

Servo feeder for stamping press

Variax OPUS 2 Series



Servo feeder provides basic performance at low cost



Variax OPUS 2 Series

The Variax OPUS2 series are servo feeders for presses that are optimized to produce the electric motor cores used in EV motors and other industrial-use motors.

Compared to our OPUS1 series high-end Variax model, this series is lighter and more compact.

Due to the use of dual roller drives, it offers stable material feeding of various materials (wide, thin, or soft materials) with a low gripping force.

Since the models in this series have a large opening and a detachable lower cover, the rollers can be cleaned easily.

Features

- Easy-start operation
- Excellent safety features and security system
- Global support for many languages and services
- Make it possible to transport a variety of plate materials, including wide, thin, and soft materials, as well as plates up to 5 mm thick.

Major Features:

Rapid stroke max. 1000min ⁻¹	High-speed feed more than 80m/min	Material width max. 650mm	Material thickness max. 5mm
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Applicable Material Shapes:

Thin plate	Materials with different shapes	Wire materials
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Product lines

Servo feeder for stamping press

Variax OPUS 2 Series

OPUS 2R-200H

OPUS 2R-300H

OPUS 2R-450H

OPUS 2R-650H

OPUS 2R-200T

OPUS 2R-300T

OPUS 2R-450T

OPUS 2R-650T



Peripheral equipment

An indexing/skewing drive system for rotating the motor cores used for electric motors in home electrical appliances.

Servo-dex EVR2 Series

EVR2-75

EVR2-150

EVR2-300

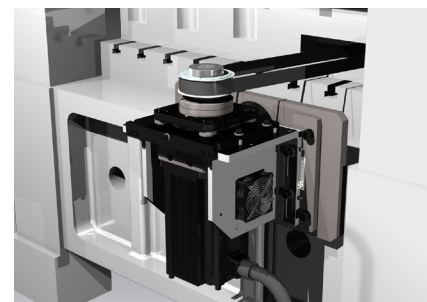
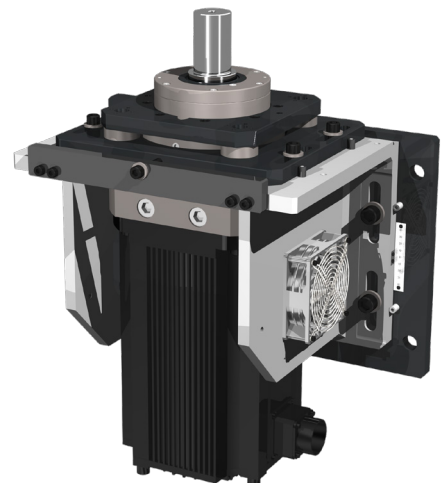
The Servo-dex EVR2 series is the optimum indexing / skewing drive system in press lines to produce the electric motor cores used in EV motors and other industrial-use motors. It is optimal for electric motor core production press lines that make motors for home appliances, such as air conditioners and general-purpose motors.

It reduces mold maintenance by suppressing vibration when stopping a workpiece with high-precision positioning.

This series can easily be controlled using a timing signal, and various control patterns are now also available.

Features

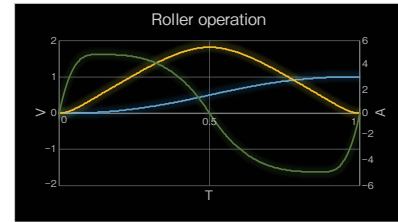
- Outstanding reliability due to our original vibration damping design
- Supports optional stacking angle settings and various types of control patterns
- Stacking operation triggered by the timing signal
- Built in preventive maintenance and diagnostic functions to support IoT compatibility
- The combination of a servo driven feeder and a servo-dex device results in maximum motor core line optimization.
Servo tuning automatically adjusts the gain according to the mold's load.



Features

Specifications: optimum for use on EV motor core and industrial-use motor core press lines

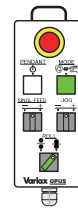
- By feeding materials appropriately using a servomotor, high-precision ($\pm 0.03\text{mm}$ or better) material feeding is achieved at high speed (80m/min. or faster)
- Contributes to productivity and improving yield



Action well suited for feeding material

Easy-start operation

- After the power is turned on, it can be interlocked with a press by using a remote pendant
- Feed settings are switched easily by entering a parameter on the automatic operation setting screen (user level 1 or higher)



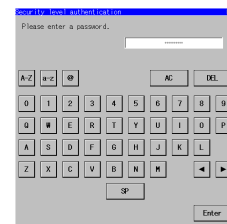
Remote pendant



Automatic operation setting screen

Safety system with excellent operability

- Control 3 levels of user privileges using passwords
 - Level 0: Group setting switching prohibited
 - Level 1: Group setting switching permitted
 - Level 2: Group setting editing permitted



Password authentication

Exceptional quality and reliability

- Guaranteed reliable and stable operation due to our 40 years of experience with feeder development and the use of our proprietary technology
- Actual feed accuracy ± 0.03 mm
- Patented design to protect against press vibration
- Patented damping construction to protect the feed device

Safety function

- When an emergency stop signal is input, this function instantly cuts off power to the motor and stops all operation
- Supports a hold-to-run function
- Roll release function when jamming occurs (option)
- End-of-material detection signal output (optional)



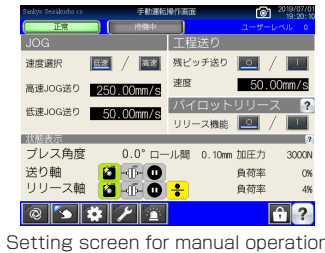
Abnormal status display



Abnormality occurred history display

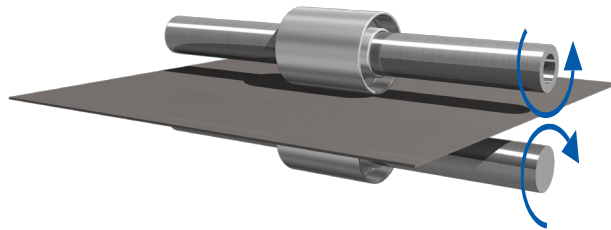
Various display functions

- Display the load factor of the feed motor and the release motor
- Displays the feed range and release range of the feeder
- Display the current angle of the press



Can feed wide, thin, and soft materials

- Due to the use of dual roll drives, it can reliably feed materials with a lower gripping force



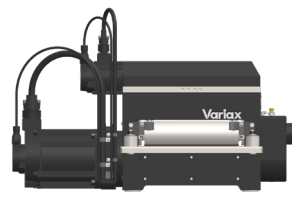
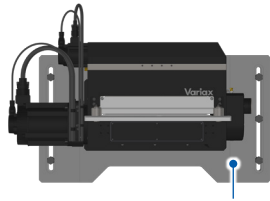
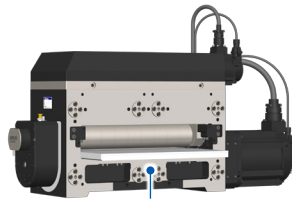
Global support for many language and services

- Languages: Japanese, English, and Chinese
- We have service people living in Japan, the USA, China, Korea, Thailand, and India



Easy to install in a press

- Standardized side mounting and bracket mounting on presses
- The main body can be used for either left or right side mounting



