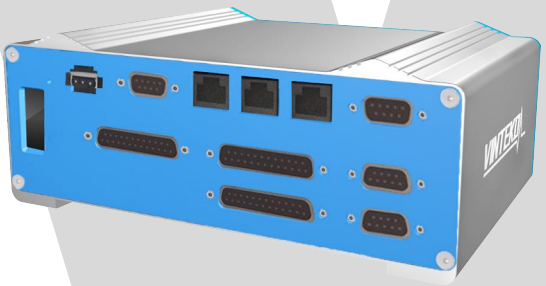
VINTEKO®

VINTEKO Press-Fit System

Solutions for High-Precision and Flexible Press-Fit



About VINTEKO

VINTEKO, established in China in 2013, is a global innovator in delivering solutions for high-precision and intelligent servo press-fit and riveting systems, along with advanced process monitoring systems. As a reliable supplier, VINTEKO is passionate about empowering our customers to achieve remarkable technological advancements, dramatically enhance their production efficiency, and contribute to a sustainable future.

Our vision, to improve the ecological environment and pursue sustainable development, directs our efforts and keeps VINTEKO on track. By providing effective products, we strive to be a player in solving environmental issues. We are committed to providing better quality and service, continuously pursuing excellence and innovation. That's what's earned us the trust of our customers worldwide.

VINTEKO has set up production, sales and service centers in various countries and regions, including China, Germany, Mexico and Thailand. We appreciate mutual recognition and embrace challenges in globalization, confident that diverse teams are instrumental in creating superior solutions.

With over 100 patents, we have won the National Innovation Fund, been honored with the National Intelligent Manufacturing Demonstration Enterprise, and the "little giant" SME. Our products have successfully passed the ISO9001, ISO14001 and ISO45001 and CE certifications.

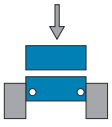
Introduction

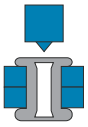
With the rise of Industry 4.0, the demand for precision and intelligence in production has notably increased. High standards for the quality of production processes have extended across various industries, including automotive manufacturing, electronics, and medical devices—every sector that involves precise mechanical assembly.

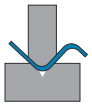
As a leading manufacturer of industrial motion control equipment in China, VINTEKO specializes in the innovation and production of high-precision and intelligent servo press-fit systems and motion process monitoring systems, and consulting services in this field.

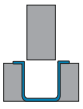
VINTEKO servo press-fit series is designed and developed in accordance with European standards and custom-built for manufacturing companies. It aims to significantly enhance the capabilities of intelligent manufacturing while adhering strictly to the requirements of ISO9001, CE, RoHS, and other quality management systems.

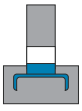
Our Competencies

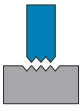

Press- Fitting


Riveting

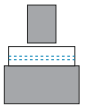

Crimping


Sealing


Compression


Stamping


Cutting


Flatting

VINTEKO servo press system features a highly integrated modular design, combining pressing, assembly, statistics, and analysis into a single advanced system. It is ideal for high-speed, high-precision applications like pressing, riveting, bending, stretching, molding, engraving and calibrating.

Its monitoring interface tracks pressure, displacement, speed and time, ensuring process accuracy and product consistency. Data of the whole pressing process can be integrated with PLC or MES using protocols like I/O, PROFINET, and EtherNet/IP. VINTEKO press-fitting system can be employed in both semi-automatic workstations and fully automatic assembly lines, widely applied in aerospace, automotive manufacturing, auto parts, electronics, home appliances, and new energy industries around the world.

Why Choose VINTEKO Press-fit System

	VINTEKO Press-Fit	Pneumatic / Hydraulic Press
Pressing Speed	Stepless speed regulation, high precision speed control	Limited speed adjustment through the network group, inaccurate speed adjustment, poor adjustment flexibility
Distance & Pressure Control	Keep the speed set by the program	Press-fitting speed according to gas and hydraulic body pressure
Force Transducer	Integrated closed-loop control for timely and effective control of press-in force and displacement	External open-loop control of press-in force and displacement does not allow for timely and effective control
Distance Transducer	Utilizes motor encoders for high accuracy, stability and anti-interference	Sensor external, low precision, poor stability and weak anti-interference
Precise Measurement	The use of motor encoder, high precision, high stability, strong anti-interference	Integrate compatible sensors with poor stability and anti-jamming capabilities
Repeatable Positioning Accuracy	±0.01mm with high accuracy	A specially designed mechanical structure must be implemented
Energy Consumption	Available with more than 90% efficiency driven by servo motors	Lower conversion efficiency, typically around 70%
Compact Footprint	Compact design, about 50% the size of hydraulic press	Relatively large footprint due to placement of hydraulic stations, tanks, etc
Environmental Impact	Electrically driven, low noise and waste-free	Oil leaks, high noise levels, and waste oil disposal problems are common with hydraulic presses.
Maintenance Time	Modular design, only standard module replacement, short maintenance time	More compatible and integrated parts make troubleshooting more difficult and time-consuming
Quality Control	Ensures high consistency of pressure, position and speed parameters for consistent product quality.	Poor repeatability, monitoring comprehensiveness, and timeliness of adjustments
Installation Time	50% ↓	100%
Functionality	300% ↑	100%
Production Capabilites	300% ↑	100%
Design Work Hours	20 Hr ↓	100 Hr
Overall Costs	Low ↓	High
Cost-Effectiveness	High ↑	Low

High-Performance Product

VINTEKO servo press series operates reliably in harsh environments, delivering high strength, speed, and precision. It ensures smooth motion and low noise and features unique over-pressure protection for enhanced safety.

Optimal Replacement for Hydraulic and Pneumatic Cylinders

VINTEKO is a great green, energy-efficient alternative to hydraulic and pneumatic cylinders, and it is easy to connect with PLC and other control systems for precise motion control.

Durability in Harsh Environments

VINTEKO with an IP54 protection rating, servo presses are suitable for demanding environments like paper production, chemical processing, and welding industries.

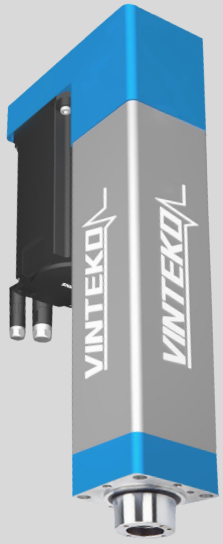
Low Maintenance Cost

VINTEKO servo presses operate in complex environments and require only regular greasing and lubrication, with no wearing parts to replace. This significantly reduces service costs compared to hydraulic systems.

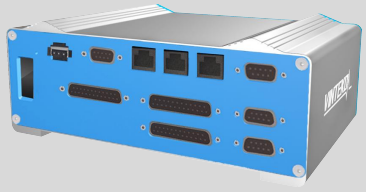
Flexibility

VINTEKO servo presses offer highly flexible installation configurations with various mounting components.They can be installed directly or parallel to servo motors and support additional features like limit switches, planetary gearboxes, and pre-tightened nuts. Compatible with servo motors from Siemens, Bosch Rexroth, ABB, and other manufacturers.

