World Class Robotic Screw Driving Solutions

- In-line Screw Driving Equipment

- Table-Top Screw Driving Machines

- Cartesian Screw Driving Machines
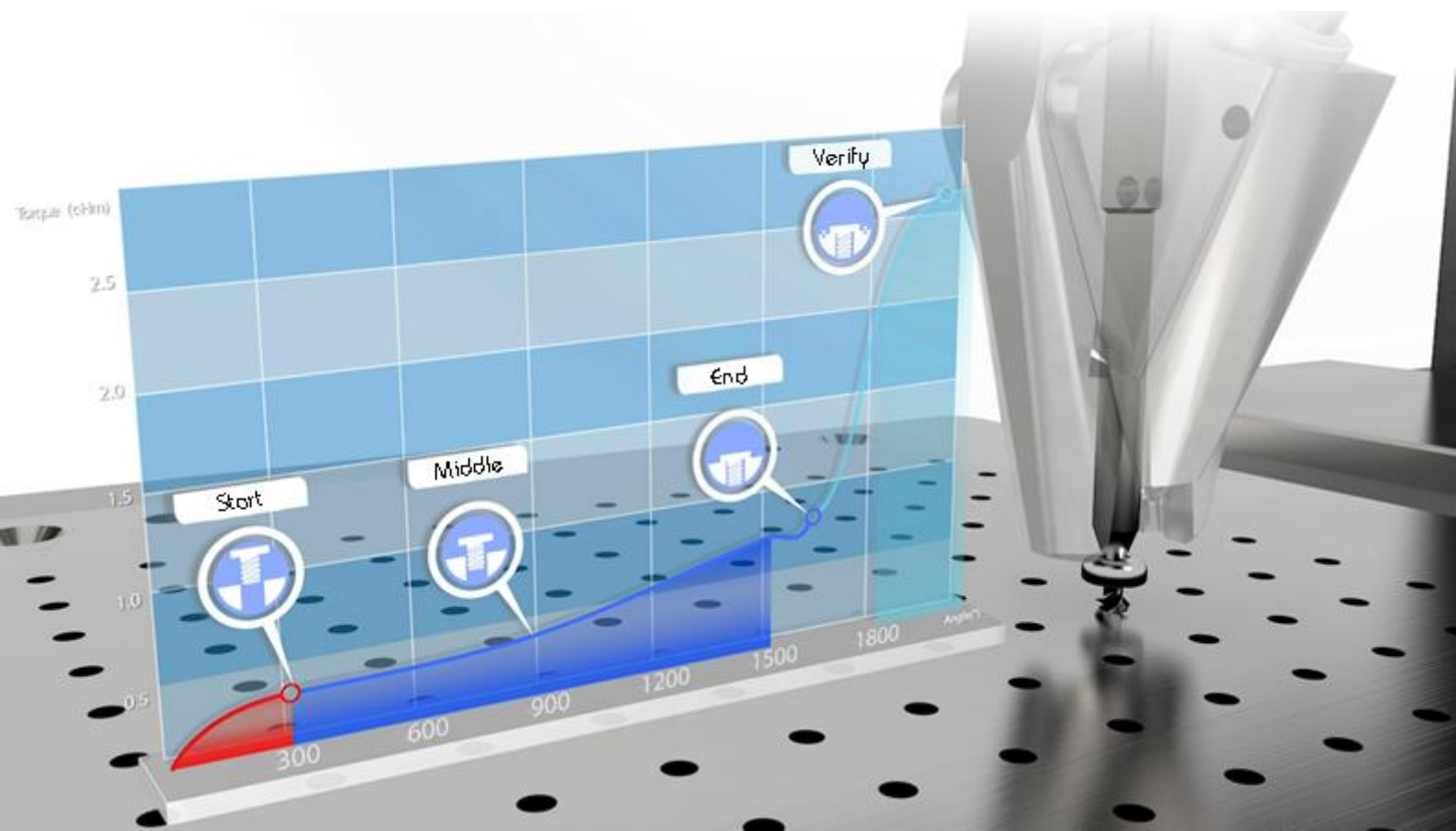
- Optional Accessories

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Screw Driving Machine

Common Applications by Industry

Vehicle Electronics

Smart Wear

Mobile Communication

Camera Module(s)

4G/5G Filter

New Clean Energy Batteries

Motors

Smart Home

In-line Screw Driving Machine
C100

promation

Features:

Automatic Width Adjustment:
For different product size solutions, support fast switching directions.

Smart Screw Driving Control:
This system can continuously feed screws, maintain an accurate screw count, and prevent screws from being lost, mishandled, or improperly installed.

Intelligent Detection:
Screw defects, such as missing screws, floating screws, and sliding teeth can be detected.

Visual Positioning:
Can be set to a group of screw driving functions, control of screw driving process, guarantee the quality of the product.

Data Interaction:
Reserved RS232, RS485, Ethernet port. A variety of communication interfaces, which can communicate with external devices by MES.

Process Monitoring:
Real time display that can save all data, such as torque curve, torque value, rotation angle, process time, eligibility and more.

