
APEC 亞太菁英
ASIA PACIFIC ELITE CORP
AEROSPACE
INDUSTRY
SOLUTIONS
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APEC 亞太菁英
ASIA PACIFIC ELITE CORP

Aiming at aerospace solutions

APEC is the total solution provider for the future aerospace industry.
With our high quality 5-axis machines, we are confident to provide
comprehensive strategy to our clients and bring each other to the next level.

TRENDS

- Predictable and stable growth
- Fuel consumption improving
- New engine design
- Material changes

CHALLENGES

- High efficiency production
- New machining process
- Right shoring
- Supply chain transparency
- Flexible delivery

SOLUTIONS

- Smart manufacturing
- Complete product line
- Technical support
- Turnkey solutions
- Strategic partnership

OUR MISSION

To provide high-performance 5- axis large scale aerospace machines to streamline customers' aerospace machining process.

OUR VISION

We believe our innovative proposition will help those with aspiration have a better choice and a much better future.

CFRP structural and layup tooling


G3020


G2540


G3060


MCW30200

Aero engine parts


G800-TR


MT20RT


MDU-2000W

Titanium structural parts

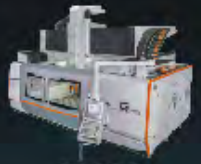

G800-TR


MTH1530


MDU2842-Titan

Aluminum structural parts


MT1530


G3020


G2540


G3060


GM3080


MC30200-Dual

Various
HAEDS & SPINDLES available
For all **Aerospace** material applicaitons

HSK 63A/100A
5,000 - 30,000 RPM
25 - 124 kW
60 - 1,000 Nm

Travel [mm]

1,000 | 3,000 | 5,000 | 10,000 | 20,000

Aluminum Structural Parts

Aluminum's light weight and durability offer fuel-efficient transportation with cost and it has been used in aviation since the birth of the industry.

8,000c.c/min

Material Removal Rate
Best efficient machining

0.6G+
60m/min

Feedrate/acceleration/Jerk vaule
Linear motor driving

Chip Disposal

Flushing system
Compound chip conveyor

124kW
30,000rpm

High power and frequency
Optimized spindle design

High Speed Gantry Machining Center

GM

Titanium Structural Parts

Titanium is widely used for aircraft as a material having light weight, high strength and excellent corrosion resistance.

High Speed Double Column Machining Center

MTH

we offer advanced tool strategies
for wide variety of aero machining.

Efficiency

8000rpm spindle opt.
Modern tool strategy applied

Rigidity

Stable and solid machine body
Well damping ratio

1,000Nm
Spindle torque

Aero Engine Parts

The design trend of aero engine is developing integrated and compound. The features of next-generation aero engine include complicated shape and difficult to-process inner structure. Besides, higher usage of nickel base alloy would also bring more challenges to machines, tool and processing technology.

Aero Engine Parts

5-axis Heavy Duty Machining Center

MDU

Internal and external machining can be done in single machine

Efficiency+

No time wasting of attachment changing and calibration

Accuracy+

Vertical compact head for both internal & outside patterns machining

No attachment change

Automation+

Pallet change system

Flexible+

W-axis for various height of casing

MDU

5- axis heavy Duty Aero-engine Components Machining Center

MDU-2000W has entered GE aviation aero-engine casing production line since 2016

Composite Structual Parts and Layup Tooling

The application ratio of composite material to aircraft has been growing to improve aircraft fuel consumption due to its features of light-weight and high-temperature resistance.