Product Advantages



Servo Press Cylinder



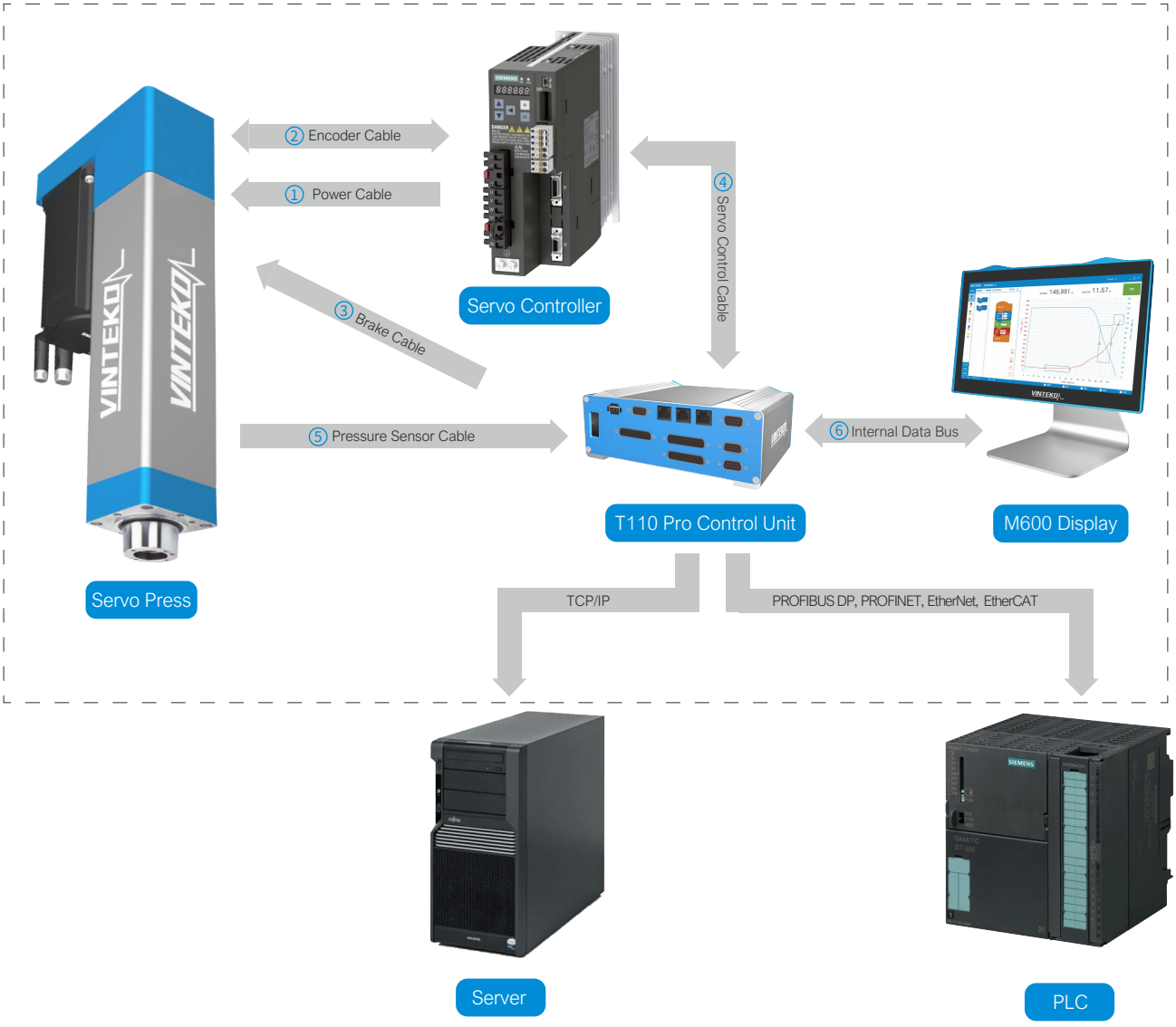
T110 Pro Press Control Unit

M600 Display

- **Pressure control accuracy is** ±0. 5% F. S.;
- **Repeat positioning accuracy is** ±0. 01 mm;
- **Maximum pressure is** 600 kN, maximum stroke is 800 mm, maximum Speed is 400 mm/s;
- **Long Service Life:** Designed lifespan of 10 million cycles, suitable for frequent starts and stops;
- **Rich Interfaces:** Easily integrates with PLC, MES, and other third-party systems for data exchange;
- **Standard Braking System:** All series come with braking systems meeting higher safety requirements;
- **High Precision Controller:** Features 24-bit high-resolution accuracy with a 20 kHz sampling frequency.;
- **Real-Time Display:** Simultaneously displays curves for displacement, pressure, speed and time;
- **Multi-Device Control:** A single display can monitor and control multiple servo presses;
- **Global Certification:** Exported to multiple countries with all press series CE certified;
- **Innovative Tolerance Window:** Unique static/dynamic tolerance window function for consistent product quality;
- **Comprehensive After-Sales Service:** Provides professional and timely support for customers.

Press System Structure

Supports multiple protocols including PROFIBUS DP, PROFINET, EtherNet/IP, and EtherCAT.



① Power Cable (Default length: 10 meters)

② Encoder Cable (Default length: 10 meters)

③ Brake Cable (Default length: 10 meters)

④ Servo Control Cable (Default length: 1 meters)

⑤ Pressure Sensor Cable (Default length: 5 meters)

⑥ Internal Data Bus (Default length: 5 meters)

*For other cable lengths, please confirm with customer service before purchase.

Monitoring And Controlling Modules

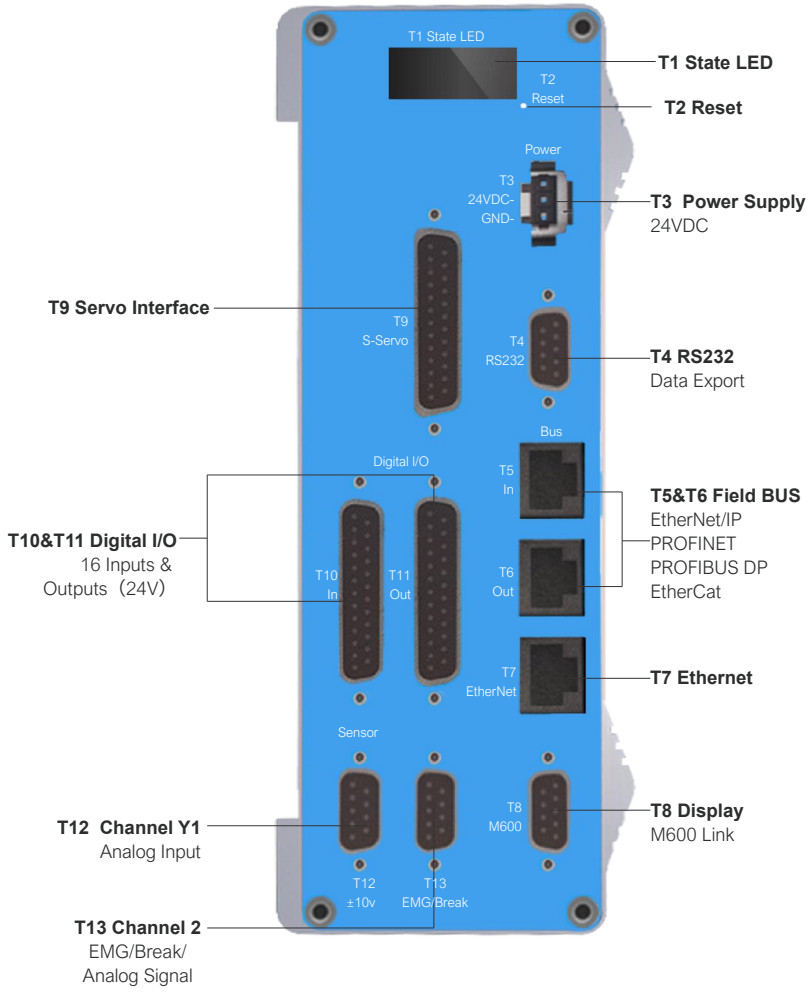
M600 Display | T110 Pro Press Control Unit | Control System

VINTEKO press controller integrates the press system and allows configuration of various parameters via a touch screen or industrial PC. It works with the servo controller to perform operation control, process monitoring, curve evaluation, and data collection and storage. The monitoring system features a high sampling rate, supports multiple bus protocols, and offers a user-friendly interface with multilingual support.

Detailed Parameters

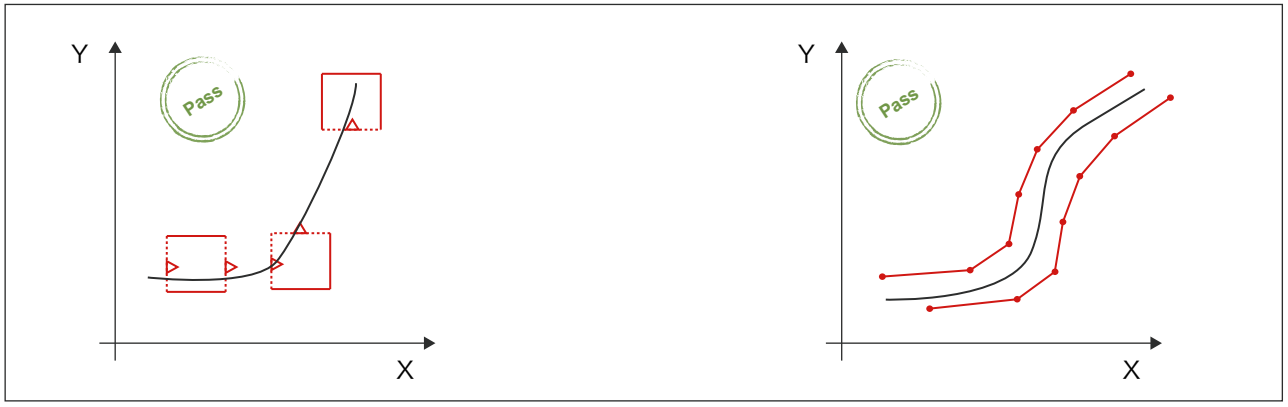
Technical Index	Parameters Description
Channels	2 X and 2 Y channels
Resolution/ Channel	24Bit
Sampling	20 kHz
Sensors	Channel X: Poteniometer, Process signal ±10 V, Incremental TTL, Motor encoder Channel Y: Strain gage, Process signal ±10 V
Evaluation Windows	More than 60 standard types, and Support customization
Bus Interface	PROFIBUS DP, EtherNet/IP, PROFINET, EtherCAT
Storage Interface	TCP/IP, Built-in SD card
Data Output	CSV, QDAS, Excel
Servo Support	SIEMENS, Rexroth, ABB

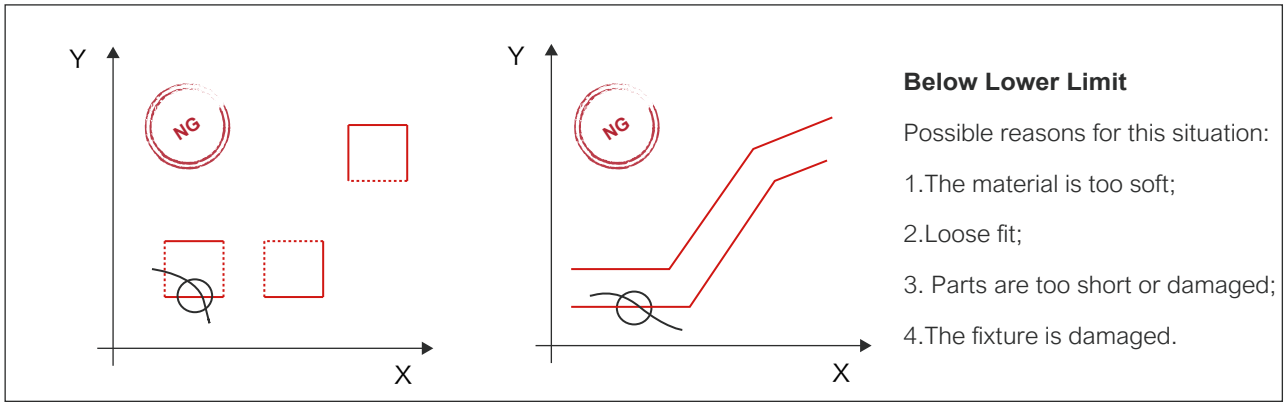
Interface Diagram



Integrated Evaluation Windows

VINTEKO press control system introduces the concept of process evaluation windows, which contain more than 60 types of evaluation windows, to more accurately control the direction of the pressing curve, ensure the pressing process accurately, and effectively control the consistency of product pressing.





