

Optimized Technology

Product Catalogue



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Tablet Pressing Series

P Series

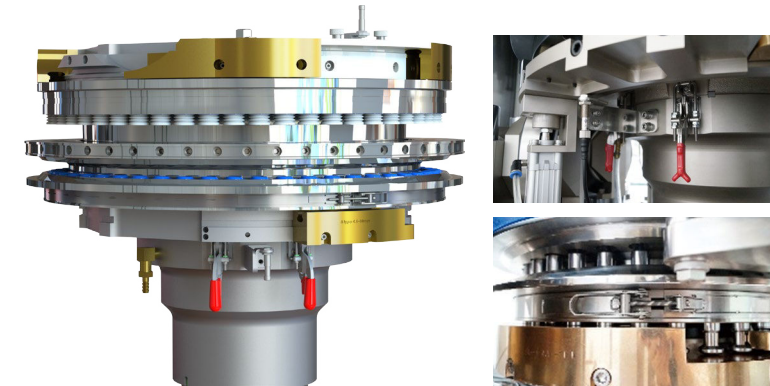
Tablet Pressing Series **P130S**
 Tablet Pressing Series **P210S**
 Tablet Pressing Series **P230D**
 Tablet Pressing Series **P320D**
 Tablet Pressing Series **P420S**
 Tablet Pressing Series **P580D**
 Tablet Pressing Series **P720D**
 Tablet Pressing Series **Automated Line**
 Options

- Operable pre & main pressure force may have differences due to required filling depth, and characteristics of granules.
- Actual work capacity may have differences due to required filling depth, and characteristics of granules.
- Given specifications may be updated without prior notice for improving performance.
- Given dimension may be updated without prior notice for improving performance.
- Footprint layout indicates maximum area based on installation space.

Tablet Pressing Series

□ Disk Exchange System

- Quick replacement of disk and rail set
- Reduced replacement time consumption by approximately 20% compared to the previous model



□ Precise control through servo system

- Easy, precise management of compression force and disk replacement using servo system
- Designed with a compressive force, shear force and load-distribution structure



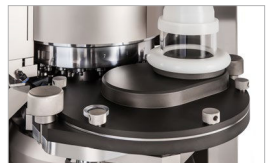
□ Double-layer Tablet Sampling

- Ability to perform 1st layer sampling during double layer production
- Automatic and continuous sampling during production



□ Mechanical Feeder

- Optimized powder feeding rate
- User-friendly structure for maintenance and cleaning
- Automatic powder level management with powder loading unit.
- Ability to monitor powder supplying status



□ Punch tightness management and lubrication system

- High-precision loadcell for tightness rails
- Punch-safety management through tightness monitoring system
- Individual lubrication control system



□ Ejection force management

- Monitoring punch ejection force through loadcell to prevent damage of rail and punches



P130S

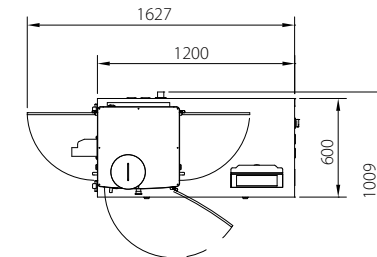


Technical Data

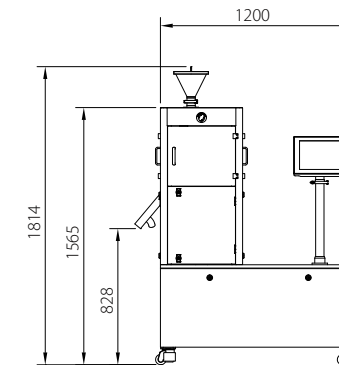
Description		P130S		
		4S/4S	8S	9S
Number of Stations(EA)		4/4	8	9
Pitch Circle Diameter(ømm)		130		
Max. Output (tablet/hour)	Single	9,600	19,200	24,300
Revolution of Disk(RPM)	Single	15-40	15-40	15-45
Max. Tablet Diameter	Round(Ømm)	25/16	25	16
	Oblong(mm)	25/19	25	19
Max. Tablet Thickness(mm)		8.5		
Filling Depth(mm)	0.5-6 / 0.5-4(Optional)	√	√	√
	4.5-10 / 2.5-8	√	√	√
	8.5-14 / 6.5-12	√	√	√
	12.5-18 / 10.5-16	√	√	√
	16.5-22 / 14.5-20(Optional)	√/-	√	-
Upper Punch Insert(mm)		1- 4		
Max. Pre Pressure(kg·f)		500		
Max. Main Pressure(kg·f)		6,000		
Die type		D/B	D	B
Punch type		EU-D/B, TSM-D/B	EU1"-441, EU-D, TSM-D	EU-B, TSM-B
Machine Height(mm)	Excluding Hopper	1,565		
	Including Hopper	1,814		
Dimension(mm)		600 x 1,200		
Machine Weight(kg)		550		
Power Supply Specification		200 / 220 / 380 / 400 / 415 / 440 / 480V 50/60Hz, 3Ph		

Layout and Top View

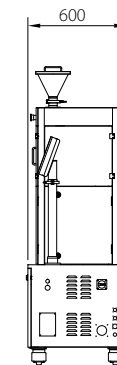
Top View



Front View



Side View



P210S

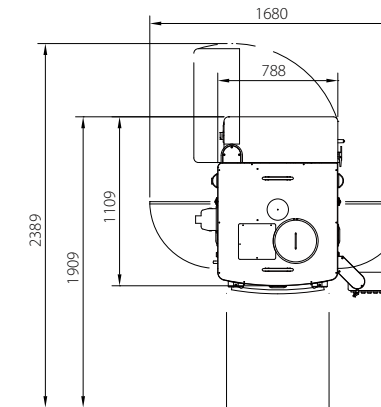


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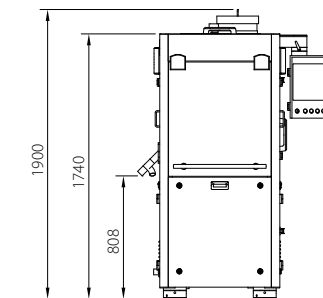
Description		P210S		
		15S	18S	22S
Number of Stations(EA)		15	18	22
Pitch Circle Diameter(ømm)		210		
Max. Output (tablet/hour)	Single	99,000	129,600	158,400
Revolution of Disk(RPM)	Single	15-110	15-120	15-120
Max. Tablet Diameter	Round(Ømm)	25	16	13
	Oblong(mm)	25	19	14
Max. Tablet Thickness(mm)		8.5		
Filling Depth(mm)	0.5-6 / 0.5-4(Optional)	√	√	√
	4.5-10 / 2.5-8	√	√	√
	8.5-14 / 6.5-12	√	√	√
	12.5-18 / 10.5-16	√	√	√
	16.5-22 / 14.5-20(Optional)	√	-	-
Upper Punch Insert(mm)		1- 6		
Max. Pre Pressure(kg-f)		2,000		
Max. Main Pressure(kg-f)		6,000		
Die type		D	B	BB
Punch type		EU1"-441, EU-D, TSM-D	EU-B, TSM-B	EU-B, TSM-B
Machine Height(mm)	Excluding Hopper	1,740		
	Including Hopper	1,900		
Dimension(mm)		788 x 1,109		
Machine Weight(kg)		2,500		
Power Supply Specification		200 / 220 / 380 / 400 / 415 / 440 / 480V 50/60Hz, 3Ph		

Layout and Top View

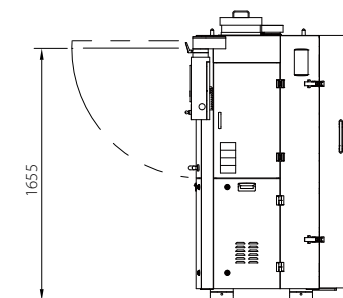
Top View



Front View



Side View



P230D



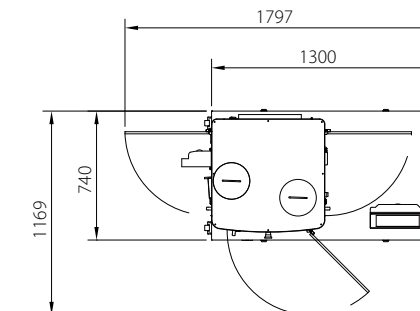
Technical Data

Description		P230D		
		5S/5S	10S	12S
Number of Stations(EA)		5/5	10	12
Pitch Circle Diameter(ømm)		230		
Max. Output (tablet/hour)	Single	12,000	24,000(*36,000)	28,800(*43,200)
	Double	9,000	18,000	21,600
Revolution of Disk(RPM)	Single	10-40	10-40(*60)	10-40(*60)
	Double	10-30	10-30	10-30
Max. Tablet Diameter	Round(Ømm)	25/16	25	16
	Oblong(mm)	25/19	25	19
Max. Tablet Thickness(mm)		8.5		
Filling Depth(mm)	0.5-6 / 0.5-4(Optional)	√	√	√
	4.5-10 / 2.5-8	√	√	√
	8.5-14 / 6.5-12	√	√	√
	12.5-18 / 10.5-16	√	√	√
	16.5-22 / 14.5-20(Optional)	√ / -	√	-
Upper Punch Insert(mm)(Double)		1- 4 (8)		
Max. Pre Pressure(kg·f)		1,000		
Max. Main Pressure(kg·f)		6,000		
Die type		D/B	D	B
Punch type		EU-D/B, TSM-D/B	EU1"-441, EU-D, TSM-D	EU-B, TSM-B
Machine Height(mm)	Excluding Hopper	1,623		
	Including Hopper	1,949		
Dimension(mm)		740 x 1,300		
Machine Weight(kg)		1,050		
Power Supply Specification		200 / 220 / 380 / 400 / 415 / 440 / 480V 50/60Hz, 3Ph		

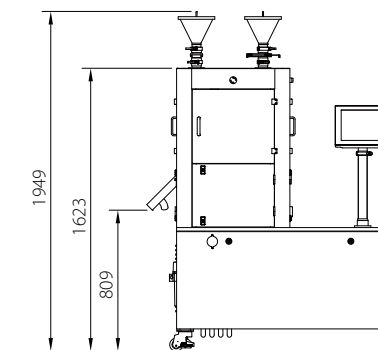
* Indicates rpm and production capacity when automatic lubrication device is installed

