



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 TUV-PC, Germany to achieve quality standardization of all production equipment.

PHARMATECH
SEJONG

MRC-S Series



A standard rotary tablet press of Sejong Pharmatech, MRC-S series is based on HMI system to ensure easy use and optimum performance. This series adopts a disk exchange method to maximize productivity improvement and cost saving effect, and is designed to have 31 holes, 37 holes, 45 holes, 47 holes stations as basic options so that customers can replace it with any disk wanted.

Also, it is designed to manufacture any type of tablet regardless of type of punch and can produce oblong type tablets from min. 11mm to max. 25mm.

A separate dust collector on the disk and ejection chute effectively minimizes powder scattering in the machine during tablet production.

Product Specification

MRC-S Series

Description		Model			
		MRC-31S	MRC-37S	MRC-45S	MRC-47S
Number of Stations		31	37	45	47
Pitch Circle Diameter (Ø)		420			
Max. Output / Hour		186,000	222,000	270,000	282,000
Revolution of Disk (R.P.M)		15-100	15-100	15-100	15-100
Max. Tablet Diameter	Round (Ø)	25	16	13	11
	Oblong (mm)	25	19	14	12
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)		10,000	10,000	10,000	10,000
Max. Main Pressure (kg-f)		10,000	10,000	10,000	10,000
Die Type		D	B	BB	BBB
Punch Type		EU-D, IPT-D	EU-B, IPT-B		
Machine Height (mm)	Excluding Hopper	2,010			
	Including Hopper	2,130			
Machine Floor Space (mm)		1,100 X 1,550			
Weight of Machine (kg)		Approx. 4,000			
Power of Main Motor		15hp (11kW)			
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.

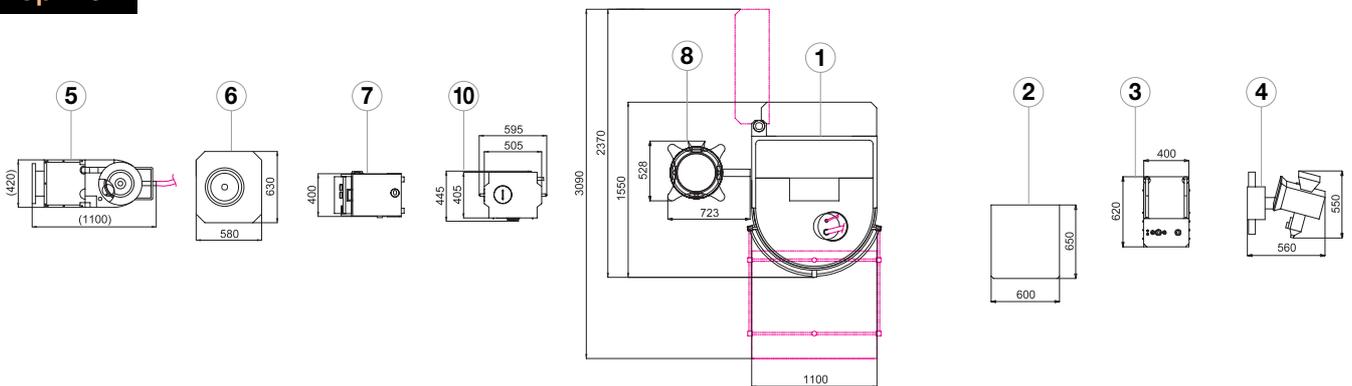
※ The disk revolution speed is standard of round type.

