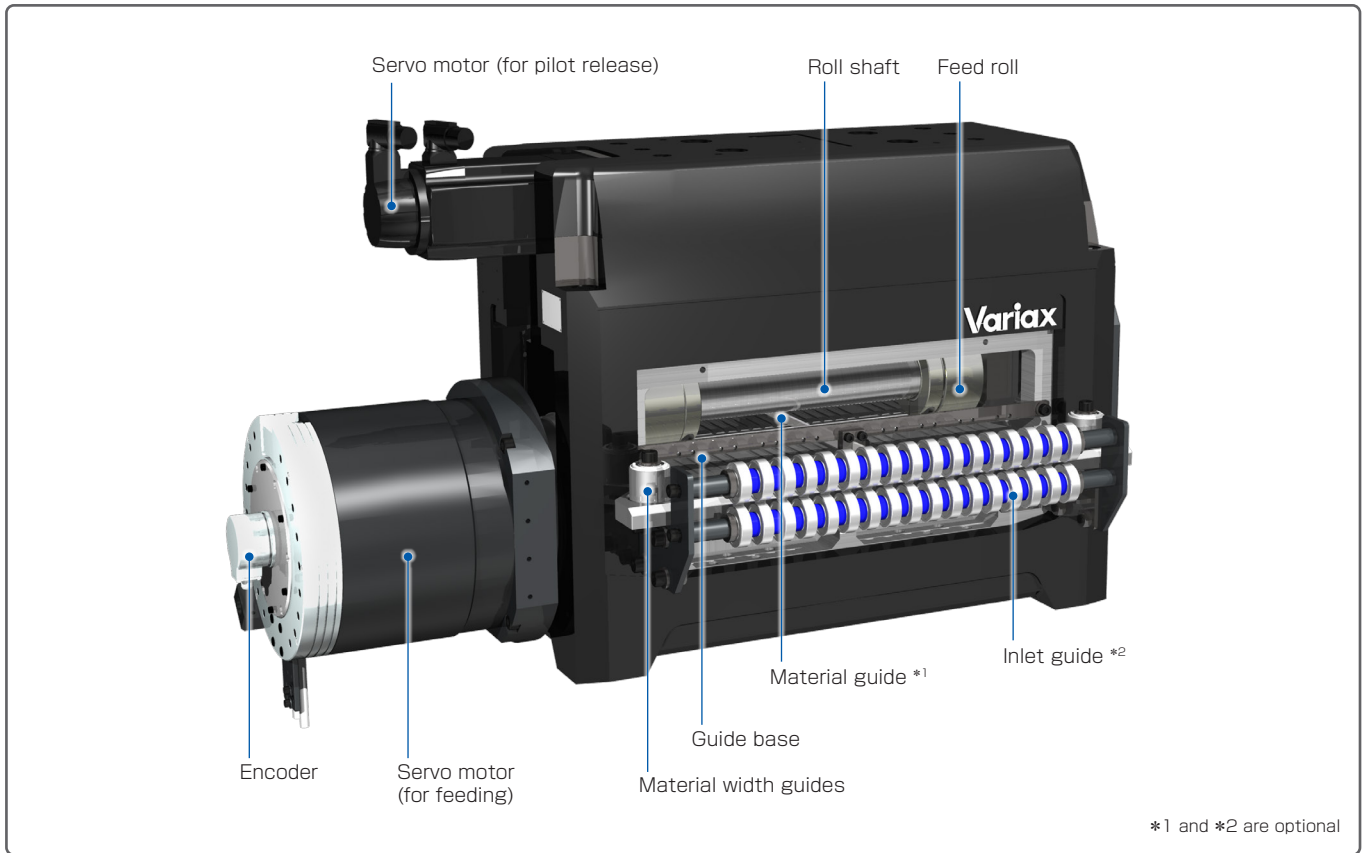


Feeder specification

Feed components



Specification table

Model name	Unit	OPUS1-200	OPUS1-300	OPUS1-450	OPUS1-650
Feed length	mm	1 to 200(999)	1 to 300(999)	1 to 450(999)	1 to 650(999)
Material thickness	mm	max 2			
Gripping force	N	min 1,500 to max 3,000		min 3,000 to max 5,000	
Pilot release length	mm	0.1			
Roll opening dimension	mm	Max 2.5		Max 3	
Material width	mm	max 200	max 300	max 450	max 650
Maximum number of strokes	min ⁻¹	1,000		500	
Minimum pilot release angle	deg	90		50	
Maximum feed speed	m/min	Standard air-cooled motor: up to 70 m/min, Standard water-cooled motor: 70 m/min, or more Water-cooled high power motor: 80 m/min, or more		Standard air-cooled motor: up to 100 m/min, Standard water-cooled motor: 100 m/min, or more Water-cooled high power motor: 120 m/min, or more	
Repeat accuracy	mm	±0.03*3			
Air consumption	ℓ/min	200			
Operating air pressure	MPa	0.5 to 0.6			
Product weight	kg	220	240	415	480
Paint color		N1.5(Black)			

*1 Please check the separate feed capacity diagram.

*2 If the motor is water cooled, you will need to prepare your own cooling system (chiller) and hoses.

Use hoses with an inner diameter of $\phi 9$ mm.

When you are making or purchasing a chiller, select a chiller with the following specifications.

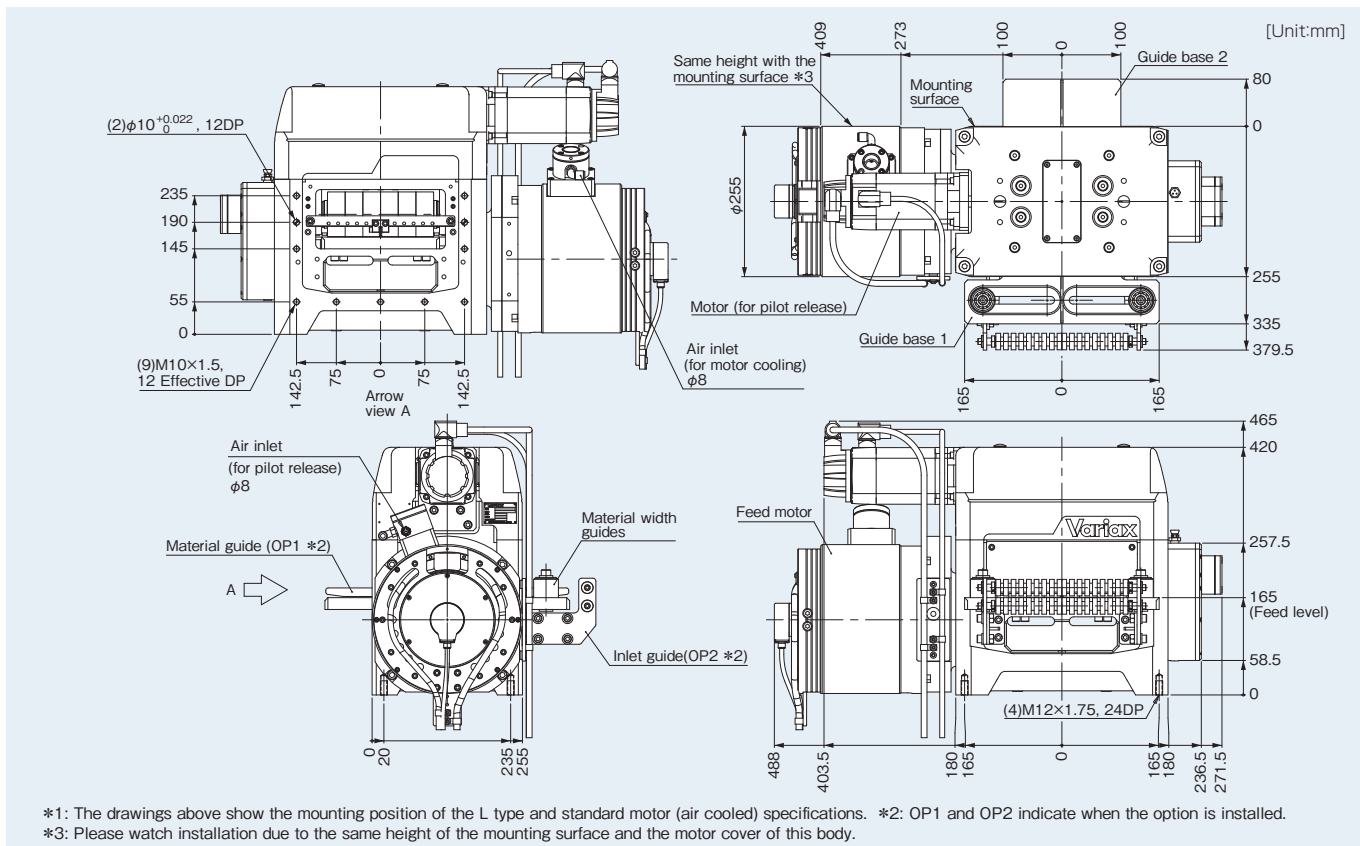
●Cooling capacity: You need a chiller for a standard 1.5 kw or higher capacity motor, and for a 4.2 kw or higher capacity motor.