Layout and Top View

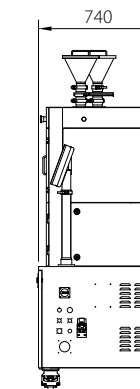
Top View



Front View



Side View



P320D

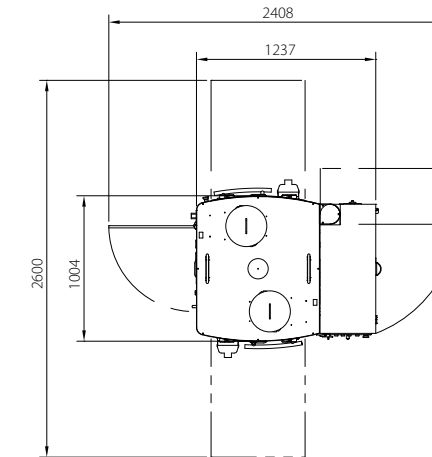


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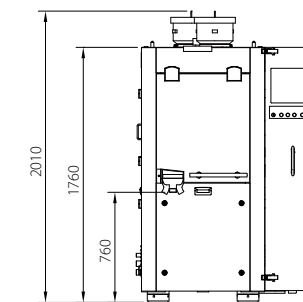
Description		P320D			
		23S	27S	33S	37S
Number of Stations(EA)		23	27	33	37
Pitch Circle Diameter(ømm)		320			
Max. Output (tablet/hour)	Single	179,400	243,000	297,000	333,000
	Double	55,200	64,800	79,200	88,800
Revolution of Disk(RPM)	Single	15-65	15-75	15-75	15-75
	Double	10-40	10-40	10-40	10-40
Max. Tablet Diameter	Round(Ømm)	25	16	13	11
	Oblong(mm)	25	19	14	12
Max. Tablet Thickness(mm)		8.5			
Filling Depth(mm)	0.5-6 / 0.5-4(Optional)	√	√	√	√
	4.5-10 / 2.5-8	√	√	√	√
	8.5-14 / 6.5-12	√	√	√	√
	12.5-18 / 10.5-16	√	√	√	√
	16.5-22 / 14.5-20(Optional)	√	-	-	-
Upper Punch Insert(mm)(Double)		1- 6 (8)			
Max. Pre Pressure(kg·f)		2,000			
Max. Main Pressure(kg·f)		8,000			
Die type		D	B	BB	BBB
Punch type		EU1*-441, EU-D, TSM-D	EU-B, TSM-B	EU-B, TSM-B	EU-B, TSM-B
Machine Height(mm)	Excluding Hopper	1,760			
	Including Hopper	2,010			
Dimension(mm)		1,004 x 1,237			
Machine Weight(kg)		2,500			
Power Supply Specification		200 / 220 / 380 / 400 / 415 / 440 / 480V 50/60Hz, 3Ph			

Layout and Top View

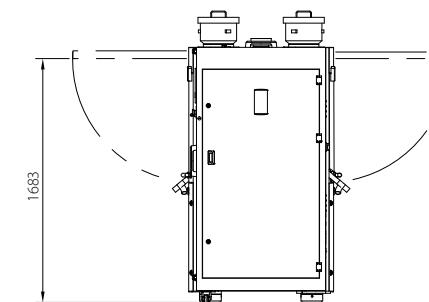
Top View



Front View



Side View



P420S

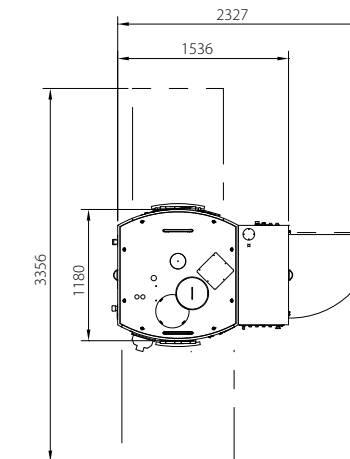


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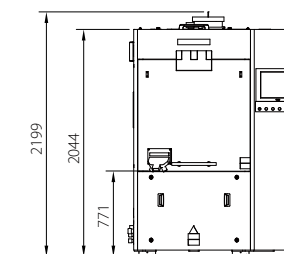
Description		P420S			
		31S	37S	45S	47S
Number of Stations(EA)		31	37	45	47
Pitch Circle Diameter(ømm)		420			
Max. Output (tablet/hour)	Single	186,000	244,200	297,000	310,200
Revolution of Disk(RPM)	Single	15-100	15-110	15-110	15-110
Max. Tablet Diameter	Round(Ømm)	25	16	13	11
	Oblong(mm)	25	19	14	12
Max. Tablet Thickness(mm)		8.5			
Filling Depth (mm)	0.5-6 / 0.5-4(Optional)	√	√	√	√
	4.5-10 / 2.5-8	√	√	√	√
	8.5-14 / 6.5-12	√	√	√	√
	12.5-18 / 10.5-16	√	√	√	√
	16.5-22 / 14.5-20(Optional)	√	-	-	-
Upper Punch Insert(mm)		1- 6			
Max. Pre Pressure(kg·f)		10,000			
Max. Main Pressure(kg·f)		10,000			
Die type		D	B	BB	BBB
Punch type		EU 1"-441, EU-D, TSM-D	EU-B, TSM-B	EU-B, TSM-B	EU-B, TSM-B
Machine Height(mm)	Excluding Hopper	2,044			
	Including Hopper	2,199			
Dimension(mm)		1,180 x 1,536			
Machine Weight(kg)		4,000			
Power Supply Specification		200 / 220 / 380 / 400 / 415 / 440 / 480V 50/60Hz, 3Ph			

Layout and Top View

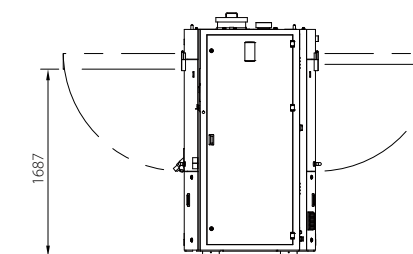
Top View



Front View



Side View



P580D

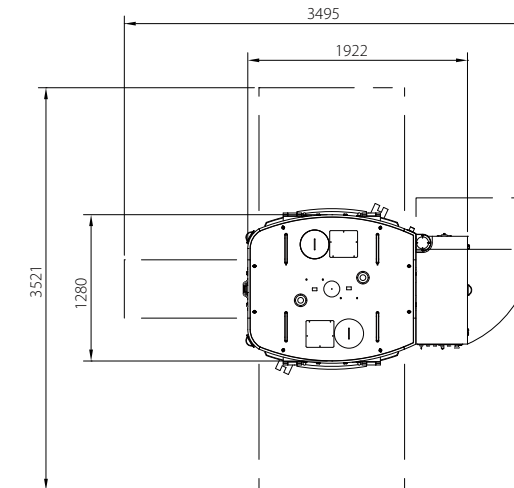


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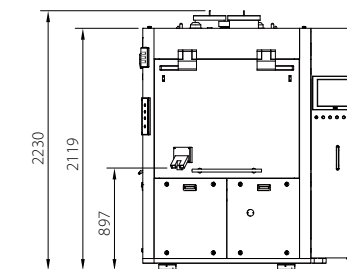
Description		P580D			
		41S	51S	63S	67S
Number of Stations(EA)		41	51	63	67
Pitch Circle Diameter(ømm)		580			
Max. Output (tablet/hour)	Single	393,600	550,800	680,400	723,600
	Double	98,400	122,400	151,200	160,800
Revolution of Disk(RPM)	Single	15-80	15-90	15-90	15-90
	Double	10-40	10-40	10-40	10-40
Max. Tablet Diameter	Round(Ømm)	25	16	13	11
	Oblong(mm)	25	19	14	12
Max. Tablet Thickness(mm)		8.5			
Filling Depth(mm)	0.5-6 / 0.5-4(Optional)	√	√	√	√
	4.5-10 / 2.5-8	√	√	√	√
	8.5-14 / 6.5-12	√	√	√	√
	12.5-18 / 10.5-16	√	√	√	√
	16.5-22 / 14.5-20(Optional)	√	-	-	-
Upper Punch Insert(mm)(Double)		1- 6 (8)			
Max. Pre Pressure(kg·f)		3,000			
Max. Main Pressure(kg·f)		10,000			
Die type		D	B	BB	BBB
Punch type		EU1*-441, EU-D, TSM-D	EU-B, TSM-B	EU-B, TSM-B	EU-B, TSM-B
Machine Height(mm)	Excluding Hopper	2,119			
	Including Hopper	2,230			
Dimension(mm)		1,280 x 1,922			
Machine Weight(kg)		5,300			
Power Supply Specification		200 / 220 / 380 / 400 / 415 / 440 / 480V 50/60Hz, 3Ph			

Layout and Top View

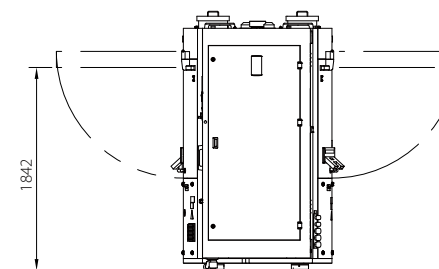
Top View



Front View



Side View



P720D

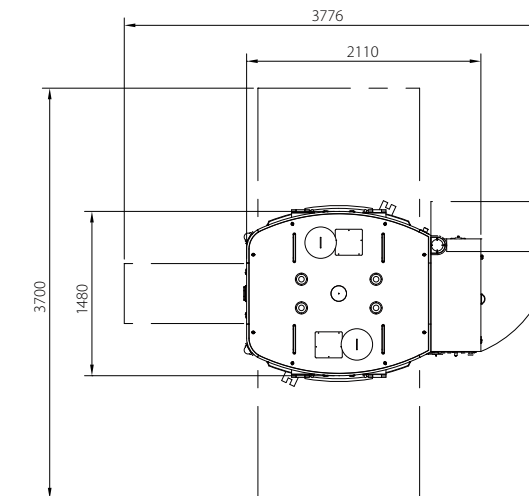


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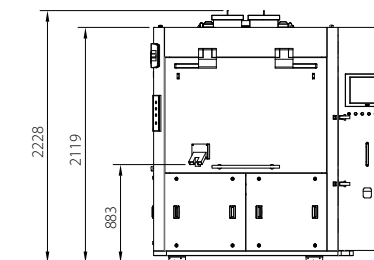
Description		P720D			
		53S	65S	77S	83S
Number of Stations(EA)		53	65	77	83
Pitch Circle Diameter(ømm)		720			
Max. Output (tablet/hour)	Single	477,000	663,000	785,400	846,600
	Double	127,200	156,000	184,800	199,200
Revolution of Disk(RPM)	Single	15-75	15-85	15-85	15-85
	Double	10-40	10-40	10-40	10-40
Max. Tablet Diameter	Round(ømm)	25	16	13	11
	Oblong(mm)	25	19	14	12
Max. Tablet Thickness(mm)		8.5			
Filling Depth(mm)	0.5-6 / 0.5-4(Optional)	√	√	√	√
	4.5-10 / 2.5-8	√	√	√	√
	8.5-14 / 6.5-12	√	√	√	√
	12.5-18 / 10.5-16	√	√	√	√
	16.5-22 / 14.5-20(Optional)	√	-	-	-
Upper Punch Insert(mm)(Double)		1- 6 (8)			
Max. Pre Pressure(kg·f)		10,000			
Max. Main Pressure(kg·f)		10,000			
Die type		D	B	BB	BBB
Punch type		EU1*-441, EU-D, TSM-D	EU-B, TSM-B	EU-B, TSM-B	EU-B, TSM-B
Machine Height(mm)	Excluding Hopper	2,119			
	Including Hopper	2,228			
Dimension(mm)		1,480 x 2,110			
Machine Weight(kg)		6,500			
Power Supply Specification		200 / 220 / 380 / 400 / 415 / 440 / 480V 50/60Hz, 3Ph			

