication. Raycus laser-source options and a dedicated cutting control system support configuration around material and output requirements.

- Raycus fiber laser source
- Water-cooled laser system
- Exchange-table layout

MATERIALS

Stainless steel, carbon steel, aluminum, copper and brass. Suitability depends on the selected configuration.

PRODUCT DETAILS

Scan or click to explore



HT-3015 ST

Sheet & Tube Fiber Laser Cutting Machine



SHEET AND TUBE IN ONE PLATFORM

Sheet + tube

Processing formats

1.5–12 kW

Listed laser-power options

±0.03 mm

Positioning accuracy

A fiber laser platform combining sheet-metal and tube cutting. Servo-controlled motion and water-cooled operation support metal-fabrication workflows across a choice of laser-power configurations.

- Sheet-metal and tube processing
- Water-cooled fiber laser system
- 1.5, 3, 6 and 12 kW options listed

MATERIALS

Stainless steel, aluminum, copper, brass, carbon steel and galvanized sheet.

PRODUCT DETAILS

Scan or click to explore



HT-4015H

Fiber Laser Cutting Machine



LARGE-FORMAT PRECISION METAL CUTTING

4000 × 1500 mm

Working area

6–30 kW

Available laser-power range

±0.03 mm

Positioning accuracy

An enclosed fiber laser platform for metal-sheet production, with a 4000 × 1500 mm working area and laser powers from 6 to 30 kW. Configure the laser source, cutting head and control system to match the selected power.

- Enclosed metal-sheet cutting platform
- Servo-driven axes and automatic lubrication
- Laser-power configurations from 6 to 30 kW

MATERIALS

Metal sheet; confirm the material and thickness with the selected configuration.

PRODUCT DETAILS

Scan or click to explore



01.05 / MACHINE CATEGORY

Laser Welding Machines

Join the details. Complete the form.

FIND YOUR MODEL

Select by application and production requirement.

HT-FW Series	Welding, cutting and cleaning	29
HT-FWT Series	Table welding for metal letters	30
HT-QCW750 Series	Pulsed welding for metal letters	31
HT-QCW Mini	Compact laser welding	32
HT-YAG Series	300 W and 500 W model options	33
HT-JW Series	Desktop and cabinet configurations	34
Nitrogen System	On-site nitrogen supply	35

HT-FW Series

4-in-1 Fiber Laser Welding Machine



HT-FW1500 shown

WELDING, CUTTING AND CLEANING

1500 / 2000 / 3000 W 4 in 1

Available laser powers

Functions

Water-cooled

Cooling method

One handheld platform for welding, cutting, surface cleaning and weld-seam cleaning. MAX laser sources, wire feeding and water cooling support three power configurations.

MATERIALS

Stainless steel, carbon steel and aluminum; copper and brass with the appropriate process setup.

MODEL	LASER POWER	ELECTRICAL SUPPLY
HT-FW1500	1500 W	Single-phase 220 V
HT-FW2000	2000 W	Single-phase 220 V
HT-FW3000	3000 W	Three-phase 380 V

HT-FWT Series

Fiber Laser Table Welding Machine



1500 W configuration shown

TABLE WELDING FOR METAL LETTERS



1500 / 2000 W

Available laser powers

1070 nm

Laser wavelength

9 spot modes

Beam-shape selection

A fiber laser table-welding system for fabricated metal letters. The folding-wing workstation and CCD positioning support access to corners, seams and detailed assemblies.

MATERIALS

Stainless steel, galvanized sheet and aluminum.

CONFIGURATION	LASER POWER	WORKSTATION
HT-FWT 1500	1500 W	Folding-wing table
HT-FWT 2000	2000 W	Folding-wing table

HT-QCW750 Series

QCW Laser Welding Machines



HT-QCW750 shown



PULSED WELDING FOR METAL LETTERS

750 W

Laser power

1080 nm

Laser wavelength

QCW

Laser operation

A QCW welding family for localized metal joining. The standard and Y models offer different pulse and fiber-delivery configurations; select the model for the production setup.

MATERIALS

Stainless steel and galvanized sheet.

MODEL	LASER POWER	CONFIGURATION
HT-QCW750	750 W	2 kW peak / 8 m fiber
HT-QCW750Y	750 W	30 J pulse / 5–8 m fiber

HT-QCW Mini

Mini QCW Laser Welding Machine



COMPACT LASER WELDING

300 W

Laser power

13 kg

Machine weight

Air-cooled

Cooling method

A compact QCW laser welding unit with an air-cooled design. The 3 m output fiber and compact enclosure suit workspaces that need a smaller welding footprint.

- 1080 nm laser wavelength
- Maximum pulse energy: 6 J
- Single-phase AC 220 V supply

MATERIALS

Thin-metal welding applications; verify the process for the chosen material.

PRODUCT DETAILS

Scan or click to explore



HT-YAG Series

YAG Laser Welding Machines



YG model shown

300 W AND 500 W MODEL OPTIONS



300 / 500 W

Available laser powers

1064 nm

Laser wavelength

Water-cooled

Cooling method

Pulsed YAG welding for stainless-steel and galvanized-sheet fabrication. MG and YG versions are available in two power levels, with a workstation configuration to suit the joining task.

MATERIALS

Stainless steel and galvanized sheet.

MODELS	LASER POWER	ELECTRICAL SUPPLY
HT-300W YG / HT-300W MG	300 W	Single-phase 220 V
HT-500W YG / HT-500W MG	500 W	Three-phase 380 V

HT-JW Series

Jewellery Laser Welding Machines



MD desktop model shown

DESKTOP AND CABINET CONFIGURATIONS

100 / 200 / 300 W

Available laser powers

1064 nm

Laser wavelength

MD / CB

Desktop / cabinet



Precision laser welding for jewellery and metal accessories. MD desktop and CB cabinet formats provide adjustable pulse and spot settings for detailed joining and repair.

MATERIALS

Jewellery and metal accessories.