●Minimum circulation rate: 7.0 L/min. ●Preset operating temperature maximum: 35°C ●Please choose a chiller and pipes that do not contain copper.

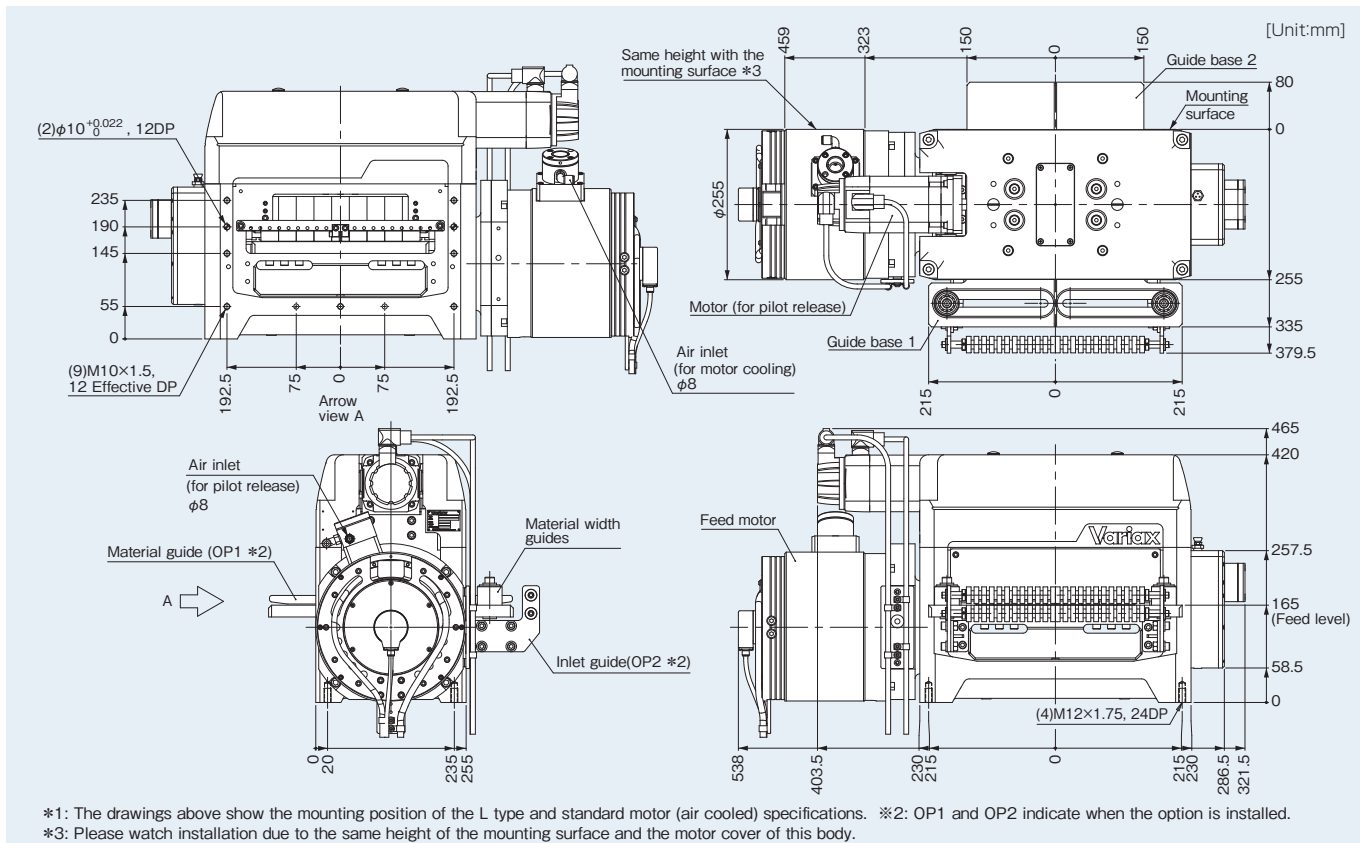
*3 This is the amount of air used for cooling an air-cooled motor air. (The motor capacity depends on the volume of cooling air supplied.)