Below Lower Limit

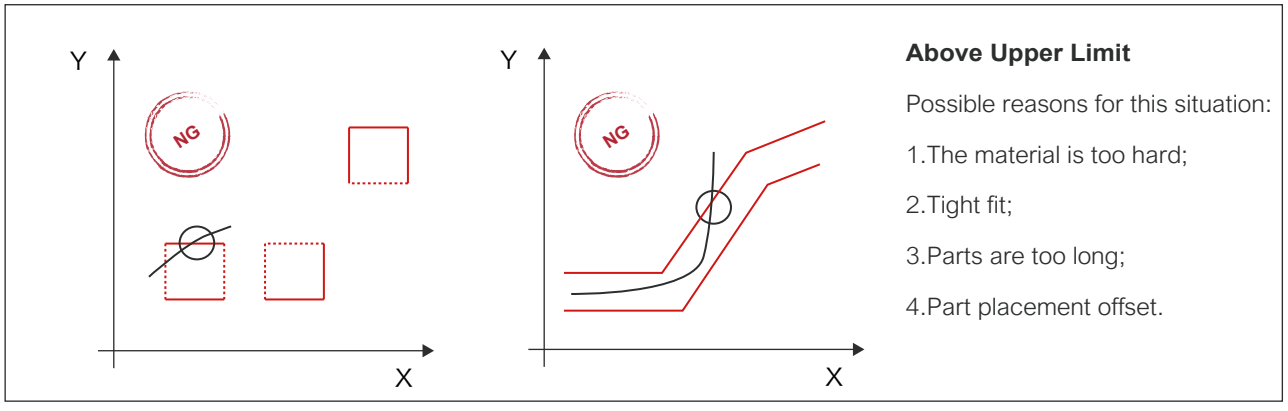
Possible reasons for this situation:

1.The material is too soft;

2.Loose fit;

3. Parts are too short or damaged;

4.The fixture is damaged.



Above Upper Limit

Possible reasons for this situation:

1.The material is too hard;

2.Tight fit;

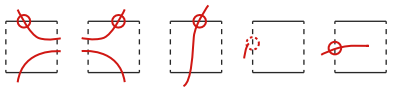
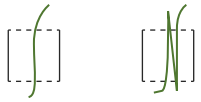
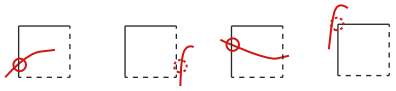
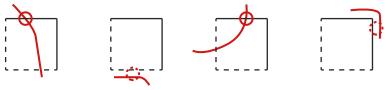
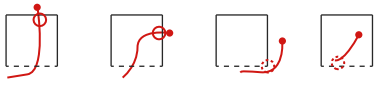
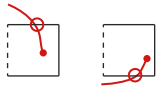
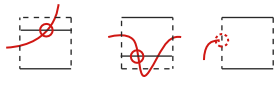
3.Parts are too long;

4.Part placement offset.

* In case of any kind of non-compliance with the parameters set in the process monitoring window, the press brake can be set to stop immediately to protect the equipment and parts from damage and to give a corresponding alarm message in the main program interface and at the PLC's output.

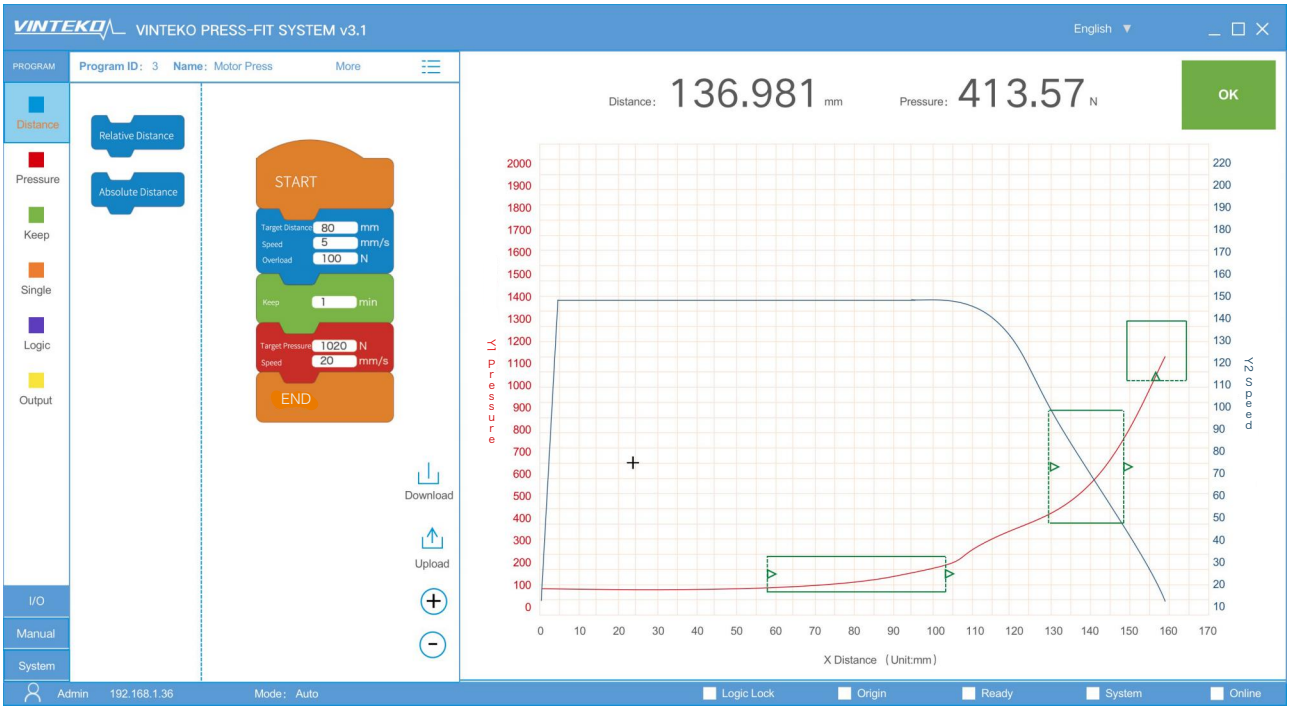
* For the requirements of precision press fitting between inaccurate workpieces and press fitting influenced by frame deformation, VINTEKO servo presses are equipped with unique solutions such as automatic software compensation, system dynamic compensation, and externally triggered stops.

Evaluation Windows

Index	Shape	Name	OK	NOK
1		Max Distance		
2		Max Pressure		
3		Joinning		
4		Right-Bottom Limit		
5		Rising		
6		Top Pressure		
7		Left-Top Limit		
8		Right-Top Limit		
9		Top-End		
10		Right-End		
11		Average Pressure		
12		Turning Point		

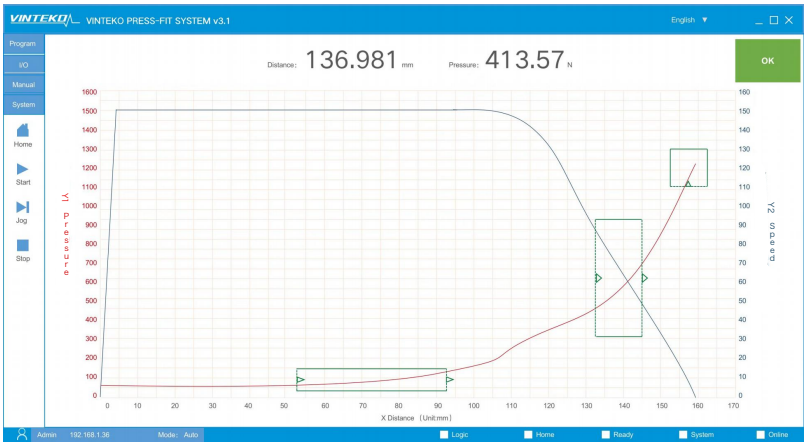
*All evaluation windows can customize the motion direction of the curve, and more types of evaluation windows can befound in the software.

Software Interface



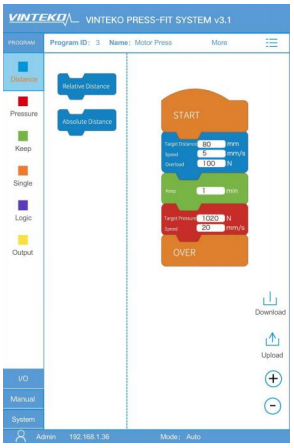
Features

- Blockly programming mode, simple and easy to use;
- More evaluation windows for the pressing process;
- Real-time curves of time, displacement, pressure, and speed;
- Make your pressing more transparent and efficient;
- Support more operating systems, such as MS Windows, Mac OS, Linux and Android.