Layout and Top View

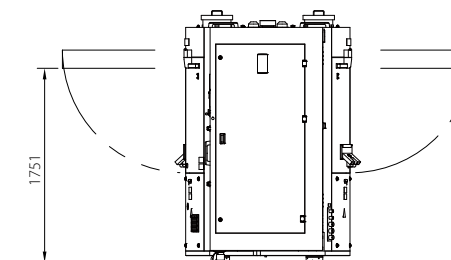
Top View



Front View



Side View



Automated Line



Options



Mechanical Feeder



Constant Amount Feeder



Dedusting Unit



Disk Changeable



Calibration Kits



Dust Collecting Unit



Metal Detecting Unit



Powder Loading Unit



Drum/ IBC Bin Lifting System Unit



Metal Detect Dedusting Unit



Tablet Testing Unit

Capsule Filling Series

F

Series

Capsule Filling Series **F3**
 Capsule Filling Series **F50**
 Capsule Filling Series **F125**
 Capsule Filling Series **F180**
 Capsule Filling Series **Automated Line**
Options

- Actual work capacity may have differences due to required filling depth, and characteristics of granules.
- Given specifications may be updated without prior notice for improving performance.
- Given dimension may be updated without prior notice for improving performance.
- Footprint layout indicates maximum area based on installation space.

Capsule Filling Series

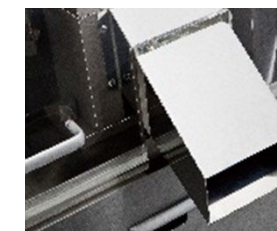
Enhanced Dust Collecting Efficiency

- Optimized design to enhance dust collecting efficiency
- Minimized powder scattering



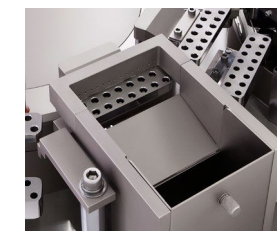
Capsule Closing, Discharging and Cleaning features

- Improved scattered powder cleaning through enhanced and optimized dust collection structure
- Minimized powder scattering to reduce defective capsule production rate



Reliable Faulty Capsules Management

- Ability to accurately manage faulty capsule ejection by discharge pin and air block.
- Dedicated storage for faulty capsules



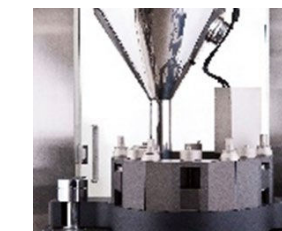
Mechanical cam-driven structure

- Perfect driving sequence through precision-designed cam and index drive
- Minimized noise, vibration and harshness
- Long-lasting components and consumables



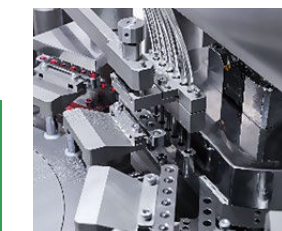
Efficient powder feeding

- Precision-designed powder impeller
- User-friendly structure for maintenance and cleaning



Pellets, Tablets and Liquid Filling peripheral devices

- Ability to fill single or multiple materials using different replaceable filling modules.



F3

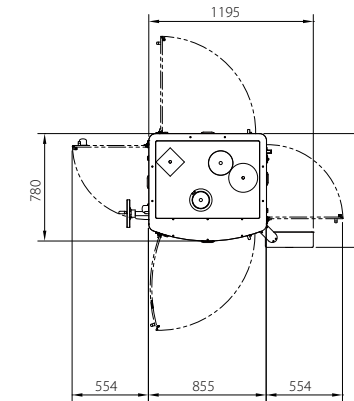


Technical Data

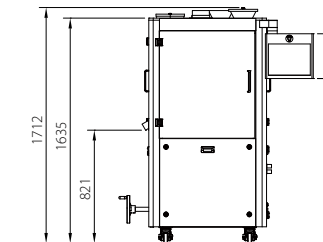
Description		F3
Numbers of Segment Hole		1
Max. Output : Powder(caps/hour)		3,600
Max. Speed(unit/min)		60
Range of capsule Size		#00~#4 / #000, #5(Optional)
Main Motor(kW)		0.4
Dimension(mm)		1,195 X 826
Machine Height(mm)	Excluding Hopper	1,635
	Including Hopper	1,712
Machine Weight(kg)		850
Powder hopper capacity(ℓ)		2.5
dB		80dB ↓
Compressed Air Requirement		6kg/cm ² , 100ℓ/min
Power Supply Specification		220 / 380 / 400 / 415 / 440 V, 50 / 60Hz, 3Ph

Layout and Top View

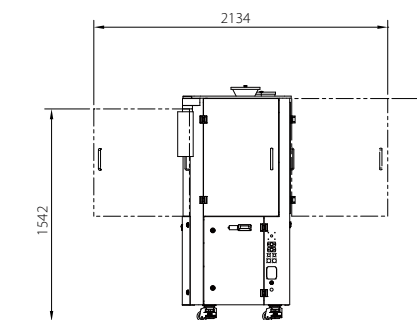
Top View



Front View



Side View



F50

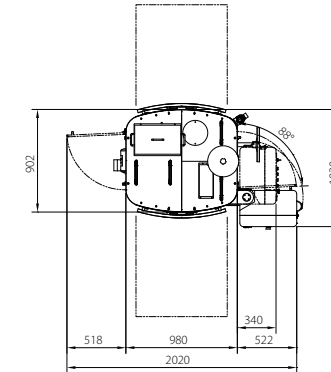


Technical Data

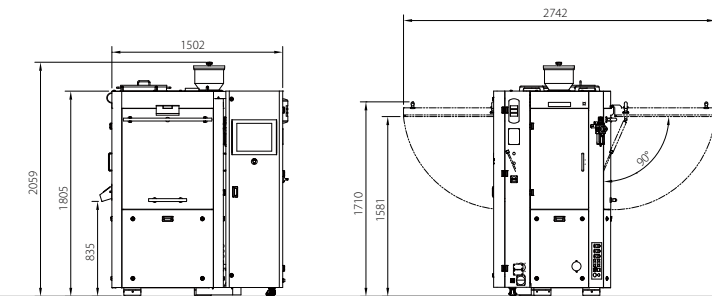
Description		F50
Numbers of Segment Hole		6
Max. Output : Powder(caps/hour)		50,400
Max. Speed(unit/min)		140
Range of capsule Size		#00~#4 / #000, #5(Optional)
Main Motor(kW)		0.75
Dimension(mm)		1,502 X 1,030
Machine Height(mm)	Excluding Hopper	1,805
	Including Hopper	2,059
Machine Weight(kg)		1,500
Powder hopper capacity(ℓ)		24
dB		80dB ↓
Compressed Air Requirement		6kg/cm ² , 400ℓ/min
Power Supply Specification		220 / 380 / 400 / 415 / 440 V, 50 / 60Hz, 3Ph

Layout and Top View

Top View



Front View



Side View

F125

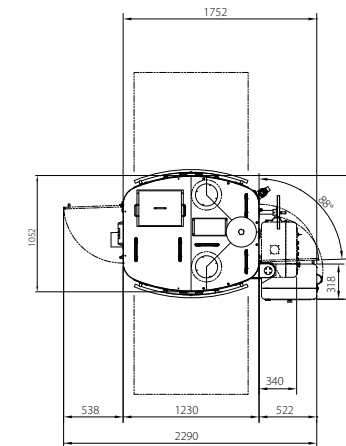


Technical Data

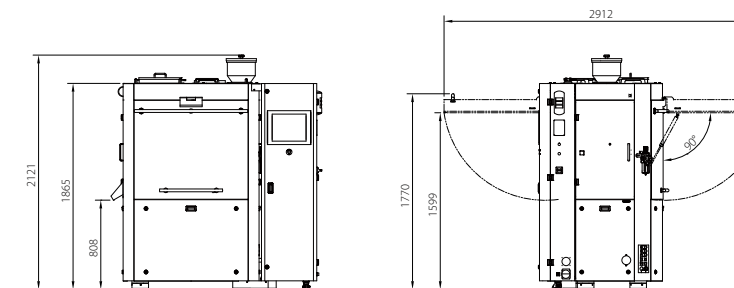
Description		F125
Numbers of Segment Hole		15
Max. Output : Powder(caps/hour)		126,000
Max. Speed(unit/min)		140
Range of capsule Size		#00~#4 / #000, #5(Optional)
Main Motor(kW)		2.2
Dimension(mm)		1,752 X 1,119
Machine Height(mm)	Excluding Hopper	1,865
	Including Hopper	2,121
Machine Weight(kg)		2,300
Powder hopper capacity(ℓ)		24
dB		80dB ↓
Compressed Air Requirement		6kg/cm ² , 600ℓ/min
Power Supply Specification		220 / 380 / 400 / 415 / 440 V, 50 / 60Hz, 3Ph

Layout and Top View

Top View



Front View



Side View

F180

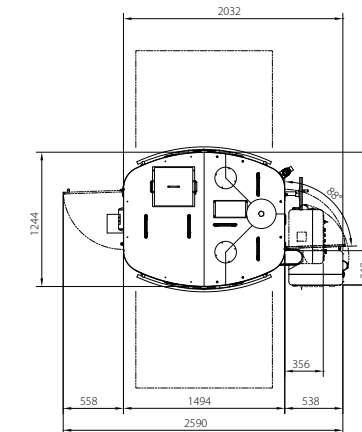


Technical Data

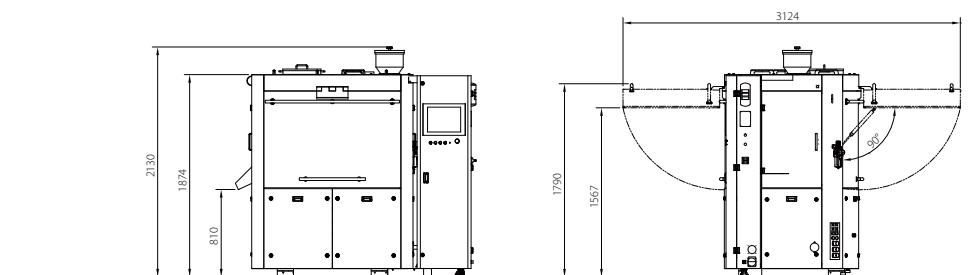
Description		F180
Numbers of Segment Hole		22
Max. Output : Powder(caps/hour)		184,800
Max. Speed(unit/min)		140
Range of capsule Size		#00~#4 / #5(Optional)
Main Motor(kW)		4
Dimension(mm)		2,032 X 1,230
Machine Height(mm)	Excluding Hopper	1,874
	Including Hopper	2,130
Machine Weight(kg)		3,000
Powder hopper capacity(ℓ)		24
dB		80dB ↓
Compressed Air Requirement		6kg/cm ² , 800ℓ/min
Power Supply Specification		220 / 380 / 400 / 415 / 440 V, 50 / 60Hz, 3Ph