Dimensional drawing OPUS1-200/300

OPUS1-200

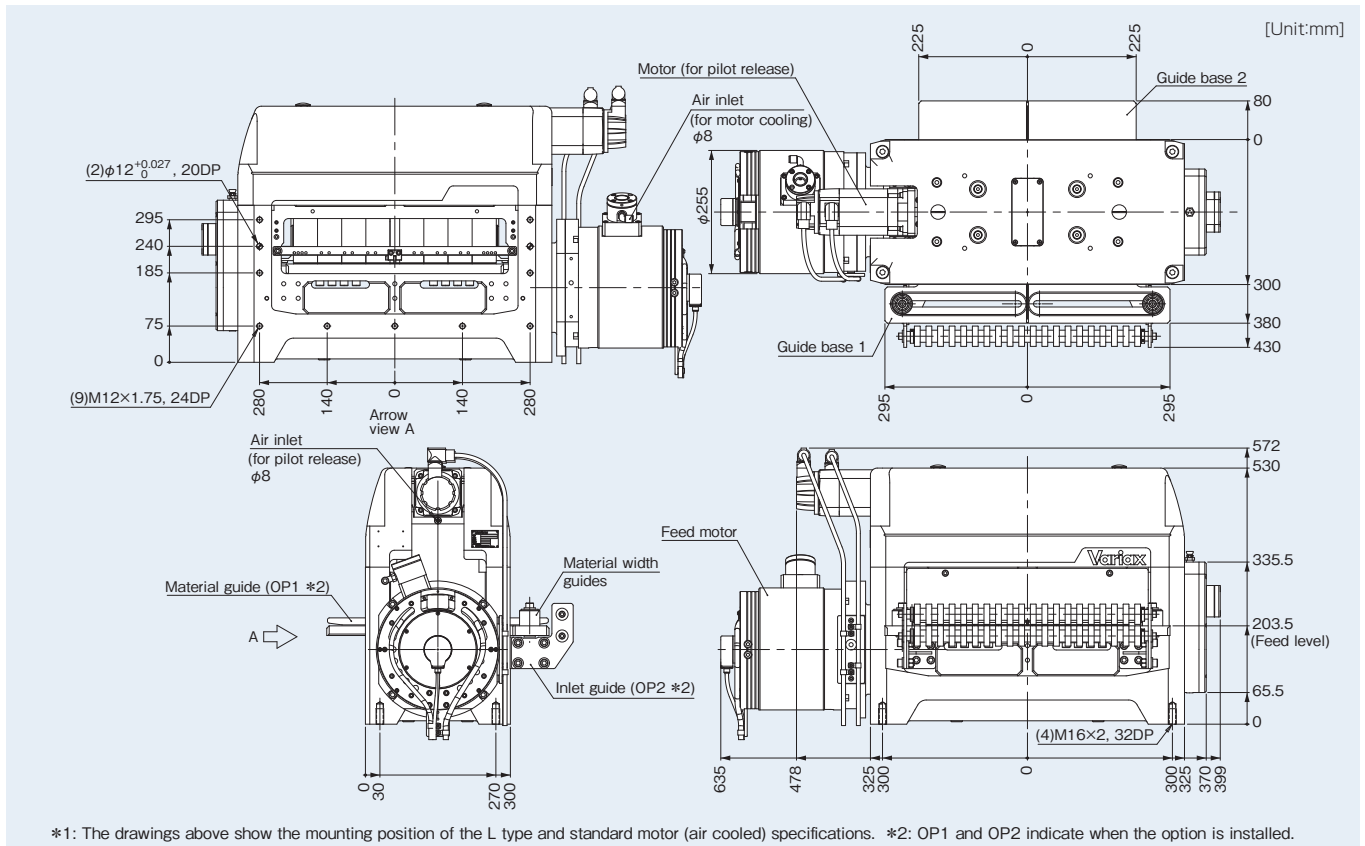


OPUS1-300

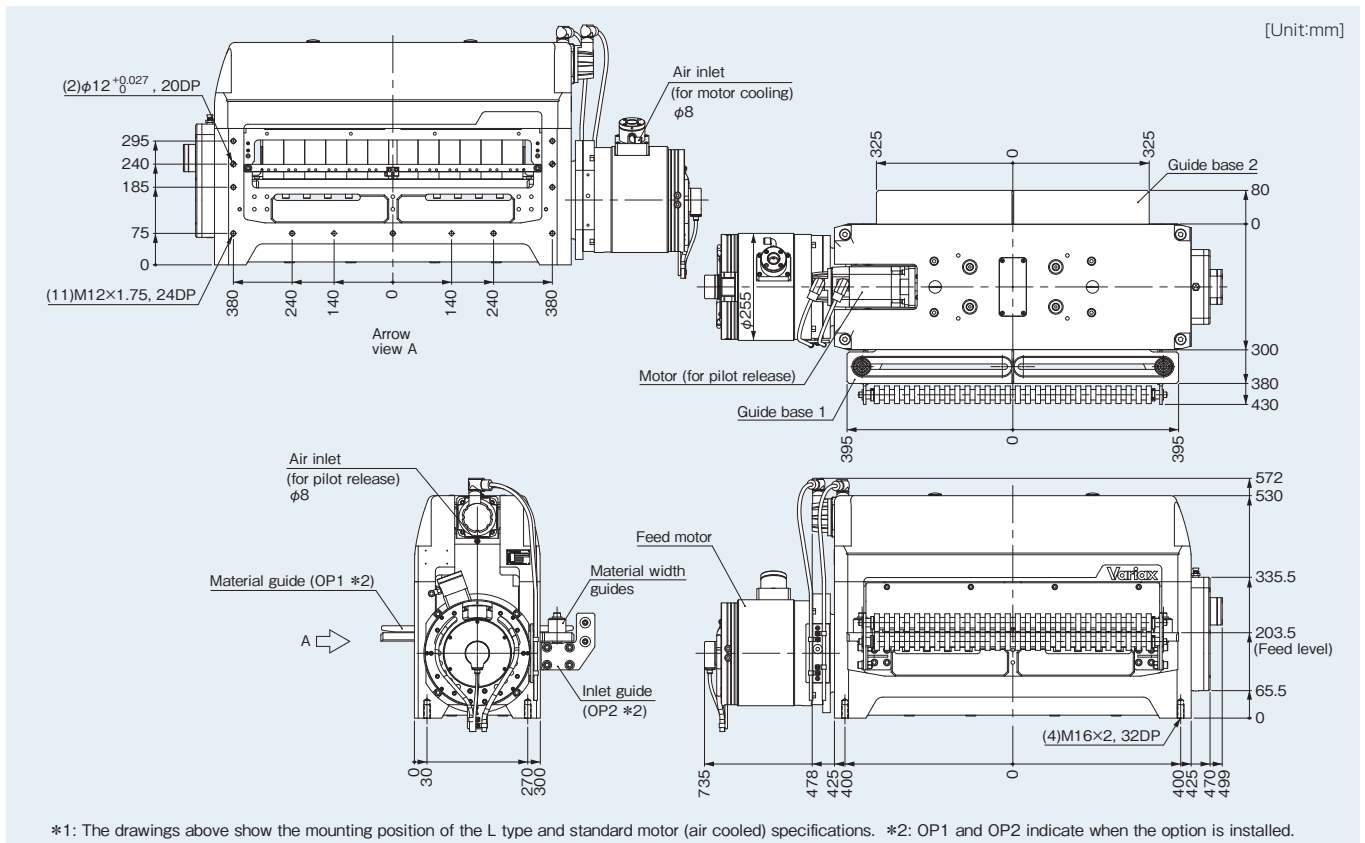


Dimensional drawing OPUS 1-450/650

OPUS 1-450

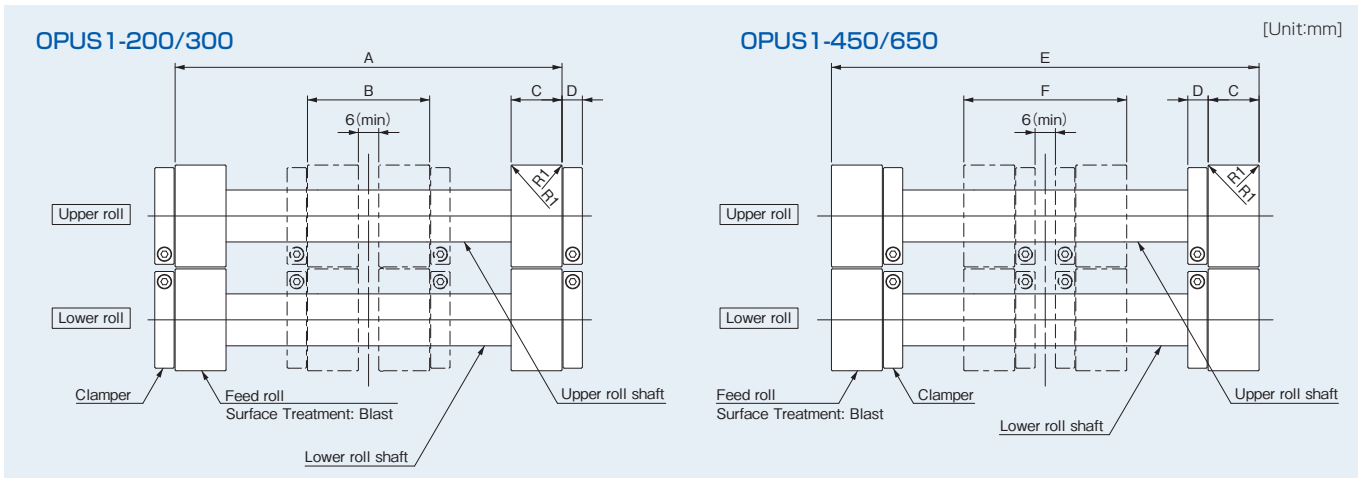


OPUS 1-650

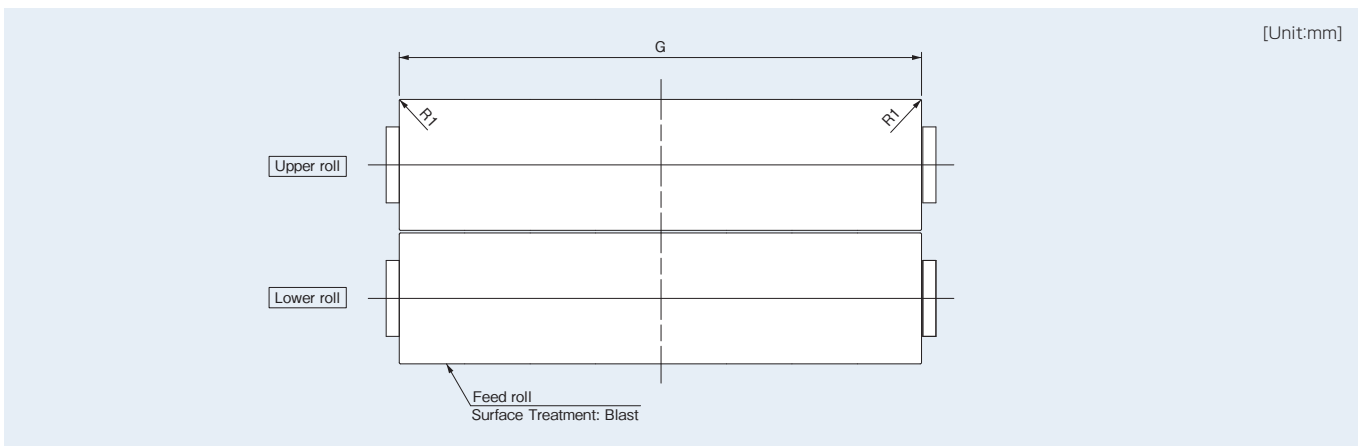


Feed roll dimensional drawings

Separate rolls (standard)



Size of One-piece roll (option)

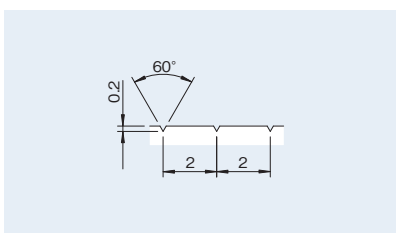


*1: There are 3 types of surface specifications for a single roll (both separate and built-in rolls): sand blasted, V groove and flat rolls. For V groove roll details, please refer to the V groove detail drawings.