Real Time Curves

- Time-Pressure curves;
- Displacement-Pressure curves;
- Displacement-Pressure-Speed curves;
- Offline curve analysis.



Function

- Press to absolute/ relative point;
- Press to absolute/ relative pressure;
- Press to wait a signal;
- Keep the pressure;
- Powerful logical computing and analysis capabilities.

Model Description

Example: FKPF - S 140 - 050 - 300 - 200 W L2 - XX

Product Code
FKPF-Joinning System Code

Servo Code
SIEMENS, BOSCH REXROTH, ABB...

Joinning Modules Side Length, Unit: mm
60,80,120,140,160 etc.

Max Output, Unit: kN
0.1-600

Customized Code
PN, I/O

Pressure Sensor Position
1-Outside 2-Inside

Structure Type
W-Bending Z-Integrated

Max Speed, Unit: mm/s
80-400

Stroke, Unit: mm
100-800

*Please contact with your local sales to get the 2D and 3D drawings.

W Series

The W Series is a bending-type design within VINTEKO servo press system lineup. It features a compact installation structure and is suitable for pressing operations with forces ranging from 100 N to 600 kN. The W Series uses a transmission mechanism where the motor drives the screw via a high-strength synchronous belt, making it ideal for press-fitting solutions with high dimensional accuracy requirements.

W Series Features:

- High flexibility and good cost-performance;
- Built-in or external pressure sensors available;
- Suitable for cost-conscious applications with complex processes;
- Ultra-wide pressure measurement range, covering 100 N to 600 kN;
- Extremely short design for horizontal or bottom-up installation;
- High-response overload protection;
- CE safety certification for the whole series.

Technical Index	Parameters Description										
Pressure	100N	500N	1kN	2kN	5kN	10kN	20kN	30kN	50kN	80kN	100kN
Stroke（mm）	300	300	300	400	400	600	600	800	800	800	800
Pressure Control Accuracy	±0.5% F.S.										
Max Speed（mm/s）	400	400	400	400	400	200	200	200	200	100	100
Fixture Weight（kg）	5	5	5	20	35	40	40	50	50	55	55
Practical Repeatability	±0.01mm										
Control Bus	PROFINET, PROFIBUS DP, EtherNet, EtherCAT, IO, RS232, TCP/IP										
IP Grade	IP54										
Voltage Input	AC 220V , DC 24V					AC 380V，DC 24V					

Z Series

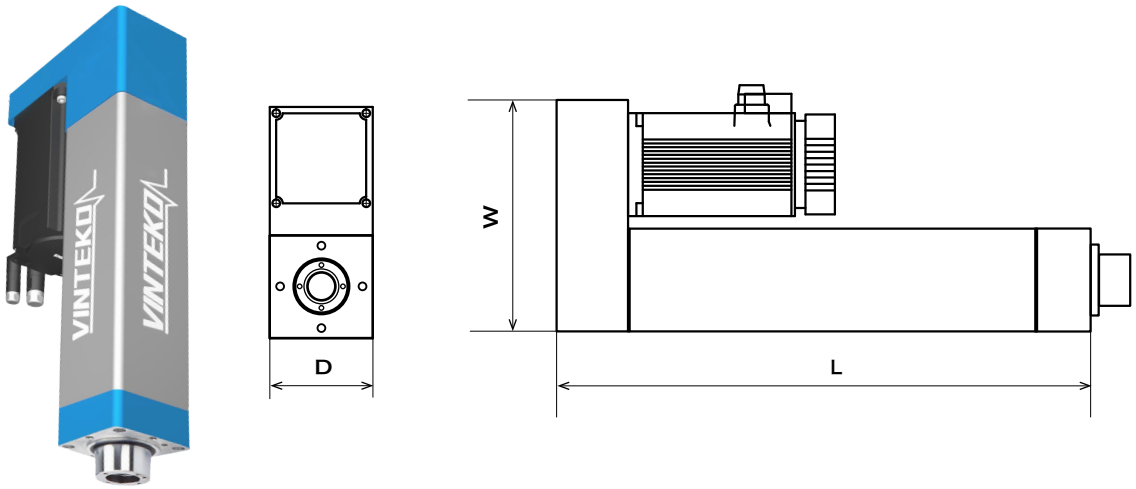
The Z Series servo press is a highly integrated design within the VINTEKO press product family. It features a direct-drive motor with no synchronous belt, offering an extremely compact design. The direct motor drive ensures excellent dynamic performance, while the built-in pressure sensor further enhances overload protection. This series provides customers with compact, high-dynamic response press-fitting solutions.

Z Series Features:

- Suitable for installation in narrow spaces and compact layouts;
- Ultra-wide measurement range, covering 100 N to 600 kN;
- Built-in linear guide for improved guiding accuracy and anti-rotation;
- Exceptional dynamic response capability;
- Standard safety braking module across the entire series;
- CE safety certification for the whole series.

Technical Index	Parameters Description										
Pressure	100N	500N	1kN	2kN	5kN	10kN	20kN	30kN	50kN	80kN	100kN
Stroke（mm）	300	300	300	400	400	600	600	800	800	800	800
Pressure Control Accuracy	±0.5% F.S.										
Max Speed（mm/s）	400	400	400	400	400	200	200	200	200	100	100
Fixture Weight（kg）	5	5	5	20	35	40	40	50	50	55	55
Practical Repeatability	±0.01mm										
Control Bus	PROFINET, PROFIBUS DP, EtherNet, EtherCAT, IO, RS232, TCP/IP										
IP Grade	IP54										
Voltage Input	AC 220V , DC 24V					AC 380V，DC 24V					

W Series Type

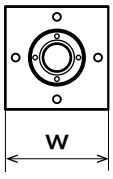


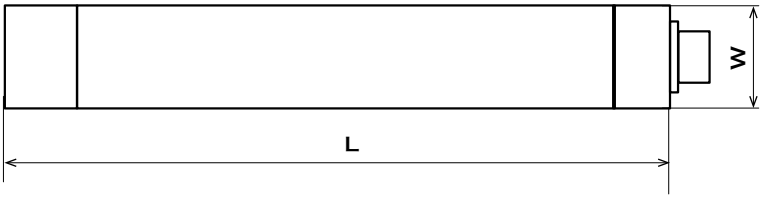
Pressure	Voltage	Type	Stroke	Speed	Size		
					W	D	L
100N	AC220V	FKPF-S060-100-100-400WL1	100	400	140	60	262
		FKPF-S060-100-200-400WL1	200	400	140	60	362
		FKPF-S060-100-300-400WL1	300	400	140	60	462
500N	AC220V	FKPF-S060-500-100-400WL1	100	400	140	60	262
		FKPF-S060-500-200-400WL1	200	400	140	60	362
		FKPF-S060-500-300-400WL1	300	400	140	60	462
1kN	AC220V	FKPF-S060-001-100-400WL2	100	400	180	80	288
		FKPF-S060-001-200-400WL2	200	400	180	80	388
		FKPF-S060-001-300-400WL2	300	400	180	80	488
2kN	AC220V	FKPF-S080-002-100-400WL2	100	400	180	80	288
		FKPF-S080-002-200-400WL2	200	400	180	80	388
		FKPF-S080-002-300-400WL2	300	400	180	80	488
		FKPF-S080-002-400-400WL2	400	400	180	80	588
5kN	AC220V	FKPF-S080-005-100-400WL2	100	400	180	80	288
		FKPF-S080-005-200-400WL2	200	400	180	80	388
		FKPF-S080-005-300-400WL2	300	400	180	80	488
		FKPF-S080-005-400-400WL2	400	400	180	80	588
10kN	AC380V	FKPF-S120-010-100-200WL2	100	200	260	120	415
		FKPF-S120-010-200-200WL2	200	200	260	120	515
		FKPF-S120-010-300-200WL2	300	200	260	120	615
		FKPF-S120-010-400-200WL2	400	200	260	120	715
		FKPF-S120-010-500-200WL2	500	200	260	120	815
		FKPF-S120-010-600-200WL2	600	200	260	120	915