Layout and Top View

Top View



Front View



Side View

Automated Line



Options



Dosing Disk



Change Parts



Dust Collecting Unit



Capsule Polishing Unit



Vertical Capsule Polishing Unit



Capsule Loading Unit



Metal Detecting Unit



Drum/ IBC Bin Lifting Unit



Powder Loading Unit

IW Series

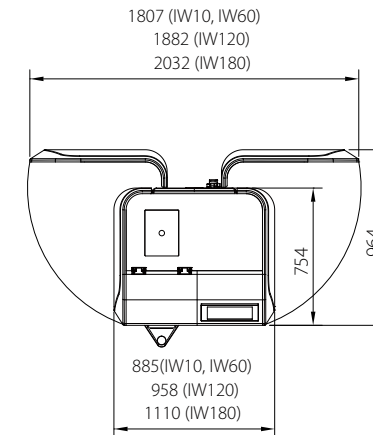


Technical Data

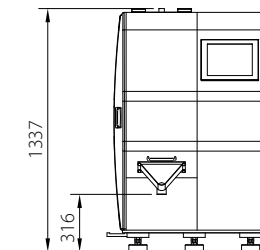
Description	IW SERIES			
	IW10	IW60	IW120	IW180
Measurement Range(mg)	0 to 1,800			
Max. Output (Caps/Hour)	10,000	60,000	120,000	180,000
Range of Capsule Size	#000, #00, #0el, #0, #1, #2, #3, #4, #5			
Accuracy(mg)	± 2 mg			
Measurement Display Range(mg)	0 to 1,800(Digital Display)			
Defective Product Rejection	2 Way(Pass & Faulty)			
Alarm Function	Door Safety Interlocking System, Main Motor Overload Alarm, Load Cell Overload / Communication Error Alarm, etc.			
Stable Operating Temperature(°C)	15 to 25 °C(Temperature Change During Operation: 1 °C per Hour)			
Compressed Air Requirement	6 kgf /cm ² , 15ℓ/min	6 kgf /cm ² , 25ℓ/min	6 kgf /cm ² , 50ℓ/min	6 kgf /cm ² , 75ℓ/min
Dimension(mm)	885 X 754	885 X 754	958 X 754	1,110 X 754
Machine Height(mm)	1,337	1,337	1,337	1,337
Machine Weight(kg)	230	300	350	420
Power Supply Specification	220 / 380 / 400 / 415 / 440 V, 50 / 60Hz, 3Ph			

IW120 Layout and Top View

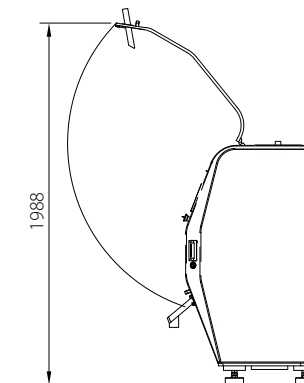
Top View



Front View



Side View



Auto Coating Series

C Series

Auto Coating Series **C30**

Auto Coating Series **C60**

Auto Coating Series **C100**

Auto Coating Series **SFC-130**

Auto Coating Series **SFC Series**

Option

- The capacity may have difference due to tablet shape, and require coating pan revolution speed.
- Working capacity is based on final product. To have safe batch, it is highly recommended to operate with a volume less than maximum.
- Given specifications may be updated without prior notice for improving performance.

Auto Coating Series

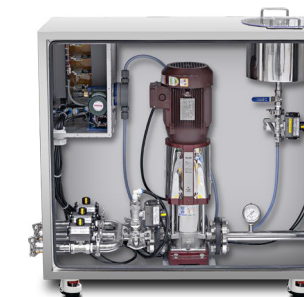
□ Tablet Temperature monitoring

- Real-time temperature monitoring of the tablet surface by non-contact infrared temperature sensor



□ Automatic CIP System

- High-quality detergent pump and three-way water supply system
- Effective cleaning with intensive CIP pump
- Extendable automatic CIP system through recipe management
- CIP cleaning in IP65(NEMA-4) grade



□ Various Coating Applications

- Capability for various products including Film, Sugar, Enteric according to the purpose of coating.



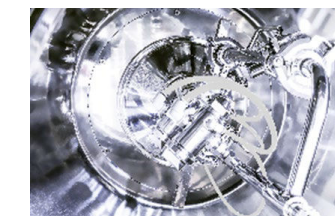
□ Wide-capacity coverage

- Various models from R&D to Mass-production
- Wide coating capacity coverage of the pan
- Selectable coating pan capacities for various production range (C series)



□ Automatic Coating System

- Maximized drying efficiency through efficient inlet/outlet structure
- Easy spray gun management through sliding spray gun pipe
- Optimized spray gun placement for high-quality coating
- Extendable automatic coating system using recipe management



C30

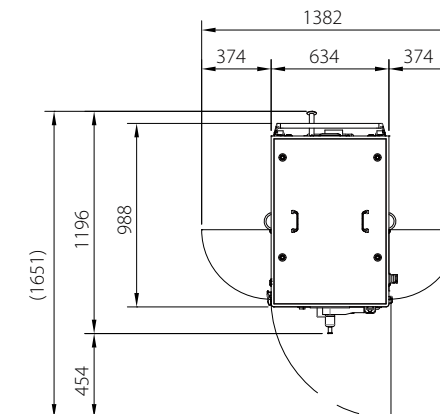


Technical Data

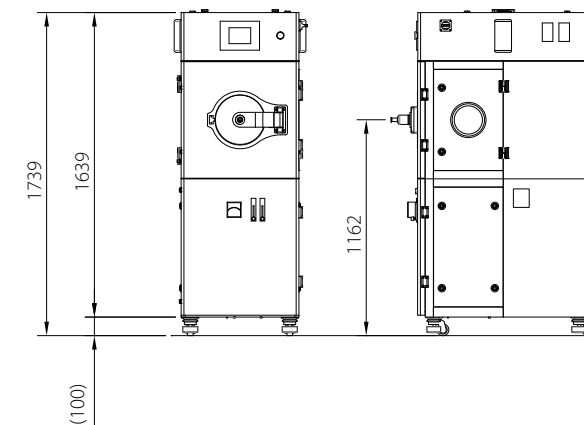
Description		C30			
Coating Pan Diameter(Ø mm)		350	400	460	480
Working Capacity	ℓ/batch	0.4 ~ 1	0.8 ~ 2.5	1 ~ 5	1.4 ~ 8.3
	kg/batch	0.3 ~ 0.7	0.5 ~ 1.7	0.7~3.5	1 ~ 5.8
Coating Pan Speed(rpm)		3~50			
Coating Pan Motor(kW)		0.4			
Total Power Consumption(kW)		10			
Compressed Air Consumption(ℓ/min)		493			
Type of Heating		Electric Heat Exchanging System			
Filtration System		Inlet: Pre, Medium / Outlet: Cartridge			
Model of Spray Gun		Schlick Gun			
No. of Spray Gun(EA)		1			
Tablet Temperature Sensor		Infrared Sensor(Non-Contact Detection)			
Inlet(Heat Exchanging System)	HEPA Filter(Standard)	●			
	HEPA Filter(Optional)	●			
Supply System	Air Flow(CMM)	14.5			
	Air Pressure(mmAq)	60			
Exhaust System	Air Flow(CMM)	11			
	Air Pressure(mmAq)	120			
Cleaning System		Manual			
Solution Pump	Film	Peristaltic Pump			
	Sugar	Peristaltic Pump			
Dimension(mm)	Width	634			
	Depth	988			
	Height	1,739			
OS		HMI(21 CFR Part 11 Compliant)			
Power Supply Specification		200 / 220 / 380 / 400 / 415 / 440 / 480V, 50/60Hz, 3Ph			

Layout and Top View

Top View



Front View



Side View

C60

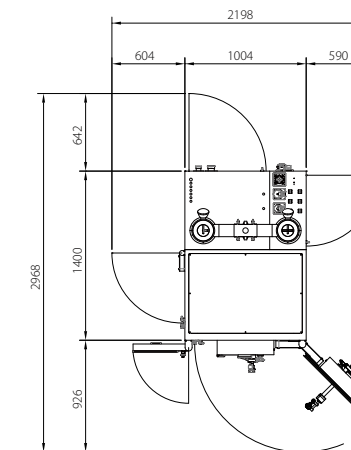


Technical Data

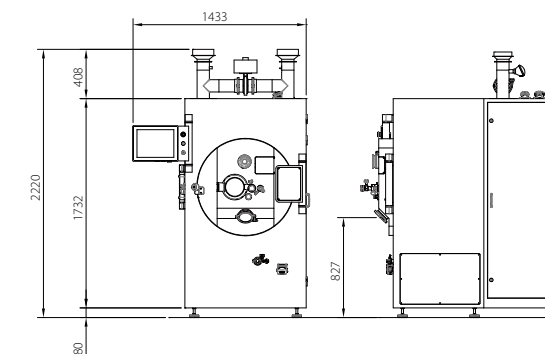
Description		C60		
Coating Pan Diameter(Ømm)		530	580	650
Working Capacity	ℓ/batch	2.4~6	4.8 ~ 12	9.6 ~ 24
	(Density: 0.7) kg/batch	1.7 ~ 4.2	3.4 ~ 8.4	6.7 ~ 16.8
Coating Pan Speed(rpm)		1~25		
Coating Pan Motor(kW)		0.75		
Total Power Consumption(kW)		14.25		
Compressed Air Consumption(ℓ/min)		480		
Type of Heating		Saturated steam		
Filtration System		Inlet: Pre, Medium / Outlet: Cartridge		
Model of Spray Gun		Schlick Gun		
No. of Spray Gun(EA)		1		
Tablet Temperature Sensor		Infrared Sensor(Non-Contact Detection)		
Inlet(Heat Exchanging System)	HEPA Filter(Optional)	●		
	Outlet(Dust Collecting System)	●		
Supply System	Air Flow(CMM)	30		
	Air Pressure(mmAq)	60		
Exhaust System	Air Flow(CMM)	30		
	Air Pressure(mmAq)	350		
Cleaning System	Standard	WIP Pump		
	Auto-Cycle(Optional)	CIP Unit with 3 Individual Water Supply Connection, Detergent Container with Pump and Air-Purging System		
Solution Pump	Film	Peristaltic Pump		
	Sugar	Diaphragm Pump		
Dimension(mm)	Width	1,004		
	Depth	1,400		
	Height	2,220		
OS		HMI(21 CFR Part 11 Compliant)		
Power Supply Specification		200 / 220 / 380 / 400 / 415 / 440 / 480V, 50/60Hz, 3Ph		