MODEL	LASER POWER	FORMAT / SPOT SIZE
HT-JW MD100	100 W	Desktop / 0.1–3 mm spot
HT-JW MD200	200 W	Desktop / 0.1–3 mm spot
HT-JW CB200	200 W	Cabinet / 0.3–3 mm spot
HT-JW CB300	300 W	Cabinet / 0.3–3 mm spot

Nitrogen System

Nitrogen Generation System



ON-SITE NITROGEN SUPPLY

60 Nm³/h

Nitrogen flow

≥99.99%

Nitrogen purity

≤-40 °C

Nitrogen dew point

An on-site nitrogen generation system for production facilities requiring a dedicated nitrogen supply. Specified gas purity, dew point and filtration support evaluation against the application demand.

- Nitrogen dust particle size: ≤0.01 μm
- Nitrogen oil content: ≤0.003 ppm
- On-site gas-generation system

APPLICATIONS

Production gas supply. Confirm flow, pressure and purity against the connected equipment.

PRODUCT DETAILS

Scan or click to explore



01.06 / MACHINE CATEGORY

Laser Marking Machines

Make a lasting impression.

FIND YOUR MODEL

Select by application and production requirement.

Fiber Marking	Permanent marking for metal parts	37
MOPA Marking	Pulse control for detailed marking	38
UV Marking	Fine marking for sensitive surfaces	39
CO2 Marking	Marking for non-metal surfaces	40

Fiber Marking

Fiber Laser Marking Machine



PERMANENT MARKING FOR METAL PARTS

20–100 W

Available laser-power options

100–300 mm

Square marking fields*

Fiber laser

Laser technology

A dedicated laser marking platform for product identification, lettering and graphics. Choose the laser source and lens to match the substrate, mark size and finish. *Marking field depends on the selected lens.

- EZCAD control software
- Optional rotary attachment
- PLT / DXF / PCX / BMP file support

MATERIALS

Metal components, tools and identification plates.

PRODUCT DETAILS

Scan or click to explore



MOPA Marking

MOPA Laser Marking Machine



PULSE CONTROL FOR DETAILED MARKING

20–100 W

Available laser-power options

100–300 mm

Square marking fields*

MOPA laser

Laser technology

A dedicated laser marking platform for product identification, lettering and graphics. Choose the laser source and lens to match the substrate, mark size and finish. *Marking field depends on the selected lens.

- 1064 nm laser wavelength
- 2–500 ns pulse-duration range
- EZCAD control software

MATERIALS

Metal parts and compatible engineered materials.

PRODUCT DETAILS

Scan or click to explore



UV Marking

UV Laser Marking Machine



FINE MARKING FOR SENSITIVE SURFACES

3–20 W

Available laser-power options

100–300 mm

Square marking fields*

355 nm UV

Laser technology

A dedicated laser marking platform for product identification, lettering and graphics. Choose the laser source and lens to match the substrate, mark size and finish. *Marking field depends on the selected lens.

- 3, 5, 10, 15 and 20 W options
- EZCAD control software
- Optional rotary attachment

MATERIALS

Compatible plastics, glass and electronic components.

PRODUCT DETAILS

Scan or click to explore



CO2 Marking

CO2 Laser Marking Machine



MARKING FOR NON-METAL SURFACES

40 / 60 W

Available laser-power options

100–300 mm

Square marking fields*

CO2 laser

Laser technology

A dedicated laser marking platform for product identification, lettering and graphics. Choose the laser source and lens to match the substrate, mark size and finish. *Marking field depends on the selected lens.

- 40 W and 60 W configurations
- EZCAD control software
- Optional rotary attachment

MATERIALS

Wood, acrylic, leather, cardboard and compatible non-metal materials.

PRODUCT DETAILS

Scan or click to explore



02 / THE MATERIALS & TOOLS COLLECTION

Materials & Tools

From letter returns and sheet stock
to the tools that complete the sign.

EXPLORE THE COLLECTION

Materials, tools and accessories for the signage workflow.

02.01	Channel Letter Materials	42
02.02	Substrates & Sheets	51
02.03	Tools & Accessories	58

02.01 / PRODUCT CATEGORY

Channel Letter Materials

Build the shape. Choose the finish.

FIND YOUR PRODUCT

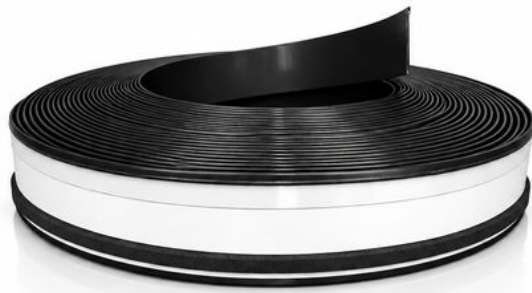
Select by material, format and application.

Letterume & 3D ABS	43	Stainless Steel Coils	47
Flat Aluminum Coils	44	Extrusion Profiles	48
Single Edge Coils	45	Return & Trim Profiles	49
Hand-Use Channel Letter Strips	46	Aluminum Plastic Trim Caps	50

Letterume & 3D ABS

Coils & strips for illuminated letters

Letterume | Plain & Side Light



Width	50 / 70 / 90 / 110 mm
Plain thickness	0.4 / 0.5 mm
Side-light thickness	0.7 / 0.8 mm
Roll length	50 m
Alloy	1050 / 1060 / 3003
Finishes	Glossy / matte / brushed / mirror

PRODUCT DETAILS

3D High-Polymer ABS Strips



Width	50 / 60 / 70 / 80 mm
Thickness	1 mm
Roll length	100 m
Colours	White / red / blue / yellow / green
Light styles	Side white / side black / bottom-side / total light transmission

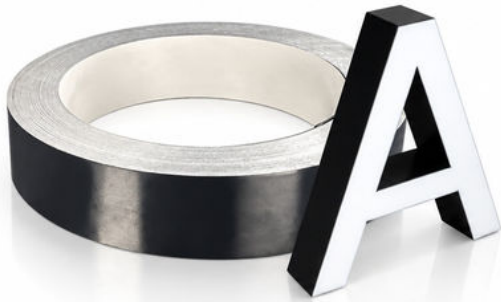
PRODUCT DETAILS

Letterume side-light patterns: Daisy, Stars, Bricks, Mesh, Galaxy, Lucky, Versace, Diamond and Sunny.