Pressure	Voltage	Type	Stroke	Speed	Size		
					W	D	L
20kN	AC380V	FKPF-S120-020-100-200WL2	100	200	260	120	415
		FKPF-S120-020-200-200WL2	200	200	260	120	515
		FKPF-S120-020-300-200WL2	300	200	260	120	615
		FKPF-S120-020-400-200WL2	400	200	260	120	715
		FKPF-S120-020-500-200WL2	500	200	260	120	815
		FKPF-S120-020-600-200WL2	600	200	260	120	915
30kN	AC380V	FKPF-S140-030-100-200WL2	100	200	322	140	569
		FKPF-S140-030-200-200WL2	200	200	322	140	669
		FKPF-S140-030-300-200WL2	300	200	322	140	769
		FKPF-S140-030-400-200WL2	400	200	322	140	869
		FKPF-S140-030-500-200WL2	500	200	322	140	969
		FKPF-S140-030-600-200WL2	600	200	322	140	1069
		FKPF-S140-030-700-200WL2	700	200	322	140	1169
		FKPF-S140-030-800-200WL2	800	200	322	140	1269
50kN	AC380V	FKPF-S140-050-100-200WL2	100	200	322	140	569
		FKPF-S140-050-200-200WL2	200	200	322	140	669
		FKPF-S140-050-300-200WL2	300	200	322	140	769
		FKPF-S140-050-400-200WL2	400	200	322	140	869
		FKPF-S140-050-500-200WL2	500	200	322	140	969
		FKPF-S140-050-600-200WL2	600	200	322	140	1069
		FKPF-S140-050-700-200WL2	700	200	322	140	1169
		FKPF-S140-050-800-200WL2	800	200	322	140	1269
80kN	AC380V	FKPF-S160-080-100-100WL2	100	100	367	160	647
		FKPF-S160-080-200-100WL2	200	100	367	160	747
		FKPF-S160-080-300-100WL2	300	100	367	160	847
		FKPF-S160-080-400-100WL2	400	100	367	160	947
		FKPF-S160-080-500-100WL2	500	100	367	160	1047
		FKPF-S160-080-600-100WL2	600	100	367	160	1147
		FKPF-S160-080-700-100WL2	700	100	367	160	1247
		FKPF-S160-080-800-100WL2	800	100	367	160	1347
100kN	AC380V	FKPF-S160-100-100-100WL2	100	100	367	160	647
		FKPF-S160-100-200-100WL2	200	100	367	160	747
		FKPF-S160-100-300-100WL2	300	100	367	160	847
		FKPF-S160-100-400-100WL2	400	100	367	160	947
		FKPF-S160-100-500-100WL2	500	100	367	160	1047
		FKPF-S160-100-600-100WL2	600	100	367	160	1147
		FKPF-S160-100-700-100WL2	700	100	367	160	1247
		FKPF-S160-100-800-100WL2	800	100	367	160	1347

*Other model features and installation dimension drawings are available from our sales representative.

Z Series Type





Pressure	Voltage	Type	Stroke	Speed	Size	
					W	L
100N	AC220V	FKPF-S060-100-100-400ZL1	100	400	60	444
		FKPF-S060-100-200-400ZL1	200	400	60	544
		FKPF-S060-100-300-400ZL1	300	400	60	644
500N	AC220V	FKPF-S060-500-100-400ZL1	100	400	60	444
		FKPF-S060-500-200-400ZL1	200	400	60	544
		FKPF-S060-500-300-400ZL1	300	400	60	644
1kN	AC220V	FKPF-S080-001-100-400ZL2	100	400	80	467.5
		FKPF-S080-001-200-400ZL2	200	400	80	567.5
		FKPF-S080-001-300-400ZL2	300	400	80	667.5
2kN	AC220V	FKPF-S080-002-100-400ZL2	100	400	80	467.5
		FKPF-S080-002-200-400ZL2	200	400	80	567.5
		FKPF-S080-002-300-400ZL2	300	400	80	667.5
		FKPF-S080-002-400-400ZL2	400	400	80	767.5
5kN	AC220V	FKPF-S080-005-100-400ZL2	100	400	80	467.5
		FKPF-S080-005-200-400ZL2	200	400	80	567.5
		FKPF-S080-005-300-400ZL2	300	400	80	667.5
		FKPF-S080-005-400-400ZL2	400	400	80	767.5
10kN	AC380V	FKPF-S120-010-100-200ZL2	100	200	120	715
		FKPF-S120-010-200-200ZL2	200	200	120	815
		FKPF-S120-010-300-200ZL2	300	200	120	915
		FKPF-S120-010-400-200ZL2	400	200	120	1015
		FKPF-S120-010-500-200ZL2	500	200	120	1215
		FKPF-S120-010-600-200ZL2	600	200	120	1315

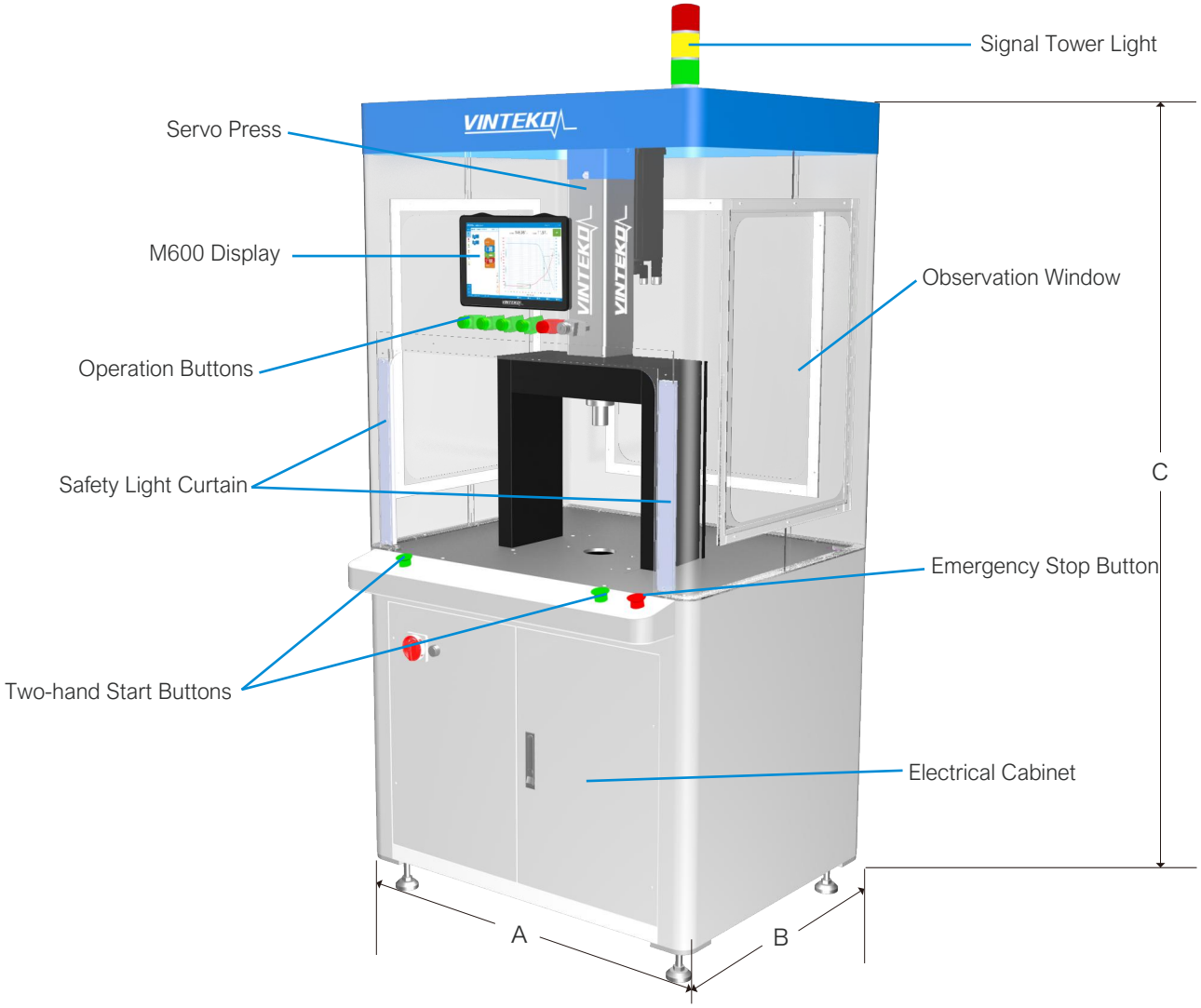
Pressure	Voltage	Type	Stroke	Speed	Size	
					W	L
20kN	AC380V	FKPF-S120-020-100-200ZL2	100	200	120	783
		FKPF-S120-020-200-200ZL2	200	200	120	883
		FKPF-S120-020-300-200ZL2	300	200	120	983
		FKPF-S120-020-400-200ZL2	400	200	120	1083
		FKPF-S120-020-500-200ZL2	500	200	120	1183
		FKPF-S120-020-600-200ZL2	600	200	120	1283
30kN	AC380V	FKPF-S140-030-100-200ZL2	100	200	140	1082.5
		FKPF-S140-030-200-200ZL2	200	200	140	1182.5
		FKPF-S140-030-300-200ZL2	300	200	140	1282.5
		FKPF-S140-030-400-200ZL2	400	200	140	1382.5
		FKPF-S140-030-500-200ZL2	500	200	140	1482.5
		FKPF-S140-030-600-200ZL2	600	200	140	1582.5
		FKPF-S140-030-700-200ZL2	700	200	140	1682.5
		FKPF-S140-030-800-200ZL2	800	200	140	1782.5
50kN	AC380V	FKPF-S140-050-100-200ZL2	100	200	140	1100.5
		FKPF-S140-050-200-200ZL2	200	200	140	1200.5
		FKPF-S140-050-300-200ZL2	300	200	140	1300.5
		FKPF-S140-050-400-200ZL2	400	200	140	1400.5
		FKPF-S140-050-500-200ZL2	500	200	140	1500.5
		FKPF-S140-050-600-200ZL2	600	200	140	1600.5
		FKPF-S140-050-700-200ZL2	700	200	140	1700.5
		FKPF-S140-050-800-200ZL2	800	200	140	1800.5
80kN	AC380V	FKPF-S160-080-100-100ZL2	100	100	160	1251
		FKPF-S160-080-200-100ZL2	200	100	160	1351
		FKPF-S160-080-300-100ZL2	300	100	160	1451
		FKPF-S160-080-400-100ZL2	400	100	160	1551
		FKPF-S160-080-500-100ZL2	500	100	160	1651
		FKPF-S160-080-600-100ZL2	600	100	160	1751
		FKPF-S160-080-700-100ZL2	700	100	160	1851
		FKPF-S160-080-800-100ZL2	800	100	160	1951
100kN	AC380V	FKPF-S160-100-100-100ZL2	100	100	160	1251
		FKPF-S160-100-200-100ZL2	200	100	160	1351
		FKPF-S160-100-300-100ZL2	300	100	160	1451
		FKPF-S160-100-400-100ZL2	400	100	160	1551
		FKPF-S160-100-500-100ZL2	500	100	160	1651
		FKPF-S160-100-600-100ZL2	600	100	160	1751
		FKPF-S160-100-700-100ZL2	700	100	160	1851
		FKPF-S160-100-800-100ZL2	800	100	160	1951

*Other model features and installation dimension drawings are available from our sales representative.

