

# **Advanced Graphic Systems**

# THE ULTIMATE EXPERT IN









stablished in 1992, Advanced Graphic Systems (AGS) started with computerised design. Today, it is a leading provider of colour matching solutions across all colour-sensitive industries like Print & Packaging, Ceramics, Paints, Textiles, Plastics, FMCG and Automobile. AGS, with a proven track record of over 25 years in the field of colour technology, is known for its Quality, Perfection, Vigour, Trust and Growth.



# OUR PRINCIPALS















# **AOKE**

## **DIGITAL PLOTTING MACHINES**



A high-speed digital flatbed cutter with capabilities to full-cut, half-cut, crease, draw and V-cut materials of various sizes & thickness.

Along with the laser registration system, to cut pre-printed sheets, the machine is capable of catering to short-run production requirements.



# DCE SERIES



DCE series paper box cutting plotter machine is designed with the function of laser positioning, distinguished by high accuracy and simple operation. Accurate positioning is realised through perfect matching between the laser and the pre-printed mark on the printed material. It is an entry-level machine used to cut thin materials.

#### FEATURES:

- » Can cut up to 2mm
- » Ideal for cutting materials like mono carton, white duplex board, Grayback board, Kraft paper, Plain/ Liner PVC sheet, PE sheet, PET sheet, Magnet sheet, Leather, Coating Blanket (Rubber/ Polymer/ Polyspot), Millboard
- » Can process Full cut, Perpetration, Crease, Draw
- » Can half-cut varnish coating blanket
- » Printed sheet registration system ready
- » Cutting Precision ≤0.1mm
- » Maximum speed = 1000mm/s
- » Files accepted = AI, DXF, HPGL PLT, PDF



## **AVAILABLE SIZES (mm)**

» 900 x 600 » 1200 x 900 » 1500 x 900 » 1500 x 1200 » 1800 x 1200

# DCZ-70 SERIES



New DCZ70 series high speed flatbed digital cutter machine is a more stable and artistic platform, offering higher accuracy and faster speed. The touch screen system is user-friendly & enhances work functionality. This machine can be used for cutting, creasing & drawing and is widely suitable for sample making or small scale production in Printing & Packaging sector for cutting materials like all types of Paper, KT board, PVC expansion sheet, PE sheet, PET sheet, Corrugated board, PP flute board, Honeycomb board, Capaboard/ Millboard, Sun board, Foam sheet, EVA Foam, leather, cloth, canvas, etc

#### **FEATURES:**

- » Cutting precision ≤ 0.1mm
- » Max Speed = 1400mm/s
- » Max cutting thickness = 30mm\*
- » Files accepted = AI, DXF, HPGL PLT, PDF
- » Tools = Oscillating Knife (EOK), Drag Knife (UKT), 4 different types Creasing, Drawing Pen, foam, v-cut
- » CCD camera, auto depth positioning system available optional
- \* Industry std. boards and foam sheet.



## **AVAILABLE SIZES (mm)**

» 1300 x 1000 » 1700 x 1300 » 2500 x 1600

# **DCZ-73 & 76 SERIES**

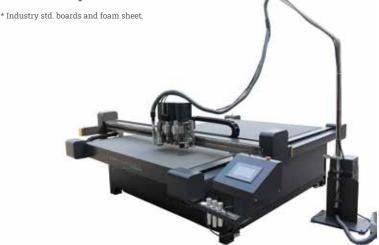


DCZ73/76 series is a high-speed digital flatbed cutter which consists of **Two Independent** heads and its tools are interchangeable. The table is designed with a new vacuum zone and adopts Aviation aluminum. This new design endows stronger suction capacity, faster speed and lower noise. The automatic tool setting system makes tool replacement more convenient. With one click the tool's depth will be set automatically & the damage to the cutting table caused by manual operation error will be avoided.

#### **FEATURES:**

- » Cutting precision ≤ 0.1mm
- » Max Speed = 1800mm/s
- » DCZ73 can cut upto 30mm\* & DCZ76 can cut upto 60mm\*
- » Files accepted = AI, DXF, HPGL PLT, PDF
- » Tools = Oscillating Knife (EOK), Drag Knife (UKT), 4 different types Creasing, Drawing Pen, foam, v-cut

» CCD camera, Router system, Convey belt, Feeding Blanking system available optional



### **AVAILABLE SIZES (mm)**

» 1300 x 1000 » 1700 x 1300 » 2500 x 1600 » 3000 x 1600 » 3000 x 1800

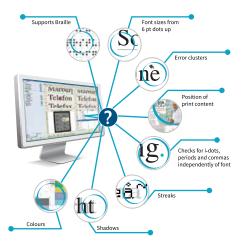
# MEDIACHECK WORKFLOW

### THE MODERN WAY OF PRINT INSPECTION



Our systems provide our customers with a modern and efficient print inspection offering a high degree of accuracy with minimal effort. It is compliant with 21 FDA CFR Part 11.