Dimension table

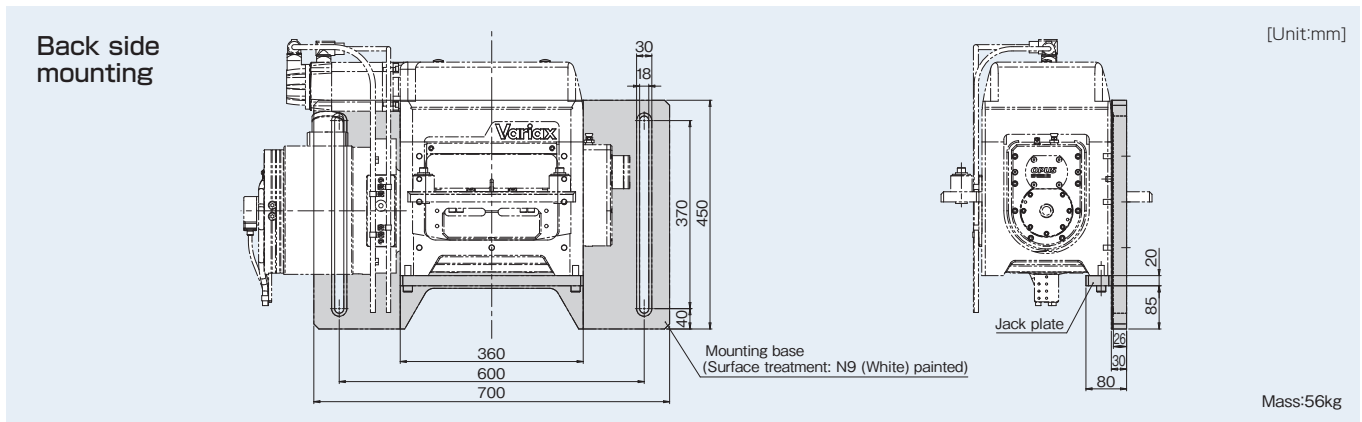
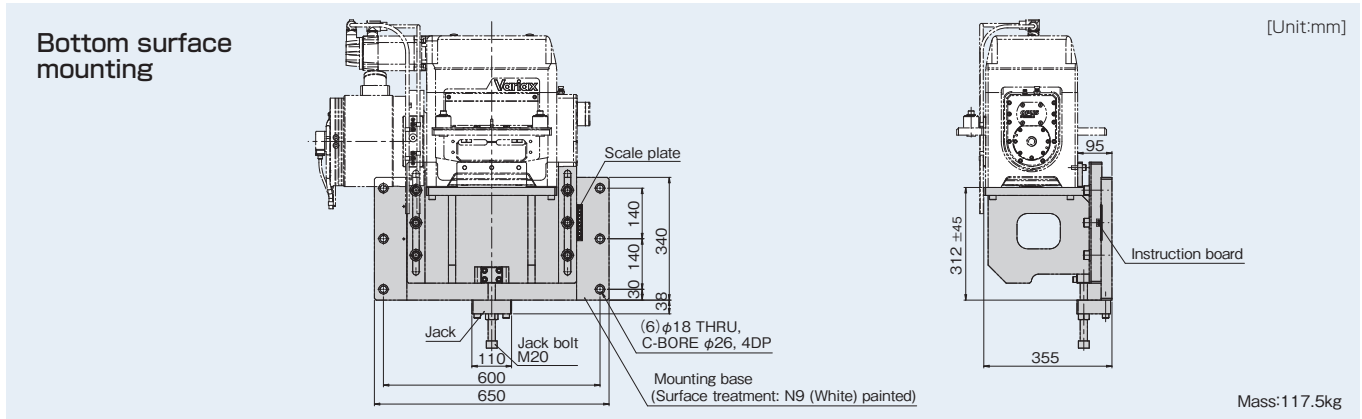
Size	A	B	C	D	E	F	G
OPUS1-200	159	66	30	16	—	—	180
OPUS1-300	259	66	30	16	—	—	270
OPUS1-450	—	—	50	20	420	146	420
OPUS1-650	—	—	50	20	620	146	620

Detailed drawings of a V-groove roll

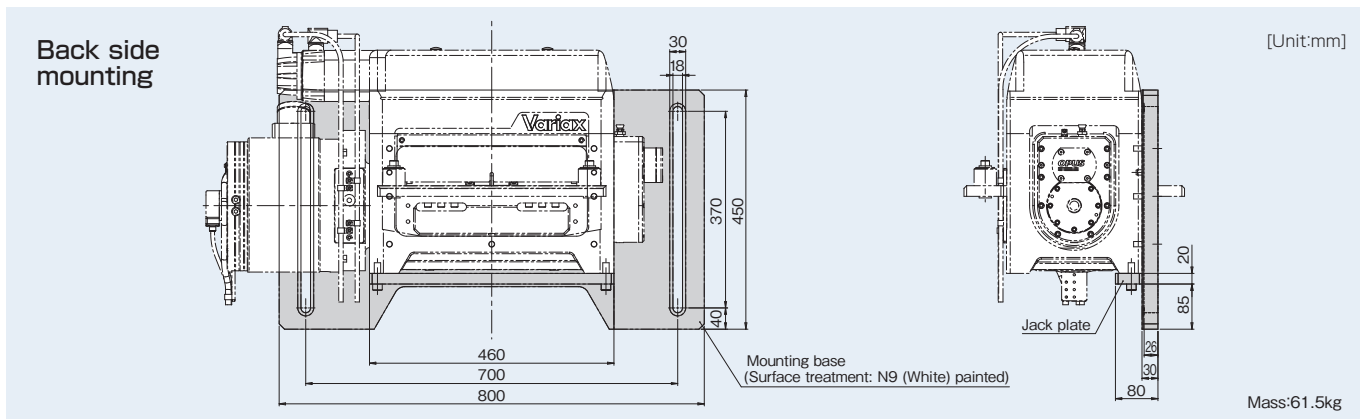
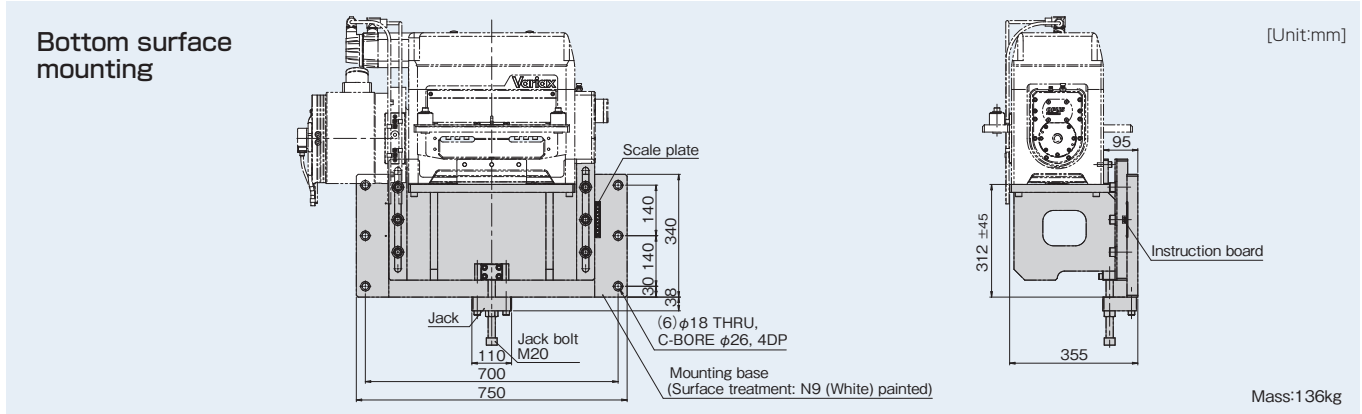


Dimensions, mounting components (optional)