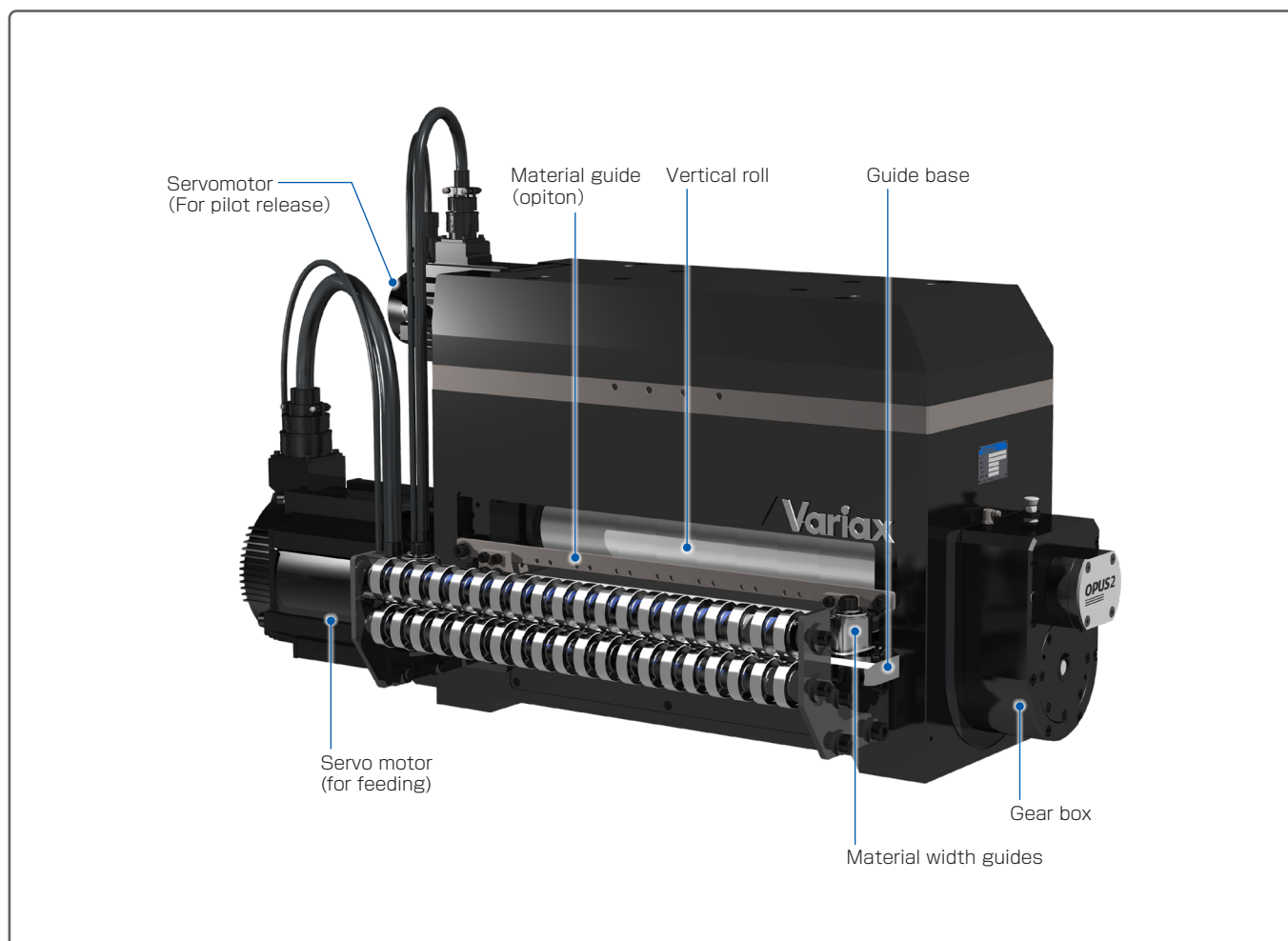
Greatly improved roll cleaning ability

- Easy access to the rolls through the large opening



Feeder specification

Feed components



Specification table

Model name	Unit	General specifications (OPUS2R-H)				Thick plate specification (OPUS2R-T)			
		OPUS2R-200H	OPUS2R-300H	OPUS2R-450H	OPUS2R-650H	OPUS2R-200T	OPUS2R-300T	OPUS2R-450T	OPUS2R-650T
Material width	mm	Max 200	Max 300	Max 450	Max 650	Max 200	Max 300	Max 450	Max 650
Feed length	mm	1-999*1							
Material thickness	mm	Max 2				Max 5(4.7)*4			
Clamping force	N	1,500~3,000		3,000~5,000		1,500~3,000		3,000~5,000	
Pilot release length	mm	0.1				0.5(1.0)*2			
Roll opening dimension	mm	max 5.7							
Maximum press speed	min ⁻¹	1,000		500		600(300)*3		500(300)*3	
Pilot release angle	deg	90~180		50~180		90~180			
Maximum feed speed	m/min	60*1		80*1		60*1		80*1	
Repeat accuracy	mm	±0.03							
Operating air pressure	MPa	0.5~0.6							
Paint color		N1.5(Black)							
Product weight	kg	170	190	260	310	170	190	260	310

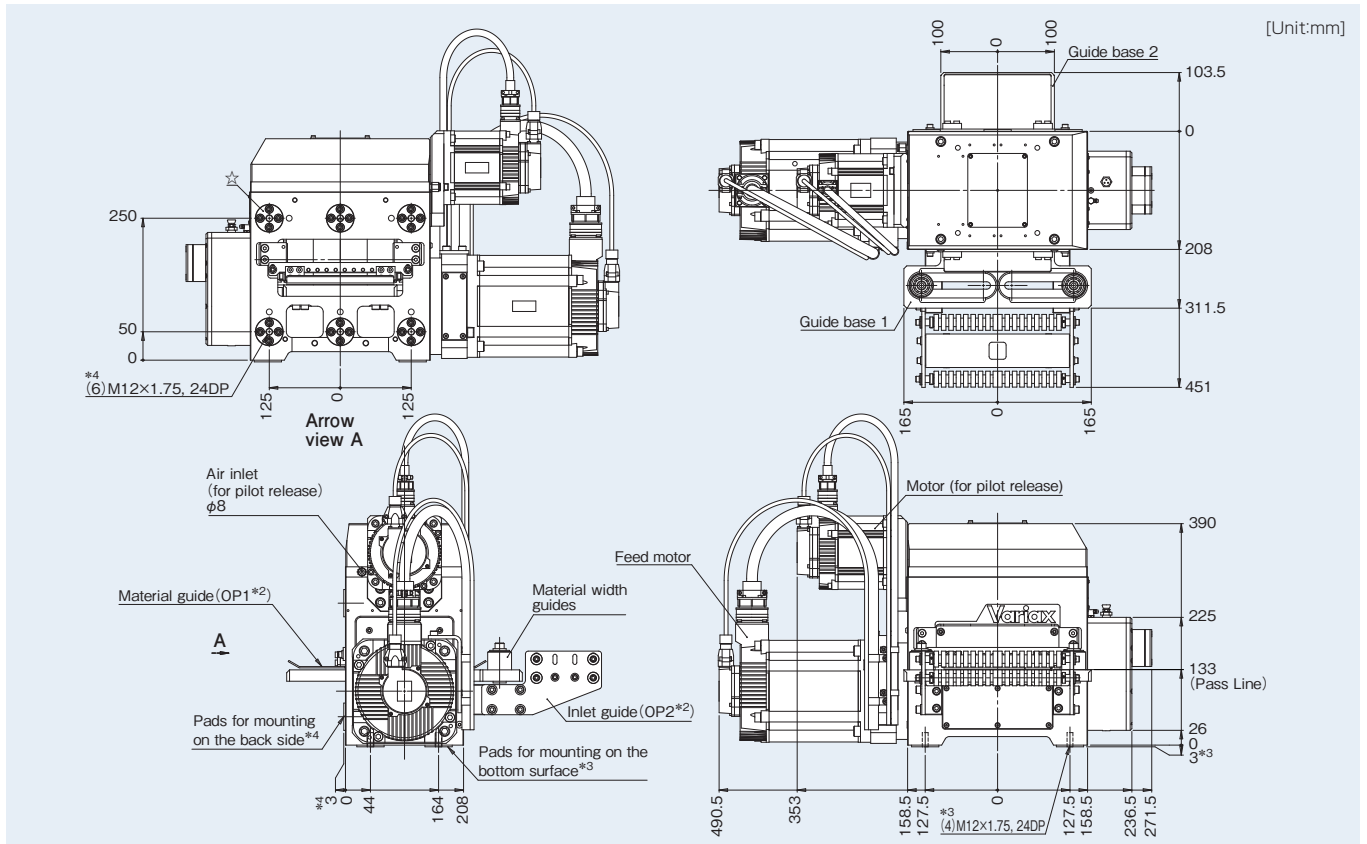
*1 Please check the separate feed capacity diagram. *2 A pilot release amount of 1.0 mm is available as an option.

*3 When the pilot release amount is 1.0 mm, the maximum press speed will be 300 min⁻¹.

*4 If the pilot release amount is 1.0, the upper limit for the material thickness will be 4.7 mm.

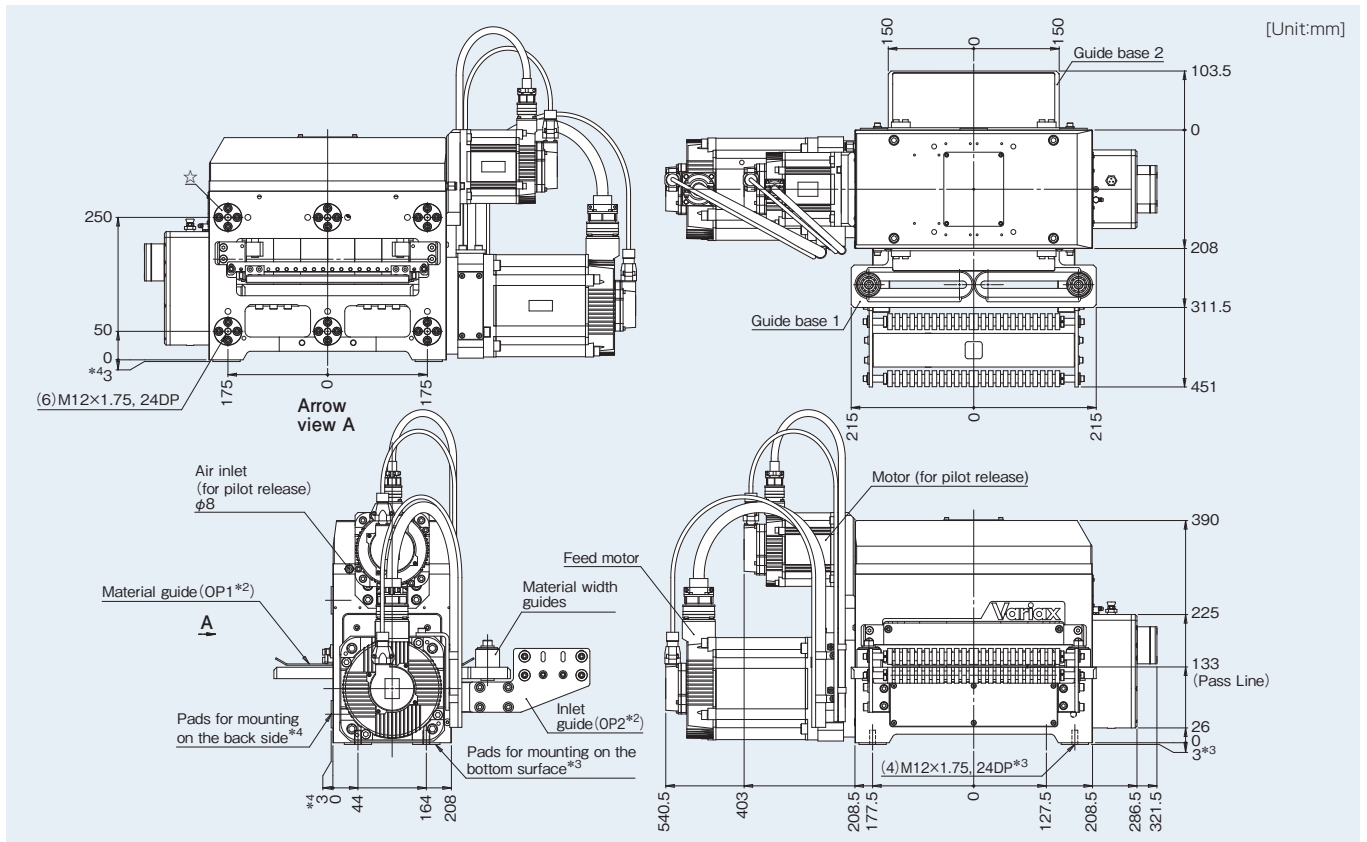
Dimensional drawing OPUS2R-200H(T)/300H(T)

OPUS2R-200H(T)



*1 This drawing shows the L type specification motor mounting direction. *2 "OP1" and "OP2" indicate that the option is installed. *3 Mounting surface L: Shows the bottom mounting specifications. Install the bottom mounting pads. Positions marked with a ☆ have covers. *4 Mounting surface B: Shows the back-side mounting specifications. Install the back-mounting pads.