An electronic verification system for faster deviation detection and reliable checks. It is popularly used to ensure quality control and assurance in printing & packaging processes across FMCG and Pharmaceutical Companies.



- » PDF-to-PDF comparison & inspection
- » PDF-to-Scan comparison & inspection (Printed sheet scan in scanner)
- » Scan-to-Scan comparison & inspection (Optional)
- » All type Barcode, QR code inspection with decode (Optional)
- » Braille inspection (Optional)
- » Booklet module allows inspection of multi-page PDF files automatically in one step
- » Available in Standalone solution & Client-Server solution
- » Detects errors in text irrespective of languages
- » Detects printing process errors like hickey, scum, ghosting
- » All test results documented in report as PDF
- » Parallel processing of different proofs
- » Flexibility regarding who, when and where to do the tasks
- » Relevant data stored centrally on the server

# **BRAILLE INSPECTION**



Braille inspection enables you to compare embossed Braille content against PDF file or plain text.

- » It measures the height of each Braille dot/point with a specially designed sensor
- » It identifies & decodes Braille in the PDF file, following different international specifications in compliance with geometry and language.
- » All necessary specifications (alphabet, geometry, minimal height, pre-defined plain text) are part of the job definition.







# X-RITE COLOUR MEASUREMENT AND MANAGEMENT SOLUTIONS



Helps in achieving the exact colour across printing workflow from pre-press to press.



# **EXACT 2**

## PORTABLE SPECTROPHOTOMETER



For paper, corrugated, carton board substrates

- » Identify exact point of measurement with Mantis™ video targeting
- » Intuitive design and 30% larger screen make it easy to learn and use
- » Avoids wet ink contamination with low-contact measurement area
- » Intuitive touchscreen colour display to simplify device operations
- » 45° ring illumination optics-geometry
- » Spectral range: 400nm-700nm with 10nm interval
- » Enhanced device capabilities through Colour iQC Print, Pantone LIVE, Ink Formulation & NetProfiler (optional)
- » BestMatch tool integrates multiple Pantone libraries or custom colours to offer customised combinations and easier way to accurately measure ink colours throughout the press run





# **INTELLITRAX 2**



Advanced non-contact automated scanning for press side colour control.

- » Intellitrax 2 is Pantone LIVE ready (optional)
- » Measures 2mm x 2mm patches (optional)
- » Forward sensor to adjust the measurement head to the skew of the sheet
- » Dynamic polarisation (DP) option for measuring polarised density while providing non-polarised colour data
- » Measures up to 8 colours
- » Automated white calibration ensuring fast and accurate measurement
- » Quick scanning 150 mm/sec
- » Supports international standards like G7 or ISO
- » Displays printing attributes



# INK FORMULATION **SOFTWARE (IFS)**



Ink Formulation Software is a fast, accurate, consistent ink formulation, formula creation, storage, approval and retrieval solution for Offset, Flexo, Gravure and Screen-printing inks.

- » Ink Formulation is Pantone LIVE ready (optional)
- » Helps match and correct new recipes
- » Powerful waste management module for converting waste inks into new inks
- » Reduces waste, helps in increasing profit
- » Easy control and monitoring of colour quality
- » Clear and simple interface
- » Successful track record of ink formulation
- » Seamless connectivity
- » Lowers cost of recipe database maintenance
- » Reduces waste and disposal cost



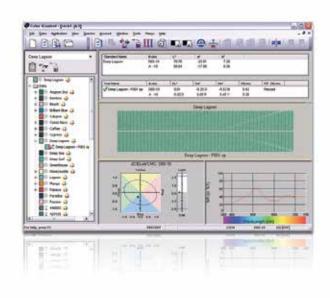


# **COLOR IQC PRINT**



Color iQC is a unique, job-oriented upgradeable colour quality control solution designed to meet evolving colour measurement & management requirements in all industrial market segments.