Flat Aluminum Coils

Plain returns & patterned side-light options

Plain Aluminum Coils



Width	30 / 40 / 50 / 60 / 70 / 80 / 90 / 100 / 135 mm
Thickness	0.6-1.5 mm
Roll length	50 m / 100 m / 270 ft (approx. 82.3 m)
Alloy	1050 / 1060 / 3003

PLAIN ALUMINUM COILS FLAT ALUMINUM COIL

Side-Light Aluminum Coils



Width	60 / 80 mm
Thickness	0.6 mm
Roll length	50 m / 100 m / 270 ft (approx. 82.3 m)
Alloy	1050 / 1060 / 3003

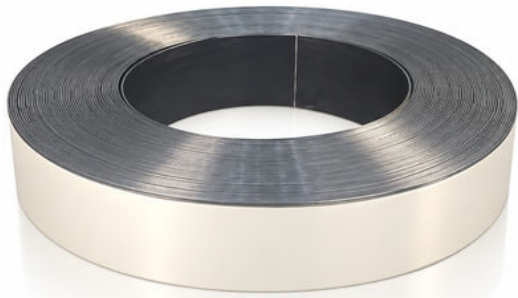
PRODUCT DETAILS

Finish options: glossy, matte, brushed and mirror. Side-light patterns are available in the collection.

Single Edge Coils

Plain & side-light aluminum returns

Plain Single Edge



Width	60 / 80 mm
Thickness	0.6 mm
Roll length	50 m
Alloy	1050 / 1060 / 3003

PRODUCT DETAILS

Side-Light Single Edge



Width	60 / 80 mm
Thickness	0.6 mm
Roll length	50 m
Patterns	Daisy / Stars / Bricks / Mesh / Galaxy / Lucky / Versace / Diamond / Sunny

SIDE-LIGHT SINGLE EDGE SINGLE EDGE ALUMINUM

Glossy, matte, brushed and mirror finish options for plain and side-light letter designs.

Hand-Use Channel Letter Strips

Aluminum & steel / manual letter forming

Aluminum | Plain & Side Light



Width	60 / 80 mm
Thickness	0.33 mm
Roll length	33.4 m
Finish	Glossy / matte / brushed / mirror
Side-light patterns	Stars / Bricks / Mesh / Galaxy / Lucky

ALUMINUM | PLAIN & SIDE LIGHT SIDE-LIGHT HAND-USE

Steel Hand-Use Coils



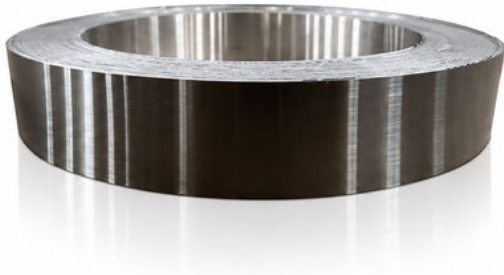
Width	60 / 80 mm
Thickness	0.33 mm
Roll length	33.4 / 35 / 50 m
Finishes	Glossy / matte / brushed / mirror
Colours	Standard colour range

PRODUCT DETAILS

Stainless Steel Coils

201 & 304 series

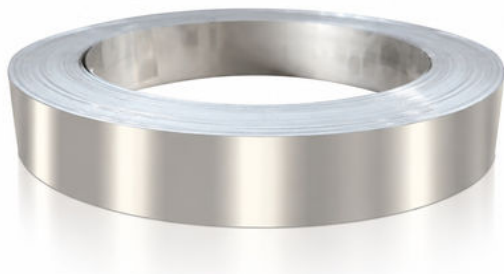
201 Series



Alloy	201 stainless steel
Width	30 / 40 / 50 / 60 / 70 / 80 / 90 / 100 mm
Thickness	0.5 mm
Roll length	100 m

PRODUCT DETAILS

304 Series



Alloy	304 stainless steel
Width	30 / 40 / 50 / 60 / 70 / 80 / 90 / 100 mm
Thickness	0.5 mm
Roll length	100 m

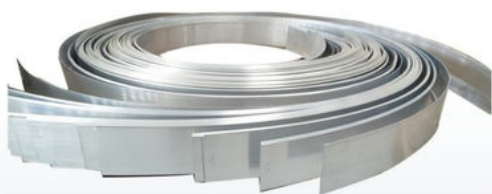
PRODUCT DETAILS

Brushed and mirror finishes. Colour options include gold, silver, rose gold and black.

Extrusion Profiles

Arrow & trimless profiles

Arrow Profile



Width	80 mm
Thickness	0.8 mm
Length	6 / 12 m
Colours	Black / white / mill finish

PRODUCT DETAILS



Trimless Profile



Width	50 / 60 / 100 mm
Thickness	0.8 mm
Length	6 / 12 m
Colours	Black / white / mill finish

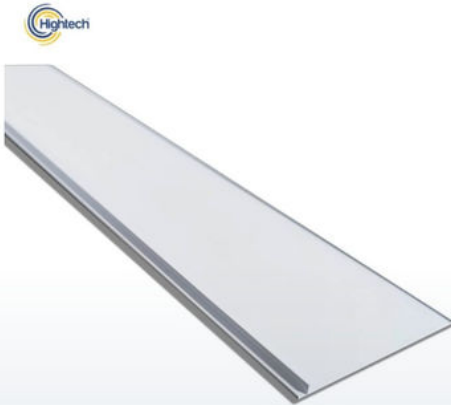
PRODUCT DETAILS



Return & Trim Profiles

Return bars & trim-cap profiles

Return Bar Profile



Width	80 mm
Thickness	0.8 mm
Length	3-30 m
Colours	Black / white / mill finish

PRODUCT DETAILS



Trim Cap Profile



Width	25 mm
Thickness	0.8 mm
Length	3-30 m
Colours	Black / white / mill finish

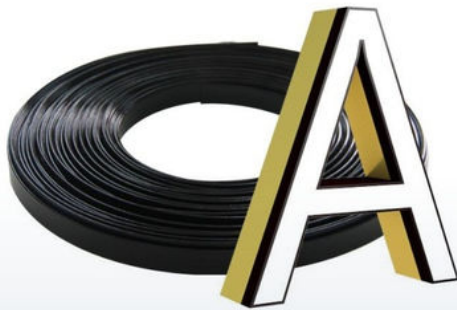
PRODUCT DETAILS



Aluminum Plastic Trim Caps

Arrow & J-type edge finishing

Arrow Type



Width	26 mm
Roll length	35 m
Colours	Black / white / red / yellow / blue / green / silver

PRODUCT DETAILS



J Type



Width	20 / 26 mm
Roll length	40 m
Colours	Black / white / red / yellow / blue / green / silver

PRODUCT DETAILS



02.02 / PRODUCT CATEGORY

Substrates & Sheets

The foundation of every sign.

