



**NEWBILLION GROUP**

ENGINEERING  
SOLUTIONS  
PROVIDER

TOGETHER WE MOVE FORWARD

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



## Corporate Overview

**Newbillion** was incorporated in 1991, with a core business of providing **Engineering Solutions** by integrating CNC Machining, Die Casting, Engineering Plastic, Sub-Assembly processes and Supply Chain Management for various kinds of market industries.

## Market Industries

- Medical Devices
- Advanced Electronics (Telecommunication)
- Automotive
- Electrical & Electronics



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## Company Milestone

**1991**

Established as a **Precision Stamping Company** and diversified into **Zinc Die Casting**

**2007**

Established **CNC Precision Machining & Supply Chain Management Division**.  
Setup **Integrated Engineering Solutions Division**

**2014**

Setup **CNC Auto lathes** and **Spraying Facility** for **Medical Devices & Automotive** Industry

**2016**

Setup **Aluminium High Pressure Die Casting**.

**2017**

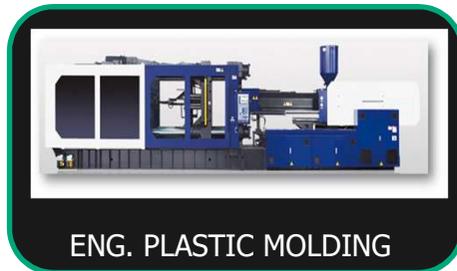
Upgrading to **ISO9001:2015**.  
Invested **Engineering Plastic Moulding Machine** to cater for Automotive Industry  
Moving towards **IATF16949:2016**.



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## Core Business





## Engineering Solution Provider (ESP)

### Fundamental

Niche

Differentiation  
(Process Integration)

Mass Prod

### Nature of Business

Zinc / Alu  
Die-Casting

CNC  
Machining

Plastic Injection  
Molding

SCM

Assembly

### Key Area of Focus

Global  
Marketing

ICT Adoption

Best  
Factory Site

Culture

Excellent  
Machine

Talent

QMS

Finance

### Main Department

Marketing

Production

Engineering

Quality

HR



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## Cosmetic Precision Mechanical Components for Various Kinds of Market Industries (with integration of surface finishing processes )