Layout and Top View

Top View



Front View



Side View

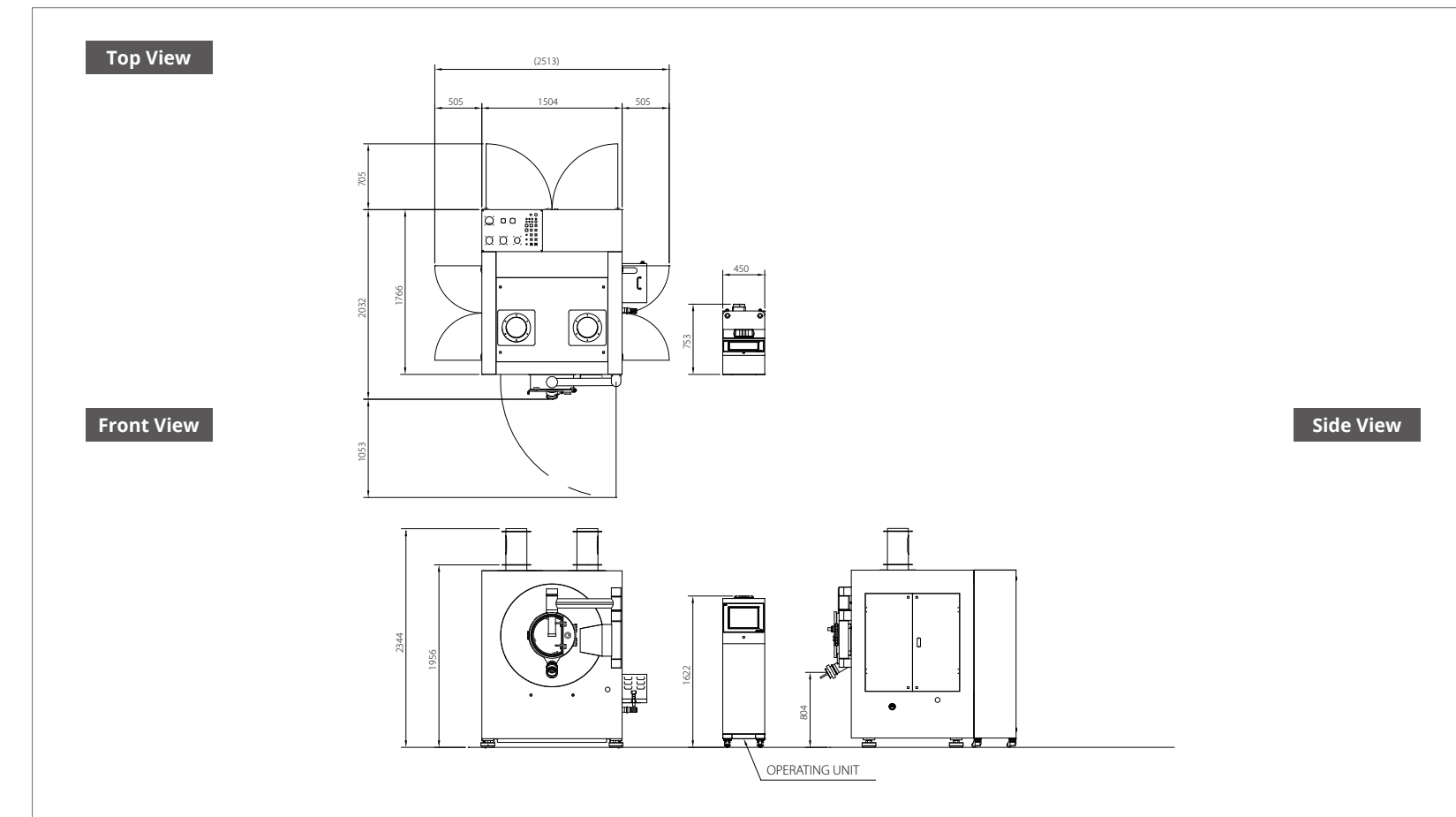
C100



Technical Data

Description		C100			
Coating Pan Diameter(Ømm)		700	730	840	950
Working Capacity	ℓ/batch	13 ~ 30	15 ~ 40	24 ~ 70	34 ~ 115
	(Density: 0.7) kg/batch	9 ~ 21	10 ~ 28	17 ~ 49	24 ~ 80
Coating Pan Speed(rpm)		1~20			
Coating Pan Motor(kW)		2.2			
Total Power Consumption(kW)		20			
Compressed Air Consumption(ℓ/min)		1,000			
Type of Heating		Saturated steam			
Filtration System		Inlet: Pre, Medium / Outlet: Cartridge			
Model of Spray Gun		Schlick Gun			
No. of Spray Gun(EA)		4			
Tablet Temperature Sensor		Infrared Sensor(Non-Contact Detection)			
Inlet(Heat Exchanging System)	HEPA Filter(Optional)	●			
	Outlet(Dust Collecting System)	●			
Supply System	HEPA Filter(Optional)	●			
	Air Flow(CMM)	45			
Exhaust System	Air Pressure(mmAq)	85			
	Air Flow(CMM)	45			
Cleaning System	Air Pressure(mmAq)	450			
	Standard	WiP Pump			
Solution Pump	Auto-Cycle(Optional)	CIP Unit with 3 Individual Water Supply Connection, Detergent Container with Pump and Air-Purging System			
	Film	Peristaltic Pump			
Dimension(mm)	Sugar	Diaphragm Pump			
	Width	1,504			
OS	Depth	1,766			
	Height	2,344			
Power Supply Specification		HMI (21 CFR Part 11 Compliant)			
		200 / 220 / 380 / 400 / 415 / 440 / 480V, 50/60Hz, 3Ph			

Layout and Top View



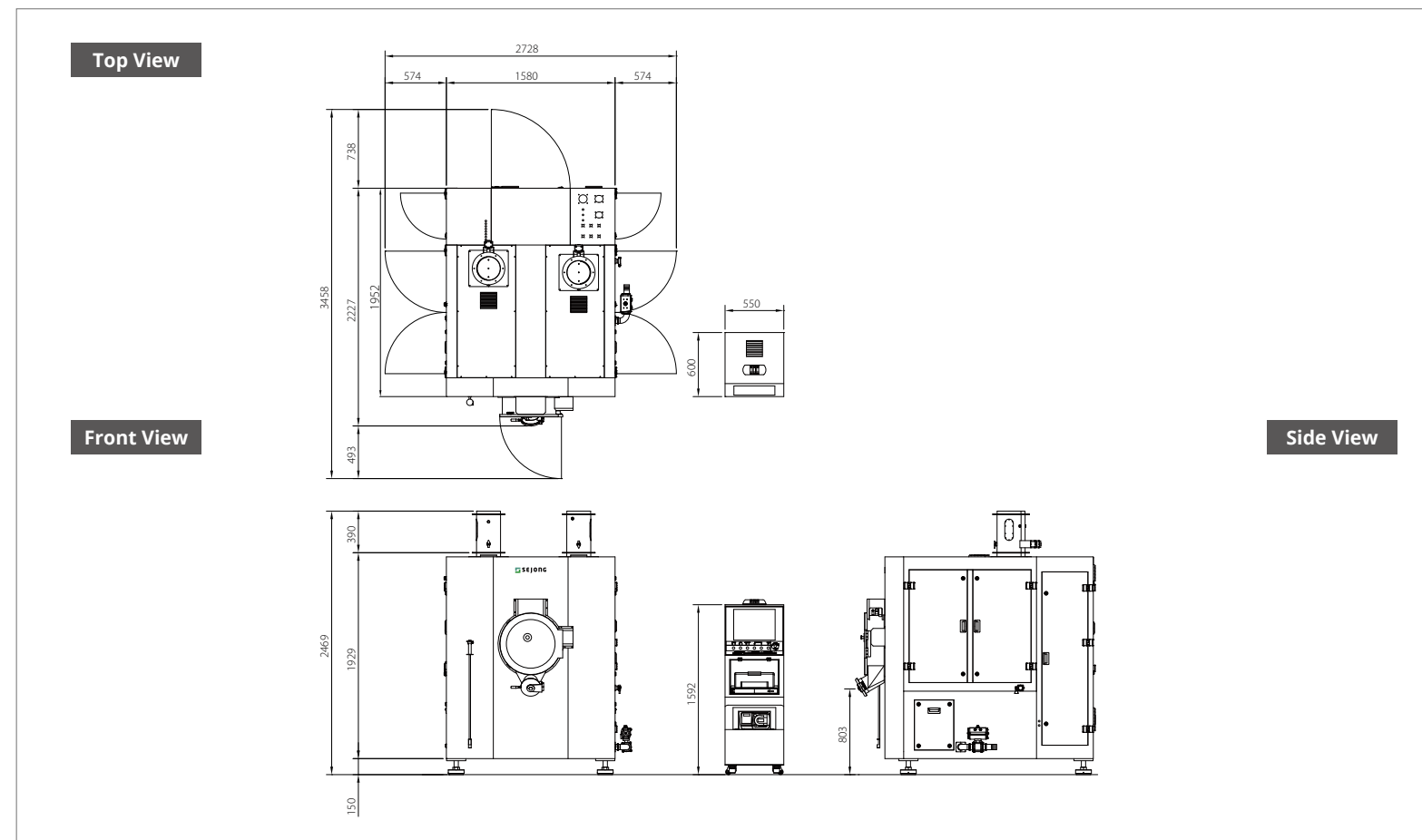
SFC-130



SFC Series

Description		SFC Series									
		60	80	100	130	150	170	100D	130D	150D	170D
Coating Pan Diameter(Ø mm)		650	950	1,050	1,300	1,500	1,700	1,000	1,300	1,500	1,700
Working Capacity (Density: 0.7)	ℓ/batch	11 ~ 27	35 ~ 77	49 ~ 114	90 ~ 202	143 ~ 335	300 ~ 580	50 ~ 140	132 ~ 318	296 ~ 570	475 ~ 910
	kg/batch	8 ~ 19	24 ~ 54	35 ~ 80	63 ~ 141	100 ~ 235	210 ~ 406	35 ~ 98	92 ~ 223	207 ~ 399	332 ~ 637
Coating Pan Speed(rpm)		1 ~ 16		1 ~ 14		1 ~ 12		1 ~ 14		1 ~ 12	1 ~ 10
Coating Pan Motor(kW)		1.5	2.2		3.7	5.5	7.5	3.7	5.5	7.5	11
Total Power Consumption(kW)		10	14	14	17.5	17.1	23.3	17.5	17.1	23.3	32.3
Compressed Air Consumption(ℓ/min)		580	740	740	740	900	1,220	900	1,060	1,380	1,540
Type of Heating		Saturated steam									
Filtration System		Inlet: Pre, Medium / Outlet: Cartridge									
Model of Spray Gun		Schlick Gun									
No. of Spray Gun(EA)		1	2	2	2	3	5	3	4	6	7
Tablet Temperature Sensor		Infrared Sensor(Non-Contact Detection)									
Inlet(Heat Exchanging System) HEPA Filter(Optional)		●									
Outlet(Dust Collecting System) HEPA Filter(Optional)		●									
Supply System	Air Flow(CMM)	30	35	40	45	50	65	45	50	65	80
	Air Pressure(mmAq)	60	80	80	80	80	100	80	80	100	100
Exhaust System	Air Flow(CMM)	30	35	40	45	50	65	45	50	65	80
	Air Pressure(mmAq)	350	400	400	450	450	450	450	450	450	450
Cleaning System	Standard	WiP Pump									
	Auto-Cycle(Optional)	CIP Unit with 3 Individual Water Supply Connection, Detergent Container with Pump and Air-Purging System									
Solution Pump	Film	Peristaltic Pump									
	Sugar	Diaphragm Pump									
Dimension(mm)	Width	1,100	1,350	1,350	1,580	1,820	2,100	1,350	1,580	1,820	2,100
	Depth	1,747	1,802	1,802	1,952	1,996	2,900	2,366	2,691	3,230	3,632
	Height	1,968	2,257	2,257	2,469	2,597	2,667	2,317	2,442	2,597	2,696
OS		HMI(21 CFR Part 11 Compliant)									
Power Supply Specification		200 / 220 / 380 / 400 / 415 / 440 / 480V, 50/60Hz, 3Ph									

