



# Rotary Tablet Press





# Quality Assurance

Sejong Pharmatech has 20 years of accumulated know-how and its innovative strides for the highest quality and level of technical development makes the company for pharmaceutical machine industry.

Sejong Pharmatech has advanced technology from abroad for the development and production of a broad range of pharmaceutical machines to enable Sejong Pharmatech to serve the global pharmaceutical market.

Engineering experts from all pharmaceutical manufacture industries focus on customer's needs and satisfaction to supply the best solutions to improve their production. Also Sejong Pharmatech aims to provide its customers with the best products on the market and impeccable service.

A combination of both will not only fulfill the customers requirements give them a supplier they can trust!

# Rotary Tablet Press



## *“Best Solution for Tablet Application”*

As a key product of Sejong Pharmatech, the rotary tablet press has a competitive edge in the global market.

Sejong Pharmatech's rotary tablet press line includes the GRC series, MRC series, and HRC series and can access real-time based production data management with HMI system. Also, it embraces the features of the most efficient cutting-edge technologies to ensure optimum tablet production.

All rotary tablet presses in the line are designed to be modified and adjusted in a variety of ways and to meet optimum production efficiency and quality conditions. They are designed to maintain optimum conditions for essential production conditions such as thickness and hardness of tablet in order to ensure maximum tablet production. In particular, they are designed to be compatible with GMP standards in other countries, and produced in accordance with thorough and strict quality control criteria. We have obtained CE Mark certification from TÜV-PC, Germany to achieve quality standardization of all production equipment.

PHARMATECH  
**SEJONG**

# GRC-S Series



GRC-S series of Sejong Pharmatech is designed and produced to be suitable for pharmaceutical company's labs, university research institutes, or small-scale production lines, while being characterized by simple but all-inclusive functions for tablet production. In particular, GRC-S series is a small tablet press that is able to produce a maximum of 132,000 tablets per hour and is aided by AWC system to produce tablet exactly as required. It implements a powder feeding system with a mechanical feed as a basic option (customers can also select an open feeder as an option). Also, its large touch screen of 15 inches enables the user to easily operate the machine.

# Product Specification

## GRC-S Series

Description		Model		
		GRC-15S	GRC-18S	GRC-22S
Number of Stations		15	18	22
Pitch Circle Diameter (Ø)		210		
Max. Output / Hour		67,500	108,000	132,000
Revolution of Disk (R.P.M)		15-75	15-100	15-100
Max. Tablet Diameter	Round (Ø)	25	16	13
	Oblong (mm)	25	19	14
Max. Tablet Thickness (mm)		8.5		
Filling Depth (mm)		0.5-6 (Option)		
		4.5-10		
		8.5-14		
		12.5-18		
		16.5-22 (Option)		
Upper Punch Insert (mm)		1-6		
Max. Pre Pressure (kg-f)		2,000	2,000	2,000
Max. Main Pressure (kg-f)		6,000	6,000	6,000
Die Type		D	B	BB
Punch Type		EU-D, IPT-D	EU-B, IPT-B	EU-B, IPT-B
Machine Height (mm)	Excluding Hopper	1,728		
	Including Hopper	1,987		
Machine Floor Space (mm)		800 X 1,300		
Weight of Machine (kg)		Approx. 2,500		
Power of Main Motor		5hp (3.7kW)		
Power Supply Data		220 / 380 / 400 / 415 / 440 V, 50 / 60 Hz, 3Phase		

※ Pre- pressure and Main pressure could be changed depending on the size of the compress and filling depth, powder or granulation. It is dependent on the physical specification of the used material for the compress.

※ The above specification is subject to change without prior notice for the technical development.

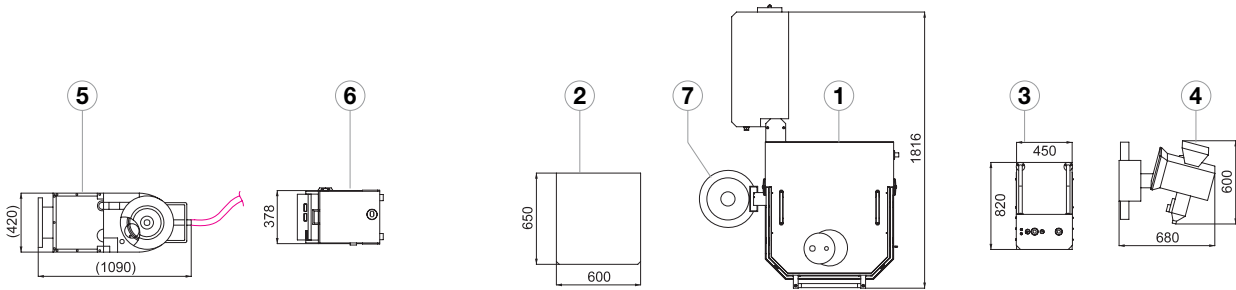
※ The disk revolution speed is standard of round type.