- » Color iQC Print is Pantone LIVE ready (optional)
- » Supports industry standards including G7, PSO, ISO and JPMA
- » Minimises ink and paper waste by detecting colour issues early in the process
- » Monitors colour quality during production for early problem detection and reduced re-work, allowing more jobs to be processed
- » Compares early make-ready to approved print or legacy samples, ensuring colour is correct prior to full production



# Ci62 PORTABLE SPECTROPHOTOMETER



High performance portable spectrophotometer from X-Rite helps improve quality, accuracy and consistency in QC, QA workflows and process control.

- » Used for MET PET, aluminium & metal substrate
- » Enhances position within the supply chain
- » Tightens control of colour for incoming materials, in-process parts and finished goods
- » Digitally communicates colour throughout the supply chain
- » Displays only spectral attributes
- » Status LEDs give real-time visual feedback
- » Ergonomic overmold design provides smooth and comfortable grip
- » Reduces rejection rates and scrap





# JUDGE QC-LIGHT BOOTH



Colour evaluation of materials and products with consistent lighting

- » Consistent fluorescent illumination that complies with key international standards
- » Total Light Sources 5
- » Dedicated D50 light source for print & packaging applications and D65 light source for industrial applications
- » Includes Tungsten (A), UV and fluorescent lights
- » New Dual Daylight mode enables easy switching between D50 and D65
- » Easy installation of replacement lamps



# SPECTRALIGHT QC LIGHT BOOTH



Light booth for colour-critical visual assessment

- » Total Light Sources 7
- » Additional option for fluorescent lamp
- » Like SPL-III, it meets ASTM D1729 specifications and AATCC evaluation process 9-2010
- » Light sensors for automatic LUX adjustments
- » Reduced power requirement
- » USB port connectivity
- » Monitors LUX output
- » Easy serviceability







New standard for colour calibration and profiling

- » The only accurate, versatile & reliable profiling device in the market
- » Enhanced optical brightener compensation
- » Equipped with positioning detection sensor
- » New illuminant design allows two standard measuring conditions (M0: Tungsten; M1: D50; M2: UV cut)
- » New status LED guides users through the measurement process and allows feedback on device status.





# iO TABLE



## Automated measurement table for profiling solution

- » Automatic chart reading system
- » Fastens & automates measurement process
- » Eliminates manual strip reading
- » Capable of reading various substrates
- » Provides consistent and reliable results
- » Increases productivity
- » Requires low-level operator skills





# PANTONE LIVE



## Digital colour communication to drive consistency

PantoneLIVE enables sharing of accurate & achievable colours across the packaging print supply chain. This results in a more colour-consistent product on the shelf. Pantone LIVE provides common colour standards for brands, designers and printers alike, which are achievable on different substrates, printing presses and ink systems.

- » Communicates accurate brand spot colour requirements more effectively across the entire packaging print supply chain, 24x7
- » Defines standards digitally and sets achievable targets
- » Manages the access rights to your brand spot colours
- » Achieves colour consistency at the shelf, regardless of how and where packaging is done
- » Sources globally without compromising on quality
- » Increased efficiency for a cost-effective supply chain
- » It is a cloud-based solution







# **RUTHERFORD & X-RITE**



Rutherford and X-Rite scanning solutions with cip3 and closed-loop enable you to achieve the correct colour from the first to the last measurement.

- » Increases your operational equipment efficiency (OEE)
- » Reduces machine downtime and improve profits and margins
- » Achieve colour accuracy and consistency like never before
- » Automates and standardises any model and generation of offset press
- » Optimizes press performance with easy retrofits
- » Compensates high paper costs by lowering make-ready and production waste
- » Manages multiple printing conditions efficiently (metalized and plastic foils with white underprint, UV and conventional)







# **SOFTWARES**



#### **IntelliPack**

#### **FEATURES:**

- » Maximum 20 print units, Perfecting Press
- » IntelliSet Ink presetting software
- » Intelliloop Closed-loop colour control software
- » PUPI Press Interface
- » All in one computer OPS Touch Screen
- » Screen Mount
- » Stacklight high visibility coloured light to show quality status.

### IntelliPress2

#### **FEATURES**:

- » Up to 5 print units, 44"
- » EasySet ink presetting software
- » EasyLoop Closed-loop colour control software
- » PUPI Press Interface
- » All in one computer OPS Touch Screen
- » Screen Mount

Option: Perfecting Press, 6 or more Print unit, Large size press

## Touch Screen All-in-One Computer

- » Intuitive interface for the press operator & easy installation.
- » Ergonomic layout, Touch screen computer, 21.5 narrow bezel
- Full HD (1920 x 1080) Wide-angle viewing, Anti-glare, multi- touch screen. 1080p HD camera, Core i5 10400 / 2.9 GHz, RAM 8 Go, SSD 256 Go, TCG Opal Encryption, NVMe.
   UHD Graphics 630, Bluetooth 5.