Smart Press-Fit Workstation

VINTEKO Smart Press-Fit Single Station is a turnkey solution for customers based on VINTEKO servo press-fit components and systems. It automates the execution of high-precision press-fit processes from the production line, and with VINTEKO's proven press-fit solutions, further reduces production costs, improves assembly quality, and saves customers resources.

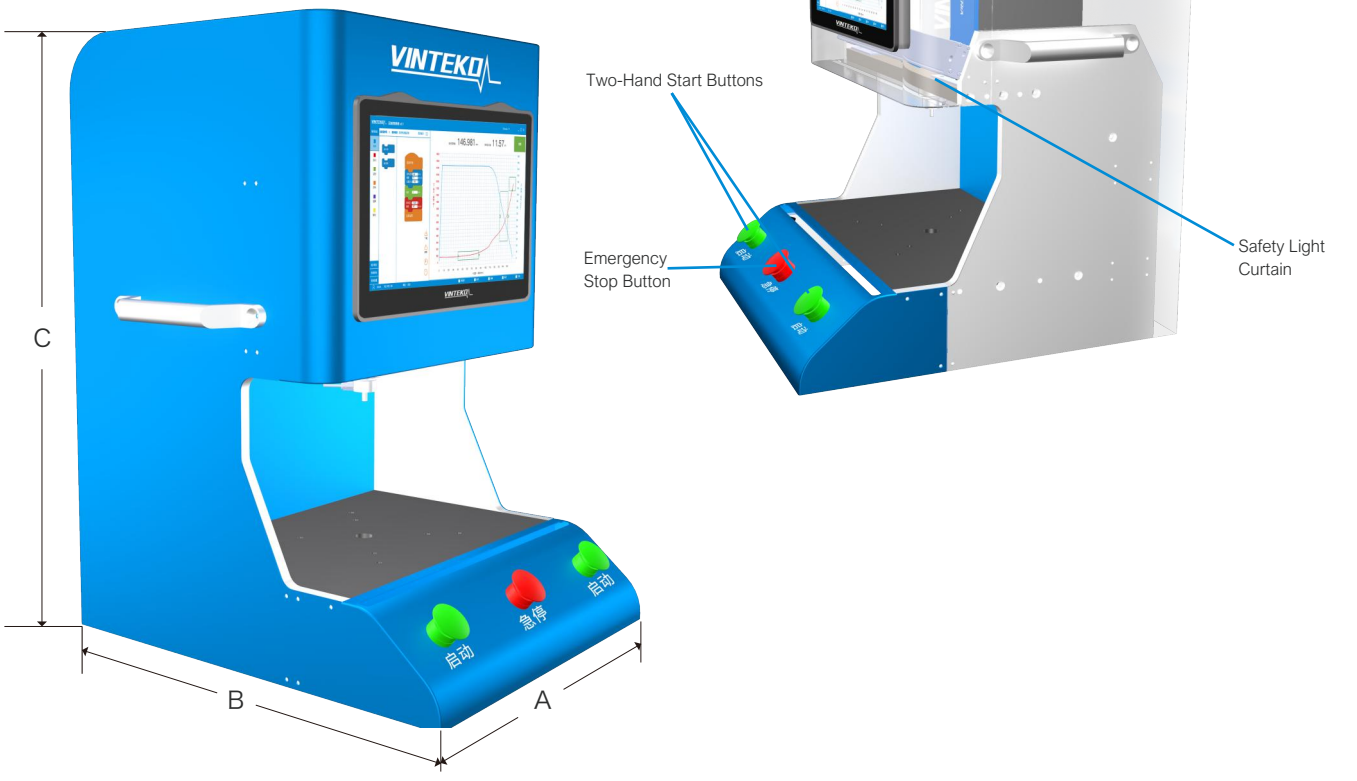
It is used for a wide range of high-precision press-fit processes, such as pressing, riveting, and fastening. Thanks to the highly integrated modular design, manual workstations, automatic C-frame workstations, or two- or four-column workstations can be easily integrated. This solution is flexible, convenient, and economical for all customer applications while providing customers with professional design, consulting, and service.



Model	Pressure	Stroke	Length (A)	Width (B)	Height (C)
PS-103	10 kN	300	1000	800	2000
PS-203	20 kN	300	1000	800	2000
PS-304	30 kN	400	1000	800	2000
PS-505	50 kN	400	1000	800	2000

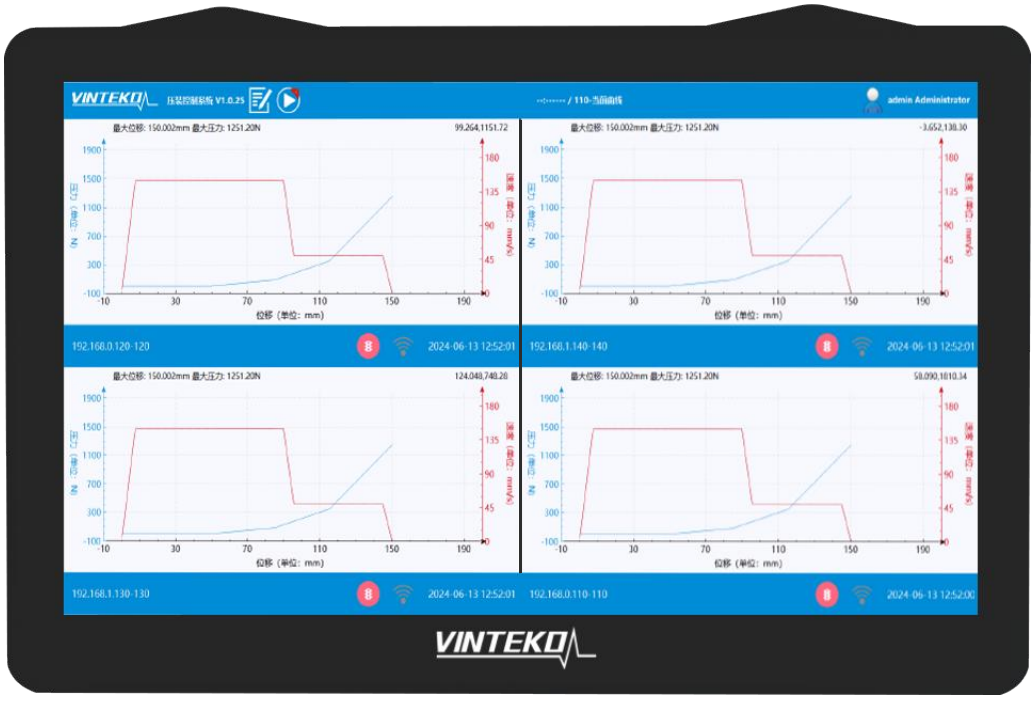
Desktop Servo Press

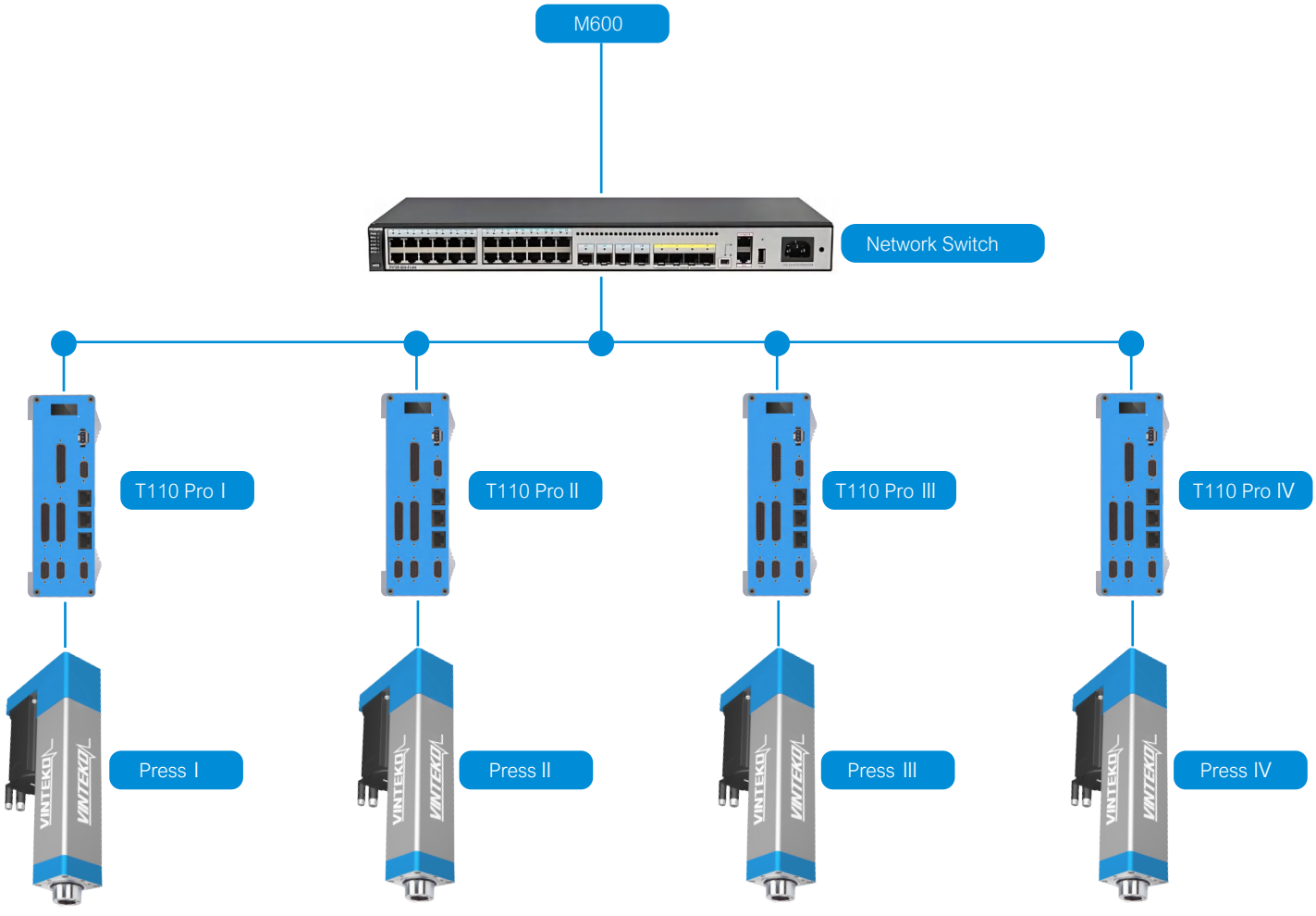
VINTEKO servo presses are not only suitable for the assembly processes of large modules but also offer dedicated solutions for assembling small parts and electronic components, while maintaining consistent pressing precision.To ensure a perfect fit for small components, the VINTEKO desktop servo press incorporates comprehensive "process monitoring." With the help of multiple built-in sensors, it utilizes a dual closed-loop control of force and displacement to address hidden issues such as tolerances, equipment instability, and process defects, which are often overlooked in traditional pneumatic and hydraulic systems. This ensures 100% pressing quality.