Dust Collection

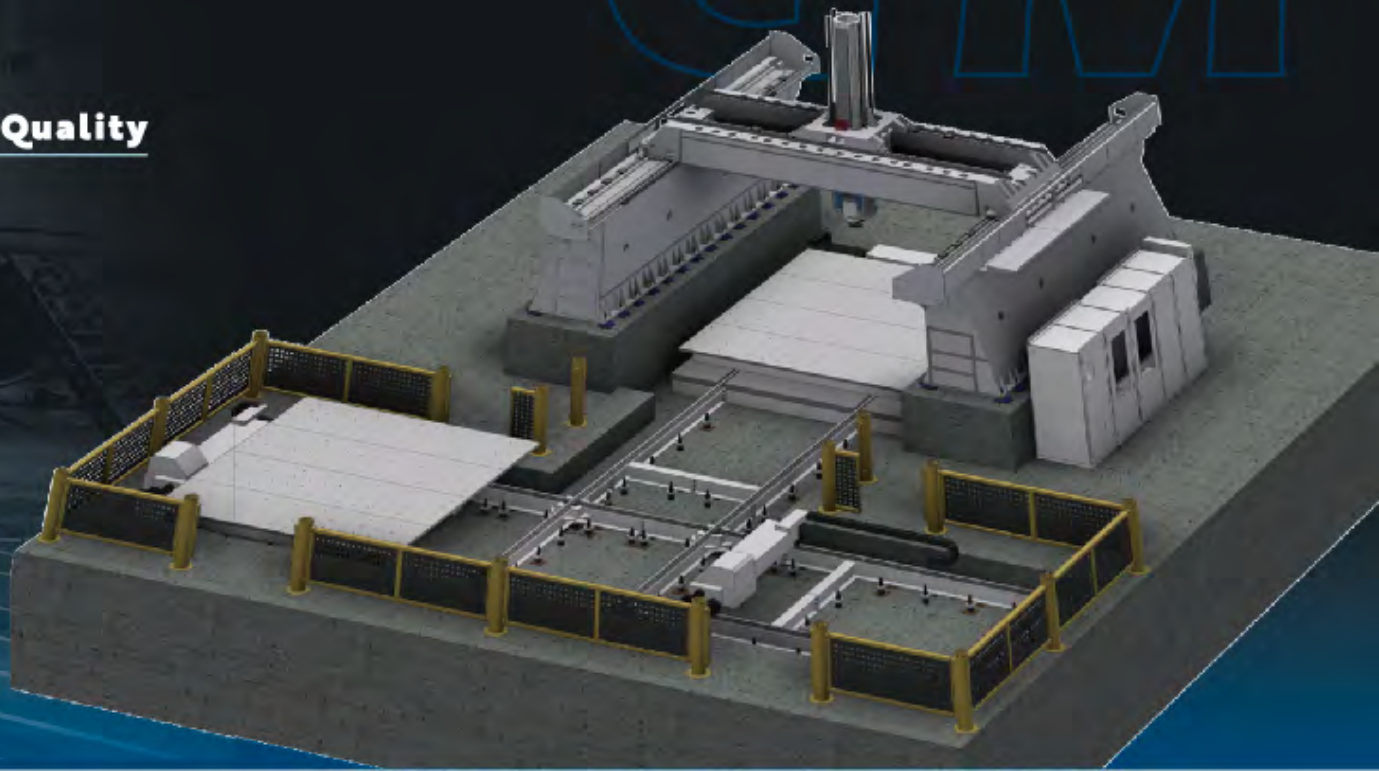
Working zone dust collecting & filtering
Suction hood on spindle
Top roof sliding cover

Surface Quality

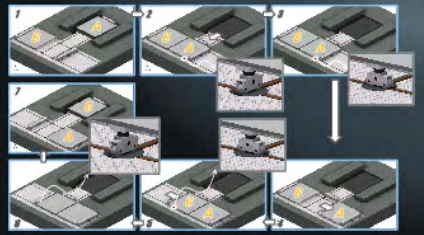
Layup tooling finishing
Vacuum clamping jig & fixture