CNC Division



Die Casting Division



Surface Finishing Division



Electroplating Division

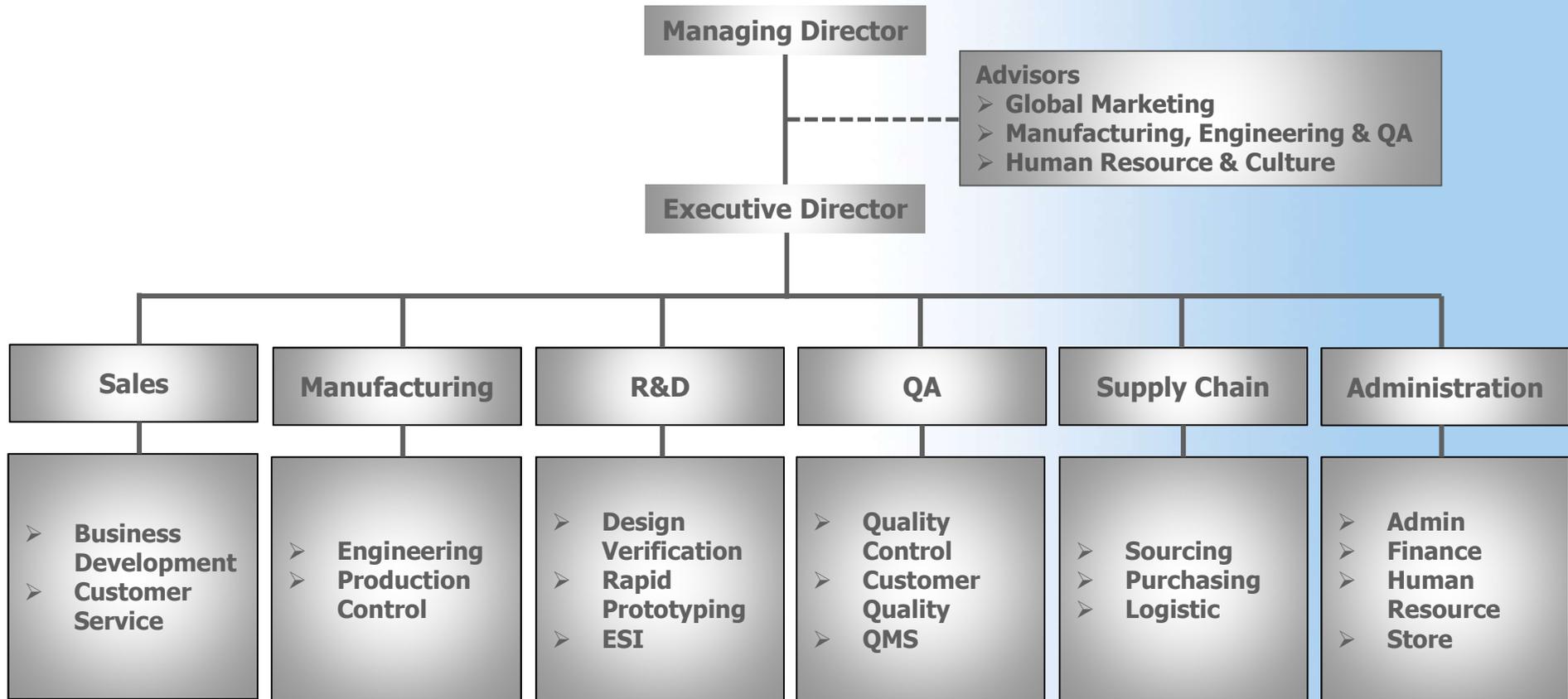


Coating Division





# Organization Chart





# Certification



ISO 9001 : 2015



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**Certified IATF 16949:2016**



**Newbillion Precision Metal Sdn. Bhd.**

*Towards*

**IATF 16949 : 2016**



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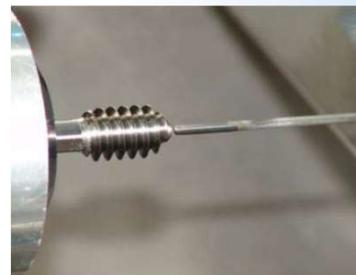


## CNC Precision Turning

- Swiss Type Automatic Lathe, 8 axes type ( 6 linear + 2C )
- Equipped with special equipment & attachments capable to machine medical parts
- Mirror-like kinematics providing complete flexibility for main and counter operations
- Integrated with automatic bar feeder for uninterrupted mass production



External thread whirling attachment to meet maker designed and complex thread for medical screws and must without burrs



Gun drilling process with 120 bars High-pressure pump with excellent bore diameter and drilling length ratio



High-frequency Spindle up to 80,000 rpm for milling complex shape like hexalobular (Torx) for either external or internal



## CNC Precision Turning

- **Swiss Type Automatic Lathe, 9 axes type ( 7 linear + 2C )**
- **2 independent platens for operations such as milling, slotting or balanced turning**
- **High tooling capacity and capable to machine high complexity parts**
- **Integrated with automatic bar feeder for uninterrupted mass production**

Single-spindle automatic turning machine with sliding headstock and NC. Capacity up to 25.4 mm



High performance Swiss type lathe with modular tooling concept.

Main advantages:

3 tools in the cut simultaneously.

The most dynamic spindles in its class.

Balanced turning and milling operation are possible.

Up to 25,4 mm capacity (with bar prep).

The most powerful spindles in its class.

Designed to work with or without guide bush.

Modular tooling system.

Up to 36 tools.

Large work zone allowing easy access to the tools from both sides of the machine.

Ergonomics designed with the operator in mind.