System Specification:

Model		PROMATION C100
Screw Driving Method		Air Suction/Air Blow
Motor Axis		3 axis
Voltage		100-240V AC
Total Power		1200W
Equipment Itinerary	X axis	400mm
	Y axis	500mm
	Z axis	100mm
Speed Range	X/Y axis	0.1～1000 mm/sec
	Z axis	0.1～300 mm/sec
Repeat Accuracy	X/Y/Z axis	± 0.01 mm
Working Area	X/Y axis	300x400mm
Screw Feeder Speed		1-300mm/s Adjustable
Screw Feeder Width		50-400mm Adjustable
The height of the screw feeder from the ground		900mm±20mm
Dimensions	W,D,H	800x1350x1650 mm

Dimensions:
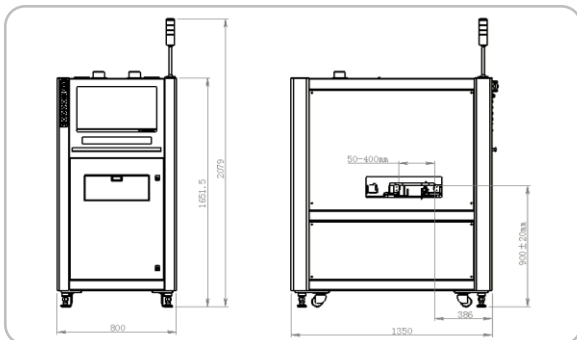
Table-Top Screw Driving Machine

promation

ET72H3KA

Features:

Movement Control System:
High positioning accuracy, Strong load capacity, Smooth low-speed operation, good high-speed performance,X/Y/Z Axis double guide rail, accurate operation.

Process Monitoring:
Real time display that can save all data, such as torque curve, torque value, rotation angle value, process time, eligibility and other data.

Intelligent Detection:
Screw defects such as missing screw, floating screws, and stripped screw conditions can be detected.

Smart Screw Driving Control:
This system can continuously feed screws, maintain an accurate screw count, and prevent screws from being: lost, mishandled, or improperly installed.

Data Interaction:
Reserved RS232, RS485, and ethernet ports offer a variety of interfaces, which can communicate with external devices and MES systems.

Touch Screen Programming:
Simple interaction, fast programming and great functions.

System Specification:

| Model		PROMATION ET72H3KA
Screw Driving Method		Air Suction
Motor Axis		3 axis
Voltage		100-240V AC
Total Power		300W
Equipment Itinerary	X axis	200mm
	Y axis	300mm
	Z axis	100mm
Speed Range	X/Y axis	0.1～1000 mm/sec
	Z axis	0.1～300 mm/sec
Repeat Accuracy	X/Y/Z axis	± 0.01 mm
Machine Load	Y axis	8kg
Working Area	X/Y axis	160x270mm
Dimensions	W,D,H	400x630x800mm
Weight		65kg

Dimensions:
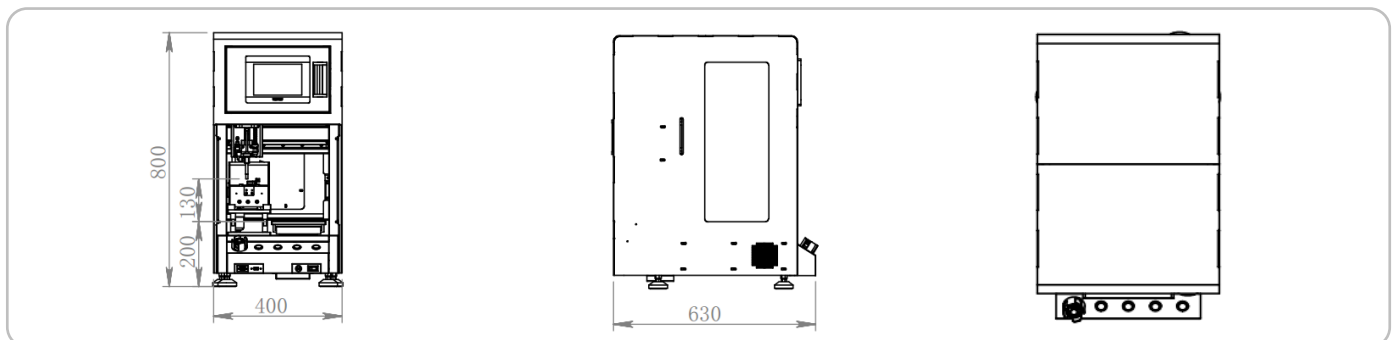
Table-Top Screw Driving Machine

promation

ET7383K

Features:

Movement Control System:
High positioning accuracy, Strong load capacity, Smooth low-speed operation, good high-speed performance,X/Y/Z Axis double guide rail, accurate operation.

Process Monitoring:
Real time display that can save all data, such as torque curve, torque value, rotation angle value, process time, eligibility and other data.

Intelligent Detection:
Screw defects such as missing screw, floating screws, and stripped screw conditions can be detected.

Smart Screw Driving Control:
This system can continuously feed screws, maintain an accurate screw count, and prevent screws from being: lost, mishandled, or improperly installed.

Data Interaction:
Reserved RS232, RS485, and ethernet ports offer a variety of interfaces, which can communicate with external devices and MES systems.

Security Settings:
Two-hand start (single and two-hand start optional), safe and reliable.