Dimensions with Layout

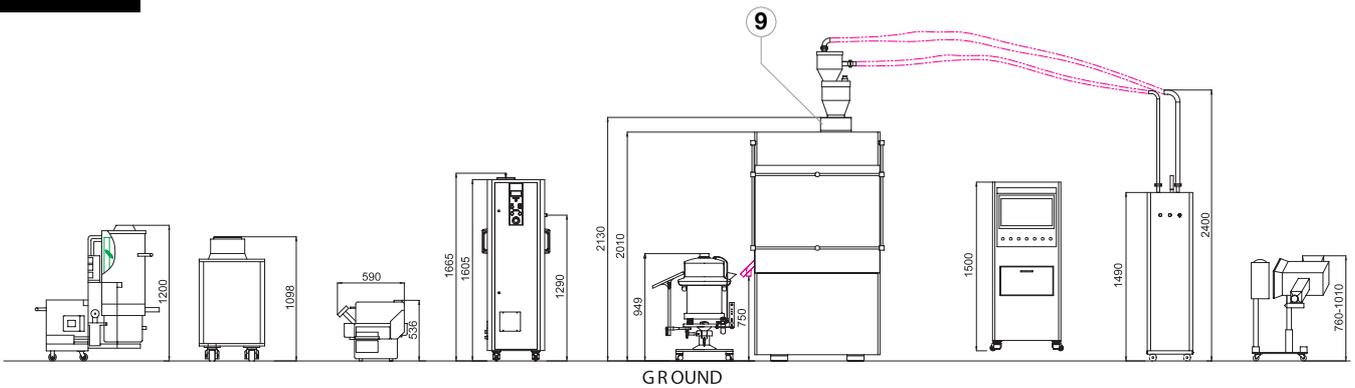


- ① Main Machine
- ② A.W.C
- ③ Power Loading System (Option)
- ④ Metal Detector (Option)
- ⑤ Dust Collector (Option)
- ⑥ Disk Table (Option)
- ⑦ U.T.S (Option)
- ⑧ Deduster (Option)
- ⑨ C.A.F (Option)
- ⑩ Magnesium Spray System (Option)

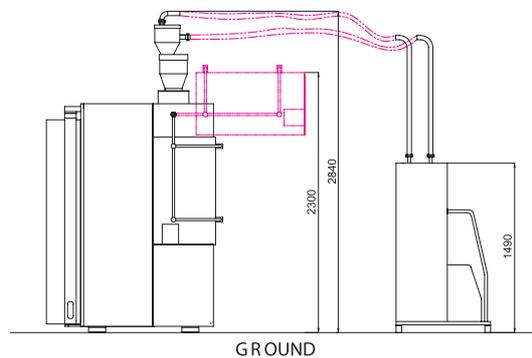
Top View



Front View



Side View





MRC-D Series

One of the key features of MRC-D series lies in the fact that it can produce double-layer tablets and in case of the production of single-layer tablets, it is possible to increase productivity two-fold by applying a double-sided discharge system.

Also, compared with the HRC-S model of Sejong, though it is relatively smaller in appearance, it enables mass-production.

In producing double-layer tablets, in particular, it is equipped with a powder retrieval function to minimize color mixing between different tablet layers, thereby ensuring more effective double-layer tablet production.

It applies 580mm disk PCD to increase output per hour by about 14% while decreasing noise by increasing the up and down curve section of a punch.

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- Since the dust collector is designed as all-in-one type from the outlet scraper to discharge chute, it makes dust collecting more effective and reduces dust inside the machine.
- As it adopts the all-in-one type Feeder Driving Shaft Housing method, it is easy to disassemble, assemble, and repair and maintain.
- Adopted implement auto-sampling function to the first layer of the double-layer tablet

Product Specification

MRC-D Series

Description		Model		
		MRC-39D	MRC-49D	MRC-61D
Number of Stations		39	49	61
Pitch Circle Diameter (Ø)		580		
Max. Output / Hour	Single Layer	280,800	411,600	512,400
	Double Layer	81,900	117,600	146,400
Revolution of Disk (R.P.M)	Single Layer	15-60	15-70	15-70
	Double Layer	10-35	10-40	10-40
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)		3,000	3,000	3,000
Max. Main Pressure (kg-f)		10,000	10,000	10,000
Die Type		D	B	BB
Punch Type		EU-D, IPT-D	EU-B, IPT-B	EU-B, IPT-B
Machine Height (mm)	Excluding Hopper	2,021		
	Including Hopper	2,140		
Machine Floor Space (mm)		1,400 X 1,820		
Weight of Machine (kg)		Approx. 4,500		
Power of Main Motor		15hp (11kW)		
Power Supply Data		220 / 380 / 400 / 415 / 440 V, 50 / 60 Hz, 3Phase		

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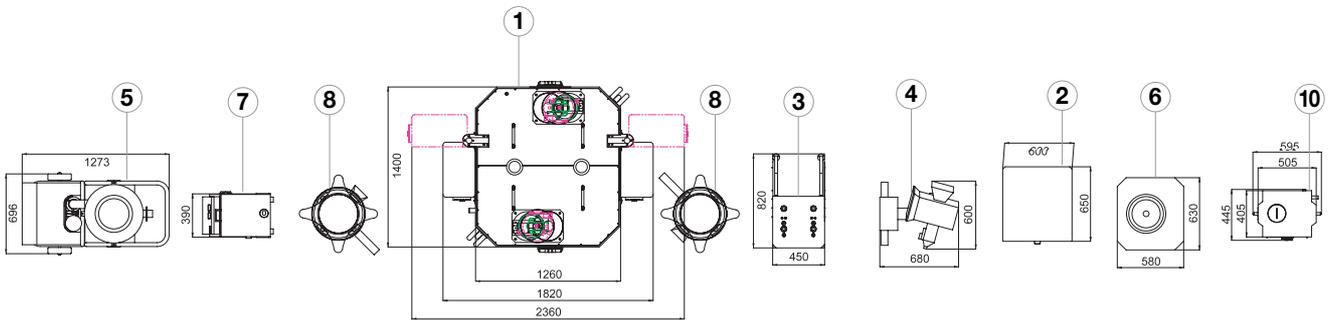
※ The disk revolution speed is standard of round type.