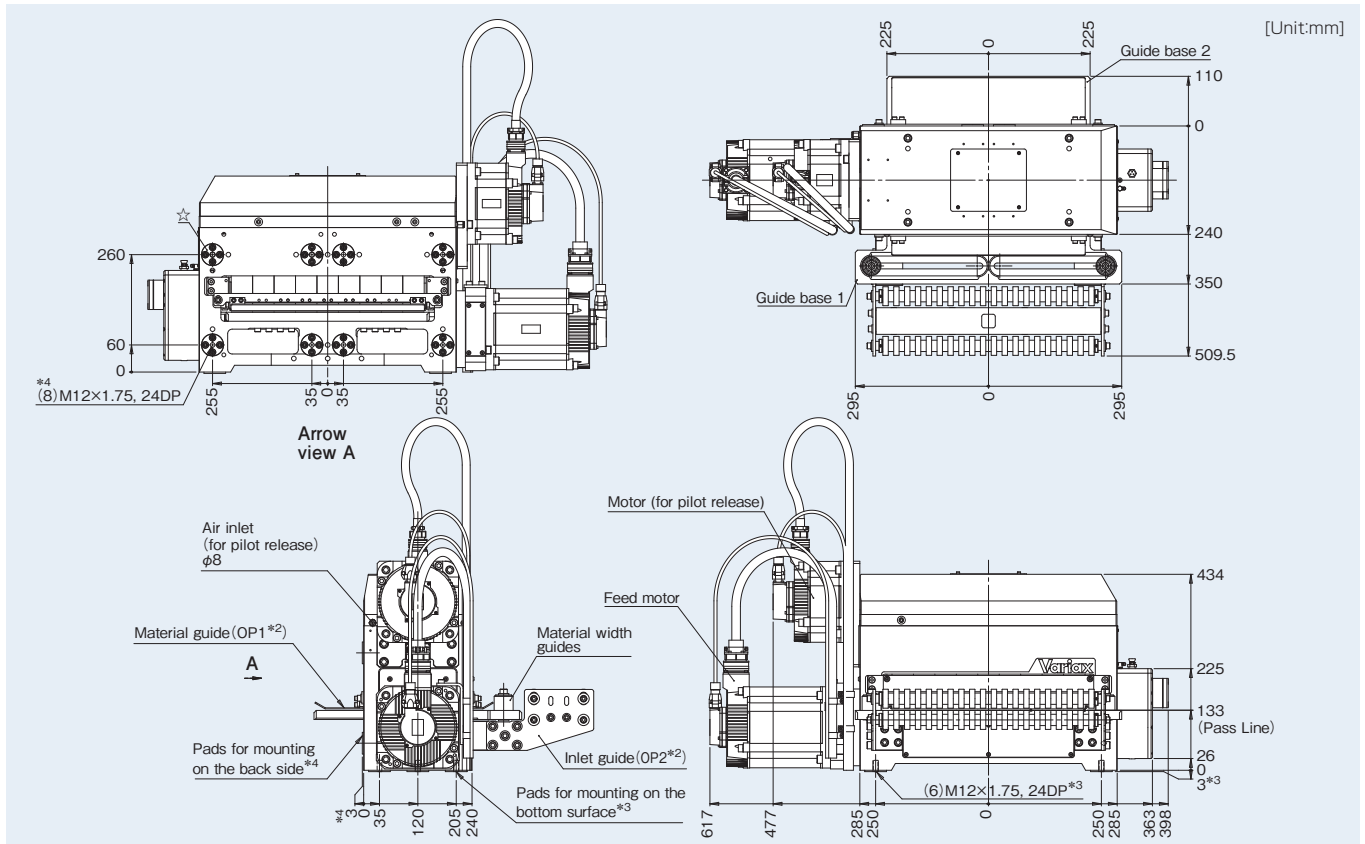
OPUS2R-300H(T)



*1 This drawing shows the L type specification motor mounting direction. *2 "OP1" and "OP2" indicate that the option is installed. *3 Mounting surface L: Shows the bottom mounting specifications. Install the bottom mounting pads. Positions marked with a ☆ have covers. *4 Mounting surface B: Shows the back-side mounting specifications. Install the back-mounting pads.

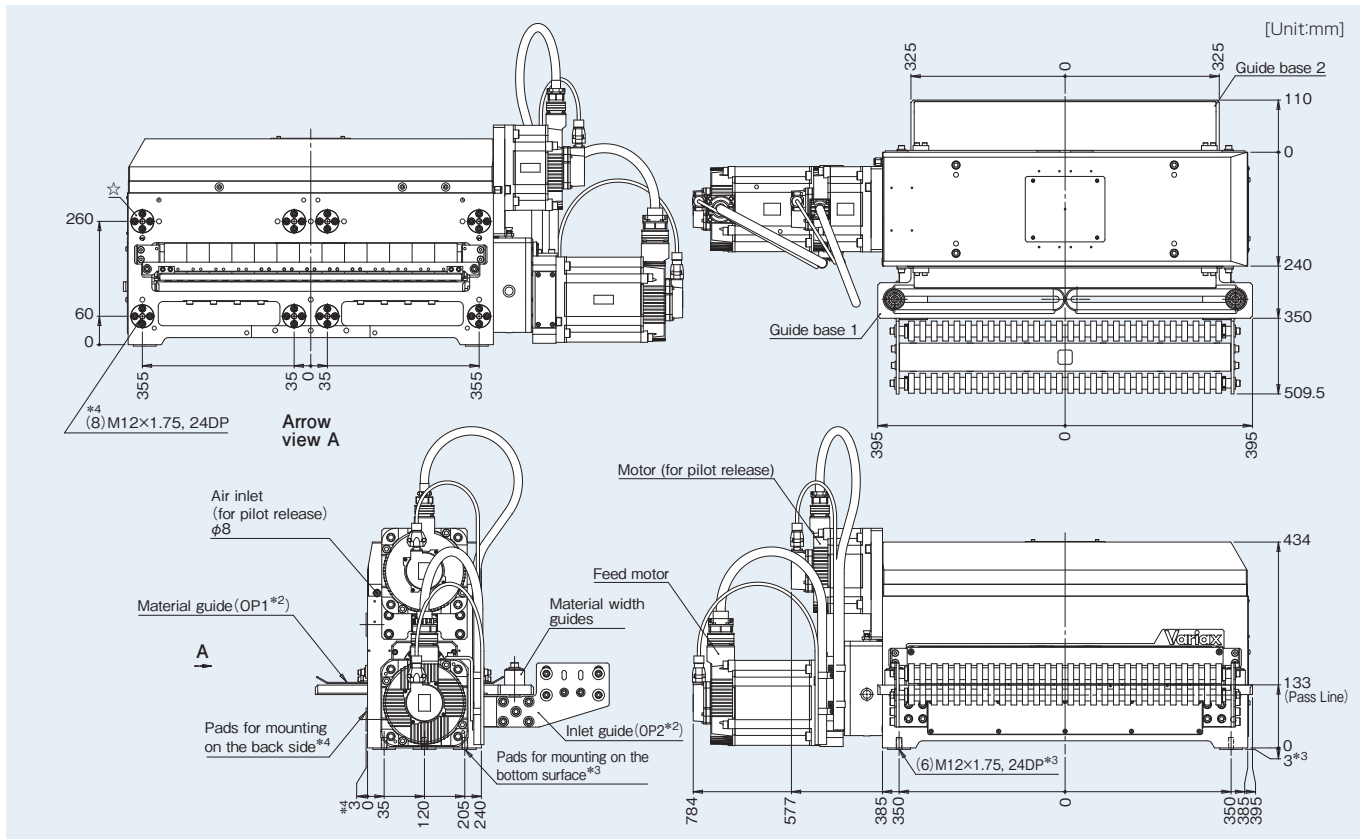
Dimensional drawing OPUS2R-450H(T)/650H(T)

OPUS2R-450H(T)



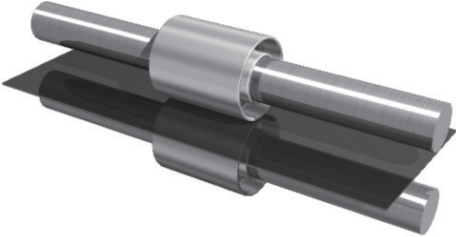
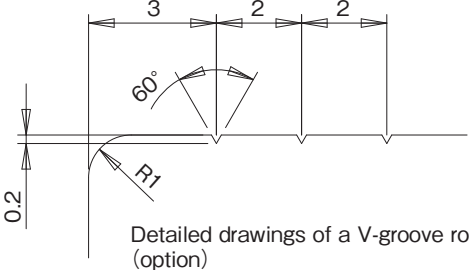
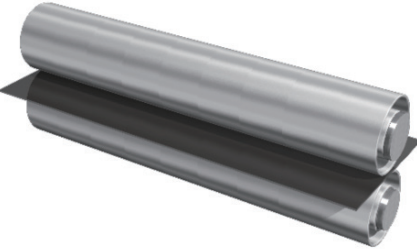
*1 This drawing shows the L type specification motor mounting direction. *2 "OP1" and "OP2" indicate that the option is installed. *3 Mounting surface L: Shows the bottom mounting specifications. Install the bottom mounting pads. Positions marked with a ☆ have covers. *4 Mounting surface B: Shows the back-side mounting specifications. Install the back-mounting pads.

OPUS2R-650H(T)

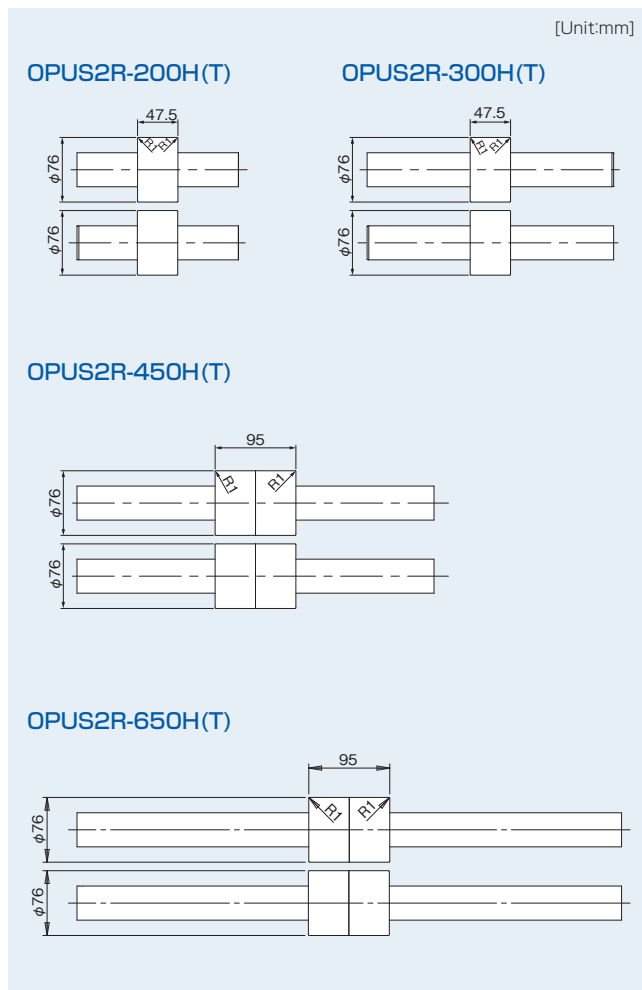


*1 This drawing shows the L type specification motor mounting direction. *2 "OP1" and "OP2" indicate that the option is installed. *3 Mounting surface L: Shows the bottom mounting specifications. Install the bottom mounting pads. Positions marked with a ☆ have covers. *4 Mounting surface B: Shows the back-side mounting specifications. Install the back-mounting pads.