System Specification:

Model		PROMATION ET7383K
Screw Driving Method		Air Suction
Motor Axis		3 axis
Voltage		100-240V AC
Total Power		300W
Equipment Itinerary	X axis	300mm
	Y axis	300mm
	Z axis	100mm
Speed Range	X/Y axis	0.1~1000 mm/sec
	Z axis	0.1~300 mm/sec
Repeat Accuracy	X/Y/Z axis	± 0.01 mm
Machine Load	Y axis	8kg
Working Area	X/Y axis	260x270mm
Dimensions	W,D,H	650x590x810mm
Weight		68kg

Optional Platform:

Model	Stroke			Work Area	Dimensions			Weight
	X axis	Y axis	Z axis	X/Y axis	Wide (W)	Deep (D)	High (H)	
ET7483K	400mm	400mm	100mm	360x370mm	750mm	690mm	810mm	75kg
ET7583KA	500mm	400mm	100mm	460x370mm	850mm	690mm	810mm	88kg
ET7583K	500mm	500mm	100mm	460x470mm	850mm	790mm	810mm	95kg
ET7683KA	600mm	400mm	100mm	560x370mm	950mm	690mm	810mm	95kg

Dimensions:

Column heightening	size/mm
L1	50
L2	100
L3	150

Table-Top Screw Driving Machine

ET7C383K

promation

Features:

Movement Control System:
High positioning accuracy, Strong load capacity, Smooth low-speed operation, good high-speed performance,X/Y/Z Axis double guide rail, accurate operation.

Process Monitoring:
Real time display that can save all data, such as torque curve, torque value, rotation angle value, process time, eligibility and other data.

Intelligent Detection:
Screw defects such as missing screw, floating screws, and stripped screw conditions can be detected.

Smart Screw Driving Control:
This system can continuously feed screws, maintain an accurate screw count, and prevent screws from being: lost, mishandled, or improperly installed.

Data Interaction:
Reserved RS232, RS485, and ethernet ports offer a variety of interfaces, which can communicate with external devices and MES systems.

Security Settings:
Two-hand start (single and two-hand start optional) is safe and reliable.

System Specification:

Model		PROMATION ET7C383K
Screw Driving Method		Air Blow
Motor Axis		3 axis
Voltage		100-240V AC
Total Power		300W
Equipment Itinerary	X axis	300mm
	Y axis	300mm
	Z axis	100mm
Speed Range	X/Y axis	0.1~1000 mm/sec
	Z axis	0.1~300 mm/sec
Repeat Accuracy	X/Y/Z axis	± 0.01 mm
Machine Load	Y axis	8kg
Working Area	X/Y axis	280x270mm
Dimensions	W,D,H	620x590x810mm
Weight		68kg

Optional Platform:

Model	Stroke			Working Area	Dimensions			Weight
	X axis	Y axis	Z axis	X/Y axis	Wide (W)	Deep (D)	High (H)	
ET7C483K	400mm	400mm	100mm	380x370mm	720mm	690mm	810mm	75kg
ET7C583KA	500mm	400mm	100mm	480x370mm	820mm	690mm	810mm	88kg
ET7C583K	500mm	500mm	100mm	480x470mm	820mm	790mm	810mm	95kg
ET7C683KA	600mm	400mm	100mm	580x370mm	920mm	690mm	810mm	95kg

Dimensions:

Column heightening	Size/mm
L1	50
L2	100
L3	150

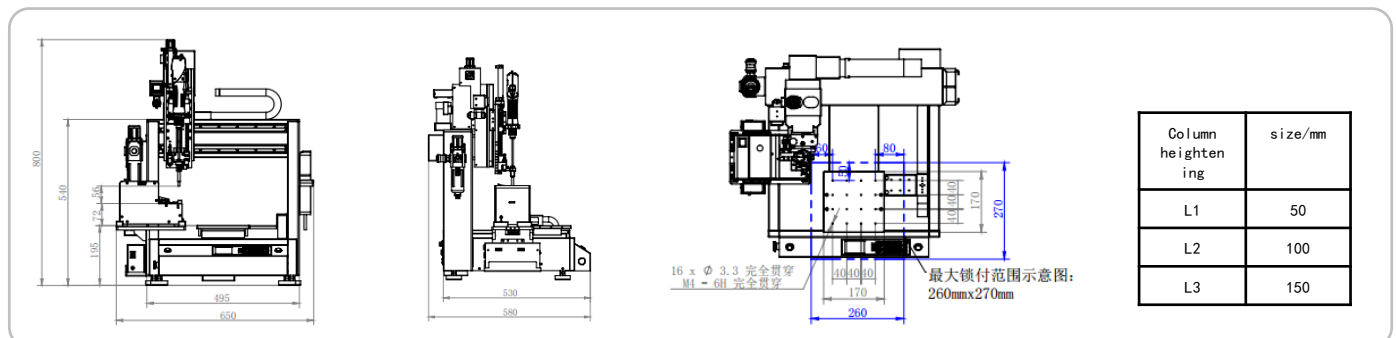16 x Ø 3.3 完全贯穿
M4 - 6H 完全贯穿

最大锁付范围示意图：
280mmx270mm

Table-Top Screw Driving Machine

promation

ET7583KYA

Features:

Movement Control System:
High positioning accuracy, Strong load capacity, Smooth low-speed operation, good high-speed performance,X/Y/Z Axis double guide rail, accurate operation.

Process Monitoring:
Real time display that can save all data, such as torque curve, torque value, rotation angle value, process time, eligibility and other data.

Intelligent Detection:
Screw defects such as missing screw, floating screws, and stripped screw conditions can be detected.

Smart Screw Driving Control:
This system can continuously feed screws, maintain an accurate screw count, and prevent screws from being: lost, mishandled, or improperly installed.

Data Interaction:
Reserved RS232, RS485, and ethernet ports offer a variety of interfaces, which can communicate with external devices and MES systems.

