

FIRST MIDDLE EAST FZE

Innovative Technologies for Print Packaging & Decorative Industry



ROBOTIC LASER FOR PACKAGING

DIRECT LASER FOR EMBOSING

ELECTROMECHANICAL FOR GRAVURE

3D SCANNING

EMBOSSING ROLLERS

- ♦ Robotic Laser Cylinders for Low ink Consumption in Gravure Printing
- ♦ Laser Roller for Hotmelt, Embossing and Coatings for Wallpaper Printing, 3D Effects for Security Printing.
- ♦ Electro Mechanical Engraved Gravure Printing Cylinders
- ♦ Flat and Rotary metal DIE by CNC milling process for embossing and creasing for decorative packaging.
- ♦ Laser Engraving on Elastomer Rollers for jointless Printing in Flexo print.
- ♦ Fabrication for printing stocks and steel bases



Robotic Laser Engraving for Packaging

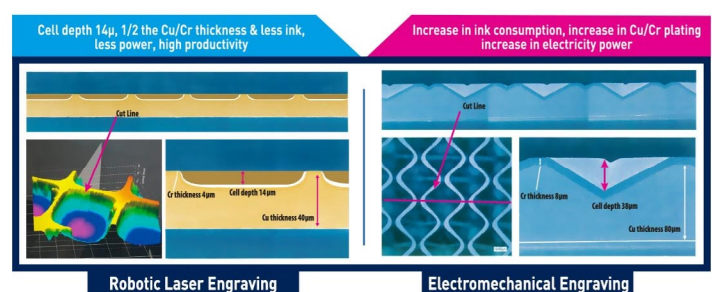
In Producing Gravure quality with a ink cost that of Flexo print ! We are taking Gravure printing to a whole next level by introducing a revolutionary state of art Laser cylinder with Robotic process. Process that elevates the print resolution of images to manifold yet the Unique cell structure reduces the ink consumption by around 20% to 25% in compare to the traditional engraved rollers and bring ink cost to the level of flexo print. The complete automated Robotic process ensures short turn around time, a higher precision output, better controls, reliability and delivers outstanding performances.

A set of cylinders for a 8 color design can be processed within 48 hrs of design approval. Lower consumption of ink promotes lower usage of residual solvents thereby reducing emission to our environment.



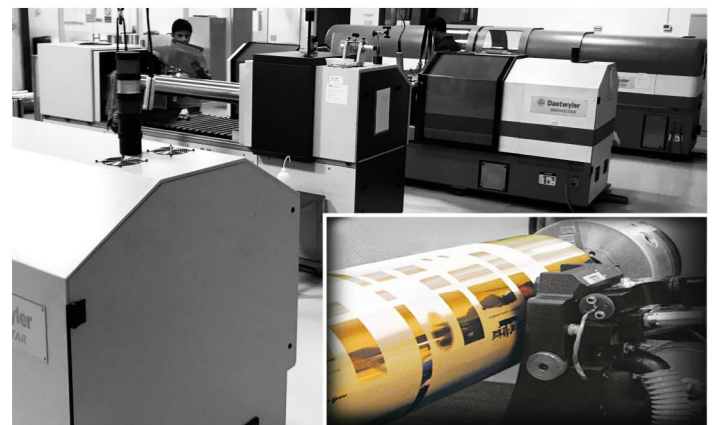
Advantages of Robotic Laser cells in Gravure printing:

- ◆ Robotic Laser engraving with unique flat bottom cup cell structure unlike traditional hexagonal cells with 55% lesser depth compare to traditional cylinders enables the ink transfer entirely from dot to the substrate with less stress ensures higher print densities.
- ◆ Text below 4pt & thin lines can be engraved with Robotic Laser engraving. Better performance on Barcode.
- ◆ Unique cell shape & no breakage in cells on side walls, ensures sharp edges for Text & Lines and better dot transfer. Laser sharp dots enable engraving of high resolution imaging over 6400 dpi.
- ◆ higher print speed say 400mtr/min thus enabling higher productivity.
- ◆ Now with Laser beams with three times enhanced resolution (3200 x 12800 dpi) in the conversion of image tiff file in preparation capability for Laser engraving optimises the fine details of halftones & fine lines in the image even at higher print speed say 400mtr/min thus enabling higher productivity.
- ◆ Cost saving in lower ink application ,a unique cell structure with modified cell volume ensures saving upto 25% of ink consumption in print compare to cells of mechanical cylinders with same value of reflected density.



Electro Mechanical Engraving for Gravure Printing:

A traditional system of engraving gravure print rollers, The Diamond stylus of Engraver produces 1700-8100 cells per second during the high speed process of engraving to meet varied printing requirements. Accuracy of engraving in terms of cell geometry (cell width, cell wall and depth) for each cylinder is ensured. cylinders upto 2500 mm face length & circumference up 1500mm can be processed with great accuracy.