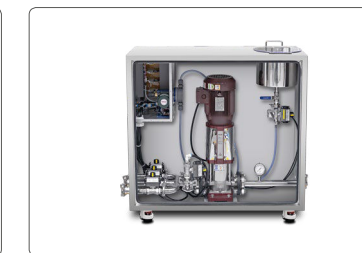
Layout and Top View



Options



HEPA Filter box



CiP Units



Dehumidifying System



Dust Collecting System



Heat Exchanging System



Tablet Loading Unit



Peristaltic Pump



Diaphragm Pump



Single Solution Tank



Jacket Solution Tank

Speed Mixing Series

M

Series

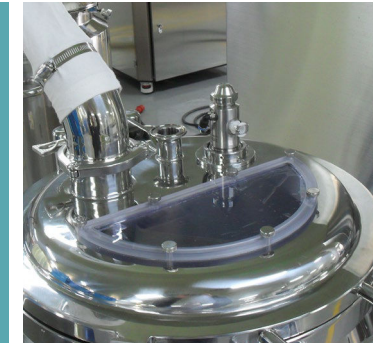
Speed Mixing Series **SM-5C**
Speed Mixing Series **SM-200 / M150**
Speed Mixing Series **SM Series**
Option

- Given specifications may be updated without prior notice for improving performance.
- Given dimension may be updated without prior notice for improving performance.
- Footprint layout indicates maximum area based on installation space.

Speed Mixing Series

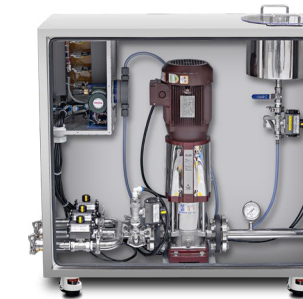
□ Automatic Binder Spray System

- Compatible with peristaltic pump with spray or diaphragm pump with nozzle according to the purpose
- Single or jacket type solution tank available



□ Automatic CIP System

- High-quality detergent pump and three-way water supply system
- Effective cleaning with intensive CIP pump
- Extendable automatic CIP system through recipe management
- CIP cleaning in IP65(NEMA-4) grade



□ Improved ease of use

- Various vessel sizes from 1ℓ, 3ℓ, 5ℓ and offers simple exchange procedure
- Intuitive user interface for each operation



□ Independent pneumatic & electric cabinet

- Expandability for independent pneumatic & electric cabinet
- Enhanced maintainability
- Proper sealing to prevent dust entering



SM-5C

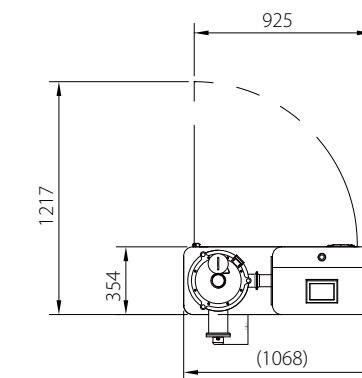


Technical Data

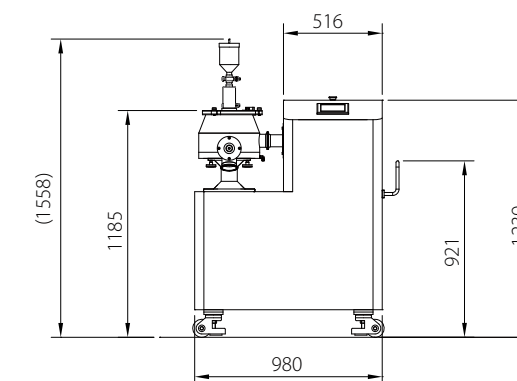
Description		SM-5C		
		1C	3C	5C
Total Volume of Vessel(ℓ)		4.4	9.6	14.8
Working Capacity (Density: 0.7)	ℓ/batch	0.9 ~ 2.5	1.7 ~ 5.5	3 ~ 8.7
	kg/batch	0.6 ~ 1.7	1.2 ~ 3.8	2.1 ~ 6.1
Agitator	Motor(kW)	1.5		
	Rotation Speed(rpm)	5 ~ 350		
Chopper	Motor(kW)	0.75		
	Rotation Speed(rpm)	350 ~ 3,400		
Compressed Air Consumption(ℓ/min)		200		
Total Power Consumption(kW)		3.25		
OS	Standard	5.7" Touch Panel(PLC Control)		
	21 CFR Part 11 Compliant	Optional		
Dimension(mm)	Width	980		
	Depth	354		
	Height	1,558		
Power Supply Specification		200 / 220 / 380 / 400 / 415 / 440 / 480V, 50/60Hz, 3Ph		