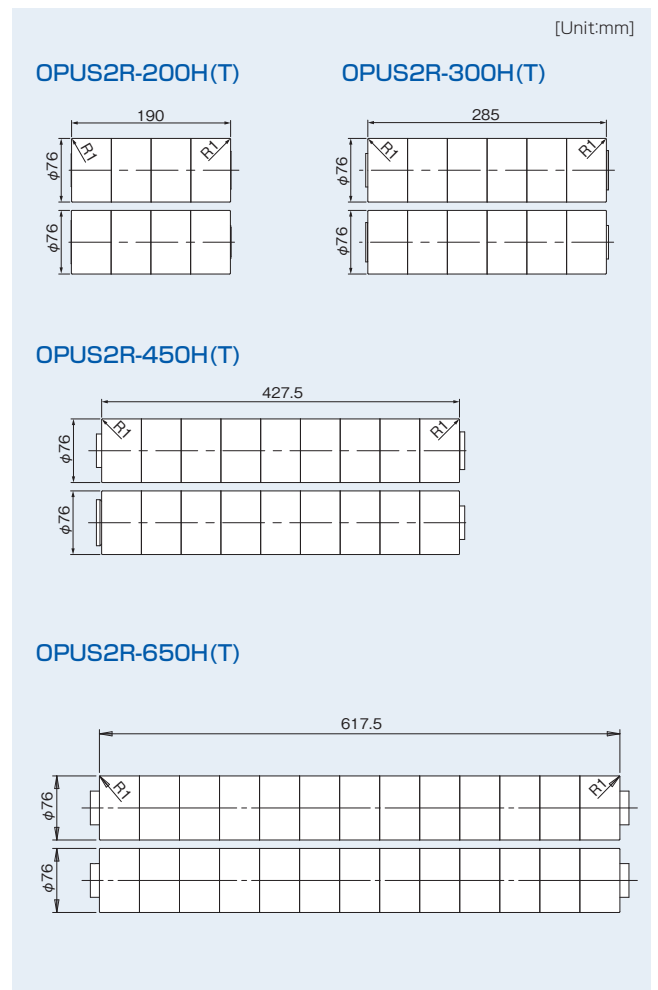
Feed roll dimensional drawings

Roller type	Roller surface treatment
<p>S: Center arrangement type</p> 	<p>B: Blast V: V-groove</p>  <p>Detailed drawings of a V-groove roll (option)</p>
<p>L: Built-in type</p> 	<p>F: Flat</p>

S: Center arrangement type



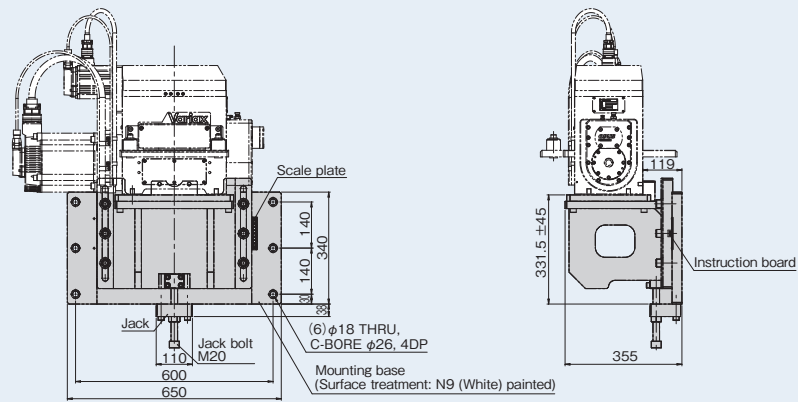
L: Built-in type



Dimensions, mounting components (optional)

OPUS2R-200H(T)

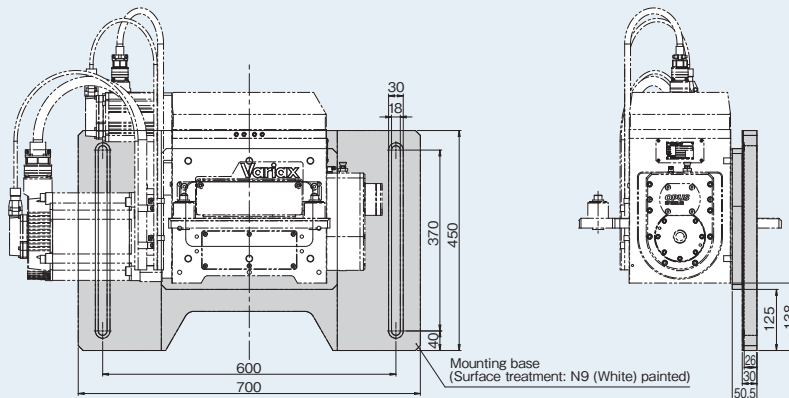
Bottom surface mounting



[Unit:mm]

Mass:131.5kg

Back side mounting

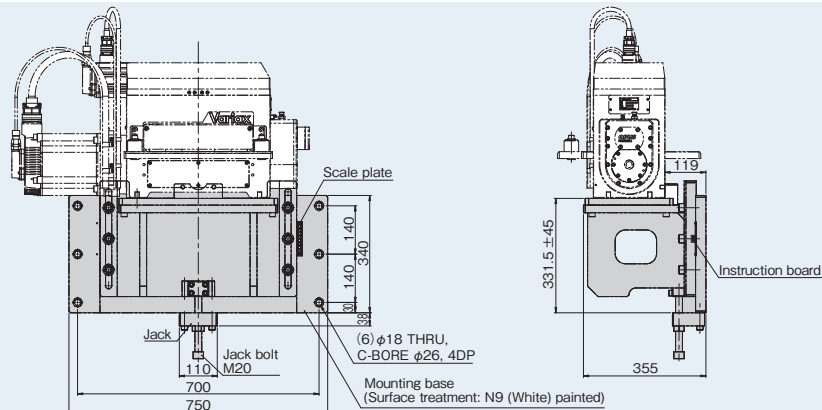


[Unit:mm]

Mass:64kg

OPUS2R-300H(T)

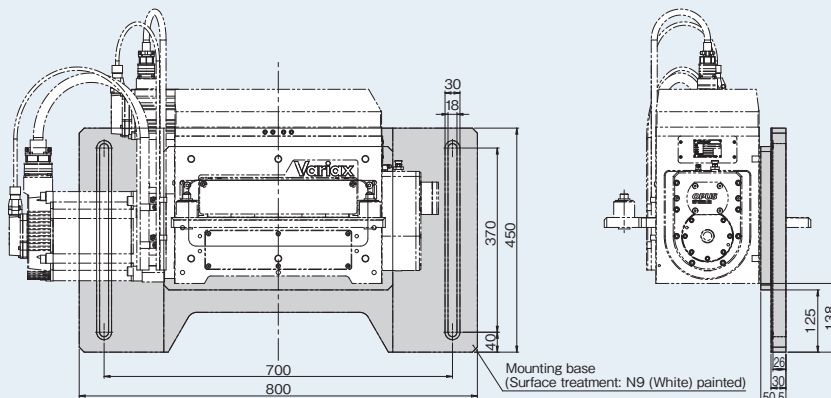
Bottom surface mounting



[Unit:mm]

Mass:153.5kg

Back side mounting



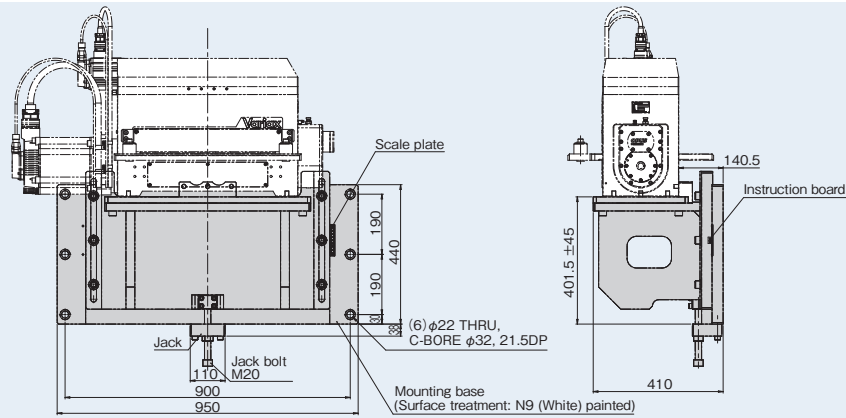
[Unit:mm]

Mass:71.5kg

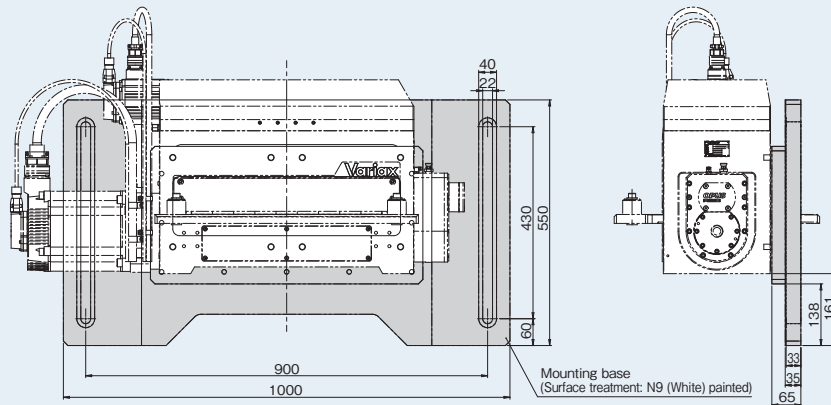
*Please prepare your own jack parts

OPUS2R-450H(T)