# Dimensions with Layout

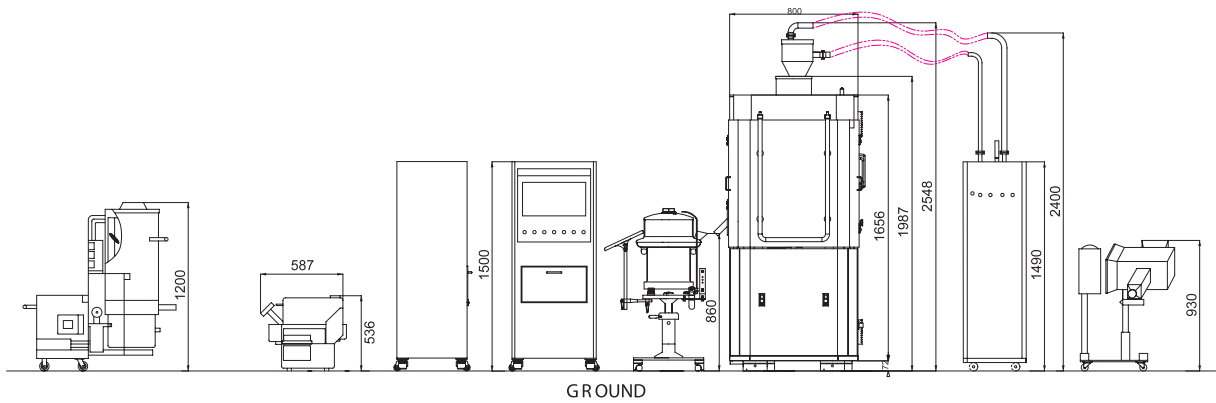


- ① Main Machine
- ② A.W.C
- ③ Power Loading System (Option)
- ④ Metal Detector (Option)
- ⑤ Dust Collector (Option)
- ⑥ U.T.S (Option)
- ⑦ Deduster (Option)

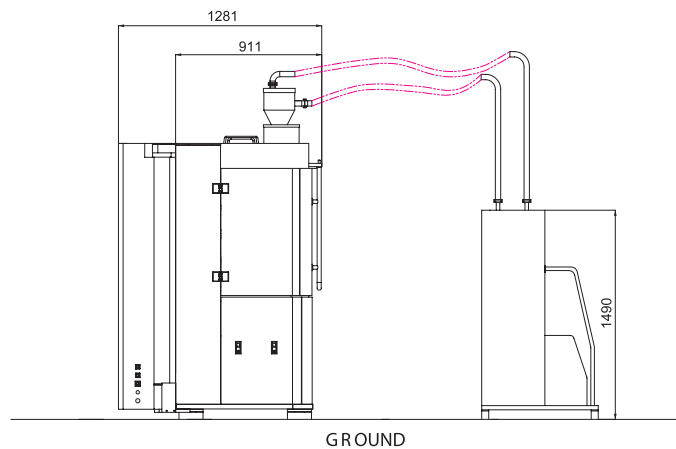
## Top View



## Front View



## Side View



# Option Items



## Deduster

A device that shakes up dust on the surface of the discharged tablets from the machine based on vibration principles. By connecting it to a dust collector, it can absorb dust from tablets and give them an air shower to make them cleaner.

Description	Deduster
Name	Up-hill high speed de-duster
Function and capacity	Capacity : 300,000 ~ 1,200,000 / Hour
	High speed de-duster and automatic de-dust
Electricity spec.	220V / 60Hz , 200V / 50Hz
Electric power	300 Watts
Weight	about 160kg
Pressure air	1 ~ 3Pa
Vacuum	1800 Liter/min
Size	Height : 960~1080 / Volume : 500 ~ 700

## Dust Collector

Connected to the main body, it enables work in a pleasant environment by powerfully inhaling dust inside the machine. Also by connecting it to the deduster, it inhales dust coming from the tablets.