OPUS1-200



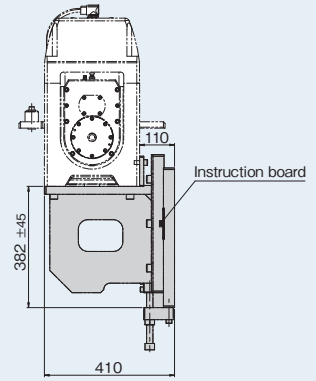
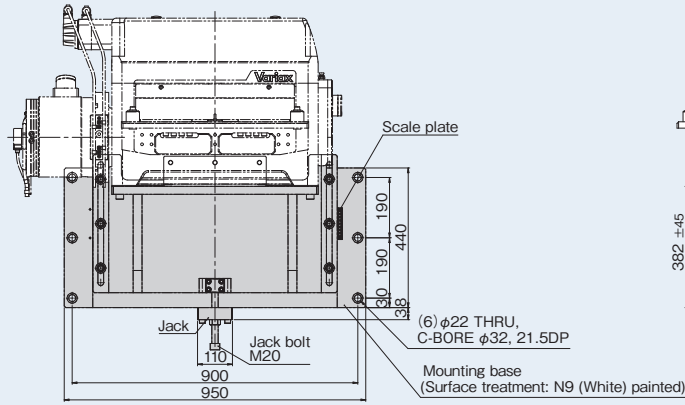
OPUS1-300



*Please prepare your own jack parts

OPUS1-450

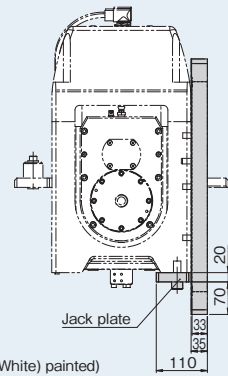
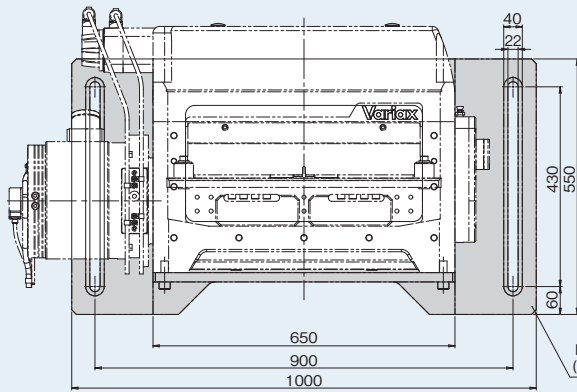
Bottom surface mounting



[Unit:mm]

Mass:267.5kg

Back side mounting

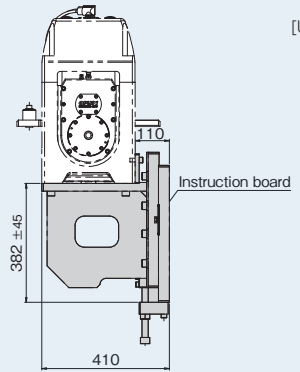
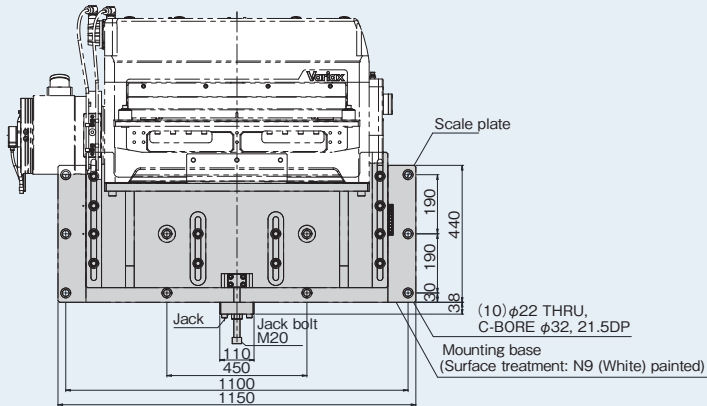


[Unit:mm]

Mass:108kg

OPUS1-650

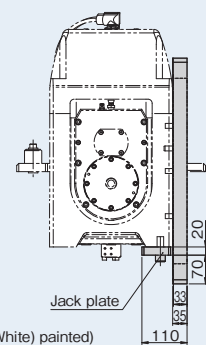
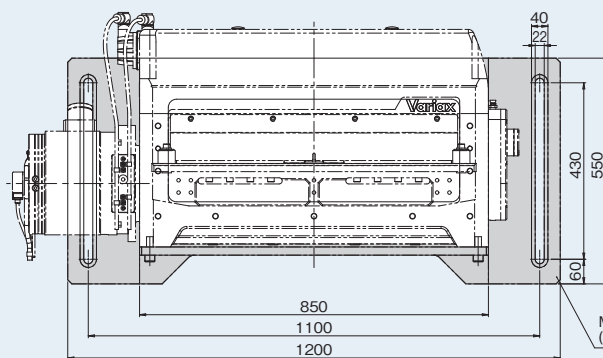
Bottom surface mounting



[Unit:mm]

Mass:314kg

Back side mounting



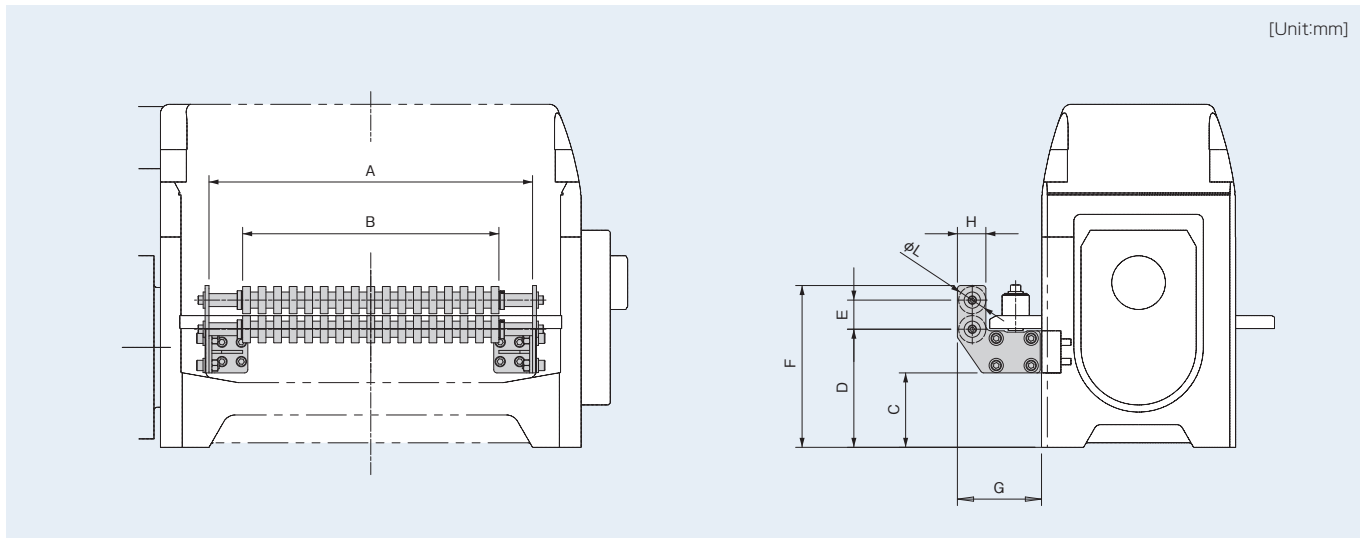
[Unit:mm]

Mass:123kg

*Please prepare your own jack parts

Dimensional drawings, inlet guide (optional)