Model	Pressure	Stroke	Length(A)	Width(B)	Height(C)
PT-051	500 N	100	400	480	640
PT-052	500 N	200	400	480	800
PT-101	1000 N	100	400	480	640
PT-102	1000 N	200	400	480	800
PT-202	2000 N	200	400	480	850
PT-502	5000 N	200	400	480	850

Multi-unit Control System



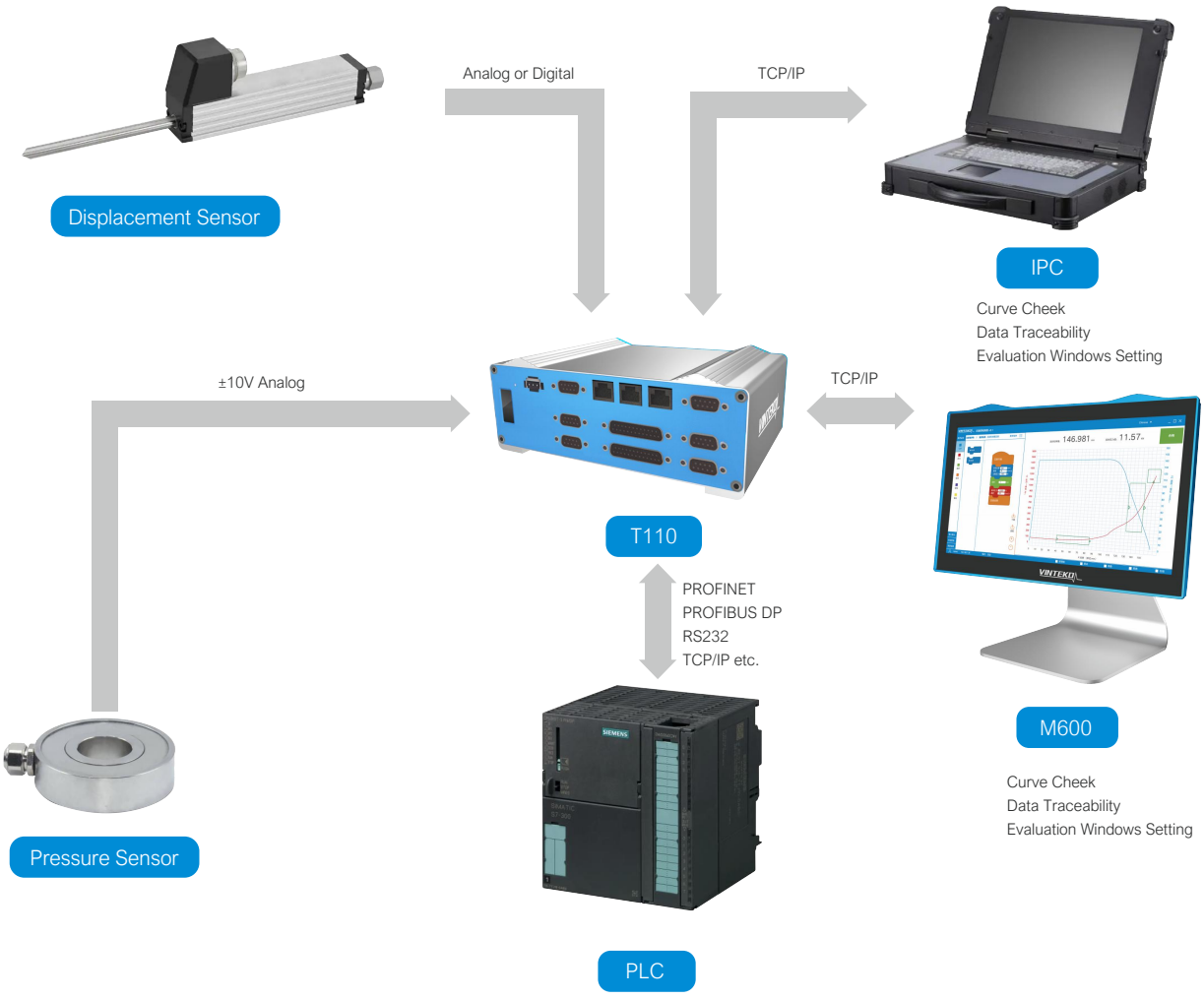


Process Monitoring System T110

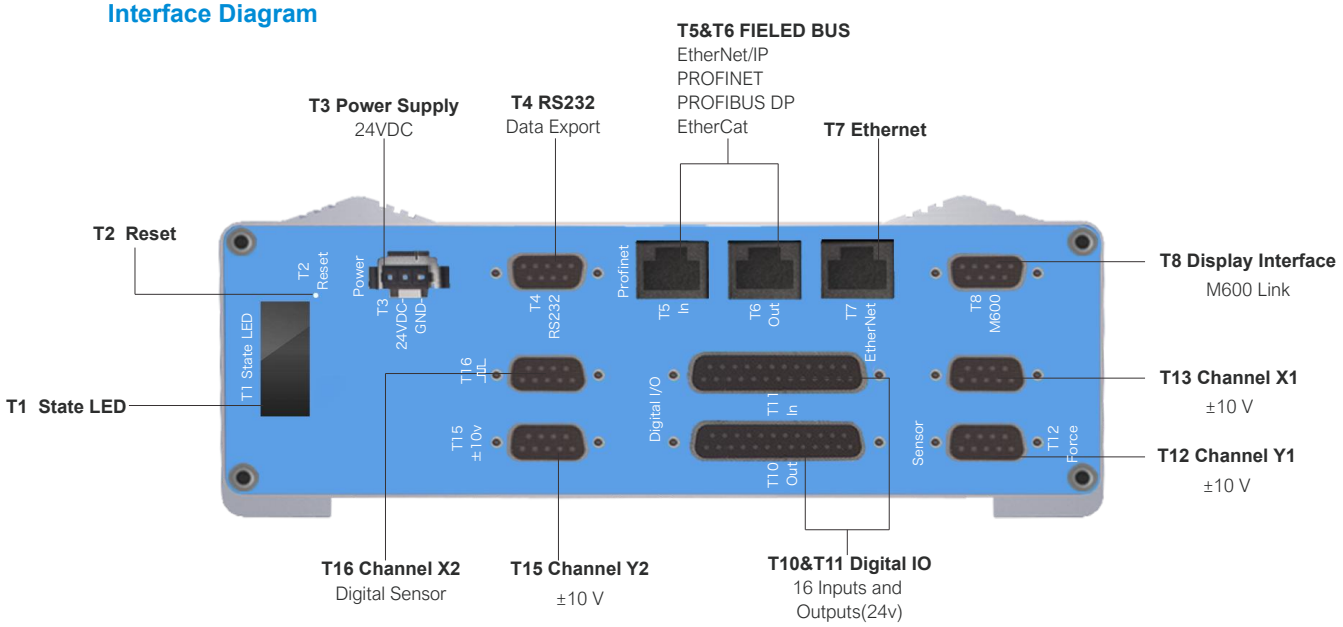
The T110 press fitting monitoring system combines the accurate collection and monitoring of press fitting force and displacement data in the press-fitting process, utilizing a wealth ofeveluation window to achieve the goal of accurate press fitting and manufacturing defect-free parts with zero defects.

It can be applied to the traditional pneumatic and hydraulic systems to provide full process visualization, data trace-ability, and more accurate judgment of the press-fitting process.