## PUPI Programmable Unified Press Interface

- » Rutherford PUPI proprietary interface
- » Designed and produced by Rutherford, USA.

# **HARDWARES**



Achieve the perfect colour balance with Xrite BestMatch™ and density relation technology.

#### IntelliTrax2

#### Ultra-Fast Automated Press-Side Colour control

- » Spectral, Digital Pantone library
- » Auto tracking of the colour bar
- » Best Match function for spot and process colour
- » 2mm height colour bar
- » Non-contact measurements
- » Supports the majority of global graphic arts standards, including M0, M1, M3 and helps to achieve GRACoL, SWOP 2013, PSO, FOGRA 51 and FOGRA 52
- » Direct access to the PantoneLIVE database and job data exchange with ColorCert.



### ExactAutoScan

## One instrument, Ultimate Flexibility

- » Integrated with Rutherford to deliver a mid-range solution for ink key control
- » Executes automatic colour bar scan and control, and performs press standardisation
- » Supports the majority of global graphic arts standards, including M1 to accommodate optical brighteners, M3 for measuring wet ink and full support for GRACoL, SWOP 2013, PSO, FOGRA 51 and 52
- » Direct access to the PantoneLIVE database and can exchange job data with ColorCert



# X-RITE & RUTHERFORD



## What makes Rutherford and X-Rite combination unique?

- » Rutherford's solution manages ink keys individually. It makes optimized curves for every ink key per unit, substrate, UV or conventional, ink ductor sweep. With Rutherford, your prints are more accurate.
- » Auto learning of the preset curve keeps the curves up-to-date without the need for experts
- » Special algorithm manages white under print and density accuracy up to 0.001 (Intellipack only)
- » A universal system that supports all major Offset presses and models (new and old)
- » Compatible with all rip's (tiff, ppf, cip3 and cip4)
- » Supports all major printing conditions M0, M1, M3 (PSO, G7)
- » Integration to ColorCert score server and reporting system
- » Return on investment in six months, on an average





# TS DOCTOR BLADE



#### TS DOCTOR BLADE

### for supreme printing quality

TOKYO SEISAKUSHO is the pioneer of Doctor Blade manufacturing in Japan. With over 40 years experience, state-of-art technology, know-how, uncompromising quality management, and in-house manufacturing process, makes TS DOCTOR BLADE the world-leader in the field of ceramic plating doctor blade. TS DOCTOR BLADE assures qualitative and quantitative products in Rotogravure and Flexographic printing.



Tokyo Seisakusho always prioritises customer's satisfaction. It works with skilled professionals and offers customisations.

### **Our TS Doctor Blades are:**

- » Highly durable (5 to 10 times longer life than the conventional Steel Doctor Blade)
- » Balanced flexibility with excellent tolerance
- » Cylinder-friendly lamella-shaped round edge
- » Inspects with microscope at all stages, from raw material to shaping & shipping
- » 100% quality inspection by QC trained professionals
- » Short start-up time due to high-precision blade-tip structure
- » Uniform plating by electroless process
- » Fit for consistent supreme quality printing
- » Compatible with both Rotogravure and Flexographic printing

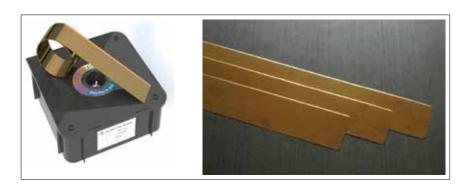
#### We have confidence because of

- » Our customised raw materials » Originated processing machine
- » In-house plating factory » TS standardized precise inspection
- » Endless after-sales and services

# TS DOCTOR BLADE (PLATING TYPE)

TOKYO SEISAKUSHO

TS Doctor Blade uses the Swedish strip-steel with few impurities. After grinding and polishing the blade tip, an electroless process creates a thin, ultra-adhesive ceramic coating layer and makes it highly durable. It is not necessary to change your Doctor Blade frequently for your long run job. Its precise blade tip can scrape smoothly with soft touch. We offer a wide range of Doctor Blade, depending on the tip-length, tip-thickness, plating thickness and tip-angle.