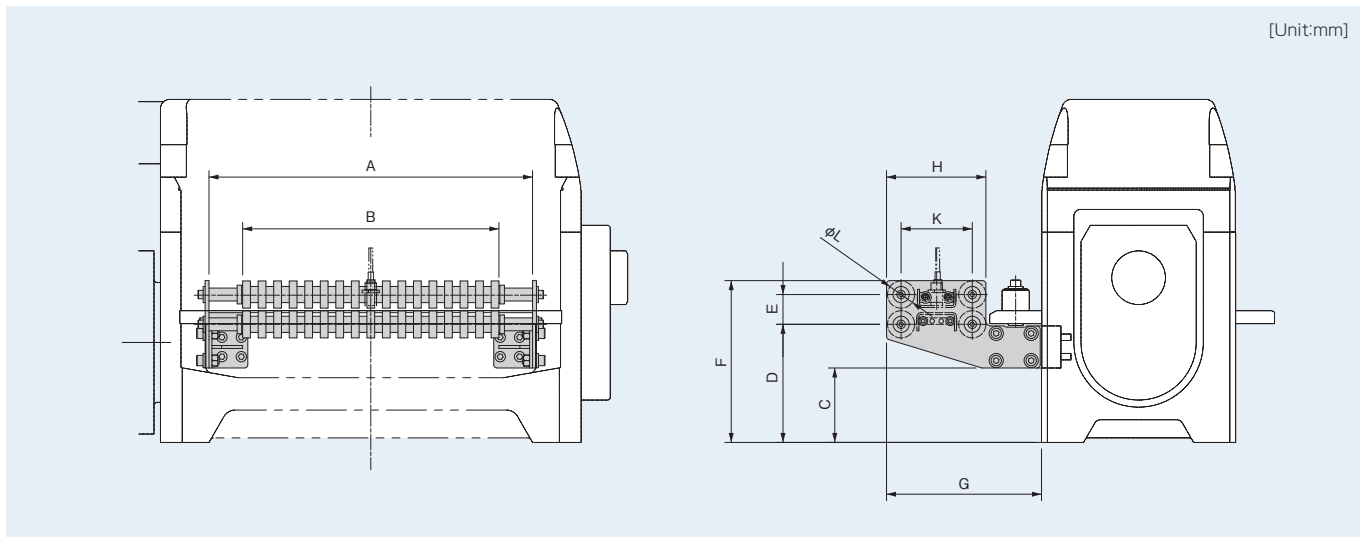
Inlet guide dimensions: single row



Dimension table

Size	A	B	C	D	E	F	G	H	L
OPUS1-200	255	224	86	151	31±2	198	124.5	29	28
OPUS1-300	355	302	86	151	31±2	198	124.5	29	28
OPUS1-450	500	468	115	182.5	45±2	250	130	44	42
OPUS1-650	700	660	115	182.5	45±2	250	130	44	42

Inlet guide dimensions: double row

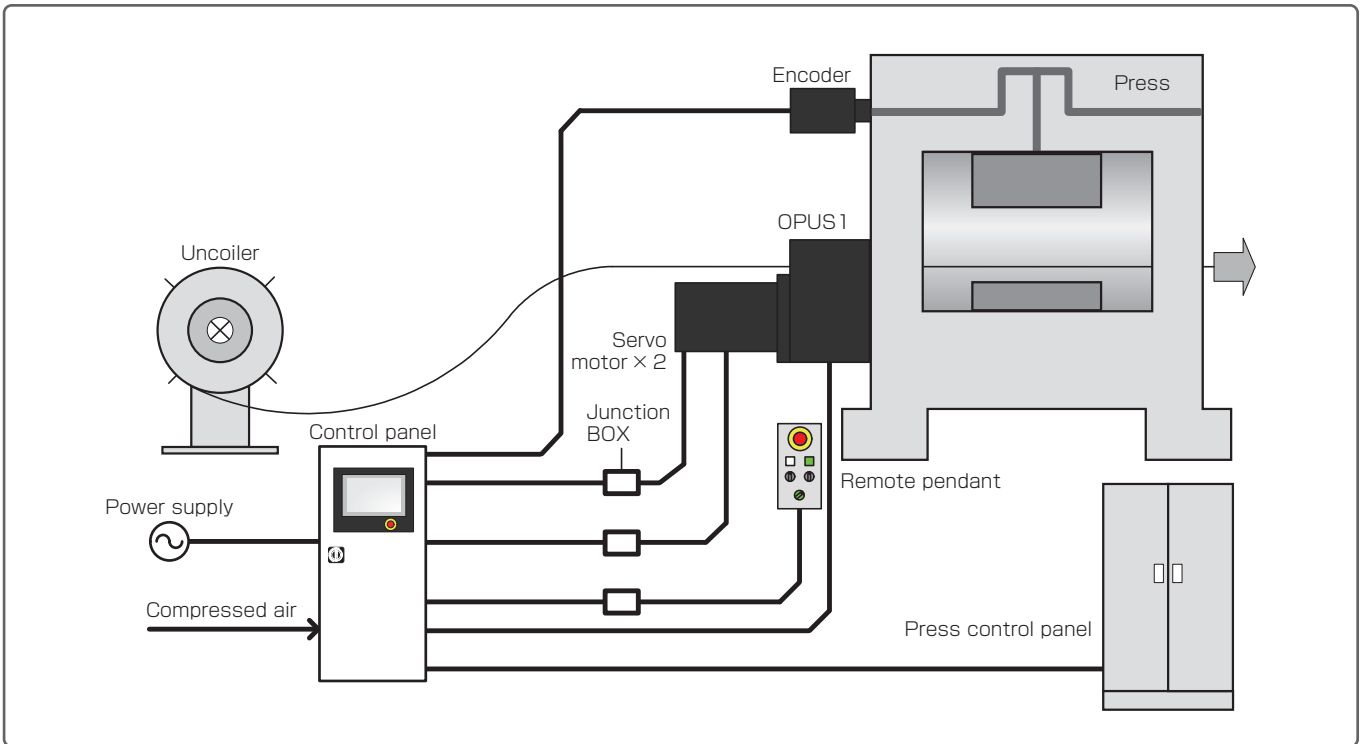


Dimension table

Size	A	B	C	D	E	F	G	H	K	L
OPUS1-200	255	224	86	151	31±2	198	219.5	124	95	28
OPUS1-300	355	302	86	151	31±2	198	219.5	124	95	28
OPUS1-450	500	468	115	182.5	45±2	250	239.5	153.5	110	42
OPUS1-650	700	660	115	182.5	45±2	250	239.5	153.5	110	42

Controller specifications

Control configuration diagram



Control specification table

Electrical specifications	Standard motor specifications	High power motor specification
Power supply *1	Three-phase four-wire system, 380 to 480 VAC ± 10%, 50/60 Hz	
Power capacity	20.78kVA 30A	48.5kVA 70A
Servomotor capacity	Feed motor: 14.5kW equivalent, release motor 1.4kW equivalent	Feed motor: 30kW equivalent, release motor 1.4kW equivalent

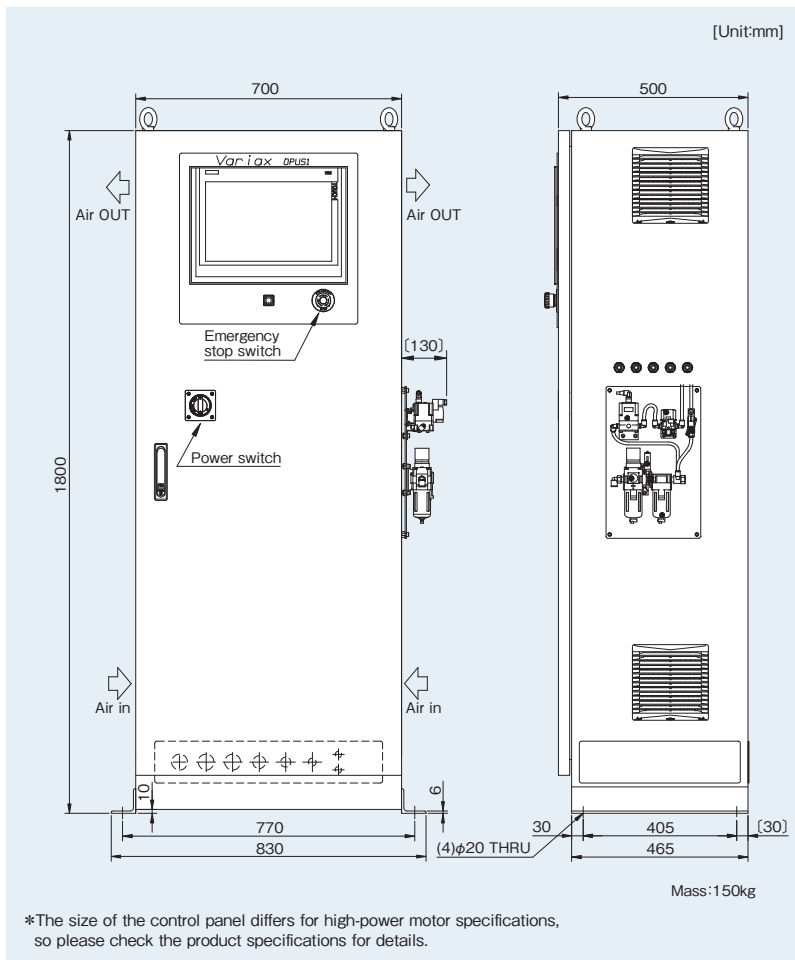
*1 If the power supply is 200 VAC, or there is no N connector (Neutral), an optional external transformer is required.
(Three-phase three-wire 200AC -> three-phase four-wire 400AC)