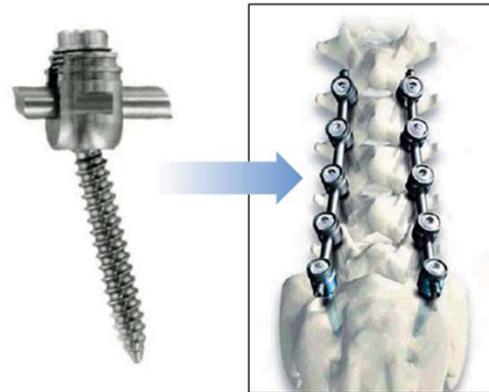
Open design for excellent chip evacuation into the large chip container



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## CNC Precision Turning - Capabilities



### Medical Implants, Instrument and Tooling

- Cannulated screws
- Locking screws
- Cortical screws
- Lag / hip screws
- Mono-axial / poly-axial bone screws
- Spine hooks
- Connecting Rods
- Nails
- Tooling
- Nuts
- Others



SPINAL  
DEFORMITY



MOTION



TRAUMA



INTERBODY  
FUSION



## CNC Precision Turning - Capabilities

### Automotive parts used in :

- Turbocharger
- Airbag system
- Braking system
- Steering system
- Transmission system
- Injector
- Electric motor
- Ball bearing
- Gasoline parts
- Diesel parts
- etc





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# CNC Precision Turning - Capabilities

## Electrical & Electronic parts



Free cutting steel



Free cutting steel



Stainless steel 303



Peek



Brass



Brass



Brass



Stainless steel 303



Stainless steel 303



Stainless steel 303



Stainless steel 303



Stainless steel 303



Stainless steel 303



Stainless steel 416



Stainless steel 430



Stainless steel 303



Stainless steel 303



Stainless steel 303



Stainless steel 430



## CNC Precision Milling ( 3 axes Type Vertical Machining Center )



- Max. Travel Distance : 1,100mm x 600mm
- Max. Spindle Speed : 12,000rpm
- Distance from Spindle nose to Table surface (mm) : 100mm - 700mm
- Table Loading Capacity : 800kg
  
- JIS 6338 Accuracy, tested in temperature controlled room, Positioning & Repeatability (within 300mm) :
  - +/- 4 microns (positioning)
  - +/- 2 microns (repeatability)



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## Products



**Solid material :** Alu6083, Alu6061, Alu6063, SUS303, SUS431, SUS440, SS13-8, SS15-5 PH, SS17-4 PH, Titanium Grade 2 & Grade 5, Grade 23 (medical), Inconel 718, Inconel 625



## Casting Capabilities



### HOT CHAMBER

- Material : Zinc
- Machine tonnage 60 ton
- Maximum shot weight of 1.2kg
- Part's max. weight : approx. 0.8kg
- Part's max. size : 150mm x 150mm \* Subjective

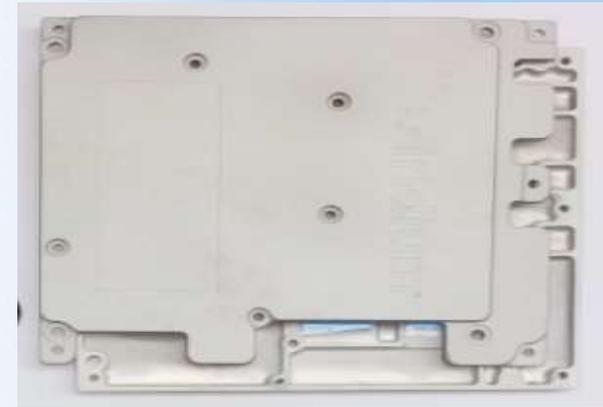


### COLD CHAMBER

- Material : Aluminum
- Machine tonnage 125T to 350T
- Maximum shot weight of 2.2kg
- Part's max. weight : approx. 1.5kg
- Part's max. size : 250mm x 250mm \* Subjective



## Casting Products



Raw material : ADC12, A380, A383, A413, A360, A384, LM20, Zamak 3, Zamak 5



## Plastic Injection Molding Machine



- Clamp tonnage ( kN ) : 1,200 ; 1,600
- Mold platen dimensions : 625mm x 627mm ; 705mm x 705mm
- Space between tie bars : 410mm x 410mm ; 470mm x 470mm
- Mold height (min. to max.) : 150mm to 450mm ; 180mm to 520mm
- Molding material : PBT 30 GF, POM, TPU and other engineering grade plastic materials



## Internal QC - Metrology Lab



Smart Scope Focuz 3020 VMS



Axiom T00 CMM



3D Measuring Scope



Optical Comparator



Zeiss Spectrum II CMM



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# Thank You

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