Description	Model					
	OVC-5B	OVC-15B	OVC-22B	OVC-37B	OVC-55B	
Motor Rating (hp) (kW)	1 (0.75)	2 (1.5)	3 (2.2)	5 (3.7)	7.5 (5.5)	
Max Air Flow (CMM)	60Hz	2.1	4.4	5.2	6.5	6.6
	50Hz	1.9	3.5	4.1	5.5	5.6
Max Vacuum (mmAq ± 10%)	60Hz	1,700	2,050	2,200	2,800	3,200
	50Hz	1,300	1,480	1,632	2,000	2,500
Filter Size	∅ / □	∅100	∅100	∅100	□300	□300
	Length	450	450	600	400	450
	ea	6	6	6	9	9
Filtering Area (m <sup>2</sup> )		0.84	0.95	1.1	2.3	2.6
Dust Box Capacity (Lr)		20	20	20	40	55
Dimension (mm)	W	420	560	560	700	700
	D	1,050	1,050	1,050	1,300	1,400
	H	1,100	1,200	1,300	1,300	1,400
Weight (kg)		80	83	98	160	172



## Auto Powder Loading System

This equipment is designed on a sensor-operated vacuum and automatically delivers powder to a hopper inside the machine. As it uses a low-pressure vacuum ejector, it keeps excellent performance in low air pressure of 3 to 4 kilos. You can choose between automatic mode by sensor and manual mode. It is easy to mount and dismount and to clean and manage.

Description	SPL-100	SPL-200
Operating Voltage	220V, 50 / 60 Hz	
Control source	220V	
Dimension (mm)	W400 X D630 X H2,500	W450 X D820 X H2,620
Weight (kg)	150	200
Compressed air	6kg / cm <sup>2</sup>	



## Constant Amount Feeder

When it is necessary to provide a feeder with a certain amount of powder due to low liquidity or bad ingredients, this constant amount feeder is highly effective.

It can provide a constant amount of powder to the feeder through the rotary motion of the sensor-operated motor and is effective in accurate tablet production if there is a weight variation or bad liquidity through constant powder provision.

Model	Dimension (mm)
HRC-S	W270 X D456 X H447
MRC-S	∅ 283 X 601
MRC-D	W485 X D270 X H420
GRC-S	W415 X D270 X H460





## Universal Tablet Testing System

While the existing AWC is a weight-adjusting system by pressure, the universal tablet testing system is a comprehensive tablet measuring device that measures actual tablet weight to give feedback to the machine. It is a statistical analysis system that measures a tablet's weight, height, diameter and hardness by regularly carrying out a sampling of tablets discharged from the machine.

Model	Dimension (mm)
HRC-S, MRC-D, MRC-S, GRC-S	H : 2,396



## Automatic Weight Control System

An automatic weight control system is a computer-operated function in which a central processing unit automatically controls tablet production to carry out statistical analyse, to prepare production process documents and to adjust the weight of tablets.

As the program system is connected to the main computer, it obviates the needs for human involvement in producing tablets; controls the process by assigning various functions to the machine based on compression pressure; indirectly monitors the machine to maintain consistent tablet compression according to preset weight and thickness; and print out a perfect production specification by statistically evaluating all collected data.

Model	Dimension (mm)
HRC-S	W950 X D700 X H1,580
MRC-S, MRC-D, GRC-S	W650 X D600 X H1,490