Bottom surface mounting

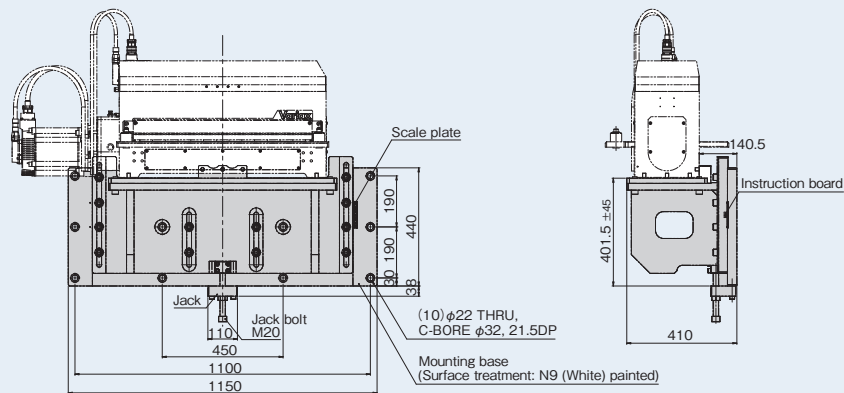


Back side mounting

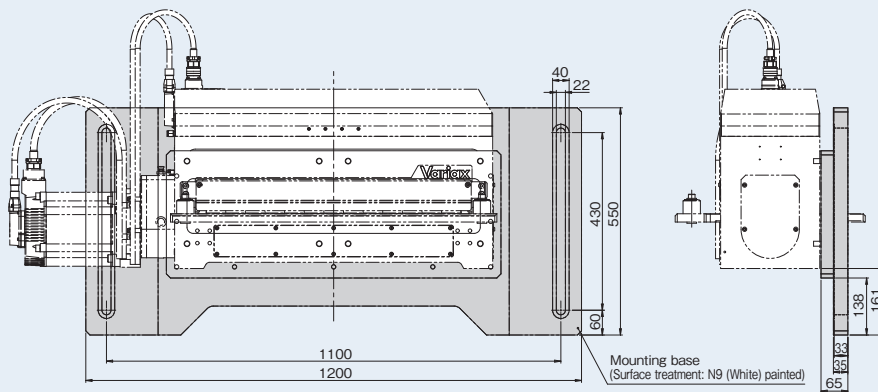


OPUS2R-650H(T)

Bottom surface mounting



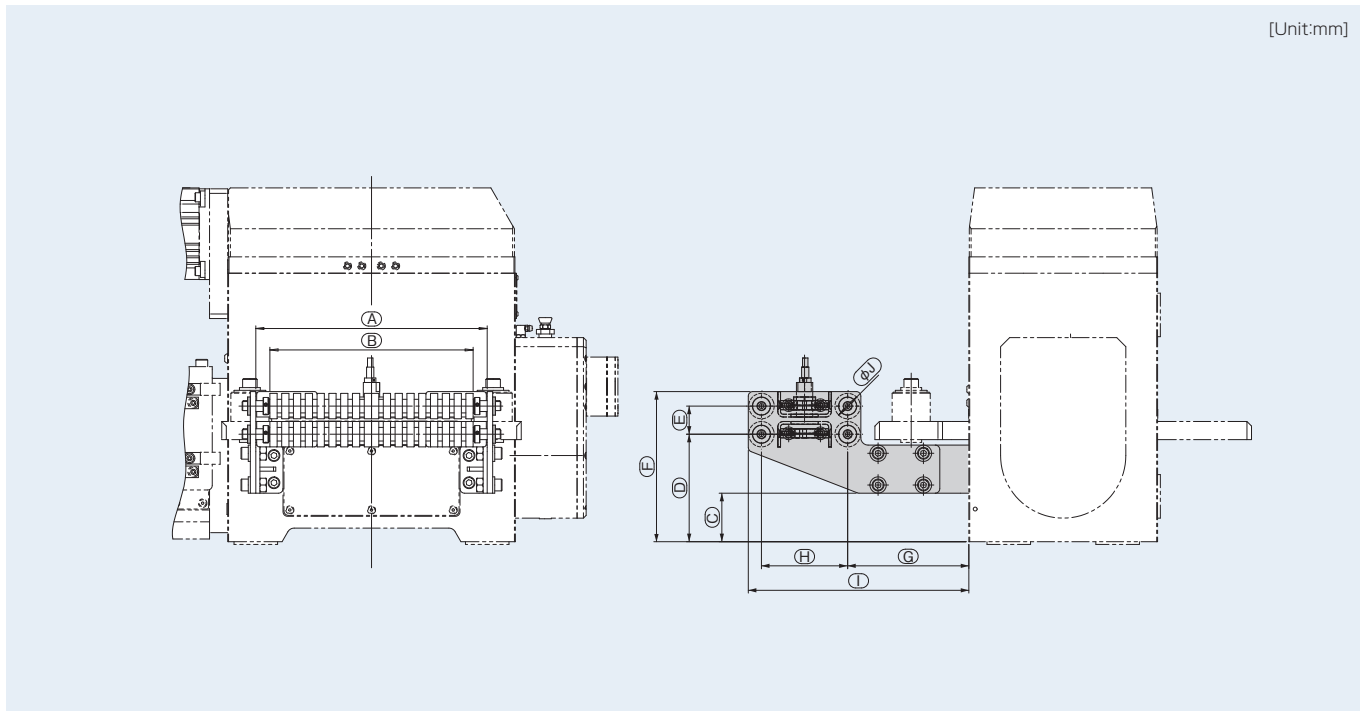
Back side mounting



*Please prepare your own jack parts

Dimensional drawings, inlet guide (optional)

Inlet guide dimensions: double row

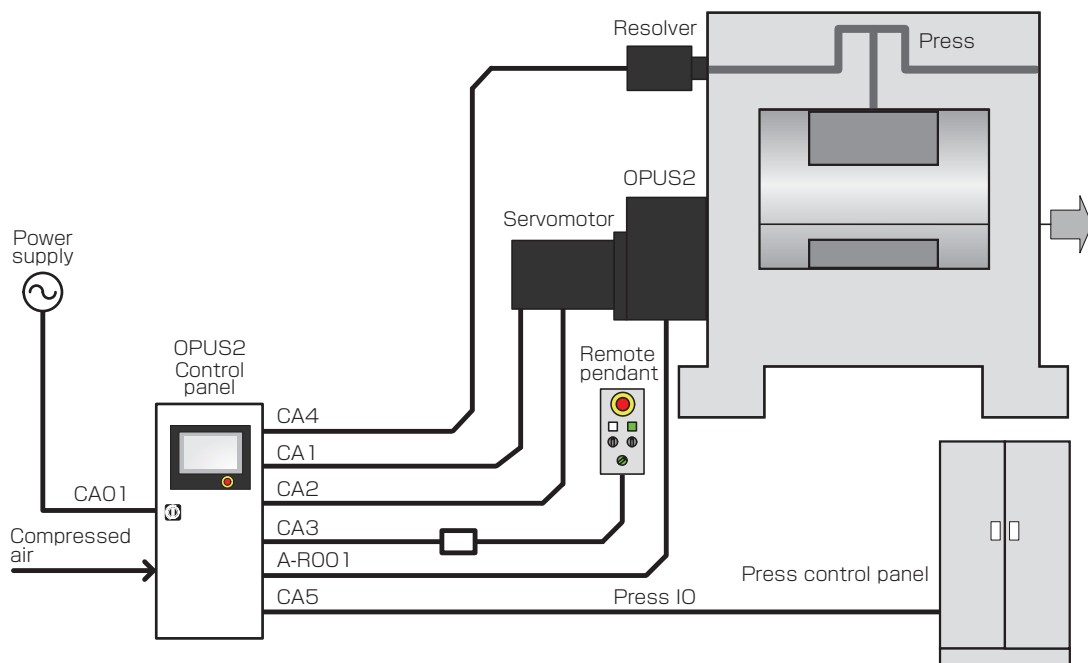


Dimension table

Size	A	B	C	D	E	F	G	H	I	J
OPUS2R-200H(T)	255	224	53.5	118.5	31	165.5	133.5	95	243	28
OPUS2R-300H(T)	355	302	53.5	118.5	31	165.5	133.5	95	243	28
OPUS2R-450H(T)	500	468	44	111.5	45	179	137	110	269.5	42
OPUS2R-650H(T)	700	660	44	111.5	45	179	137	110	269.5	42

Control part specifications

- The power supply cable to the control panel (CA01) must be provided by the customer.
- For details, please check the OPUS2R product specifications.