FIND YOUR PRODUCT

Select by material, format and application.

Aluminum Composite Panel	52
Aluminum Sheets	53
Stainless Steel Sheets	54
Acrylic Sheets	55
PVC Foam Board	56
Polycarbonate Sheets	57

Aluminum Composite Panel

ACP sheets for signage & fabrication



Composite panels with a choice of thickness, dimensions and coating. Specify the panel construction and finish for the intended sign application.

Panel thickness	2 / 3 / 4 / 5 / 6 mm
Aluminum skin	0.1-0.5 mm
Width	1000 / 1220 / 1250 / 1500 / 1570 mm
Length	2440-6000 mm
Coating options	PE / PVDF / FEVE
Colours	Matte white / gloss white / matte black / gloss black

PRODUCT DETAILS



Aluminum Sheets

3003 & 5052 alloy options



Flat aluminum sheet for fabrication, with a range of panel sizes and a protective film for handling.

Alloy	3003 / 5052
Thickness	0.5-2 mm
Width	1000 / 1220 / 1250 / 1500 / 1570 mm
Length	2440-6000 mm
Finish	Mill finish
Protection	PE protection film

PRODUCT DETAILS



Stainless Steel Sheets

201 & 304 sheet selection



Stainless sheet options for cut letters, fabricated details and decorative surfaces. Select the alloy, size and finish together.

Alloy	201 / 304
Thickness	0.1-20 mm
Width	10-2000 mm
Length	100-12000 mm
Finishes	2B / 2D / BA / No.1 / No.4 / No.8 / 8K / mirror / checkered / embossed / hairline / sandblast / brushed

PRODUCT DETAILS



Acrylic Sheets

Clear, coloured & opal sheet options



Acrylic sheets in multiple thicknesses, colours and formats for sign faces, displays and fabricated components.

Thickness	1.8 / 2 / 3 / 4 / 5 / 8 / 10 / 15 / 20 / 30 / 50 / 60 mm
Sheet sizes	1050 x 2050 / 1220 x 1830 / 1220 x 2440 / 1220 x 3050 / 1270 x 2490 / 1350 x 2000 / 1440 x 2940 / 1610 x 2550 / 1850 x 2450 / 2050 x 3050 mm
Colours	Clear / white / opal / black / red / green / blue / yellow; OEM colours
Applications	Advertising / furniture / printing / construction

PRODUCT DETAILS



PVC Foam Board

Lightweight board for signs & displays



PVC foam board for printed signs, display components and general fabrication. Select the required thickness, density and sheet size.

Thickness	1-35 mm
Density	0.35-1.0 g/cm ³
Sizes	915 x 1830 / 1220 x 2440 / 1560 x 3050 / 2050 x 3050 mm
Colours	White / red / yellow / blue / green / black
Applications	Advertising / furniture / printing / construction

PRODUCT DETAILS



Polycarbonate Sheets

Sheet formats for signs & architectural details



Polycarbonate sheets with a broad choice of thicknesses and colours for fabrication and display applications.

Thickness	0.5-100 mm
Sizes	1220 x 1880 / 1220 x 2440 / 1500 x 3000 / 2050 x 3050 mm
Colours	Clear / green / blue / red / white / black / grey
Applications	Light boxes / billboards / furniture / partitions / cabinet doors

PRODUCT DETAILS



02.03 / PRODUCT CATEGORY

Tools & Accessories

Prepare. Assemble. Finish.

FIND YOUR PRODUCT

Select by material, format and application.

CNC Routing Bits	59	Holding Magnets	65
Detail & V-Cut Bits	60	AB & C Adhesives	66
Bending Pliers	61	Sealants	67
Cutting & Notching Tools	62	ABM Acrylic Bending	68
Punching & Lamp Tools	63	Manual Acrylic Benders	69
Fastening Tools	64		

CNC Routing Bits

Up-cut, down-cut & compression options

Up-Cut Bits



Shank diameter	3.175-8 mm
Cutting diameter	1-8 mm
Cutting / total length	3-62 mm / 38-100 mm

PRODUCT DETAILS

Down-Cut Bits



Shank / cutting diameter	3-10 mm
Cutting length	8-42 mm
Total length	38-85 mm

PRODUCT DETAILS

Compression Bits



Cutting diameter	3.175-12 mm
Cutting length	8-150 mm
Total length	38-200 mm

PRODUCT DETAILS

Detail & V-Cut Bits

Fine lettering & V-groove tooling

Mini Letter Bits



Cutting diameter	1 / 1.5 mm
Cutting length	20 / 23 / 24 / 32 mm
Total length	60 / 80 mm
Angles	28 / 30 degrees

PRODUCT DETAILS

V-Cut Bits



Shank diameter	6 mm
Cutting diameter	22 / 32 mm
Angles	60 / 90 / 120 / 150 degrees
Cutting lengths	8.5 / 10 / 11.5 / 13.5 / 15 / 20.5 / 25 / 34.5 mm

PRODUCT DETAILS

Bending Pliers

Hand tools for channel-letter forming

Long-Nose Bending Pliers



Material	45# steel
Shapes	Flat mouth / right angle
Use	Channel-letter forming

PRODUCT DETAILS

90-Degree Nose Bending Pliers



Application	Channel letters
Material to form	Stainless steel

PRODUCT DETAILS

Flat Metal Bender



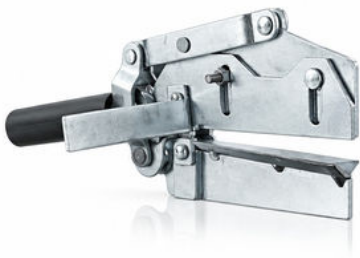
Bending angle	88-178 degrees
Bending height	10-80 mm
Thickness limits	Stainless steel 0.5 mm / galvanized sheet 0.6 mm / aluminum 0.7 mm