Double Y Alternate Work:
One Y-Axis Table can be unloaded and subsequently loaded while the other table is under the gantry being worked on.

System Specification:

Model		PROMATION ET7583KYA
Screw Driving Method		Air Suction
Motor Axis		4 axis
Voltage		100-240V AC
Total Power		400W
Equipment Itinerary	X axis	500mm
	Y axis	400mm
	Z axis	100mm
Speed Range	X/Y axis	0.1～1000 mm/sec
	Z axis	0.1～300 mm/sec
Repeat Accuracy	X/Y/Z axis	± 0.01 mm
Machine Load	Y axis	8kg
Working Area	X/Y axis	170x370mm
Dimensions	W,D,H	820x690x810mm
Weight		95kg

Optional Platform:

Model	Stroke			Working Area	Dimensions			Weight
	X axis	Y axis	Z axis	X/Y axis	Wide (W)	Deep (D)	High (H)	
ET7683KYA	600mm	400mm	100mm	220x370mm	920mm	690mm	810mm	100kg

Dimensions:

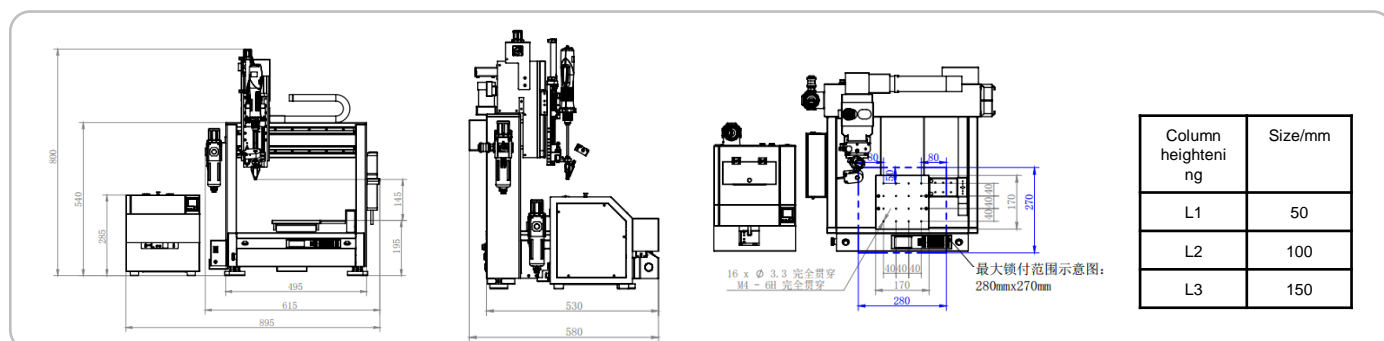| Column heightening	Size/mm
L1	50
L2	100
L3	150

Table-Top Screw Driving Machine

promation
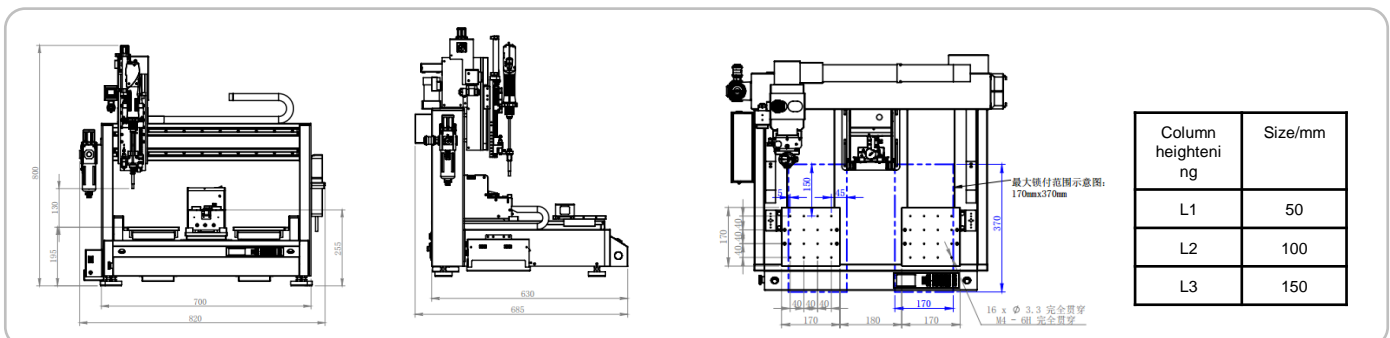
ET7C583KYA

Features:

Movement Control System:
High positioning accuracy, Strong load capacity, Smooth low-speed operation, good high-speed performance,X/Y/Z Axis double guide rail, accurate operation.

Process Monitoring:
Real time display that can save all data, such as torque curve, torque value, rotation angle value, process time, eligibility and other data.

Intelligent Detection:
Screw defects such as missing screw, floating screws, and stripped screw conditions can be detected.

Smart Screw Driving Control:
This system can continuously feed screws, maintain an accurate screw count, and prevent screws from being: lost, mishandled, or improperly installed.

Data Interaction:
Reserved RS232, RS485, and ethernet ports offer a variety of interfaces, which can communicate with external devices and MES systems.

Double Y-Axis Slides:
One Y-Axis Table can be unloaded and subsequently loaded while the other table is under the gantry being worked on.