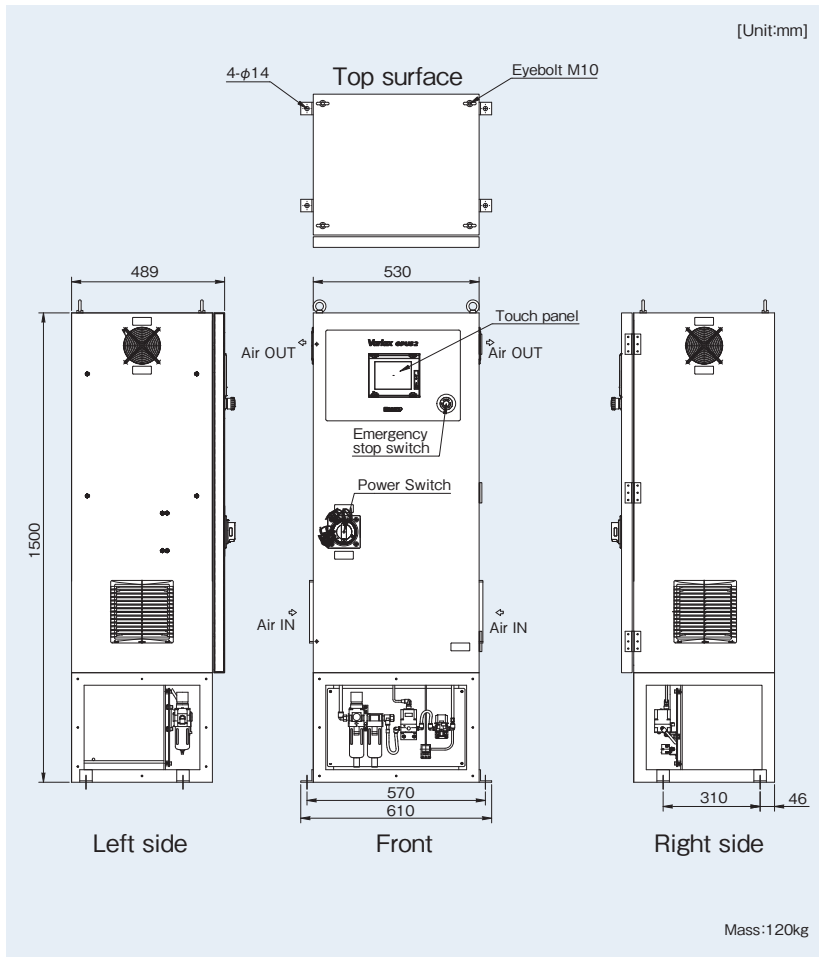
Control specification table

Electrical specifications (for one version)				
Power supply			Three-phase three-wire system, AC200V \pm 10% 50/60Hz	Three-phase three-wire system, AC400V \pm 10% 50/60Hz
Power capacity	Applicable models: OPUS2R-200H(T)/300H(T)	Fan cooling specifications Panel cooler specifications	19.8kVA 57.2A 21.7kVA 62.5A	20.0kVA 28.9A 19.8kVA 28.6A
	Applicable models: OPUS2R-450H(T)/650H(T)	Fan cooling specifications Panel cooler specifications	23.3kVA 67.3A 25.2kVA 72.6A	22.6kVA 32.6A 22.4kVA 32.3A
Servomotor capacity		Applicable models: OPUS2R-200H(T)/300H(T)	Feed 7.5kW / Release 1.8kW	
		Applicable models: OPUS2R-450H(T)/650H(T)	Feed 7.5kW / Release 2.9kW	

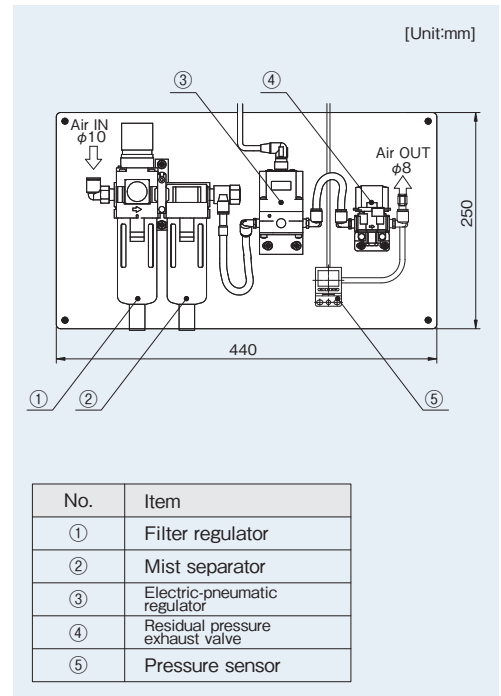
Main functions		
User interface		Touch panel (5.7 inch), Remote pendant, Press IO
Touch panel language		Japanese / English / Chinese
Number of saved job		200
Operation mode	Automatic operation	You can start automatic operation by entering a job number.
	Manual operation	You can JOG and process feed at set speeds, as well as open or close the rolls.
	Parameters	Various parameters can be set.
Safety function		STO (Shuts off the power to the motor and stops the shaft using a mechanical brake)
Security functions		3 user levels (password management)
Crankshaft Resolver		1:1 installation (with vibration isolation mounting kit)

Control panel dimensional drawings

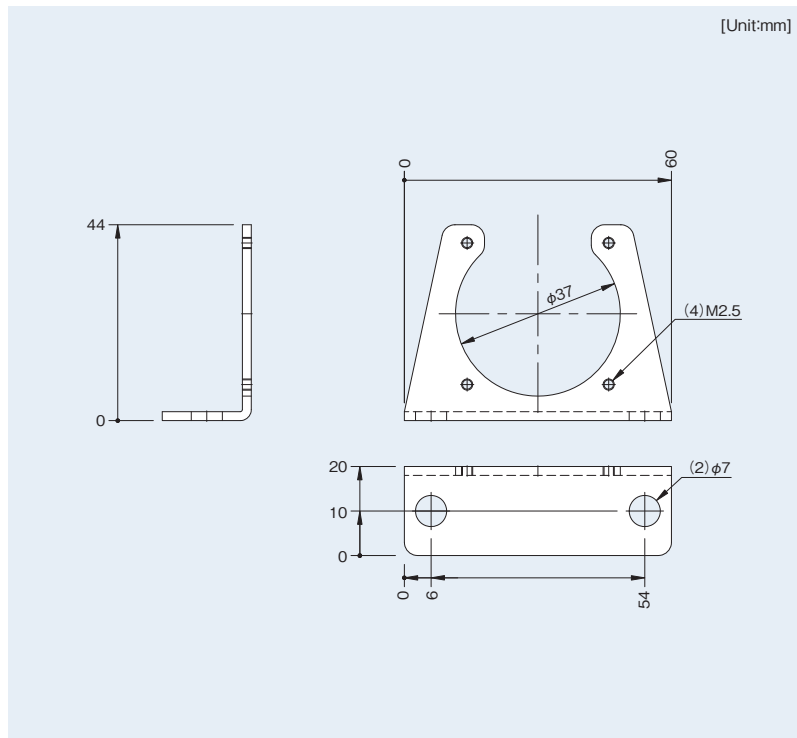
Control panel dimensional drawings



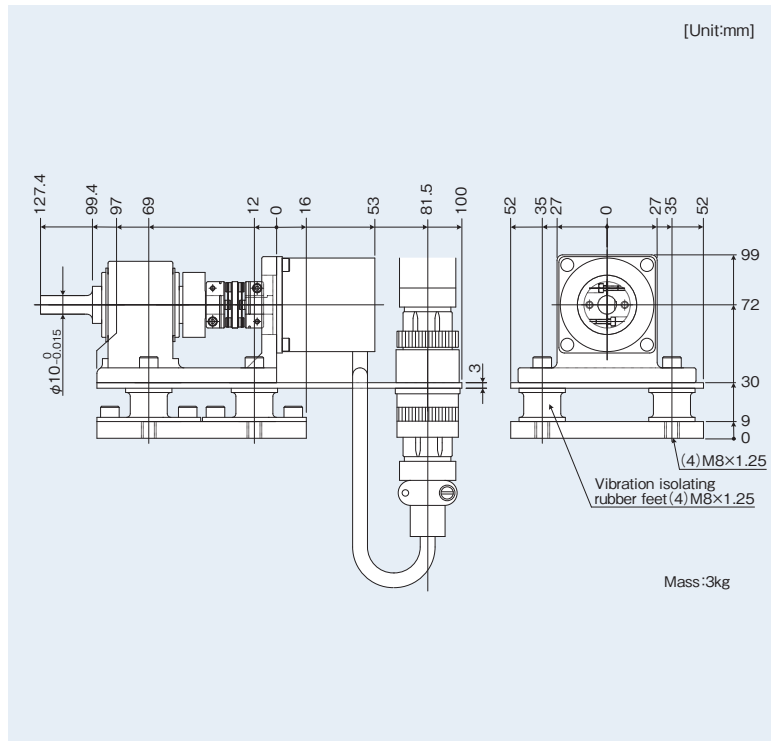
Compressed air equipment



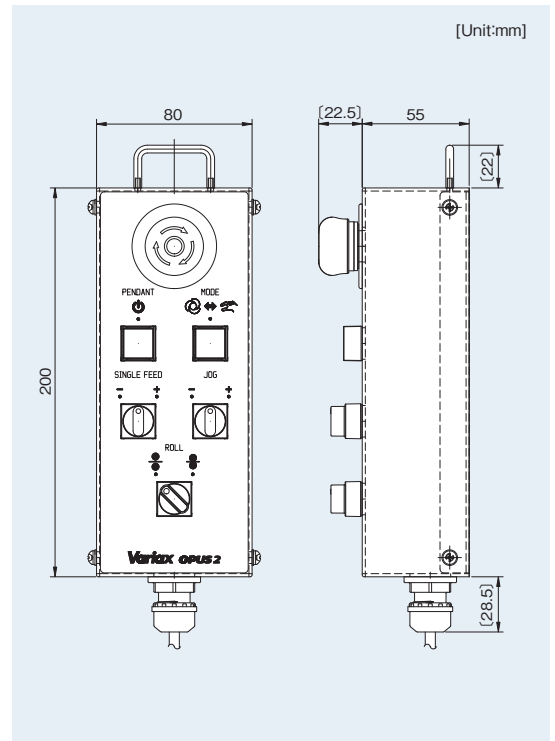
Connector securing parts for the remote pendant



Resolver unit (for press mounting)



Remote pendant



Model code for feed

Feed model code

1 **OPS2R-200** 2 **H** – 3 **SB** – 4 **L**

1	2
Size	Specification
OPS2R-200 OPUS2R-200	H General specifications
OPS2R-300 OPUS2R-300	
OPS2R-450 OPUS2R-450	T Thick plate specification
OPS2R-650 OPUS2R-650	

3
Rolls
SB Center arrangement, blast surface finish (standard)
SV Center arrangement, V groove (option)
SF Center arrangement, flat (option)
LB Built-in blast surface finish (option)
LV Built-in V groove (option)
LF Built-in flat (option)

4
Motor mounting direction*1
L Mounted on the left side of the housing
R Mounted on the right side of the housing

5 **L** 6 **FW**

5	6
Mounting surface*2	Guide base
L Bottom surface mounting	FW Flat (with a material width guide)
B Back side mounting	GW Vertical slot (with a material width guide)
W Bottom and back mounting	FF Flat
	GF Vertical slot

– 7 **A** 8 **A** 9 **/X**

7	8	9
Standards	Version*3	Standard / custom order
A None (standard)	A Design version code	Blank Standard
		/X Custom order

*1: The motor mounting directions mentioned above are when viewing the feeder housing from its front side.

*2: Install mounting pads on the surface mounting side.