PRODUCT DETAILS

Cutting & Notching Tools

Shape, trim & prepare the return

Flat Metal & Hand-Use Bender



Materials	Aluminum tape / galvanized sheet / stainless steel / metal tapes
Use	Manual forming

PRODUCT DETAILS

Aviation Shears



Use	Cutting metal sheet
Materials listed	Aluminum alloy / iron / stainless steel

PRODUCT DETAILS

Trim Cap Notcher Pliers



Use	Notching trim caps
Application	Channel-letter fabrication

PRODUCT DETAILS

Punching & Lamp Tools

Punching, drainage & exposed-LED installation

Hole Punch Pliers



Tool construction	Chromium-vanadium alloy steel
Use	Punching holes for fabrication

PRODUCT DETAILS

Lamp Insertion Plier



Length	7.08 in (approx. 180 mm)
Use	Installing exposed LED lamps
Applications	Perforated and exposed-lamp characters

PRODUCT DETAILS

Water Dripping Plier



Use	Channel-letter drainage holes with reduced light leakage
Sheet limits	Galvanized <0.8 mm / stainless steel <0.4 mm / aluminum <1.0 mm

Fastening Tools

Riveting, pneumatic fastening & nails

Rivet Gun



Use	Riveting metal and sign assemblies
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PRODUCT DETAILS

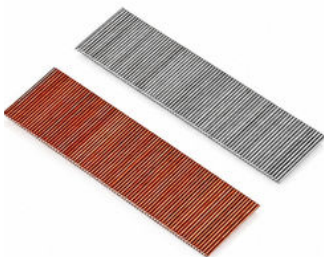
HT-625B Nailing Kit



Gauge	23
Air pressure	60-120 psi
Magazine capacity	100 pieces

PRODUCT DETAILS

Brad Nails



Use	Fastening for fabrication and woodworking
Selection	Match the nail type and size to the tool

PRODUCT DETAILS

Holding Magnets

Position components during fabrication

Pull Ring Magnets



Use	Positioning during channel-letter fabrication
Handling	Pull-ring design

PRODUCT DETAILS

Triangle Magnets



Use	Positioning during channel-letter fabrication
Form	Triangle holding design

PRODUCT DETAILS

Cylinder Magnets



Use	Magnetic holding
Finish	Multi-layer plated protection

PRODUCT DETAILS

Select the magnet form and size for the part being held. Confirm the required holding force for the application.

AB & C Adhesives

Adhesive systems for sign fabrication

AB Glue | 200 ml New Formula



Components	200 ml adhesive A + 200 ml accelerator B
System	Instant adhesive and bonding accelerator
Materials listed	Acrylic / polycarbonate / PVC / trim cap / aluminum / wood / MDF / glass / ceramics / stone

PRODUCT DETAILS

AB Glue | 500 ml



Components	500 ml adhesive A + 500 ml accelerator B
Use	Bonding for industrial and sign applications

PRODUCT DETAILS

C Glue



Use	Industrial and signage bonding
-----	--------------------------------

PRODUCT DETAILS

Select the adhesive for the substrate and joint. Follow the product instructions for surface preparation and application.

Sealants

Assembly & finishing products

Neutral Sealant



Use	Sealing for construction and signage
Type	Neutral sealant

PRODUCT DETAILS

Crystal Sealant



Use	Clear sealing for construction and signage
Finish	Clear

PRODUCT DETAILS

Fix All Sealant



Product	Fix All sealant
Selection	Confirm suitability for the intended substrate

PRODUCT DETAILS

ABM Acrylic Bending

ABM-700 & ABM-1300 thermoforming

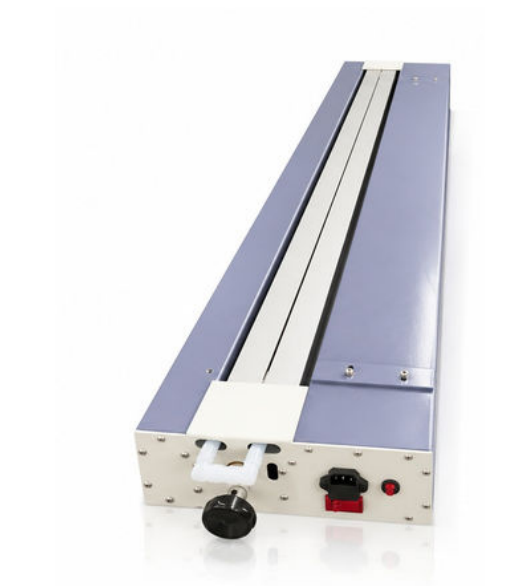
ABM-700



Bending width	Up to 700 mm
Power	1500 W
Sheet thickness	1-10 mm
Supply	Single-phase AC 100-240 V

PRODUCT DETAILS

ABM-1300



Bending width	Up to 1300 mm
Power	2000 W
Sheet thickness	1-10 mm
Supply	Single-phase AC 100-240 V

PRODUCT DETAILS

Shared specifications: 0-600 degrees C temperature range; heating slot up to 20 mm; 35 W water pump. Adjustable heating with circulating-water cooling.

Manual Acrylic Benders

A, U & F types / handheld thermal forming

A Type Bender



Power / supply 39 W / 110-240 V

Temperature 200°C ±5%

Size listed 100 × 25 × 2 mm

U Type Bender



Power / supply 60 W / 110-240 V

Temperature 200°C ±5%

Size listed 100 × 25 × 2 mm

F Type Bender



Power / supply 150 W / 220 V

Bend width 100 mm

Sheet thickness 2-4 mm

Choose the tool for the material, bend and supply voltage.

03 / THE LED & LIGHTING COLLECTION

LED & Lighting Sources

From the first light source
to the power behind the sign.

EXPLORE THE COLLECTION

27 product listings. Three lighting categories.

03.01	LED Modules & Bars	71
03.02	LED Strips & Neon	75
03.03	Power Supplies	80

03.01 / PRODUCT CATEGORY

LED Modules & Bars

Bring clarity to every letter.

FIND YOUR PRODUCT

Select by format, light source and power rating.