Dimensions with Layout

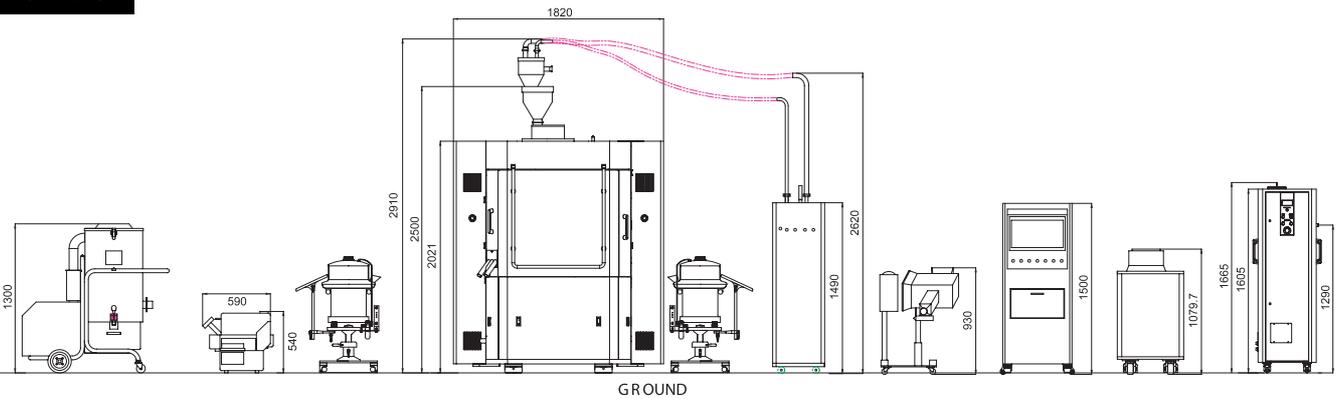


- ① Main Machine
- ② A.W.C
- ③ Power Loading System (Option)
- ④ Metal Detector (Option)
- ⑤ Dust Collector (Option)
- ⑥ Disk Table (Option)
- ⑦ U.T.S (Option)
- ⑧ Deduster (Option)
- ⑨ C.A.F (Option)
- ⑩ Magnesium Spray System (Option)

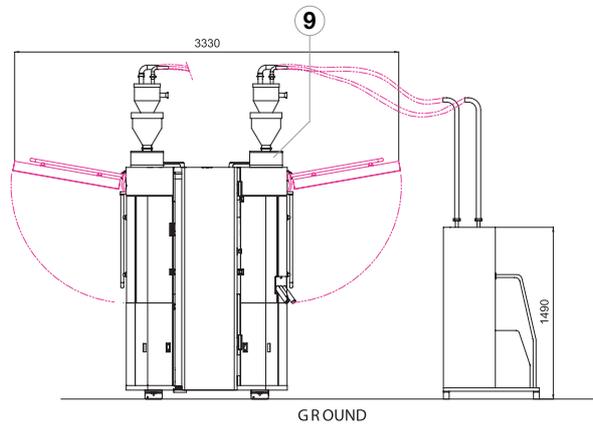
Top View



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 ²)		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 ²	



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.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.

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without notice



• **Headquarters**

#419-4, Chongchon-Dong, Bupyeong-Gu, Incheon City, Korea 403-030
Tel. +82 32 508 1280 ~ 2 / Fax. +82 32 508 1289 / www.sjpmt.com
sales@sjpmt.com

• **Sejong Europe**

C/ Ponent 78 Nave C6 Pol. Ind. Can Mascaró 08756 La Palma de Cervelló
Barcelona. Spain
Tel. +93 470 09 10 / Fax. +93 480 90 18 / coyma@coyma.com

• **Sejong America INC**

4 Corporate Dr., Unit G Cranbury, NJ 08512
Tel. +609 619 3685 / Fax. +609 619 3686
sales@keyinternational.com



USA Distributor



Key International, Inc.
4 Corporate Drive, Unit G
Cranbury, NJ 08512
T:(609)619-3685/F:(609)619-3686
www.keyinternational.com
sales@keyinternational.com