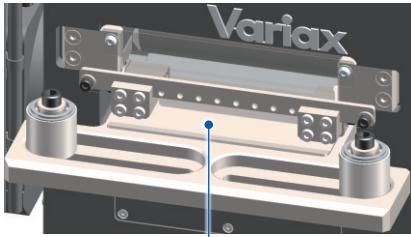
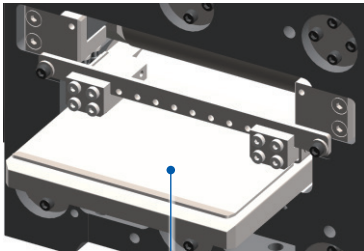

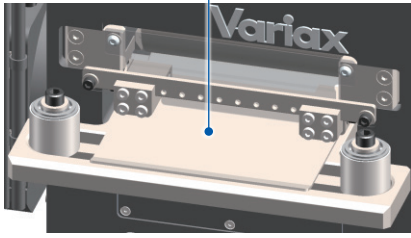
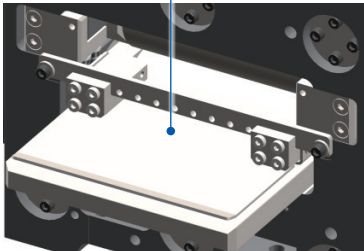
*3: The final number in the version code increases with each design change and may change without prior notice.

Optional codes for Feed(Material guide)

1	OPS2R-200	-	2	U3
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1	
Model	
OPS2R-200	OPUS2R-200H(T)
OPS2R-300	OPUS2R-300H(T)
OPS2R-450	OPUS2R-450H(T)
OPS2R-650	OPUS2R-650H(T)

2	
Material guide	
U3	Full cover type
U4	Full cover type (to the end of the guide base)

		Entrance side	Exit side
U3			
Full cover guide			
U4			
Full cover guide			
<p>*Material width guides cannot be used. In the case of the PUSH/PULL specification, we recommend using the PULL side.</p>			

*1: This guide cannot be used if a gap of more than 3 mm is required.

Model code for feed

Optional codes for Feed(inlet guide)

1	OPS2R-200	-	2	E2	3	A
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1	
Model	
OPS2R-200	OPUS2R-200H
OPS2R-300	OPUS2R-300H
OPS2R-450	OPUS2R-450H
OPS2R-650	OPUS2R-650H
OPS2R-200T	OPUS2R-200T
OPS2R-300T	OPUS2R-300T
OPS2R-450T	OPUS2R-450T
OPS2R-650T	OPUS2R-650T

2	3
Inlet guide	Sensor specifications
E2 Roller type (2 rows)	Blank None A Type equipped with a proximity sensor (Sensor stay: M18×1 (fine thread)) B Type equipped with a photoelectric sensor

4	A	-	5	/X
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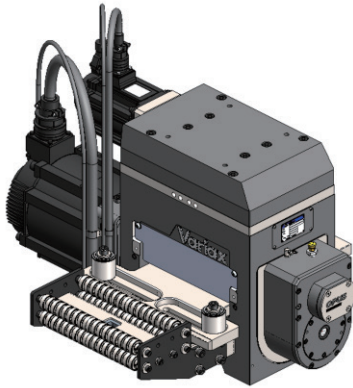
4		5
Sensor type*1		Standard / custom order
Sensor specifications: A (proximity sensor)	Sensor specifications: B (photoelectric sensor)	
A OMRON sensor / PNP B OMRON sensor / NPN	A azbil sensor / PNP B azbil sensor / NPN	Blank Standard /X Custom order
※Sensor Type General specifications (H) A:E2E-X5B1D18(PNP) B:E2E-X5C118(NPN) Thick plate specification (T) A:E2E-X12B1D18(PNP) B:E2E-X12C118(NPN)	※Sensor Type General specifications (H), Thick plate specification (T) common A:HP7-A14(PNP) B:HP7-A13(NPN)	

*1: To use sensors on other models, please tell us the name of the sensor model you want to use when ordering a Variax.

Inlet guide

Roller type: two rows, inlet guide

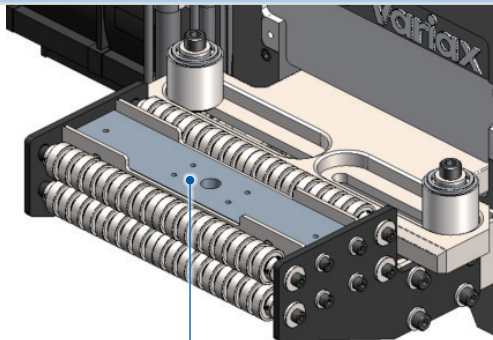
E2



Sensor specifications

Roller type: two rows, with a sensor mounting bracket, M18x1

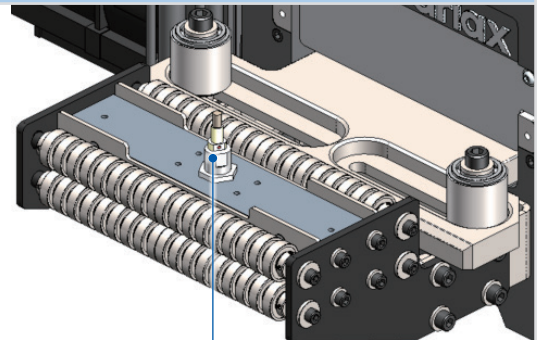
E2A



A base for mounting a proximity sensor M18x1 (thin type)

Roller type: two rows, for mounting a proximity sensor

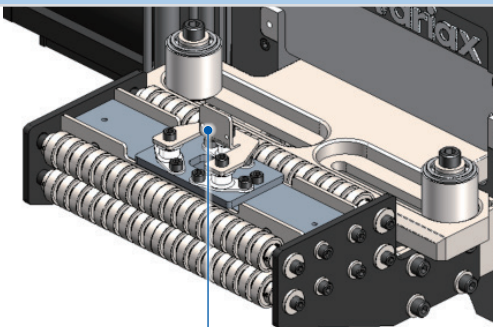
E2A-A(B)



Proximity sensor E2E-X□□1□18 is installed

Roller type: two rows, with photoelectric sensor mounting guide

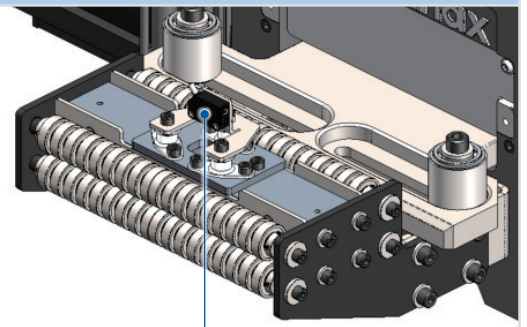
E2B



Stay for mounting a photoelectric sensor

Roller type: two rows, for mounting a photoelectric sensor

E2B-A(B)



Photoelectric sensor HP7-A1□ is installed

Model code for controller

Control code

1	OPS2R2020HE	-	2	A	3	A
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1		
Model and voltage specifications		
OPS2R2020HE	OPUS2R-200H	AC200V
OPS2R2030HE	OPUS2R-300H	AC200V
OPS2R2045HE	OPUS2R-450H	AC200V
OPS2R2065HE	OPUS2R-650H	AC200V
OPS2R4020HE	OPUS2R-200H	AC400V
OPS2R4030HE	OPUS2R-300H	AC400V
OPS2R4045HE	OPUS2R-450H	AC400V
OPS2R4065HE	OPUS2R-650H	AC400V
OPS2R2020TE	OPUS2R-200T	AC200V
OPS2R2030TE	OPUS2R-300T	AC200V
OPS2R2045TE	OPUS2R-450T	AC200V
OPS2R2065TE	OPUS2R-650T	AC200V
OPS2R4020TE	OPUS2R-200T	AC400V
OPS2R4030TE	OPUS2R-300T	AC400V
OPS2R4045TE	OPUS2R-450T	AC400V
OPS2R4065TE	OPUS2R-650T	AC400V

2		3	
Operation panel position		Control panel cooling method*2	
A	Control panel (standard)	A	Fan cooled
B	Panel stand (option)	B	Panel cooler (optional)
C	Wall hung panel (option)		

4	RCA	5	A	6	C	7	/X
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4		5		6		7	
The cable outlet position, when looking at the front of the control panel.*4		Standards		Version*5		Custom specification	
RCA	Right exit, without a protective tube	A	IEC specification(standard)	C	Design version code	Blank	Standard
RCB	Right exit, with a protective tube (option)					/X	Custom order
LCA	Left exit, without a protective tube						
LCB	Left exit, with a protective tube (option)						
BCA	Rear exit, without a protective tube						
BCB	Rear exit, with a protective tube (option)						
UCA	Bottom side exit, without a protective tube						
UCB	Bottom side exit, with a protective tube (option)						

*1: The control panel paint color is N9 (white), the electrical panels are plated.

*2: The control panel will weigh 120 kg with the fan cooling specifications and 160 kg with the panel cooler specifications.

*3: If you want to install control panels side by side, please leave a gap of at least 100mm between the control panels. (For securing the control panel air supply and exhaust area)

*4: The position of the cable outlets when viewing the control panel door.

*5: The final number in the version code increases with each design change and may change without prior notice.

Control option code

1 **OPS2R2020HE** – 2 **A0F1** – 3 **00**

1		
Model and voltage specifications		
OPS2R2020HE	OPUS2R-200H	AC200V
OPS2R2030HE	OPUS2R-300H	AC200V
OPS2R2045HE	OPUS2R-450H	AC200V
OPS2R2065HE	OPUS2R-650H	AC200V
OPS2R4020HE	OPUS2R-200H	AC400V
OPS2R4030HE	OPUS2R-300H	AC400V
OPS2R4045HE	OPUS2R-450H	AC400V
OPS2R4065HE	OPUS2R-650H	AC400V
OPS2R2020TE	OPUS2R-200T	AC200V
OPS2R2030TE	OPUS2R-300T	AC200V
OPS2R2045TE	OPUS2R-450T	AC200V
OPS2R2065TE	OPUS2R-650T	AC200V
OPS2R4020TE	OPUS2R-200T	AC400V
OPS2R4030TE	OPUS2R-300T	AC400V
OPS2R4045TE	OPUS2R-450T	AC400V
OPS2R4065TE	OPUS2R-650T	AC400V

2	
Function	
A0F1	Equipment installation front side (push)
A0M □	Equipment installation center front: 1 or 2
A0D1	Equipment installation rear side (pull)
B001 -□□□	JOG speed upper limit in manual operation
B002 -□□□	Step feed speed upper limit in manual operation
B007	Roll release for clearing jammed material
B008	End-of-material detection signal output
B008-001	End-of-material detection signal output (dry contact specifications)
B010	Roller status signal output
B011	EVR start signal output
B012	DC24V output
B015 -□□□	Specification with a pilot release amount of □.□□ mm.
B017	A function which prohibits manual roll release during an interlocked stop

3	
Version	
00	Design version code

*1: Please choose function A0F1, A0M □, or A0D1.