HT-6414

Injection LED modules

72

HT-8218

Wide-angle LED modules

73

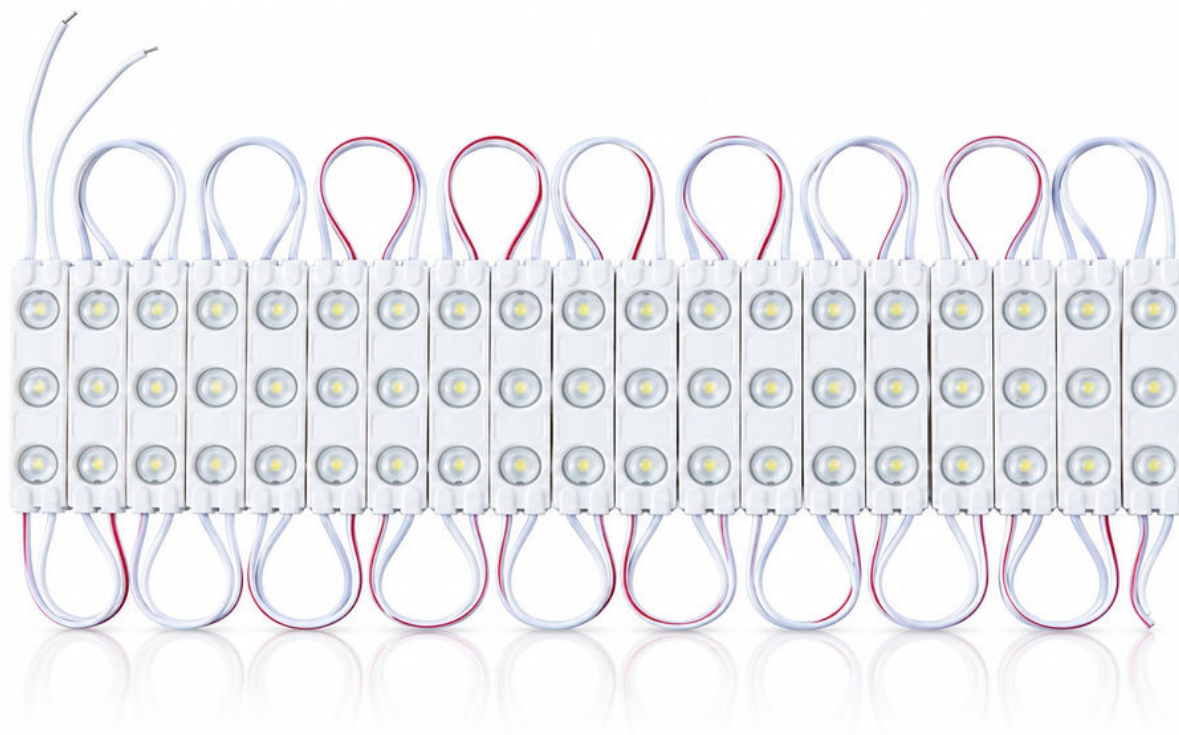
LED Bar

Aluminum lens bar / 95 cm

74

HT-6414

Injection LED modules



Compact three-lens modules for illuminated channel letters and sign assemblies.

Input / power DC 12 V / 1.5 W

Luminous output 180 lm

LED source Epistar 2835

Housing Pure ABS

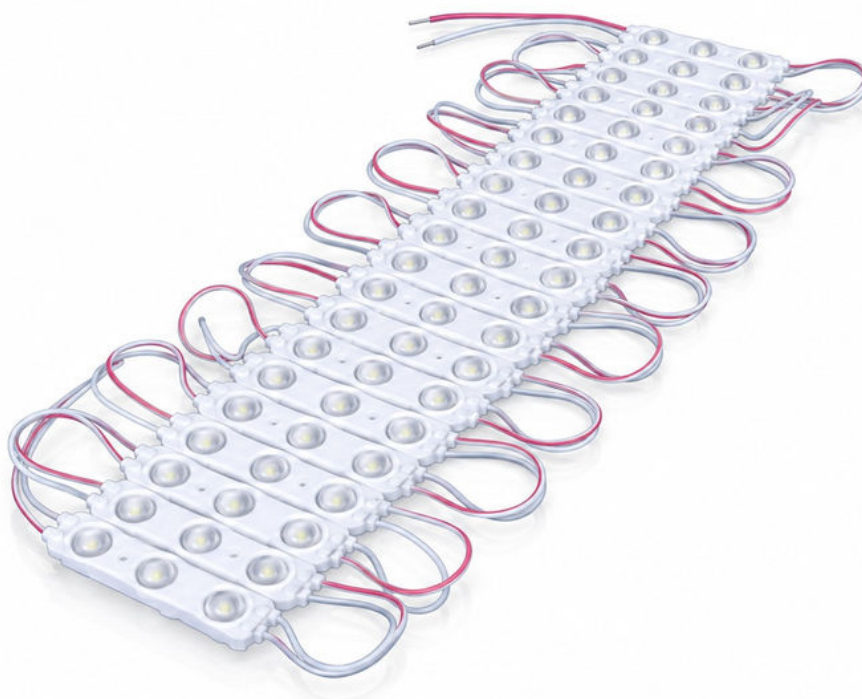
Color options White, warm white, cool white, red, green, blue, orange, pink and purple

PRODUCT DETAILS



HT-8218

Wide-angle LED modules



Wide-angle three-lens modules for even illumination across letter faces and light boxes.

Input / power DC 12 V / 1.5 W

Luminous output 200–220 lm

Beam angle / CRI 170° / Ra >80

LED source Epistar 2835

Housing Pure ABS

PRODUCT DETAILS



LED Bar

Aluminum lens bar / 95 cm



Rigid aluminum LED bars with individual optical lenses for light-box illumination.

Input	DC 12 V
Bar / PCB size	950 × 15 × 1 mm
Optics	170° PMMA lenses / Ø14.5 mm
LED source	SMD 2838
Color temperature	3000 K or 11000 K
Application	Indoor lighting / IP20

Detail view shown. Supplied bar length: 95 cm.

PRODUCT DETAILS

ALTERNATE LISTING



03.02 / PRODUCT CATEGORY

LED Strips & Neon

Shape the light. Define the sign.