Efficiency

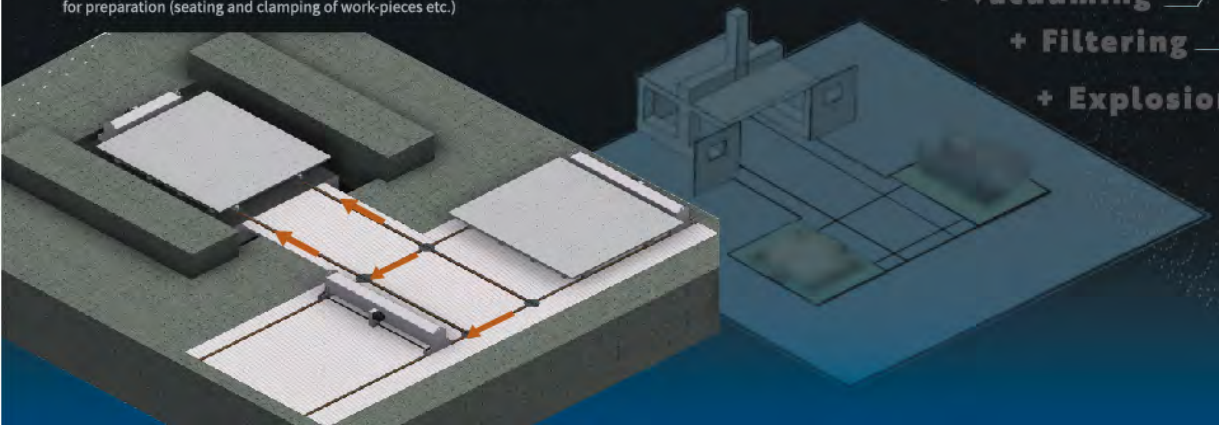
High spindle torque for stack material
Adapted machining with real time measuring



Auto Pallet Change System



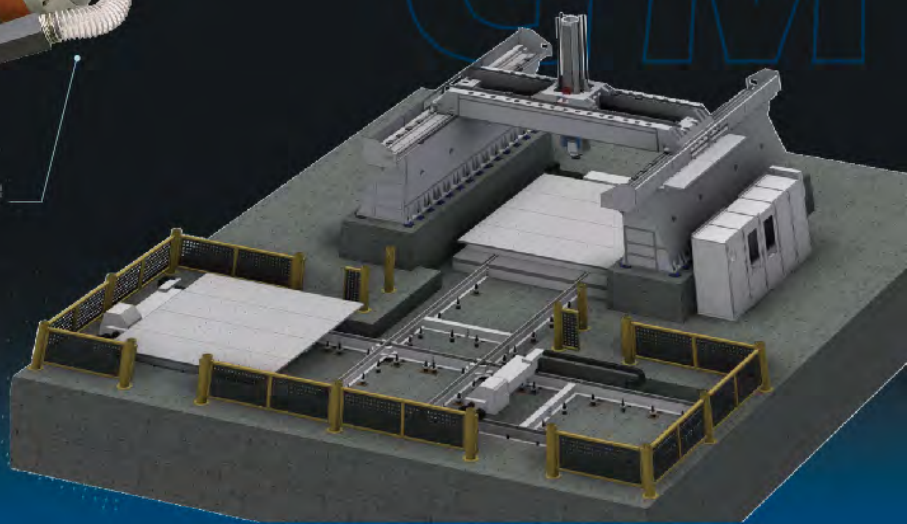
Automatic Pallet Change system can be applied to reduce non-productive time. Machine can be carried out on one pallet, while the others can be used for preparation (seating and clamping of work-pieces etc.)



Dust Collection System

The dust collector system provides many manufacturing advantages including improvement of workpieces quality and efficiency.

+ Vacuuming
+ Filtering
+ Explosion proof



Factories have been driving forward to deliver a more responsive, adaptive and connected manufacturing line. The goals of smart factory are optimizing the manufacturing process and improving manufacturing efficiency.


TLM
TIMS
Smart Factory
Instant machine Status tracking
Utlization analysis
Alarm history
Operation history
Smart Manufacturing
Production management
Intelligent monitoring
Tool management
Workpiece management