Layout and Top View

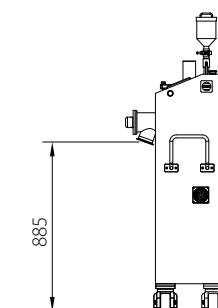
Top View



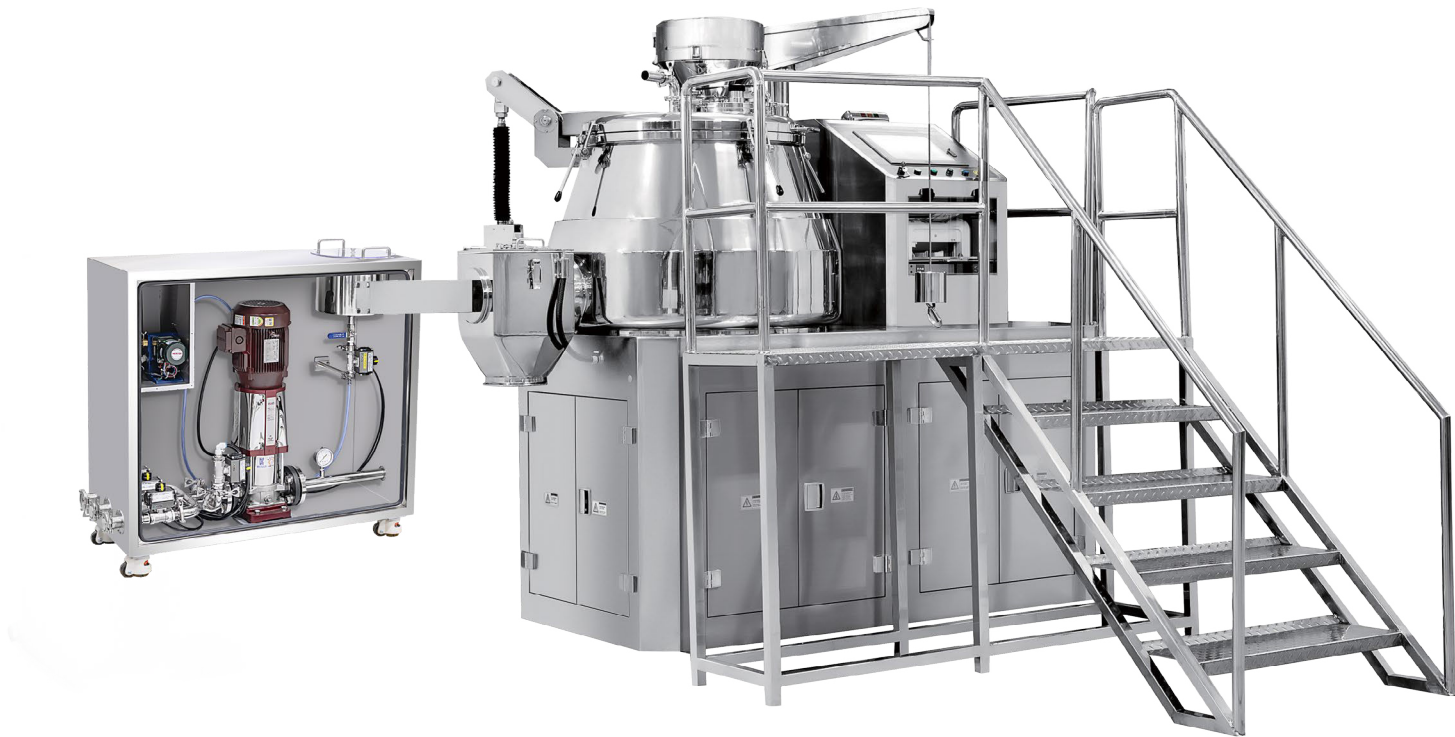
Front View



Side View



SM-200

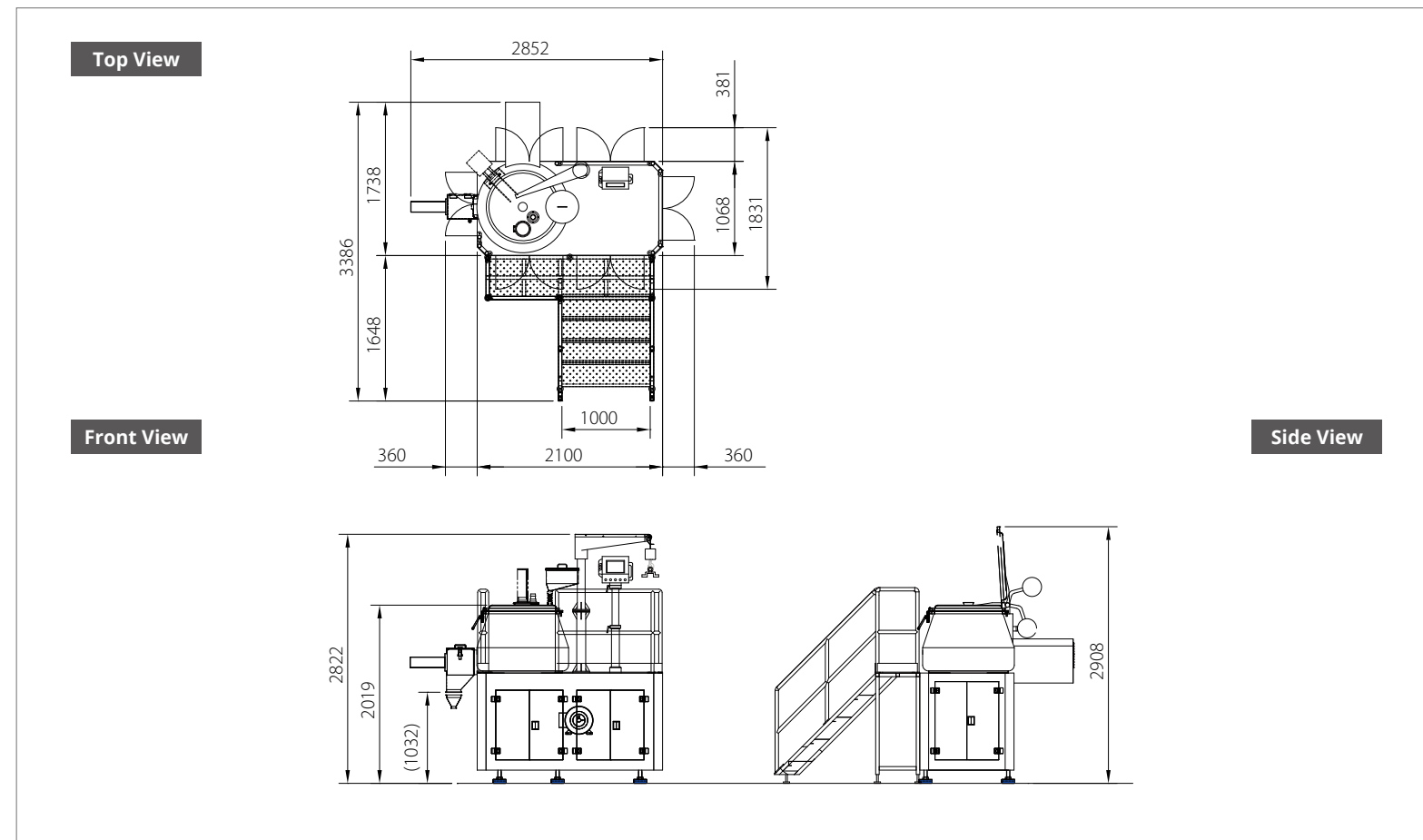


SM Series

Technical Data

Description		SM Series								
		15	30	50	100	200	300	400	500	600
Total Volume of Vessel(ℓ)		35	71	119	234	465	694	922	1,150	1,378
Working Capacity (Density: 0.7)	ℓ/batch	5 ~ 20	12 ~ 40	20 ~ 70	33 ~ 132	59 ~ 275	102 ~ 411	133 ~ 547	255 ~ 678	233 ~ 814
	kg/batch	3.5 ~ 14	8.4 ~ 28	14 ~ 49	23 ~ 92	41 ~ 192	71 ~ 287	93 ~ 383	178 ~ 474	163 ~ 570
Agitator	Motor(kW)	4.0	5.5	7.5	11.0	15.0	22.0	30.0	37.0	45.0
	Rotation Speed(rpm)	5 ~ 350		5 ~ 120		5 ~ 105	5 ~ 90	5 ~ 80	5 ~ 75	
Chopper	Motor(kW)	2.2	3.7	5.5	7.5	11.0	11.0	11.0	11.0	18.5
	Rotation Speed(rpm)	350 ~ 3,400								
Compressed Air Consumption(ℓ/min)		200								
Total Power Consumption(kW)		6.2	10.2	12.2	17.9	23.9	34.4	42.4	49.75	65.25
Binder Spray System(Optional)		Peristaltic Pump								
		Diaphragm Pump								
CIP System(Optional)		WiP Pump(Optional)								
		N/A						●		
Vacuum Powder Transfer System(Optional)		N/A						●		
Vessel Jacket(Optional)							●			
OS	Manual(Standard)						●			
	HMI(21CFR Part 11)(Optional)						●			
Dimension(mm)	Width	1,535	1,872	1,900	2,854	2,852	3,001	3,145	3,204	3,584
	Depth	1,030	1,316	1,575	3,317	3,386	3,604	3,751	3,924	3,262
	Height	1,667	1,860	1,798	2,690	2,822	2,948	3,032	3,039	3,062
Power Supply Specification		200 / 220 / 380 / 400 / 415 / 440 / 480V, 50/60Hz, 3Ph								

SM-200 Layout and Top View



Options



Powder Loading Unit



SM-5C Vessel sets



CIP Unit



Conical Milling Unit



Peristaltic pump



Diaphragm Pump



Single Solution Tank



Jacket Solution Tank

Fluid Bed Drying Series

D/DE Series

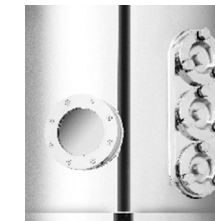
Fluid Bed Drying Series **D5L**
Fluid Bed Drying Series **D5LM**
Fluid Bed Drying Series **D/ DE Series**
Option

- Actual work capacity may have differences due to required filling depth, and characteristics of granules.
- Given specifications may be updated without prior notice for improving performance.
- Given dimension may be updated without prior notice for improving performance.
- Footprint layout indicates maximum area based on installation space.

Fluid Bed Drying Series

□ Safety and Convenience

- Designed to endure 12-bar pressure
- Preventative reaction for abnormal explosion pressure through QAV
- Explosive-prevention design by proper grounding and antistatic components



□ Improved Functional efficiency

- Easy and quick raw material supply and transportation through the moveable, tiltable product container
- In-process automatic sampling system



□ Various process

- Drying : Mixing and drying process by supplied air on a hot air spray plate
- Granulating(Top spraying) : Forming granules and coating materials by spraying reverse direction from the flow
- Coating(Bottom spraying) : Fine-coating materials by spraying forward direction from the flow

□ Automatic CIP System

- High-quality detergent pump and three-way water supply system
- Effective cleaning with intensive CIP pump
- Extendable automatic CIP system through recipe management
- Enhanced cleaning by applying rotating spray nozzle to prevent blind spots
- CIP cleaning in IP65(NEMA-4) grade



D5L

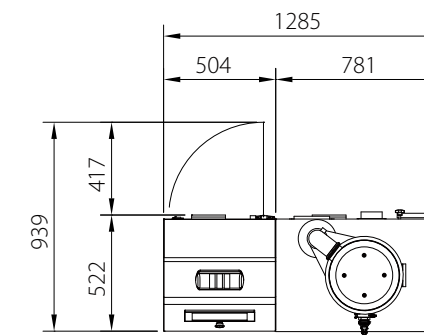


Technical Data

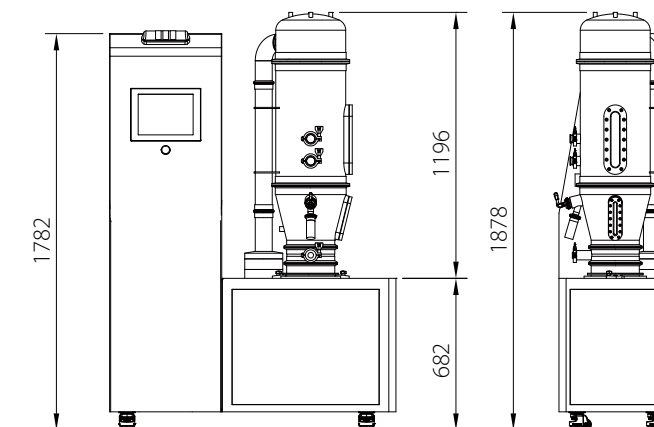
Description		D5L
Working Capacity (Density: 0.5)	ℓ/batch	1 ~ 5
	kg/batch	0.5 ~ 2.5
Compressed Air Consumption(ℓ/min)		520
Total Power Consumption(kW)		11.95
No. of Spray Gun(EA)		1(Top and Bottom)
Solution Pump		Peristaltic Pump
Supply System	Electric Capacity(kW)	4.8
	Type of Heating	Electric Heat Exchanging System
	Inlet Filter	Pre, Medium, HEPA
	Working Temperature(°C)	80
Exhaust System	Air Flow(CMM)	6
	Air Pressure(mmAq)	3,000
	Outlet Filter	Cartridge
Dimension(mm)	Width	1,285
	Depth	522
	Height	1,878
OS		21 CFR Part 11 Compliant
Power Supply Specification		200/ 220 / 380 / 400 / 415 / 440 / 480V, 50/60Hz, 3Ph

Layout and Top View

Top View



Front View



Side View

D5LM

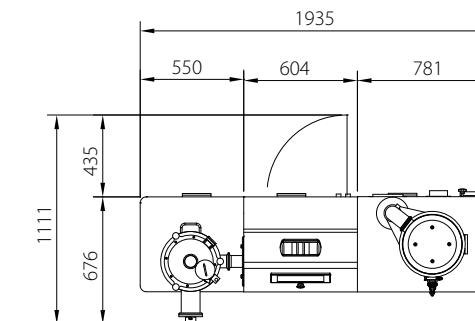


Technical Data

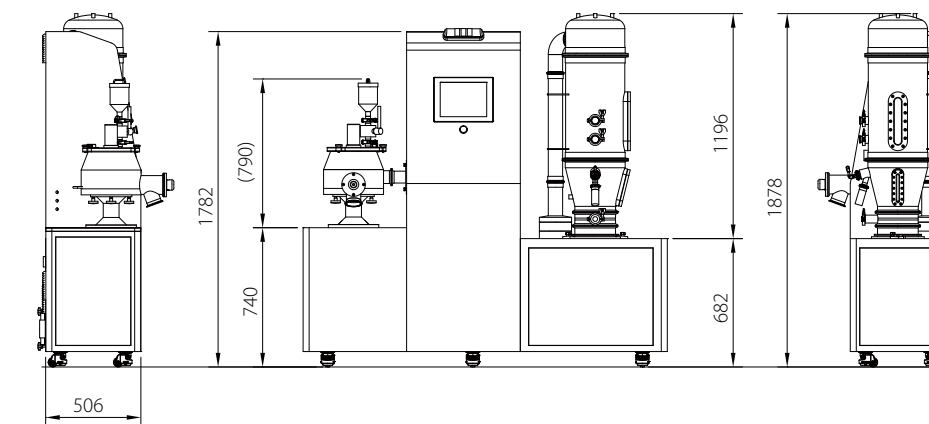
Description		D5LM
Working Capacity (Density: 0.5)	ℓ/batch	1 ~ 5
	kg/batch	0.5 ~ 2.5
Compressed Air Consumption(ℓ/min)		520
Total Power Consumption(kW)		11.95
No. of Spray Gun(EA)		1(Top and Bottom)
Solution Pump		Peristaltic Pump
Supply System	Electric Capacity(kW)	4.8
	Type of Heating	Electric Heat Exchanging System
	Inlet Filter	Pre, Medium, HEPA
	Working Temperature(°C)	80
Exhaust System	Air Flow(CMM)	6
	Air Pressure(mmAq)	3,000
	Outlet Filter	Cartridge
	ℓ/batch	0.9 ~ 2.5
Mixer Working Capacity (Density : 0.7)	kg/batch	1.7 ~ 5.5
	Agitator(rpm)	3 ~ 8.7
	Chopper(rpm)	0.6 ~ 1.7
Dimension(mm)	Width	1,935
	Depth	506
	Height	1,878
OS		21 CFR Part 11 Compliant
Power Supply Specification		200/ 220 / 380 / 400 / 415 / 440 / 480V, 50/60Hz, 3Ph