FIND YOUR PRODUCT

Select by format, light source and power rating.

S-Type LED Strips

Flexible lighting for shaped lettering

76

Hexagon LED Strips

Flexible strip lighting

77

LED Neon / 5 m

Flexible neon for signs and accents

78

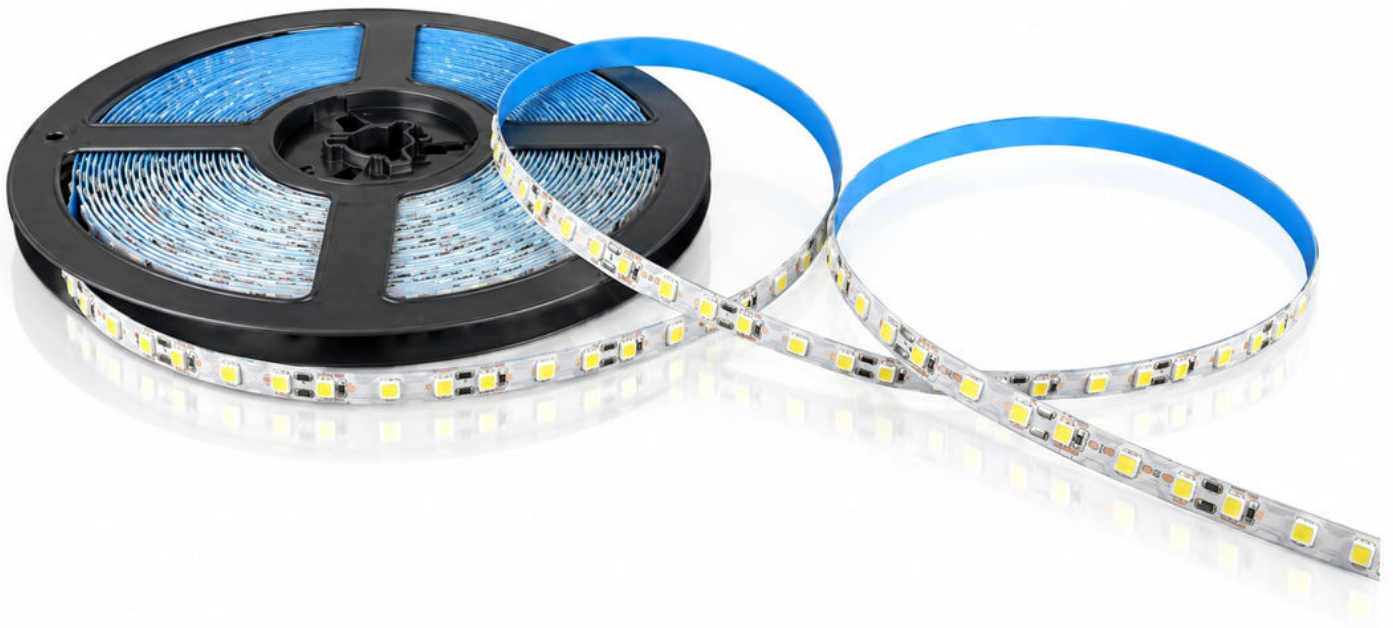
LED Neon / 50 m

Bulk-roll flexible neon

79

S-Type LED Strips

Flexible lighting for shaped lettering



Flexible LED strips for routing light around letter forms and curved sign details.

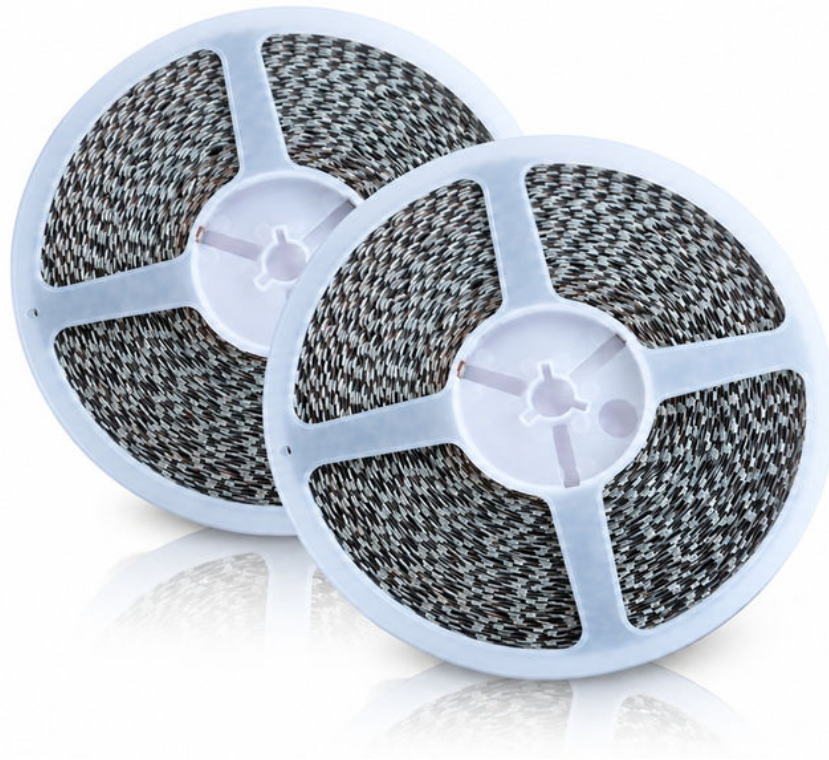
Input	DC 12 V
Power options	7 W/m or 10 W/m
PCB width	7 mm
Protection / CRI	IP65 / >90
Color temperature	3000 / 4000 / 6000 / 10000 / 14000 K
Color options	Red, green, blue, yellow and purple

PRODUCT DETAILS



Hexagon LED Strips

Flexible strip lighting



Hexagon-format LED strips supplied on reels for custom signage and lighting layouts.

Input / power	DC 12 V / 7 W/m or 10 W/m
LED density options	30 / 42 / 60 LEDs per metre
PCB width	6.8 mm
Protection / CRI	IP44 or IP65 / >90
Color options	White tones, red, green, blue, yellow, pink and purple

PRODUCT DETAILS



LED Neon / 5 m

Flexible neon for signs and accents



A continuous neon-style glow for lettering, decorative lines and illuminated accents.