System Specification:

Model		PROMATION ET7C583KYA
Screw Driving Method		Air Blow
Motor Axis		4 axis
Voltage		100-240V AC
Total Power		400W
Equipment Itinerary	X axis	500mm
	Y axis	400mm
	Z axis	100mm
Speed Range	X/Y axis	0.1～1000 mm/sec
	Z axis	0.1～300 mm/sec
Repeat Accuracy	X/Y/Z axis	± 0.01 mm
Machine Load	Y axis	8kg
Working Area	X/Y axis	235x370mm
Dimensions	W,D,H	820x690x810mm
Weight		95kg

Optional Platform:

Model	Stroke			Working Area	Dimensions			Weight
	X axis	Y axis	Z axis	X/Y axis	Wide (W)	Deep (D)	High (H)	
ET7C683KYA	600mm	400mm	100mm	285x370mm	920mm	690mm	810mm	100kg

Dimensions:

Column heightening	size/mm
L1	50
L2	100
L3	150

Table-Top Screw Driving Machine

ET7483KXZ

promation

Features:

Movement Control System:
High positioning accuracy, Strong load capacity, Smooth low-speed operation, good high-speed performance,X/Y/Z Axis double guide rail, accurate operation.

Process Monitoring:
Real time display that can save all data, such as torque curve, torque value, rotation angle value, process time, eligibility and other data.

Intelligent Detection:
Screw defects such as missing screw, floating screws, and stripped screw conditions can be detected.

Smart Screw Driving Control:
This system can continuously feed screws, maintain an accurate screw count, and prevent screws from being: lost, mishandled, or improperly installed.

Data Interaction:
Reserved RS232, RS485, and ethernet ports offer a variety of interfaces, which can communicate with external devices and MES systems.

Dual Platform Operation:
Dual electric screwdrivers are operated alternately or synchronously to maximize production efficiency. This solution can support the process requirement of two screws applied at the same time.

System Specification:

Model		PROMATION ET7483KXZ
Screw Driving Method		Air Suction
Motor Axis		5 axis
Voltage		100-240V AC
Total Power		500W
Equipment Itinerary	X axis	400mm
	Y axis	400mm
	Z axis	150mm
Speed Range	X/Y axis	0.1～1000 mm/sec
	Z axis	0.1～300 mm/sec
Repeat Accuracy	X/Y/Z axis	± 0.01 mm
Machine Load	Y axis	8kg
Working Area	X/Y axis	340x370mm
Dimensions	W,D,H	810x690x860mm
Weight		106kg

Optional Platform:

Model	Stroke			Working Area	Dimensions			Weight
	X axis	Y axis	Z axis	X/Y axis	Wide (W)	Deep (D)	High (H)	
ET7583KXZA	500mm	400mm	150mm	440x370mm	910mm	690mm	860mm	115kg
ET7583KXZ	500mm	500mm	150mm	440x470mm	910mm	790mm	860mm	120kg
ET7683KXZA	600mm	400mm	150mm	540x370mm	1010mm	690mm	860mm	120kg

Dimensions:

Column heightening	Size/mm
L1	50
L2	100
L3	150

Table-Top Screw Driving Machine

ET7C483KXZ

promation

Features:

Movement Control System:
High positioning accuracy, strong load capacity, smooth low-speed operation, good high-speed performance, X/Y/Z Axis double guide rail, accurate operation.

Process Monitoring:
Real time display that can save all data, such as torque curve, torque value, rotation angle, process time, eligibility and more.

Intelligent Detection:
Screw defects, such as missing screws, floating screws, and stripped screw conditions can be detected.

Smart Screw Driving Control:
This system can continuously feed screws, maintain an accurate screw count, and prevent screws from being lost, mishandled, or improperly installed.

Data Interaction:
Reserved RS232, RS485, Ethernet port. A variety of communication interfaces, which can communicate with external devices by MES.

Dual Platform Operation:
Double electric batches are operated alternately or synchronously to maximize production efficiency, support the process requirement of two screws at the same time.

System Specifications:

Model		PROMATION ET7C483KXZ
Screw Driving Method		Air Blow
Motor Axis		5 axis
Voltage		100-240V AC
Total power		500W
Equipment Itinerary	X axis	400mm
	Y axis	400mm
	Z axis	150mm
Speed Range	X/Y axis	0.1～1000 mm/sec
	Z axis	0.1～300 mm/sec
Repeat Accuracy	X/Y/Z axis	± 0.01 mm
Machine Load	Y axis	8kg
Working Area	X/Y axis	380x370mm
Dimensions	W,D,H	720x690x860mm
Weight		106kg

Optional Models:

Model	Stroke			Working Area	Dimensions			Weight
	X axis	Y axis	Z axis	X/Y axis	Wide (W)	Deep (D)	High (H)	
ET7C583KXZ A	500mm	400mm	150mm	480x370mm	820mm	690mm	860mm	115kg
ET7C583KXZ	500mm	500mm	150mm	480x470mm	820mm	790mm	860mm	120kg
ET7C683KXZ A	600mm	400mm	150mm	580x370mm	920mm	690mm	860mm	120kg

Dimensions:

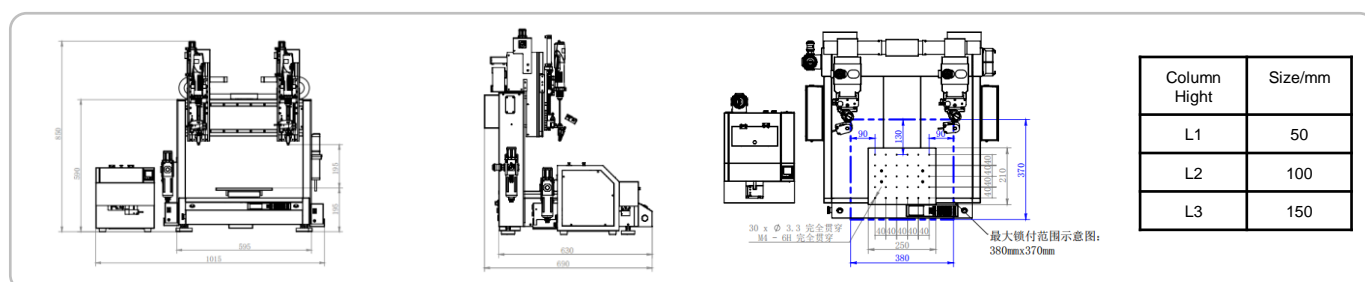| Column Hight	Size/mm
L1	50
L2	100
L3	150

Table-Top Screw Driving Machine

promation

ET7583KXYZA

Features:

Movement Control System:
High positioning accuracy, strong load capacity, smooth low-speed operation, good high-speed performance, X/Y/Z Axis double guide rail, accurate operation.

Process Monitoring:
Real time display that can save all data, such as torque curve, torque value, rotation angle, process time, eligibility and more.

Intelligent Detection:
Screw defects, such as missing screws, floating screws, and stripped screw conditions can be detected.

Smart Screw Driving Control:
This system can continuously feed screws, maintain an accurate screw count, and prevent screws from being lost, mishandled, or improperly installed.

Data Interaction:
Reserved RS232, RS485, Ethernet port. A variety of communication interfaces, which can communicate with external devices by MES.

Dual Platform Operation:
Double electric batches are operated alternately or synchronously to maximize production efficiency, support the process requirement of two screws at the same time.

System Specification:

Model		PROMATION ET7583KXYZA
Screw Driving Method		Air Suction
Motor Axis		6 axis
Voltage		100-240V AC
Total power		600W
Equipment Itinerary	X axis	500mm
	Y axis	400mm
	Z axis	150mm
Speed Range	X/Y axis	0.1～1000 mm/sec
	Z axis	0.1～300 mm/sec
Repeat Accuracy	X/Y/Z axis	± 0.01 mm
Machine Load	Y axis	8kg
Working Area	X/Y axis	180x370mm
Dimensions	W,D,H	910x690x860mm
Weight		115kg

Optional Models:

Model	Stroke			Working Area	Dimensions			Weight
	X axis	Y axis	Z axis	X/Y axis	Wide (W)	Deep (D)	High (H)	
ET7683KXYZA	600mm	400mm	150mm	230x370mm	1010mm	690mm	860mm	130kg
ET7783KXYZA	700mm	400mm	150mm	280x370mm	1110mm	690mm	860mm	140kg

Dimensions:

Column heightening	size/mm
L1	50
L2	100
L3	150

Table-Top Screw Driving Machine

promation

ET7C583KXYZA

Features:

Movement Control System:
High positioning accuracy, strong load capacity, smooth low-speed operation, good high-speed performance, X/Y/Z Axis double guide rail, accurate operation.

Process Monitoring:
Real time display that can save all data, such as torque curve, torque value, rotation angle, process time, eligibility and more.

Intelligent Detection:
Screw defects, such as missing screws, floating screws, and stripped screw conditions can be detected.

Smart Screw Driving Control:
This system can continuously feed screws, maintain an accurate screw count, and prevent screws from being lost, mishandled, or improperly installed.

Data Interaction:
Reserved RS232, RS485, Ethernet port. A variety of communication interfaces, which can communicate with external devices by MES.

Dual Platform Operation:
Double electric batches are operated alternately or synchronously to maximize production efficiency, support the process requirement of two screws at the same time.

System Specification:

Model		PROMATION ET7C583KXYZA
Screw Driving Method		Air Blow
Motor Axis		6 axis
Voltage		100-240V AC
Total Power		600W
Equipment Itinerary	X axis	500mm
	Y axis	400mm
	Z axis	150mm
Speed Range	X/Y axis	0.1～1000 mm/sec
	Z axis	0.1～300 mm/sec
Repeat Accuracy	X/Y/Z axis	± 0.01 mm
Machine Load	Y axis	8kg
Working Area	X/Y axis	200x370mm
Dimensions	W,D,H	820x690x860mm
Weight		115kg

Optional Models:

Model	Stroke			Working Area	Dimensions			Weight
	X axis	Y axis	Z axis	X/Y axis	Wide (W)	Deep (D)	High (H)	
ET7C683KXYZA	600mm	400mm	150mm	250x370mm	920mm	690mm	860mm	130kg
ET7C783KXYZA	700mm	400mm	150mm	300x370mm	1020mm	690mm	860mm	140kg

Dimensions:

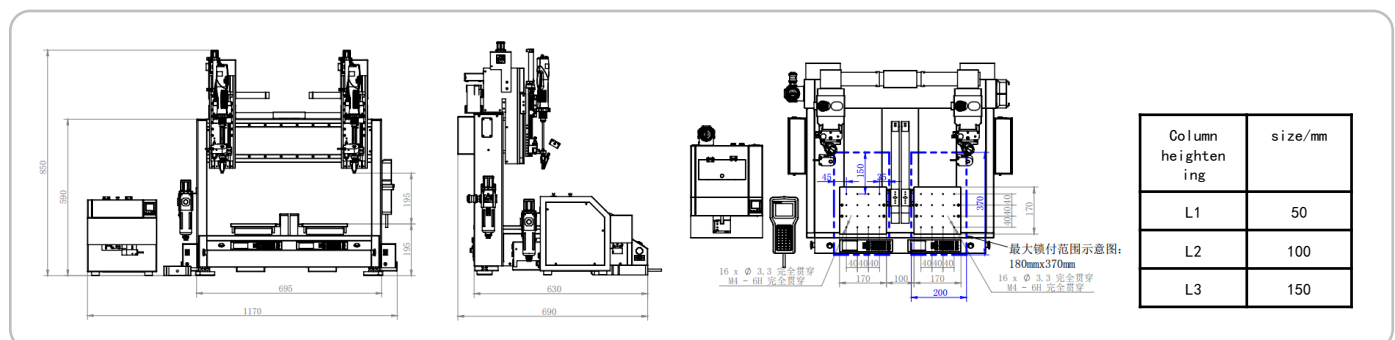| Column heightening	size/mm
L1	50
L2	100
L3	150

Table-Top Screw Driving Machine

ET76T3KYA

promation

Features:

Movement Control System:
High positioning accuracy, strong load capacity, smooth low-speed operation, good high-speed performance, X/Y/Z Axis double guide rail, accurate operation.

Process Monitoring:
Real time display that can save all data, such as torque curve, torque value, rotation angle, process time, eligibility and more.

Intelligent Detection:
Screw defects, such as missing screws, floating screws, and stripped screw conditions can be detected.

Smart Screw Driving Control:
This system can continuously feed screws, maintain an accurate screw count, and prevent screws from being lost, mishandled, or improperly installed.

Data Interaction:
Reserved RS232, RS485, Ethernet port. A variety of communication interfaces, which can communicate with external devices by MES.

Dual Platform Operation:
Double electric batches are operated alternately or synchronously to maximize production efficiency, support the process requirement of two screws at the same time.

System Specification:

Model		PROMATION ET76T3KYA
Screw Driving Method		Air Suction
Motor Axis		6 axis
Voltage		100-240V AC
Total Power		600W
Equipment Itinerary	X axis	600mm
	Y axis	800mm
	Z axis	100mm
Speed Range	X/Y axis	0.1～1000 mm/sec
	Z axis	0.1～300 mm/sec
Repeat Accuracy	X/Y/Z axis	± 0.01 mm
Machine Load	Y axis	8kg
Working Area	X/Y axis	210x265mm
Dimensions	W,D,H	900x1030x810mm
Weight		180kg

Dimensions:
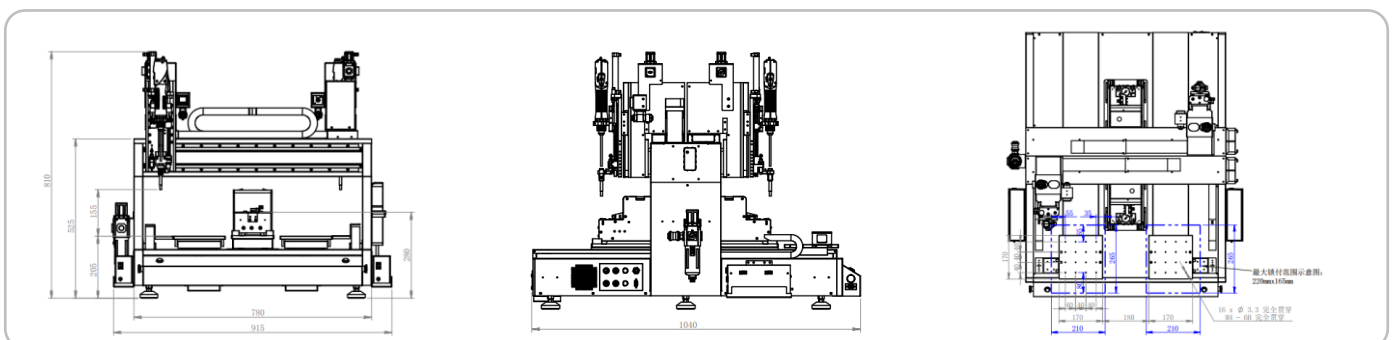
Table-Top Screw Driving Machine

ET7C6T3KYA

promation

Features:

Movement Control System:
High positioning accuracy, strong load capacity, smooth low-speed operation, good high-speed performance, X/Y/Z Axis double guide rail, accurate operation.

Process Monitoring:
Real time display that can save all data, such as torque curve, torque value, rotation angle, process time, eligibility and more.

Intelligent Detection:
Screw defects, such as missing screws, floating screws, and stripped screw conditions can be detected.

Smart Screw Driving Control:
This system can continuously feed screws, maintain an accurate screw count, and prevent screws from being lost, mishandled, or improperly installed.

Data Interaction:
Reserved RS232, RS485, Ethernet port. A variety of communication interfaces, which can communicate with external devices by MES.

Dual Platform Operation:
Double electric batches are operated alternately or synchronously to maximize production efficiency, support the process requirement of two screws at the same time.