Layout and Top View

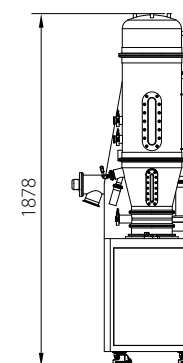
Top View



Front View



Side View



D/ DE Series

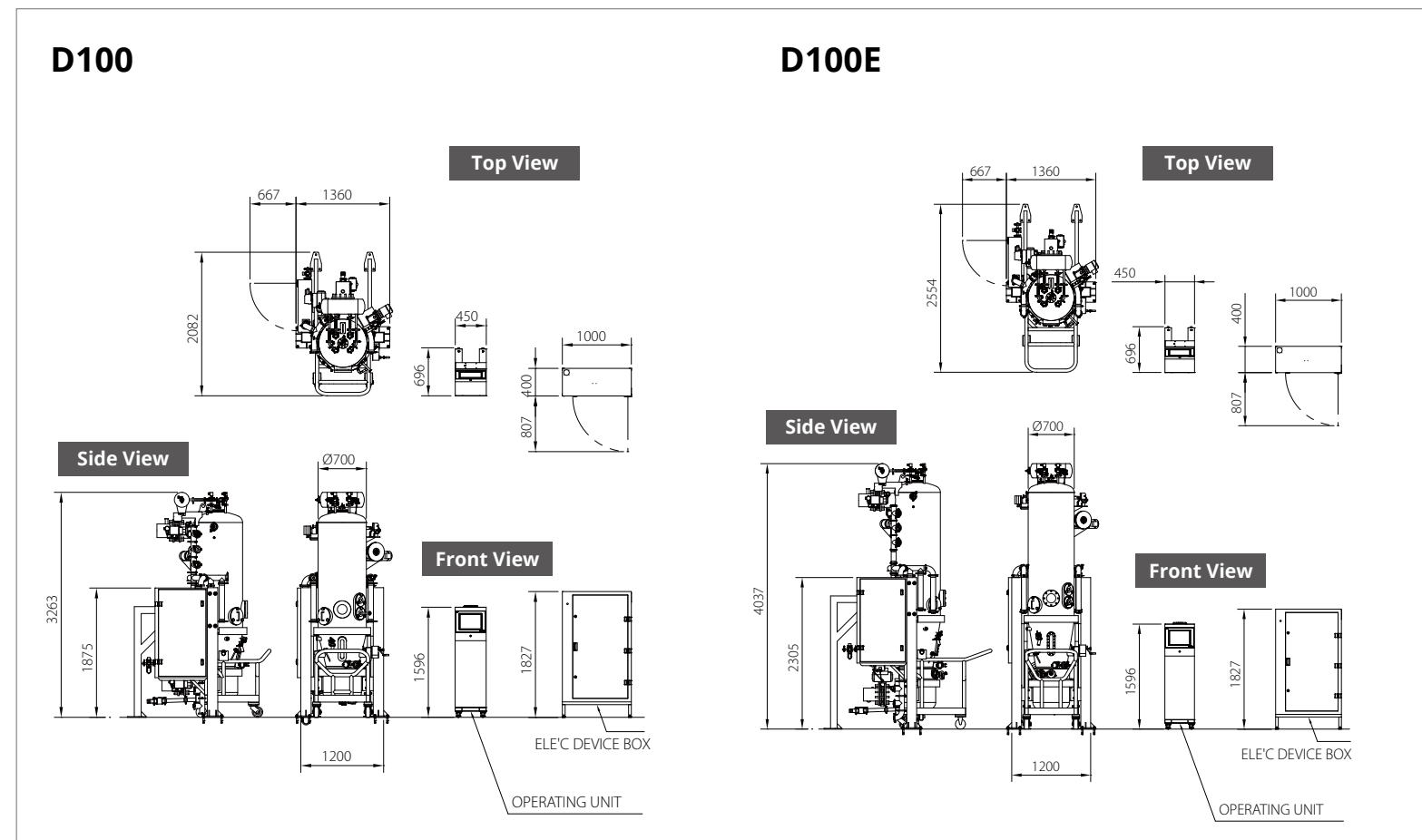


Technical Data

Description		D (DE) Series						
		D50	D100 (E)	D200 (E)	D300 (E)	D400 (E)	D500 (E)	D600 (E)
Container Working Capacity (Density : 0.5)	Dry(ℓ/batch)	5 ~ 50	20~100	40~200	60~300	80~400	100~500	120~600
	Dry(kg/batch)	2.5 ~25	10~50	20~100	30~150	40~200	50~250	60~300
	Spraying(ℓ/batch)	5 ~ 40	40~100	80~200	120~300	160~400	200~500	240~600
	Spraying(kg/batch)	2.5 ~ 20	20~50	40~100	60~150	80~200	100~250	120~300
Supply System	Kilocalorie(Kcal/h)	14,000	56,000	78,000	95,000	115,000	135,000	150,000
	Type of Heating	Saturated steam						
	Inlet Filter	Pre, Medium, HEPA	Pre, Medium, HEPA(Optional)					
	Working Temperature(°C)	80						
Exhaust System	Air Flow(CMM)	10.9	30	40	50	60	70	80
	Air Pressure(mmAq)	2,900	1,250					
	Power Consumption(kW)	6.3	15	18.5	22	30	38	45
	Outlet Filter	Cartridge, HEPA(Optional)						
Dimension(mm)	Width	870	1,360	1,530	1,660	1,760	1,845	2,000
	Depth(DE)	1,792	2,082 (2,554)	2,635 (2,671)	2,550 (2,625)	2,632 (2,632)	2,860 (3,177)	3,027 (3,306)
	Height(DE)	2,689	3,263 (4,037)	3,581 (4,264)	3,930 (4,565)	3,984 (4,769)	4,126 (5,053)	4,247 (5,017)
Power Supply Specification		200 / 220 / 380 / 400 / 415 / 440 / 480V, 50/60Hz, 3Ph						

※ The specification of DE Series has difference from D Series: the specification in the parentheses "()" indicates DE Series.
※ DE Series for coating, D Series for drying and granulating

Layout and Top View



Options



HEPA Filter box



CIP Unit



Dehumidifying System



Dust Collecting System



Heat Exchanging System



Powder Unloading Unit



Peristaltic Pump



Diaphragm Pump



Single Solution Tank



Jacket Solution Tank



Quick Acting Valve



Moving Container Cart

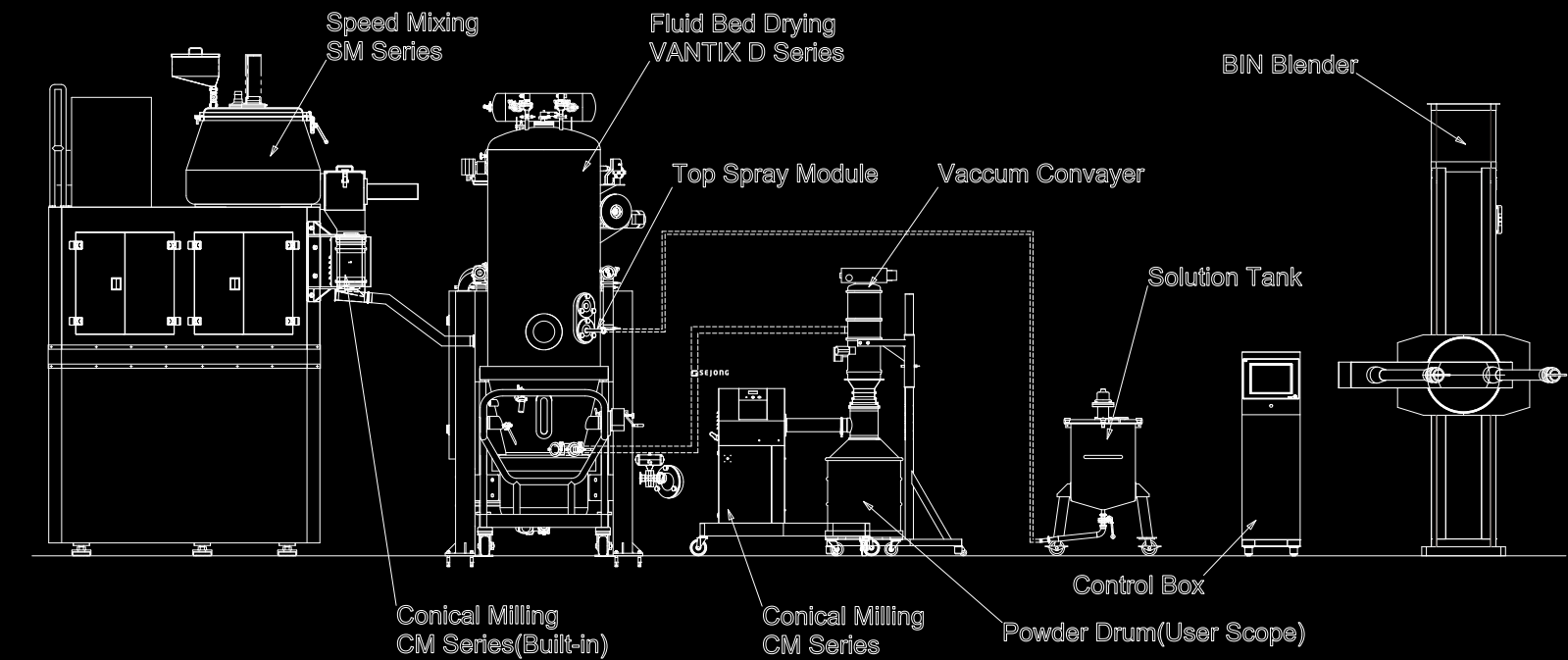
Granulation Line



SM/M Series

D/DE Series

Layout



P420S WiP

P420S WiP 31S, PCD 420,
 186,000 tablet/hour,
 200/220/380/400/415/440/480V,
 50/60Hz, 3Ph



F50 WiP

F50 WiP, 6 hole,
 50,400 caps/hour,
 220/380/400/415/440V,
 50/60Hz, 3Ph