# Machine Details

(\*) Double layer apply

● Standard

○ Option

△ Applicable Soon

– Not Applicable

Model		GRC-S Series			MRC-D Series			
		GRC-15S	GRC-18S	GRC-22S	MRC-39D	MRC-49D	MRC-61D	
Number of Stations		15	18	22	39	49	61	
Punch Size	EU-35	–	–	–	–	–	–	
	EU-D	●	–	–	●	–	–	
	IPT-D	○	–	–	○	–	–	
	EU-B	–	●	●	–	●	●	
	IPT-B	–	○	○	–	○	○	
Die Size	EU-35	–	–	–	–	–	–	
	D Type	●	–	–	●	–	–	
	B Type	–	●	–	–	●	–	
	BB Type	–	–	●	–	–	●	
	BBB Type	–	–	–	–	–	–	
Filling Depth (mm)	Manual	4.5~18mm	○	○	○	–	–	
		A.W.C	A CAM (0.5~6mm)	○	○	○	○	○
		B CAM (4.5~10mm)	●	●	●	●	●	
		C CAM (8.5~14mm)	●	●	●	●	●	
		D CAM (12.5~18mm)	●	●	●	●	●	
		E CAM (16.5~22mm)	○	–	–	○	–	
Compression Roller Adjustment	Upper Pre Compression		Manual	Manual	Manual	Motorized	Motorized	Motorized
	Lower Pre Compression		Manual	Manual	Manual	Manual	Manual	Manual
	Upper Main Compression		Manual	Manual	Manual	Motorized	Motorized	Motorized
	Lower Main Compression		Motorized	Motorized	Motorized	Motorized	Motorized	Motorized
Ejection Force		●	●	●	△	△	△	
Lubrication System with Oil Distribute Pump		●	●	●	●	●	●	
Upper Tight Sensing Device		●	●	●	●	●	●	
Lower Tight Sensing Device		●	●	●	●	●	●	
Discharge Chute	Single Side	●	●	●	○ (*)	○ (*)	○ (*)	
	Dual Side	–	–	–	●	●	●	
Programmable Logic Controller (OMLON)		●	●	●	●	●	●	
Graphic Panel	A.W.C with HMI (Pro-face Panel PC)		●	●	●	●	●	
	Manual (Pro-face Touch Screen)		○	○	○	○	○	
Optional Item	A.W.C with HMI		●	●	●	●	●	
	Manual		○	○	○	○	○	
	Disk Change Device		–	–	–	○	○	
	Additional Disk (with upper and lower rail)		–	–	–	○	○	
	Disk Table (only turret change device)		–	–	–	○	○	
	Auto Powder Loading	Single Type	○	○	○	○	○	
		Double Type	–	–	–	○	○	
	Tablet Deduster	Bottom Up Type	○	○	○	○	○	
		Top Down Type	○	○	○	○	○	
	Dust Collector	Normal Type	○	○	○	○	○	
		SUS304	○	○	○	○	○	
		1.5kW	○	○	○	–	–	
		2.2kW	–	–	–	–	–	
		3.7kW	–	–	–	○	○	
	Metal Detector		○	○	○	○	○	
	C.A.F (Constant Amount Feeder)		○	○	○	○	○	
	U.T.S (Universal Tablet Testing System)		○	○	○	○	○	
	Calibration Kit for Load-cell		○	○	○	○	○	
	Magnesium Spray System		△	△	△	△	△	
	Drum Changer Device		○	○	○	○	○	
Open Feeder		○	○	○	△	△		
Spare Parts for 2 years		○	○	○	○	○		
Machine	Excluding Hopper	1,728	1,728	1,728	2,021	2,021	2,021	
Height (mm)	Including Hopper	1,987	1,987	1,987	2,140	2,140	2,140	
Machine Floor Space (mm)		800X1,300	800X1,300	800X1,300	1,400 X 1,820	1,400 X 1,820	1,400 X 1,820	
Weight of Machine (kg)		Approx 2,500			Approx 4,500			
Power Supply Data		220 / 380 / 400 / 415 / 440 V, 50 / 60 Hz, 3Phase			220 / 380 / 400 / 415 / 440 V, 50 / 60 Hz, 3Phase			

※ Pre- pressure and Main pressure could be changed depending on the size of the compress and filling depth, powder or granulation. It is dependent on the physical specification of the used material for the compress.

※ The above specification is subject to change without prior notice for the technical development.

MRC-S Series				HRC-S Series			
MRC-31S	MRC-37S	MRC-45S	MRC-47S	HRC-51S	HRC-65S	HRC-77S	HRC-83S
31	37	45	47	51	65	77	83
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Motorized	Motorized	Motorized	Motorized	Motorized	Motorized	Motorized	Motorized
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2,010	2,010	2,010	2,010	2,008	2,008	2,008	2,008
2,130	2,130	2,130	2,130	2,137	2,137	2,137	2,137
1,100 X 1,550	1,100 X 1,550	1,100 X 1,550	1,100 X 1,550	1,680 X 2,010	1,680 X 2,010	1,680 X 2,010	1,680 X 2,010
Approx 4,000				Approx 6,500			
220 / 380 / 400 / 415 / 440 V, 50 / 60 Hz, 3Phase				220 / 380 / 440 / 415 / 440 V, 50 / 60 Hz, 3Phase			

※ The specifications are subject to change  
without notice



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