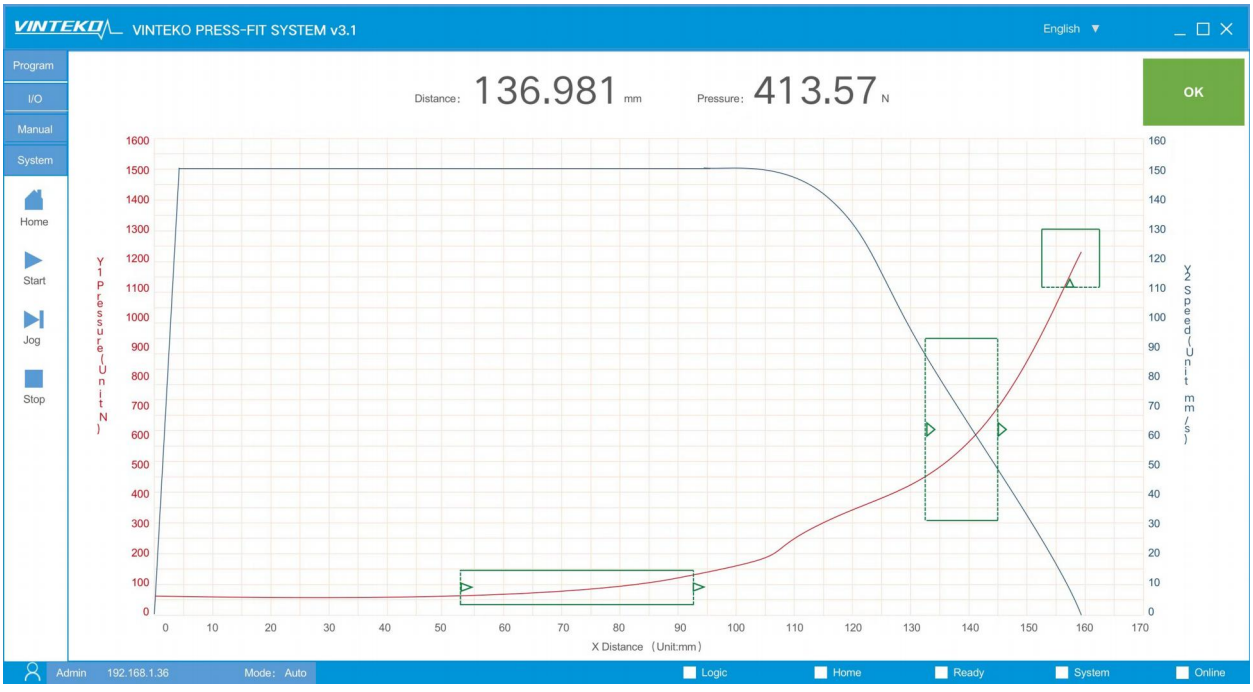
T110 Connection Structure



Interface Diagram



T110 Process Monitoring System



Features

- Innovative Modular Programming Mode, exceptionally simple and user-friendly;
- Comprehensive Monitoring: Powerful press process monitoring windows for detailed judgment;
- Real-Time Curve Display: Displays force-displacement curves in real-time with trend analysis;
- The entire pressing process can be traced and over 10 million pressing history curves can be saved;
- Integrated Software: Includes tracking, MES interaction, and analysis functions in one package;
- Enhanced Visualization: Enables full-process visualization for traditional pneumatic and hydraulic systems;
- Multi-Platform Support: Compatible with MS Windows, MacOS, and Linux operating systems.

HI-2300 Handled Pressure/Torque Tester

The HI-2300 is a hand-held testing instrument for rapid on-site acquisition of high-precision data for pressure, dynamic torque, and corner testing, calibration, and scaling in industrial applications, such as hand tools, power tools, pneumatic tools, tightening machines, servo presses, and other equipment that contain torque sensors or pressure sensors.

- Display accuracy is 0.05%;
- Various units is Nm, lbf.in, lbf.ft, kgf.m, kgf.cm, N, kN;
- Various operation modes: Free, Peak, First Peak, Review, Torque + Angle;
- The battery lasts up to 16 hours and USB charging takes less than 3 hours;
- Data export via USB;
- Stores up to 130 programs and 10,000 test data sets;
- Capable of testing pneumatic tools, tightening machines, manual tools, and servo presses;

Sensor Series

VK-VDT1 Dynamic Torque Sensor

Strong anti-interference, high precision, good stability and easy to install.Applied to the inspection of power tools, hand tools, pneumatic tools and other products.

Specifications	Technical Indicators	Unit
Measurement Range	0.2...3000	N.m
Torque Signal	±0.5	%F.S
Accuracy Level	≦3000	RPM
Repeatability	±0.05	%F.S
Safety Overload	150	%

VK-VPS6 Pressure Sensor

With a central convex point for focused force application and excellent anti-eccentric load capability.Used in automotive scales, railroad scales, pressure testing machines and others in automated measurement and control fields.

Specifications	Technical Indicators	
Measurement Range	50...15000	
Non-Linearity	±0.2	Kg
Repeatability	±0.1	%F.S
Safety Overload	150	%F.S
Ultimate Overload	200	%
		%

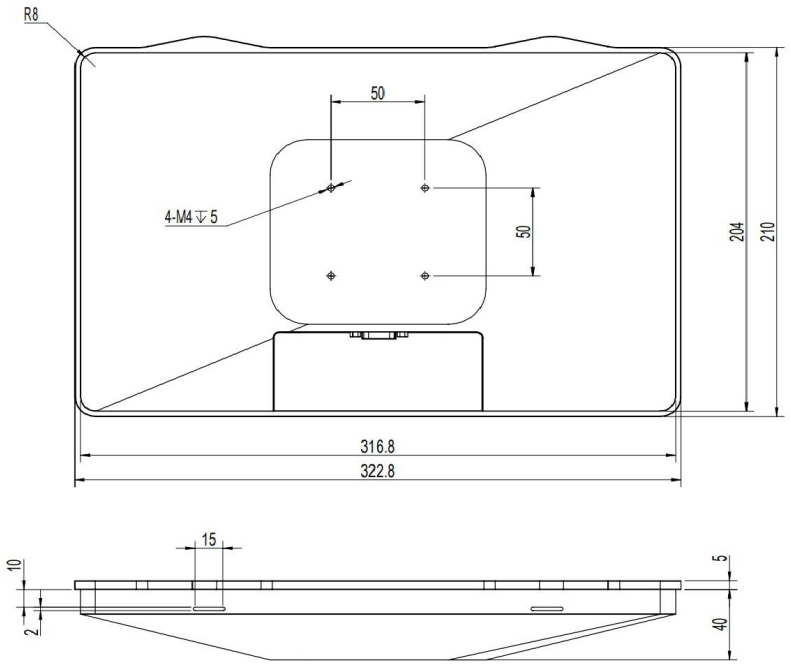
VK-SPS11 Pressure Sensor

High precision, small error, wide range, and high resolution.Applied to position detection of various types of equipment, such as injection molding machines, die-casting machines, rubber machines, hydraulic presses, etc.

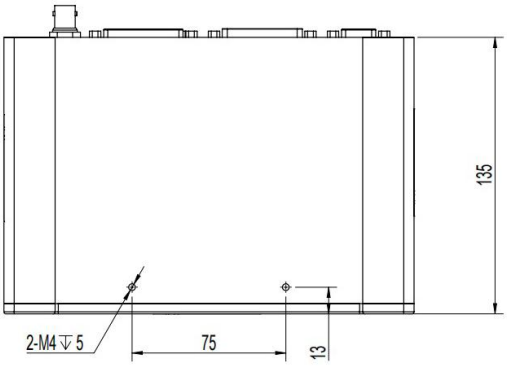
Specifications	Technical Indicators	Unit
Linear Stroke	50-110,125-175,200-550,600-1250	mm
Linearity	0.1,0.05,0.05,004	±%
Length	Range+78.5	mm
Stroke	Range+8	mm
Electric Stroke	Range+3	mm
Repeatability	±0.01	%F.S

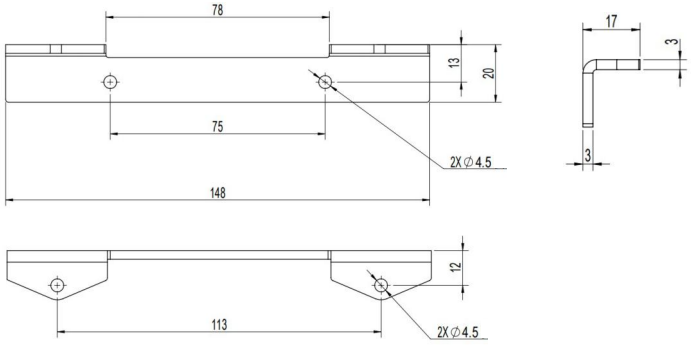
*For other models, please contact sales.

M600 Specifications & Dimensions

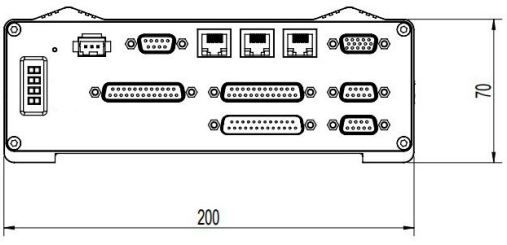


T110/T110 Pro Specifications & Dimensions





*The above image shows the T110 / T110 Pro installation accessories diagram.



*All dimensions indicated above are in mm.

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