Control panel specifications	Standard motor specifications	High power motor specification
Size / Weight	H:1800mm W:700mm D:500mm / 150kg	H:1800mm W:900mm D:550mm / 220kg
Paint color	N9 (White)	N9 (White)
Standards	IEC / CE / UL	IEC / UL

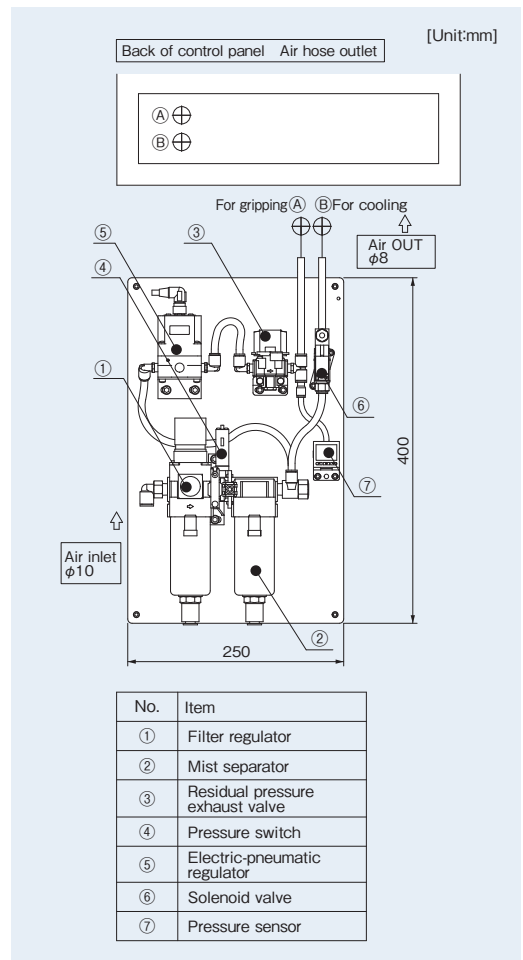
Main functions		
User interface	Touch panel (15 inch), Remote pendant	
Touch panel language	Japanese / English / Chinese / Spanish / Korean	
Number of saved job	200	
Driving operation mode	Automatic operation	You can start automatic operation by entering a job number.
	Manual operation	You can JOG and process feed at set speeds, as well as open or close the rolls.
	Parameters	Various parameters can be set.
Safety function	When an emergency stop signal is input, this function instantly cuts off power to the motor and stops all operation. The system provides safety integrity level 2 (SIL 2) safety category according to IEC 61508 and safety category 3 appropriate for sudden motor stops.	
Security functions	5 user levels (password management)	
Crankshaft encoder	1:1 installation (with vibration isolation mounting kit)	
Linking specification	Up to 5 presses (OPUS1:2+EVR1:2+SCR1:1)	

Control panel dimensional drawings

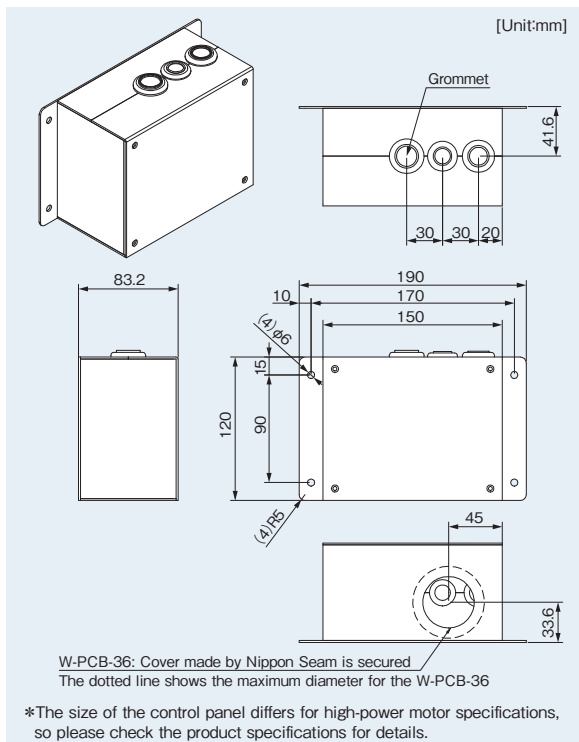
Control panel dimensional drawings



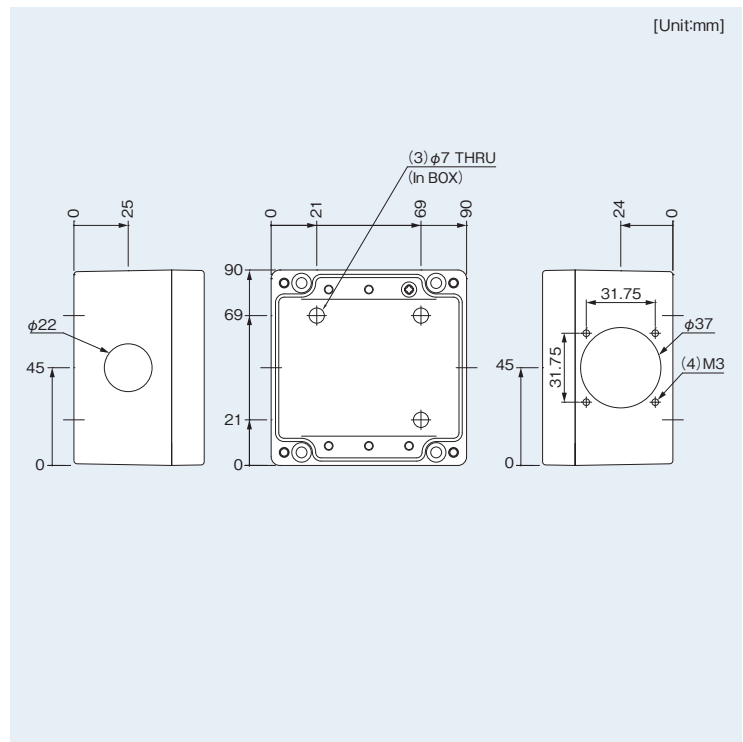
Compressed air equipment



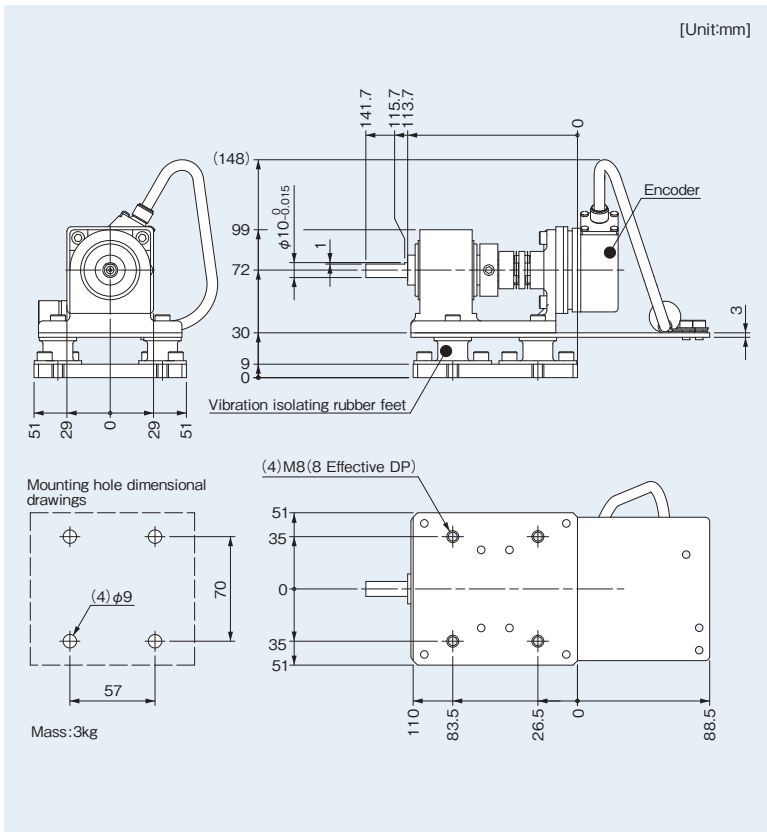
Junction BOX(for motor, encoder cable)