System Specification:

| Model		PROMATION ET7C6T3KYA
Screw Driving Method		Air Blow
Motor Axis		6 axis
Voltage		100-240V AC
Total Power		600W
Equipment Itinerary	X axis	600mm
	Y axis	800mm
	Z axis	100mm
Speed Range	X/Y axis	0.1～1000 mm/sec
	Z axis	0.1～300 mm/sec
Repeat Accuracy	X/Y/Z axis	± 0.01 mm
Machine Load	Y axis	8kg
Working Area	X/Y axis	285x265mm
Dimensions	W,D,H	900x1030x810mm
Weight		180kg
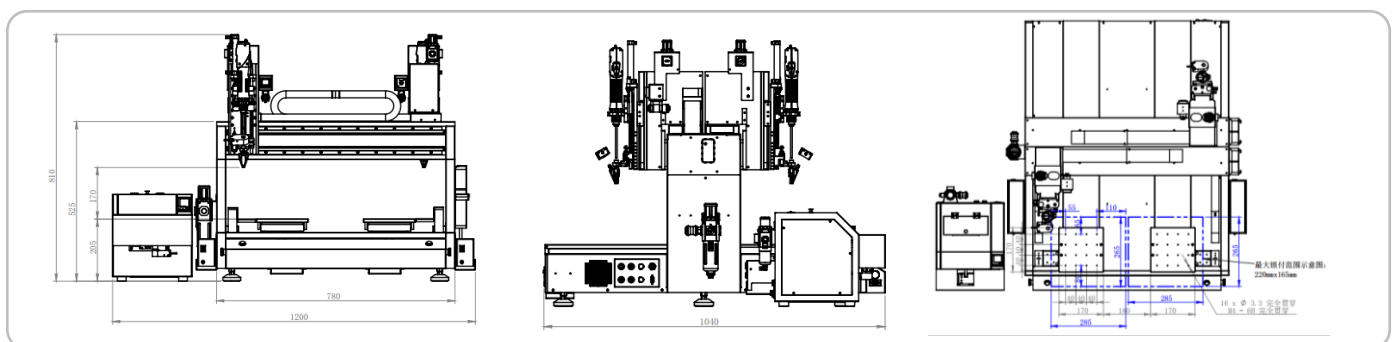
Dimensions:

Semi-Enclosed Workbench

ESC40AC

Dimensions:
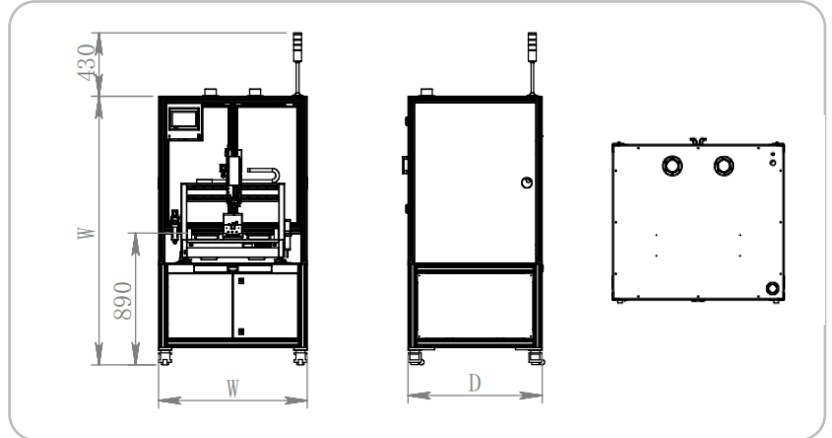
* Without Screw Driving Machine

Specification Table:

Workbench Model	Working Desk Size			Maximum Stroke		Model
	Width (W)	Deep (D)	High (H)	X	Y	
ESC40AB	1000mm	900mm	1800mm	500mm	400mm	ET7583KA
						ET7583KYA
						ET7583KXZA
						ET7583KXYZA
ESC40AC	900mm	900mm	1800mm	400mm	400mm	ET7383K
						ET7483K
						ET7483KXZ

Cartesian Screw Driving Machine

promation

Features:

Movement Control System:
High positioning accuracy, strong load capacity, smooth low-speed operation, good high-speed performance, X/Y/Z Axis double guide rail, accurate operation.

Process Monitoring:
Real time display that can save all data, such as torque curve, torque value, rotation angle, process time, eligibility and more

Intelligent Detection:
Screw defects, such as missing screws, floating screws, and stripped screw conditions can be detected.

Smart Screw Driving Control:
This system can continuously feed screws, maintain an accurate screw count, and prevent screws from being lost, mishandled, or improperly installed.

Data Interaction:
Reserved RS232, RS485, Ethernet port. A variety of communication interfaces, which can communicate with external devices by MES.

HIWIN Module:
Low friction, wear resistance, high precision, high rigidity, high-cost performance.

Specification Table:

Model	Stroke			Dimensions						
	X axis	Y axis	Z axis	Wide (W)	Deep (D)	High (H)	Column height (H1)	Suction nozzle height (H2)	Equipment height (H3)	Configuration Instructions
ET7353K	300mm	300mm	100mm	690mm	680mm	570mm	150mm	180mm	650mm	Closed loop stepping
ET7453KA	400mm	300mm	100mm	790mm	680mm	570mm	150mm	180mm	650mm	Closed loop stepping
ET7353KSF	300mm	300mm	100mm	690mm	680mm	570mm	150mm	180mm	650mm	Servo Motor
ET7453KASF	400mm	300mm	100mm	790mm	680mm	570mm	150mm	180mm	650mm	Servo Motor

Dimensions:

螺丝锁付组件

锁付组件安装示意图