## Lamella (Single)

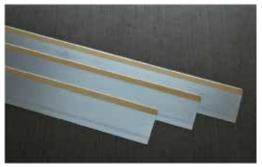


Body Thickness (T)	0.15mm, 0.2mm	Tip shape	Single, Bevel	
Width (W)	25mm, 30mm, 35mm, 40mm, 50mm, 55mm, 60mm	Plating Thickness	5μm • 7μm • 10μm	•15µm
Tip Thickness (t)	40μm <b>~</b> 220μm	Hardness	Hardness HV900	HV750

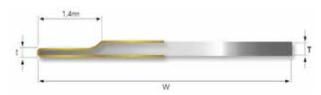
# TS DOCTOR BLADE (PLATING TYPE)

TS Partial Plating Doctor Blade (Tip only coated Doctor Blade)- A high-performance Doctor Blade that combines the flexibility and durability with exceptional printing quality. Whether you are printing on paper, plastic, or other substrates, the TS Tip Partial Plating blade can help you achieve the highest printing quality and efficiency. Try it today to experience the difference!





#### Lamella (Single)



Body Thickness (T)	0.15mm, 0.2mm	Tip shape	Single, Bevel
Width (W)	40mm 50 mm 60mm	Plating Thickness	5µm • 7µm • 10µm
Tip Thickness (t)	50μm~100μm	Hardness	HV900(Tip), HV620(Body)

# TS DOCTOR BLADE (QROWT TYPE)



Uses highly-durable steel. It is widely used for white and pearl inks.





Material thickness x Edge thickness x Width		Hardness
Q160-70	0.15mm×70μm×60mm	HV650
Q250—70	0.2mm × 70μm × 50mm	HV750
Q250—10 0	0.2mm × 100μm × 50mm	HV750
Q250—RR	0.2mm × 200μm × 50mm	HV750



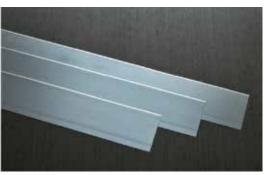
# TS DOCTOR BLADE (STEEL TYPE)



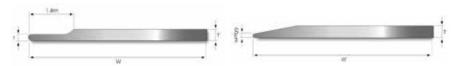
## Japanese Standard Model

A series of simple steel Doctor Blade, developed with selected raw materials and extraordinary tip shape with high flexibility





### Lamella (Single)



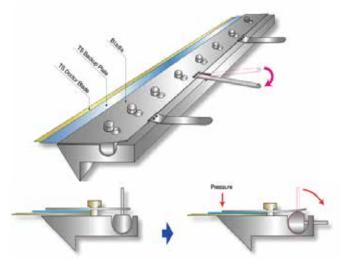
Body Thickness (T)	0.15mm, 0.2mm	Tip shape	Single, Bevel
Width (W)	25mm, 30mm, 35mm, 40mm, 50mm, 55mm, 60mm	Hardness	Hardness HV620
Tip Thickness (t)	40μm ~ 220μm		



# ONE TOUCH DOCTOR HOLDER



TS One Touch Doctor Holder helps you to improve productivity, reduce printing defects, standardise work, stabilise quality and reduce costs.



Set the doctor blade and back up plate. There is a positioning pin so you do not need adjusting. If you half-rotate the lever, the doctor blade and back up plate will be fixed.

#### MERIT:

- » No bolting work required for assembling
- » Torque of TS One Touch Holder can be pressured equal
- » Positioning pin can set up the Doctor Blade and Back-Up Plate with same position
- » Special plating of TS One Touch Holder increase durability; easy to clean



# UNILUX STROBEOSCOPES

HIGH SPEED PRINT INSPECTION TOOLS



# **UNILUX portable strobes** are powerful, rugged, easy-to-use and designed with safety in mind.

- » LED 1 small self-contained unit that can fit in your pocket; normally used for maintenance and short inspection tasks.
- » LED 3 a high-quality print inspection tool designed for inspection on gravure and flexo printing lines. It throws light about 300 mm and is priced for budget minded printers and convertors.
- » LED 9 is a more powerful version and it allows the operator to get farther away and see more of the web. Great for stand-to-stand trouble shooting and inspection on gravure and flexo lines; throw light up to 600 mm away
- » LED 12 for wide web printers that want to see more of the web. It will throw light up to 1 meter away and give you an inspection area of over 500 mm square.

NOTE: All units, except LED 1, use high-quality removable batteries with power charge indicator, allowing the operator to easily see how much power is left and can charge and swap batteries on time to ensure the units are always ready to work.