Roll length	5 m
Input / power	DC 12 V / 10 W/m
LED source / density	SMD 2835 / 120 LEDs per metre
Format / protection	6 × 12 mm / IP65
Color options	White tones, red, blue, green, pink, purple, ice blue, amber and RGB

Specifications shown for 6 × 12 mm. An 8 × 16 mm format is also listed on the website.

PRODUCT DETAILS



LED Neon / 50 m

Bulk-roll flexible neon



Long-roll neon for larger signage projects and repeated production runs.

Roll length	50 m
Input / power	DC 12 V / 10 W/m
LED density	120 LEDs per metre
Size options	6 × 12 mm or 8 × 16 mm
Material options	PVC or silicone
Color options	White tones, blue, green, ice blue, yellow, orange, pink, purple and red tones

PRODUCT DETAILS



03.03 / PRODUCT CATEGORY

Power Supplies

Match the power to the application.

FIND YOUR PRODUCT

Select by format, light source and power rating.

Light Box Power

Slim LED power supplies / 60–500 W

81

Waterproof Power

IP67 LED power supplies / 45–400 W

82

HT-RG Series

Rainproof LED power supplies / 60–600 W

83

HT-ID Series

Indoor LED power supplies / 60–400 W

84

Light Box Power

Slim LED power supplies / 60–500 W



Input 185–240 V AC / 50 Hz

Output DC 12 V

POWER	OUTPUT VOLTAGE	OUTPUT CURRENT
60 W	12 V DC	5 A
100 W	12 V DC	8.3 A
150 W	12 V DC	12.5 A
300 W	12 V DC	25 A
500 W	12 V DC	41.6 A

Slim format for light boxes. Enclosure size varies by rating.

SELECT A TABLE ROW FOR PRODUCT INFORMATION

Waterproof Power

IP67 LED power supplies / 45–400 W



Input	170-265 V AC / 50-60 Hz
Output / mode	DC 12 V / constant voltage
Protection	IP67 / overload / overvoltage / short circuit

POWER	OUTPUT VOLTAGE	OUTPUT CURRENT
45 W	12 V DC	3.75 A
60 W	12 V DC	5 A
100 W	12 V DC	8.3 A
150 W	12 V DC	12.5 A
200 W	12 V DC	16.6 A
300 W	12 V DC	25 A
400 W	12 V DC	33 A

IP67 constant-voltage series. Enclosure size varies by rating.

SELECT A TABLE ROW FOR PRODUCT INFORMATION

HT-RG Series

Rainproof LED power supplies / 60-600 W



Input 110-220 V AC

Output DC 12 V

Protection Overload / overvoltage / short circuit

POWER	OUTPUT VOLTAGE	OUTPUT CURRENT
60 W	12 V DC	5 A
100 W	12 V DC	8.33 A
120 W	12 V DC	10 A
150 W	12 V DC	12.5 A
200 W	12 V DC	16.67 A
300 W	12 V DC	25 A
400 W	12 V DC	33.33 A
600 W	12 V DC	50 A

120 W is also listed in the 2025 catalogue. Nominal current shown at 12 V.

SELECT A TABLE ROW FOR PRODUCT INFORMATION

HT-ID Series

Indoor LED power supplies / 60–400 W



Input 110-220 V AC

Output DC 12 V

Housing / protection Metal enclosure / overload / overvoltage / short circuit

MODEL	POWER	OUTPUT CURRENT
HT-ID60-12	60 W	5 A
HT-ID100-12	100 W	8.33 A
HT-ID200-12	200 W	16.67 A
HT-ID400-12	400 W	33.33 A

Indoor use. Metal enclosure; cooling arrangement varies by rating.

SELECT A TABLE ROW FOR PRODUCT INFORMATION

01 / OUR STORY & LEADERSHIP

About Hightech

Hightech Industry Group traces its roots to 2008, beginning with cold roll-forming and industrial bending machines. Channel-letter equipment followed in 2012, CNC routers and CO2 lasers in 2014. In 2017, the group added 25,000 square metres of factory space and entered fiber laser cutting and welding.

Shenzhen Hightech Optoelectronic joined the group in 2018, adding LED modules and power supplies. From 2018 to 2024, Hightech built branches and hubs across nine countries, supported by 33 global agents. Today, this network connects equipment selection with installation, training and long-term technical service.

People. Expertise. Continuity.

OUR CO-FOUNDERS

**Maziar Zaker**

CEO & Co-Founder

**Zhang Xiaodan**

COO & Co-Founder

**Cui Yanliang**Chairman of the Board
& Co-Founder**55,000+**

SQM PRODUCTION SPACE

740+

EMPLOYEES

110+

COUNTRIES SERVED

02 / OUR MANUFACTURING BASE

Inside Hightech.



Built around real production.

Machinery, materials and lighting for signage
and fabrication.



THE MANUFACTURING CAMPUS

03 / OUR PEOPLE

One team. Shared experience.

TEAM HIGHTECH

People behind
the products.



MEET HIGHTECH WORLDWIDE

See our products up close and meet our team at exhibitions and industry events around the world. Discover solutions for your next step in production.

04 / SERVICE

Support that continues.

Installation.

Training.

Technical support.

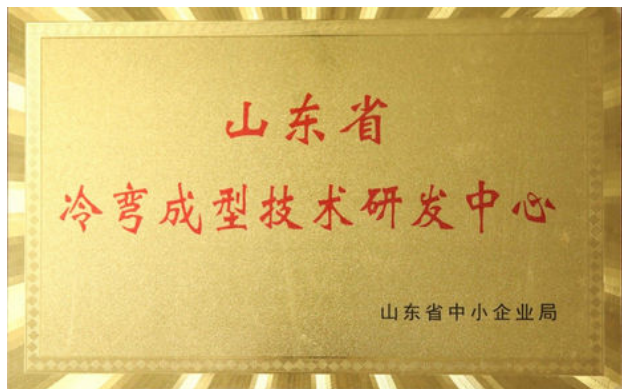


TECHNICAL TRAINING

Inside our production hall.



Recognition through development.



Honors & Certificates



Supplier assessments





Hitech Industry Group

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