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MEMBER OF 11 GROUP 2 0 2 3 / 0 8





AIMING AT AEROSPACE SOLUTIONS





ASIA PACIFIC ELITE CORP. (APEC) IS A SUBSIDIARY OF TTGroup, THE BIGGEST MACHINE TOOLS GROUP

IN TAIWAN

APEC aims at "Aerospace manufacturing process" and defines ourselves as a resources integrator, solutions provider and customers' best strategic partner of OEM, Tier1 to Tier3.

APEC has the world's most complete medium and large aerospace structure and engine parts processing solutions.

Besides, we also have 20 years of professional practical experience in die & mold and precision machining.

Our clients are all over the world, like Canada, the USA, Germany, Japan, Mainland China and Taiwan, etc.Furthermore, we offer comprehensive customer services including factory planning, intelligent manufacturing, technical training, process upgrades and Turnkey solutions.



TIMS

Production management Intelligent monitoring RFID tool management Workpiece management Order management



TLM

Machine status
Utilization analysis
Alarm history
Operation history
Program upload/download



AGA key components

- Spindle
- Milling Head
- · Trunnion Table



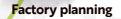
Aerospace Gebert APEC is a brand which provide key components of aerospace processing. It is developed by APEC and Dr.Gebert's team from Germany.AGA provides the brilliant components such as high power high speed Spindle, Milling Head and Trunnion Table which are especially designed for APEC machines. This allows us to provide after-sales service more efficiently and accurately.

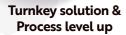
Training program & Talent supply



High-end facility & Smart manufacturing







After - sales service





Duo block structure design

Machine rigidity and working stability could be enhanced via duo block structure design.



Larger machining area

Despite the smallest footprint in its class, this compact model features a wide machining area and complete functions.

Suitable workpieces

Wing structure

TIMPEC







Cross beam



Machine configuration for aerospace machining

Cross beam flushing system

High pressure pump with groups of powerful nozzles can quickly remove the chips.

Complex chip removal system

Large water tank equiped provides stable coolant fluid and helps removing chip efficiently.

Fully enclosed splash guard

Lower noise and prevent spreading of chips and coolant liquid.

Special spindle for aluminium alloy processing

High speed and power spindle with the best material removal rate.

Unequal thickness of Ram

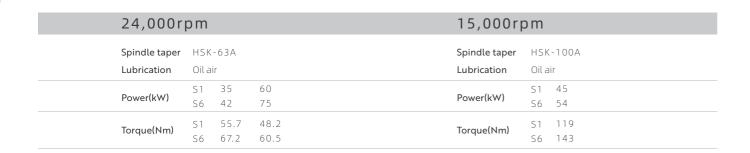
Special structure design of ram helps remain light and rigidity.

High dynamics

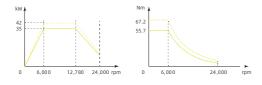
3-axis with high acceleration and deceleration, especially suitable for multiple bulkheads of aluminium alloy material processing.



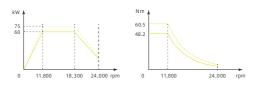
Milling Head



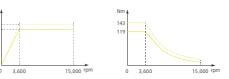
24,000rpm, HSK63A



24,000rpm, HSK63A



15,000rpm, HSK100A





Mono Support Milling Head (Std.)



Fork Type Milling Head

HSK63A/HSK100A HSK63A/HSK100A			
A=529/869Nm	B=1,192/1,980Nm		
C=783/1,300Nm	C=1,050/1,740Nm		
A=C=30(cont)rpm	B=C=30(cont)rpm		
A = C = 60 (max) rpm	B = C = 60 (max)rpm		
A = ±125°	HSK63A:B=±120° C=±360°		
C = ± 3 6 0 °	HSK100A:B=±115° C=±360°		
A = 4,000N m	B = 4,000 N m		
C = 4,000Nm	C = 4,000N m		
	A=529/869Nm C=783/1,300Nm A=C=30(cont)rpm A=C=60(max)rpm A=±125° C=±360° A=4,000Nm	A=529/869Nm C=783/1,300Nm C=783/1,300Nm C=1,050/1,740Nm A=C=30(cont)rpm A=C=60(max)rpm B=C=60(max)rpm A=±125° C=±360° HSK63A:B=±120° C=±360° HSK100A:B=±115° C=±360° A=4,000Nm B=4,000Nm	

		MT1520-5S		
X-axis	m m	2,000		3,000
Y-axis	m m		2,000	
Z-axis	m m		850(1,000 opt)	
Distance from spindle end to table	mm		-100~750	
T-slot size	mm		20x125	
Length	mm	2,100		3,100
Width	mm		1,200	
Max. table load	tons.	3		5
Feedrate				
Rapid traverse	m/min		X/Y/Z=30	
X.Y.Z axis acceleration	m/sec²		5	
Positioning(VDI3441)	mm		X=0.030 , Y=0.010 , Z=0.00	8
Repeatability(VDI3441)	mm		X=0.025, Y=0.008, Z=0.00	5
Spindle(Standard)				
Spindle taper			HSK63A	
Spindle speed	rpm		24,000	
Spindle power(S1/S6)	kW		60/75	
Spindle torque(S1/S6)	Nm		48/60	
Tool shank	pcs		32T	
Max. tool length	mm		300	
Max. tool diameter with adjacent tool	mm		Ø75	
Max. tool diameter without adjacent tool	mm		Ø130	
Max. tool weight	kg		8	
Others				
Machine weight	tons.	20		24

● Standard accessories ○ Optional accessories

Item	Specification	
	HEIDENHAIN TNC640 MPG HR510	•
	HEIDENHAIN TNC640 MPG HR520	0
Controller	HEIDENHAIN TNC640 MPG HR550	0
	SIEMENS SINUMERIK ONE	0
	AGA HSK63A 24,000rpm 60/75 kw	•
Spindle	AGA HSK100A 15,000rpm 45/54 kw	0
	AGA HSK63A 24,000rpm 35/42 kw	0
Drive System	XYZ with high speed ball screw driving	•
Automatic tool changer	32T	•
	40T	0
Change	60T	0
	Coolant around spindle	•
Cutting coolant	Coolant through spindle 20bar	•
	Coolant through spindle 70bar	0
System coolant	Chiller for spindle	•
System coolant	Air conditioner for electrical cabinet	•
Chip removal system	Complex chip conveyer	•
Criip removat system	Enlarged coolant tank	
Workpiece measurement	BLUM workpiece measurement system(TC60-RC66)	0
system	Renishaw workpiece measurement system(RMP600)	0
Tool measurement system	BLUM tool measurement system(NT-A4)	0
100t measurement system	Renishaw tool measurement system(NC4-F230)	0

Smart factory	TIMSsystem	0
	TLMsystem	0
Others	Security door interlocks	•
	Air dryer	•
	Isolation transformer	•
	Spindle oil/air lubrication system	•
	Oil mist collecting system	•
	5 axis with Heidenhain optical scale	•
	Waterproof working lamps	•
	Fully enclosure Splash Guard	•
	Automatic Kinematics measuring and calibration system	0
	Stabilizer	0

- Please contact with our sales if you have special requirement.
- All specifications and design are subject to change without notice.