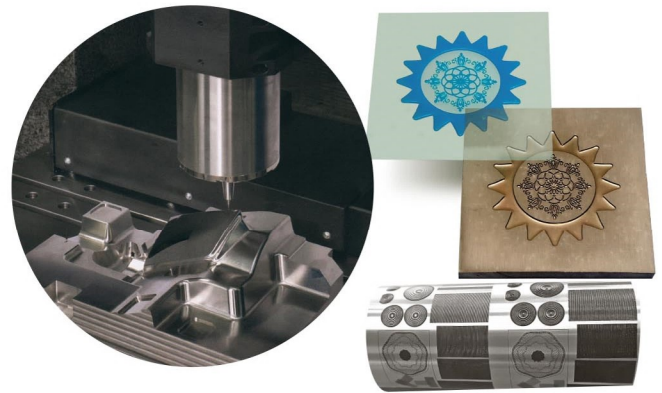
3D Scanner for indepth visualisation of details in objects

- ♦ High definition scanning on real objects capturing multi dimensional details on all axis fused to creat 3 dimensional visual effects with a high resolution and optimal color accuracy incredibly near real feel look to your packaging
- ♦ 3D Surface scanner is best suited to scan brilliant details in designs wall Papers, food industry, luxury packaging and security industry



CNC Milling Machine for 3D Emboss, Flat DIE and Hot Stamp application

- ♦ Effective medium for milling to produce high precision die cut and crease tools, small moulds for forging and injection moulding industry, Flat die for embossing on luxury and decorative packs in perfume and tobacco packaging, enables machining of rotationally symetrical surfaces for embossing at short leadtime.
- ♦ Embossing for 3D designs, security plates, currency with a variable details from 10mic to depth over 1000mic depth.
- ♦ Usefull for manufacture of Rollers for hot stamping, Rotary die cutting and Moulds.



Laser Engraving for Embossing & Security Print

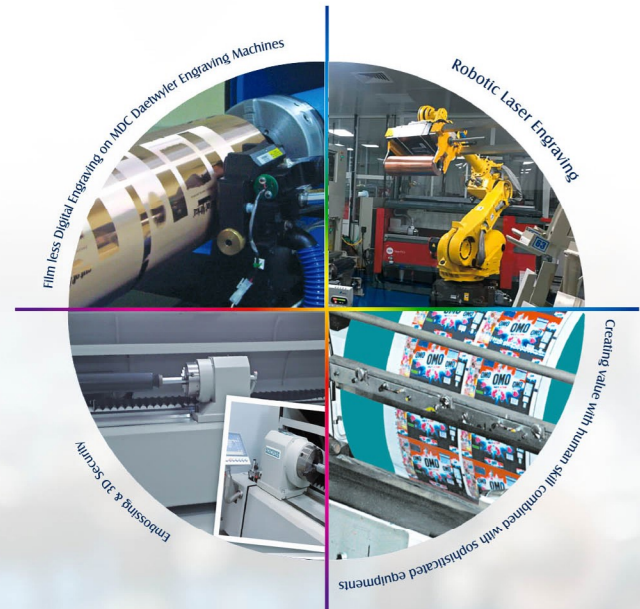
- ♦ Seamless multi beam laser engraving direct on any metal surface by the Thermal energy of pulsating Laser beam.
- ♦ Laser rollers upto 3mtr length, with resolution above 1000dpi. Heavy duty Embossing for leather, Steel & Aluminium with depth over 800mic.
- ♦ Laser engraving technology capable of engraving on any metal / Non Metal surface (elastomer rubber, steel, aluminium, copper).
- ♦ Rollers for printing fine text, details for invisible security features in packaging, on temper proof security documents.
- ♦ Special coating rollers for paper, aluminium and packaging , rollers for Hotmelt ,wax & Heatseal applications.
- ♦ Embossing rollers for Tobacco & Perfume packs and for Decorative Prints



Having technological prowess In a printing perspective

Established in year 2005 in Dubai (UAE) with a ultra modern manufacturing infrastructure, Today FME is known to be an innovative and service oriented establishment that caters to the printing & coating industry. with a varied product portfolio catering printing and packaging ,our client base spans all over GCC, Africa, Americas and Europe. The strength of our approach is our dedicated, talented employees having rich experience in development, execution and after sale service and top of range machinery and equipemnts to achive the desired results in best possible conditions on the press all tailor made to suit clients ultimate satisfaction.

Needs Of Packaging Industry Is Our Driving Strenght, Creating Value With Superior Human Skills Combined With Sophisticated Machineries Is a Winning Formula.



For facinating needs of packaging, We offer a world of applications:

- ♦ Robotic Laser Gravure Cylinders for Low ink Consumption in Printing
- ♦ Laser Roller for Hotmelt, Embossing and Coatings for Wallpaper Printing, 3D Effects for Security Printing.
- ♦ Electro Mechanical Engraved Gravure Printing Cylinders
- ♦ Flat and Rotary upper and lower metal DIE by CNC milling process for spot emossing and creasing.
- ♦ Laser Engraving on Elastomer Rollers for jointless Printing
- ♦ Fabrication for printing stocks and steel bases

As we speak of technology, we firmly beleive in:

- ♦ Superior Quality Product
- ♦ Economical Price
- ♦ Unmatched After Sales Service

Accolade's:



2015
STARS OF BUSINESS AWARD



GAA AWARD 2019



GAA AWARD 2018



GAA AWARD 2016