*2: Starting at B001, please select the functions you need. (You can select as many as you like)

*3: For control option details, refer to the product specifications.

*4: The final number in the version code increases with each design change and may change without prior notice.

Model code for controller

Control cable cord



1	
Model	
Motor cable	
OPS2R2000HE	200V OPUS2R-200(300)H(T)
OPS2R4000HE	400V OPUS2R-200(300)H(T)
OPS2R2005HE	200V OPUS2R-450(650)H(T)
OPS2R4005HE	400V OPUS2R-450(650)H(T)
Other than motor cable	
OPS20000E	Common specifications

2		3	
Cable*3		Cable type	
CA	Without a protective tube	1	Motor
CB	With a protective tube*1	2	Encoder
		21	Encoder (B008)*6
		3	Remote pendant
		4	Press resolver
		5	Press I/O
		81	To connect the control panel *5



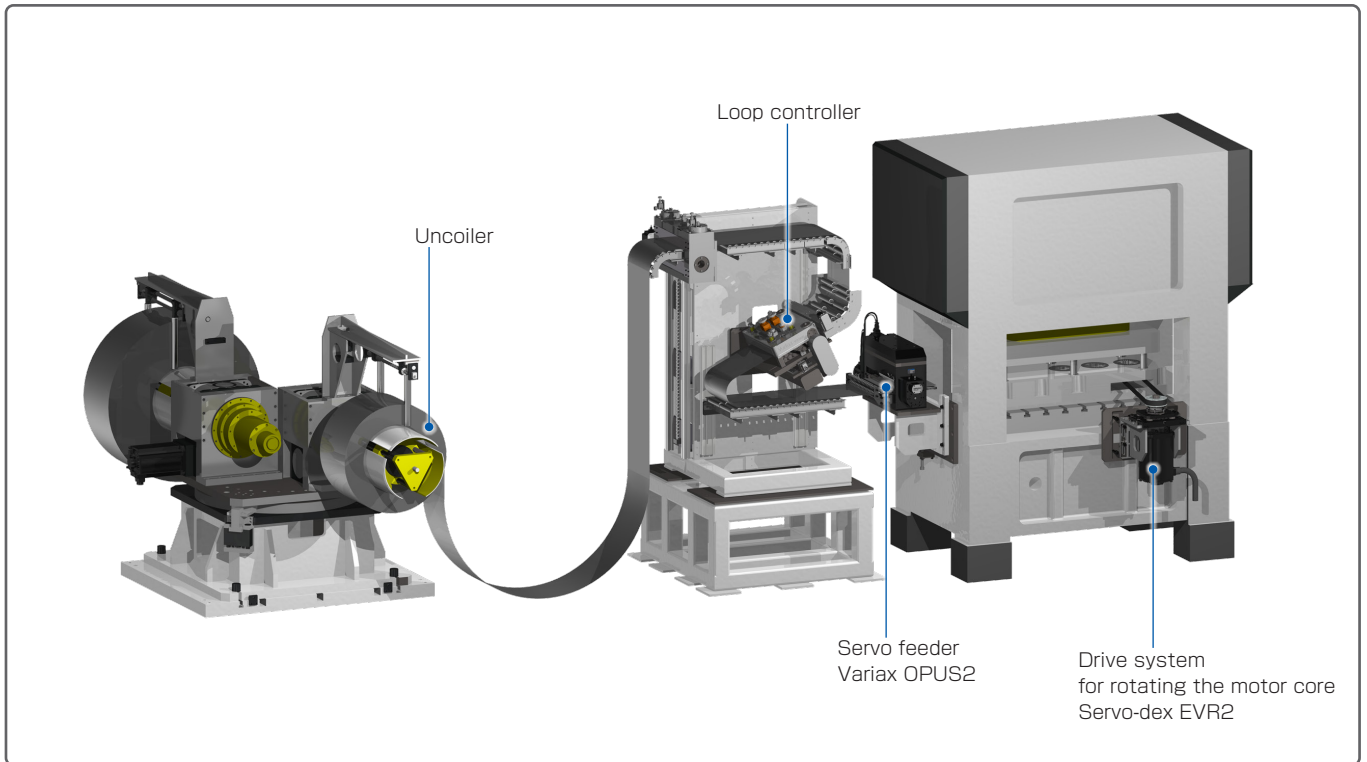
4	
Design version number	
0	Version 0
1	Version 1

5	
Length*5	
020	2m*4
050	5m
100	10m
150	15m
200	20m
250	25m

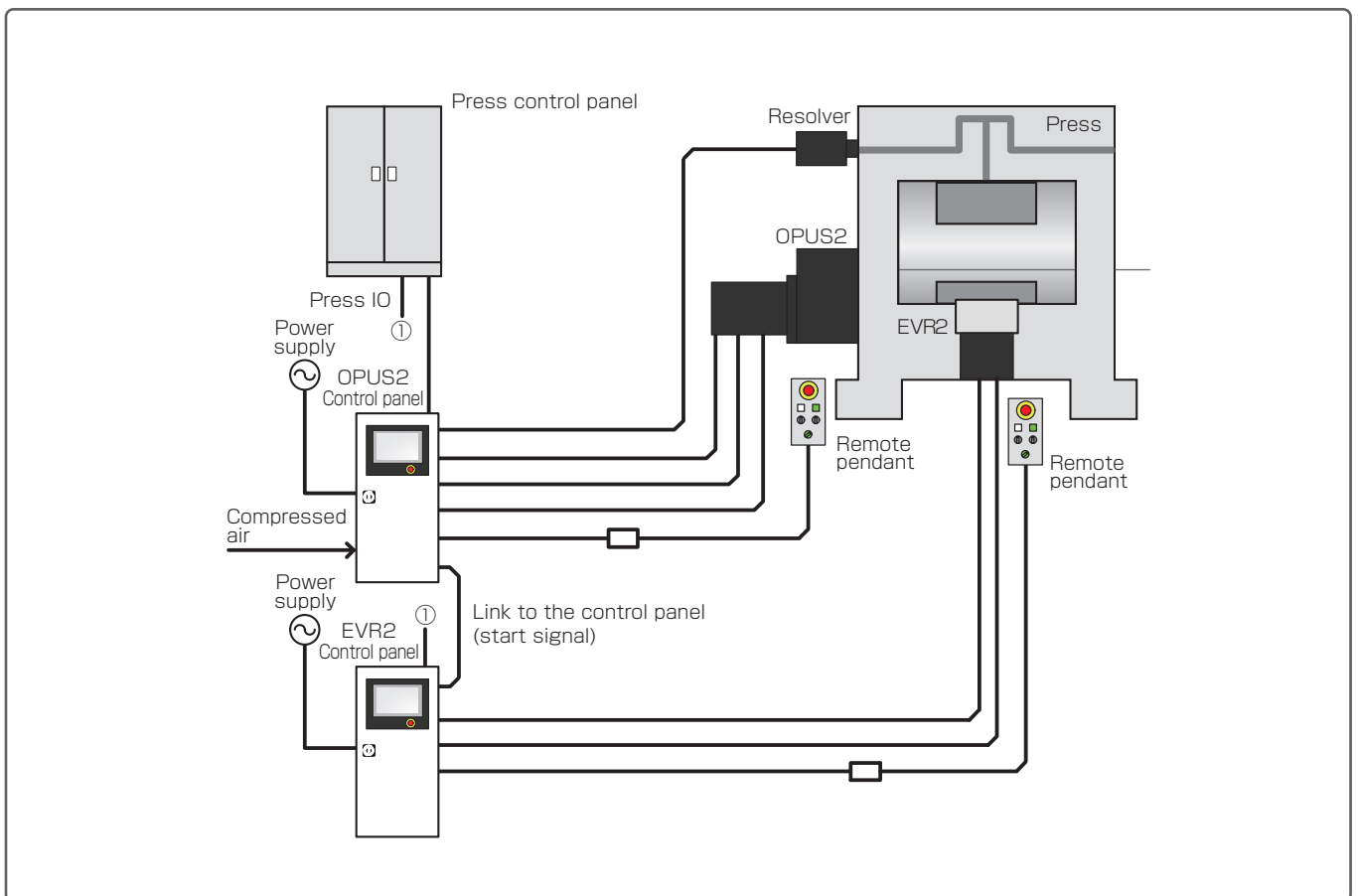
- *1: Optional
- *2: The power supply cable to the control panel (CA01) must be provided by the customer.
- *3: The standard CA cable is not inserted into a flexible metal tube.
Only the optional cable CB is inserted into a flexible metal tube (KLV series / Nihon-Cim).
- *4: A cable length of 2 m can only be selected for connecting the control panel.
- *5: Only 2 m, 5 m, and 10 m cables can be selected to make connections to the control panel.
- *6: Functional options: A type 21 cable will be supplied when the material end detection signal output (B008/B008-001) is required.

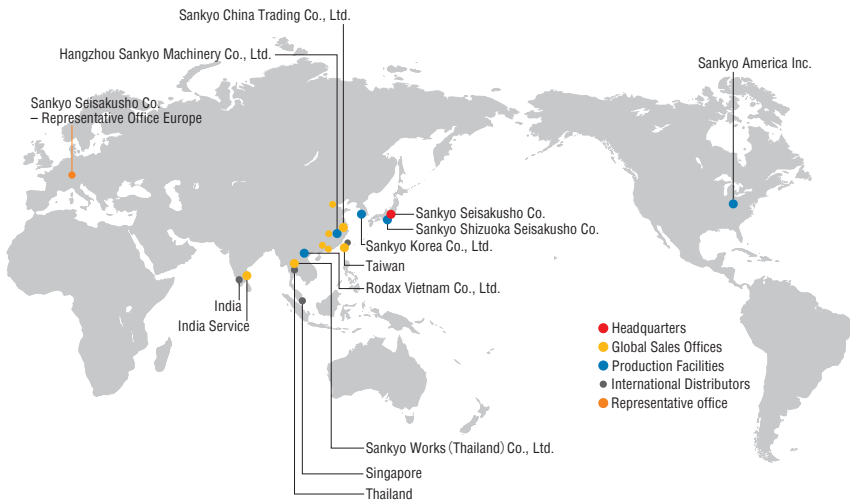
Application

Motor core line for home electrical appliances (OPUS2, EVR2)



Control configuration diagram(OPUS2, EVR2)





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