# UNILUX STROBEOSCOPES

HIGH SPEED PRINT INSPECTION TOOLS



# **UNILUX fixed strobes** are AC powered strobes that can be fix mounted to the production line for 24/7 usage.

All units come with built-in flash rate, intensity and duration controls and can be synchronized to the printed material via external signals.

- » LED 3 small compact unit is suitable for narrow printing and inspection lines. Commonly used on shrink sleeve and label re-inspection rewinders.
- » LED 9 a more powerful version allowing the unit to be mounted farther away and show a wider inspection area. Good for narrow slitting and re-inspection machines.
- » LED 27 very powerful and rugged strobe. This unit can be mounted up to 600 mm away and can inspect material up to 600 mm wide. Popular on large re-inspection, die-cutting and even mid web printing lines.
- » LED 2000 line the LED 2000 line has a whole range of strobes (LED 500, LED 1000, LED 1500) allowing you to pick the unit that matches your machine width. This line can throw light up to 1 meter away and is used on for inspection on wide web gravure and flexo printing lines, slitters and Doctor rewinders
- » WW 1250 special wide web strobe for budget minded printers. This light is designed for inspection on gravure and flexo printing lines. The WW 1250 will cover web up to 1300 mm wide and is designed to be mounted close to the web (less than 300 mm).
- » All the above lights come equipped with the latest Smart Assist software allowing for easy set up and use.

## Some advantages UNILUX LED strobes can offer:

- » No spare lamps required
- » Low heat generation (less maintenance)
- » No Ozone (less maintenance)
- » Multiple elements instead of one signal bulb (more even coverage)
- » Low power consumption
- » Removable battery with battery life indicator

- » Low voltage (safer)
- » CE safety certified.
- » Solid metal construction
- » 2 year warranty
- » World wide support and long term parts guarantee



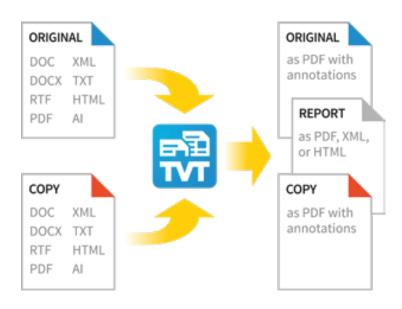
# TVT



The Text Verification Tool®

It compares two files (regardless of file format & layout) and instantly highlights any differences between them.

It streamlines the proofreading process and ensures that only the approved content is printed or published. Audit and correction request reports can be created to guarantee all deviations are recorded, while ensuring regulatory compliance.



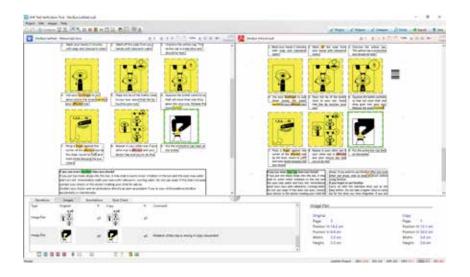


# COMPUTER-DRIVEN PROOFREADING FOR DOCUMENTS



- » Missing or added text
- » Any document
- » Multiple files
- » Text order
- » Compares tables
- » Text and image comparison
- » Instructions for use
- » Manuals
- » Any language (including Braille)
- » Style (font type, size, bold, italic, underline etc.)

- » Legal contracts
- » Package inserts
- » Packages/cartons
- » Product monographs
- » Submission documents
- » Product labelling







# PRECISE HIGH-SPEED LASER CUTTING AND ENGRAVING MACHINES

GBOS boasts of over 150 types of intelligent laser systems. Its product line covers laser marking, cutting and engraving, offering options of CO2 glass tube laser, metal-tube laser and fibre laser catering to a wide range of industry and customer requirements.

#### APPLICABLE ON:

- » Leather
- » Plexiglass
- » Bamboo
- » PVC Plate
- » Rubber
- » Cloth
- » Wood
- » Wool Fabric
- » Acrylic
- » MDF





# **GH SERIES**



CO2 laser cutting engraving machine.

#### FEATURES:

- » Laser wattage options of 70W, 90W, 120W and 150W available
- » Cuts hard materials like acrylic and MDF up to 10mm thickness
- » USB connectivity allows faster data transfer and make-ready time
- » Also available in two laser head configurations to speed-up productivity
- » The control software accepts almost all major CAD formats like DXF & DWG



#### SIZES AVAILABLE

» 700 x 500 » 900 x 600 » 1200 x 600 » 1400 x 800 » 1600 x 1000

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## **Advanced Graphic Systems**

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