



Since 1974

K. K. METAL PROCESSING SDN. BHD.



Specializing in the flexible manufacturing of complex precision sheet metal parts.

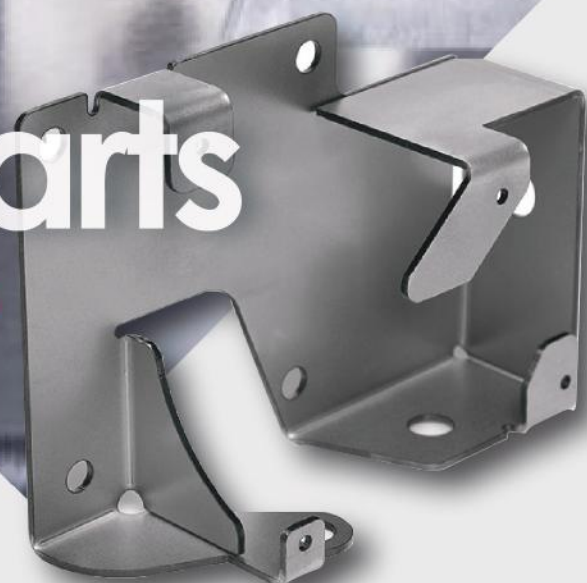


*Flexible Manufacturing of*

# Precision Sheet Metal Parts

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2019





3D LASER WELDING



LASER TUBE CUTTING



TURPET PUNCH



BENDING



2D LASER CUTTING



MACHINING TURNING



PUNCH LASER



MILLING & TURNING



STAMPING



ASSEMBLY

# Copper Punch & Bend



Copper Punch & Bend is a manufacturing process that produces a V-shape, U-shape, or channel shape along a straight axis in ductile materials, most commonly sheet metal. Commonly used equipment include box and pan brakes, brake presses, and other specialized machine presses.

# Robotic Bending



The TruBend Cell 5000 is the perfect solution for those who value productive and flexible automation, for the widest possible range of parts as well as a consistently high part quality. The automatic bending cell now enables you to process your components even more efficiently.

# Main

## FACILITIES



### LASER TUBE

- Eliminate conventional process e.g. sawing, drilling, milling & deburring process.
- Offers new design option – produce any contour, simplify joining & welding process, increased precision, cost reduction.

Profile – RHS, SHS, Tube, L-Shape, U Shape, etc

Material & thickness – MS (8mm), SS (6mm), Al (5mm).  
OD = 200mm



**607**  
N/mm<sup>2</sup>  
TENSILE  
STRENGTH!



*THERE'S A FUTURE IN  
LASER WELDING. QUITE RIGHTLY SO!*

### LASER WELDING

- The beam provides a concentrated heat source, allowing for narrow, deep welds and high welding rates.
- The process is frequently used in high volume applications using automation, as in the automotive industry.
- It is based on keyhole or penetration mode welding.

Material :

Steel,  
Coated Steel, &  
Stainless Steel



### INDESTRUCTIBLE

The observer is both amazed and impressed. If the bounded sections are welded with the laser, then the material itself will part while the seam holds up. In the example mentioned above, the tensile strength of the stainless steel was 607 N/mm<sup>2</sup>. That of the laser-welded seam was significantly higher. A comparison was made on a test bed by a materials inspection laboratory. It revealed - without exception - that conventionally welded heats came apart at or near the seam.



*Trials performed by a materials testing laboratory prove conclusively that a seam welded by a laser is stronger than the welded material itself.*

# PRODUCT

Sector

# POWER

Construction



Architecture Product



9mm angle bar

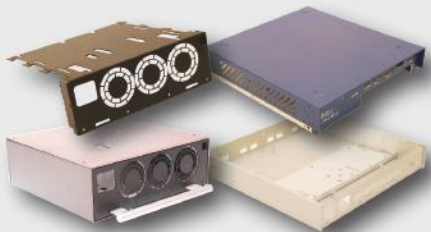
200mm OD  
8mm thick M/S Pipe

150mmx100mmx6mm thick RHS

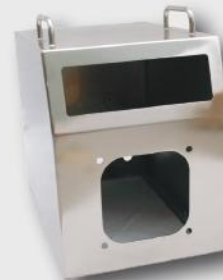
Conveyor System



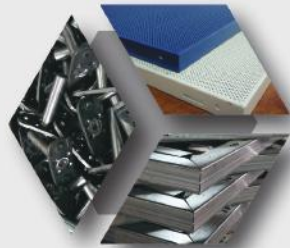
E&E



Laboratory



Furniture



# Other

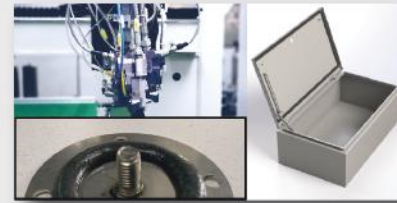
# FACILITIES



## Quality Data Management



ZEISS PiWeb combines measurement data from multiple systems into graphical part stories, SPC charts, quality documents and dashboards. It allows engineering, production and quality managers easy, remote access to all reports at any time.



## Foam Gasket

FIPFG is the process whereby liquid PUR (Polyurethane) is precisely applied to a component and expands and adheres to form the desired gasket.

## Finishing

Fully Automated Powder Coating system by Gema.



## CAD Experts

Be it 2D/3D drawings from our client, KKMP has the expertise to process various kind of CAD files.



## Shot Blasting

Technological process of removing various impurities from different surfaces by using abrasive.



## Quality Facilities





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[www.kkmetal.com](http://www.kkmetal.com)

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