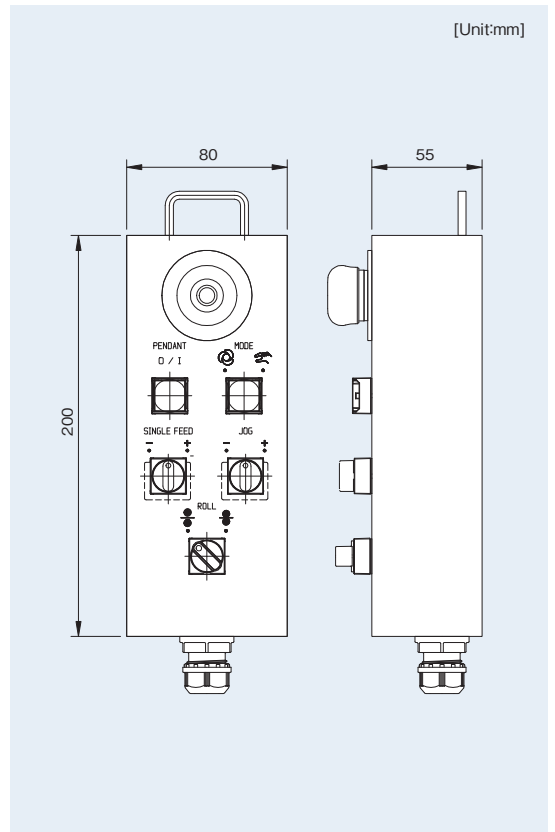
Junction BOX(for remote pendant)



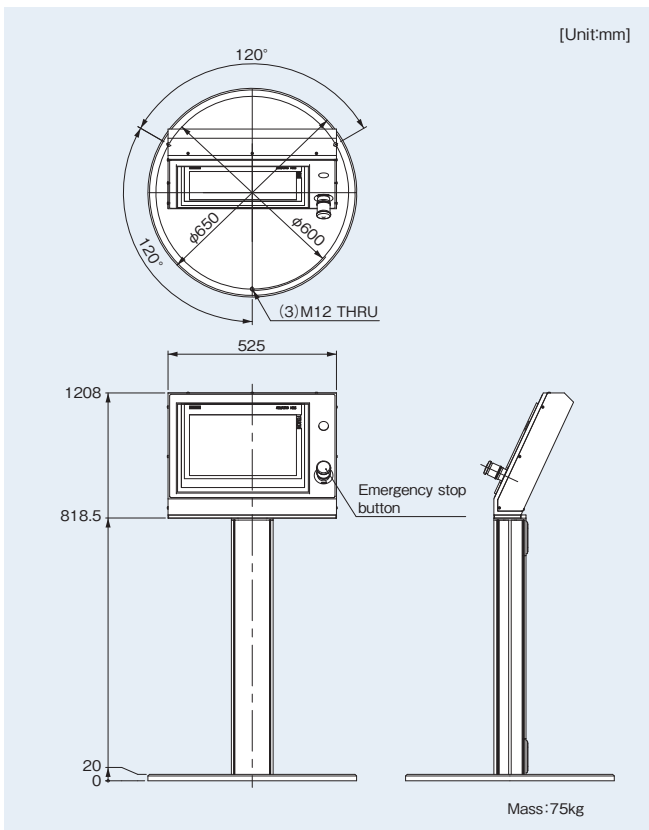
Encoder unit (for press mounting)



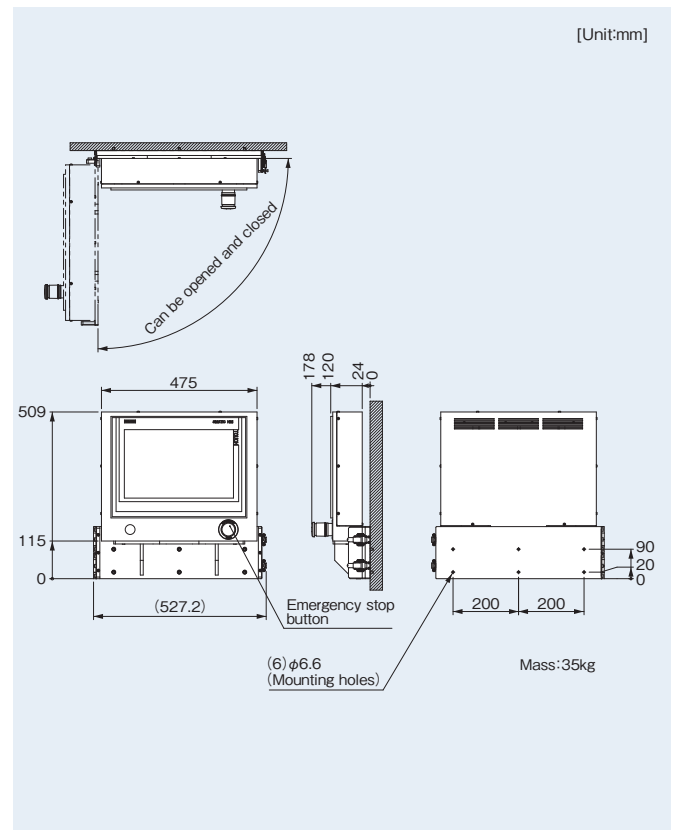
Remote pendant



Panel stand type (option)



Wall hung panel (option)

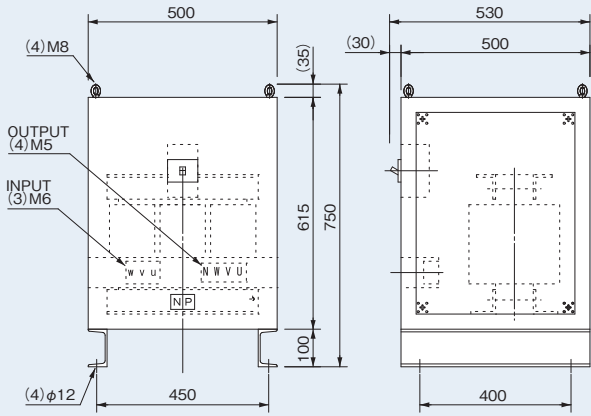


Controller dimensional drawings

External transformer (optional)

If the customer's power supply is 200 VAC or there is no N connector (Neutral), an optional external transformer is required.

Control panel specifications for one standard motor [Unit:mm]

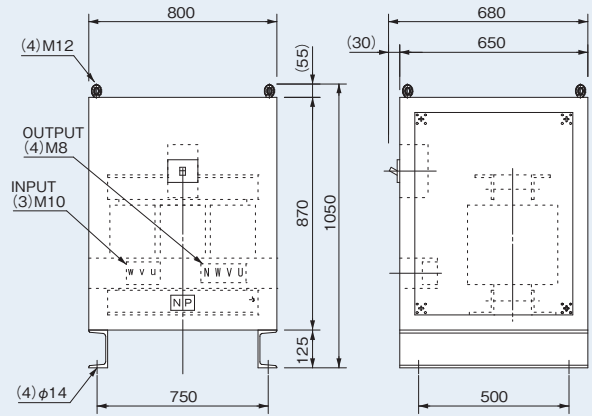


Mass : 165kg, Paint color : 5Y7/1 (semi-gloss)

External transformer specifications	
Number of phases	Three-phase, multiple windings
Frequency	50/60Hz
Rated capacity	20.784kVA
Primary voltage	AC200V
Secondary voltage	AC400V
Secondary current	30A
Primary side: Delta connection	Secondary side: Star connection (with an N connector)
Primary side	Has a breaker

*The transformers that can be used vary, depending on the motor size and type. Please check the product specifications for details.

Control panels specifications for 2 or 3 standard motors [Unit:mm]
Control panel specifications for one high-power motor



Mass : 440kg, Paint color : 5Y7/1 (semi-gloss)

External transformer specifications	
Number of phases	Three-phase, multiple windings
Frequency	50/60Hz
Rated capacity	69.28kVA
Primary voltage	AC200V
Secondary voltage	AC400V
Secondary current	100A
Primary side: Delta connection	Secondary side: Star connection (with an N connector)
Primary side	Has a breaker

Tubing & Cables

- C01 is the power supply cable to the control panel. The customer must supply his own cable.
- C02 and C03 are the power cables to the control panel when an external transformer is used.
- The cables will be laid in flexible metal conduits (KLV series / Nippon Seam).
- For details, please check the OPUS1 product specifications.

