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PHARMA & FOOD / CHEM / MACHINE



Automatic Rotary Tablet Press

Automatic Capsule Filling Machine

Automatic Coating System

High Speed Mixer

# PHARMATECH KOREA MACHINE

*Pharmaceutical Machinery Technology Korea*



PHARMATECH KOREA CO., LTD.



>>> PHARMATECH KOREA CO., LTD.

# 풍부한경험과만나십시오! 품격의깊이가드립니다.

세계속의기업을꿈꾸며  
「파마텍코리아」로거듭났습니다.



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PHARMATECH KOREA CO., LTD.





# Automatic Rotary Tablet Press

The newly developed Automatic Rotary Tablet Press Machine PKT-3000N series presses pharmaceutical products or food into tablets. They are stronger and more efficient than any other tablet-making machine on the market. PHARMATECH KOREA has gained high reputation worldwide for making user-friendly machines.



Automatic Rotary Tablet Press

Automatic Capsule Filling Machine

Automatic Coating System

High Speed Mixer

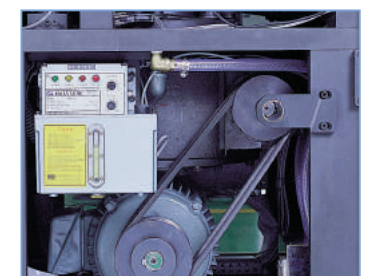
## PLC With Trouble - Free 10.4" Touch-Screen

All integrated major operation can be done just by easily finger touch on the 10.4" up-grading monitoring icon.



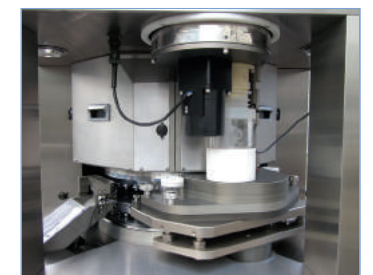
## Torsion-Proof Driving Structure

The turret drive with a well-proportioned hardened worm and bronze worm wheel produces a vibration-free rotation. The main motor, supplied with a frequency inverter, gives a smooth and large overall speed adjustment range.



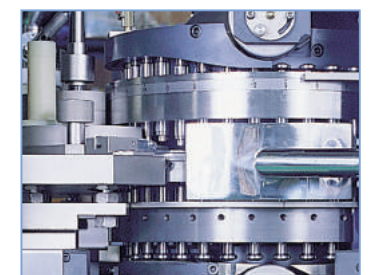
## Mechanical Feeder

Forced mechanical feeders with a single, double and tripple paddle or even a sophisticated constant level feeder are allowing any type of powder to be fed successfully, and ensures accuracy in ingredient feeding.



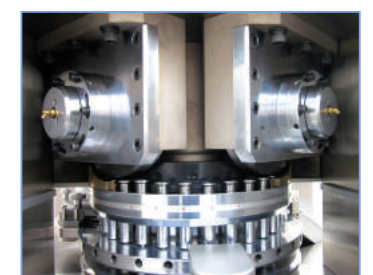
## Delicate Disk & Rail

"IPT" or "EU" standard tools type D, B or BB are available. The turret has a standard hard chromium plated surfaces for die table.



## Pre-Compression & Main Compression

PKT-3000N series has a pre-compression with 10 tons and a main compression with 10 tons.





# Automatic Rotary Tablet Press

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Automatic Rotary Tablet Press

Automatic Capsule Filling Machine

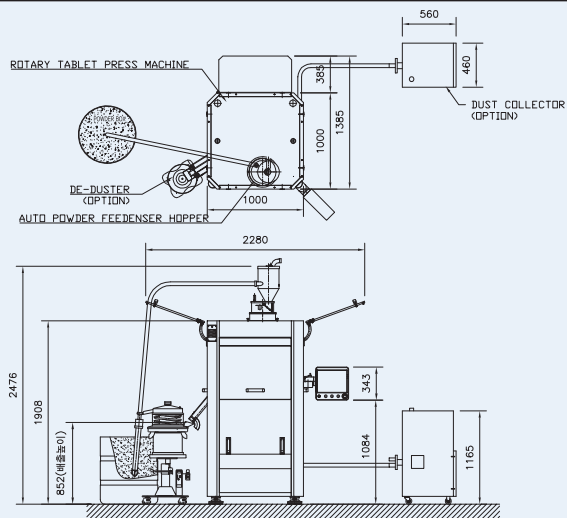
Automatic Coating System

High Speed Mixer

## PKT-3000N Series (30N/36N/45N)

- Super-compact design
- Required smallest space
- Applied GMP regulations
- Quick interchangeable tooling
- Operator-friendly

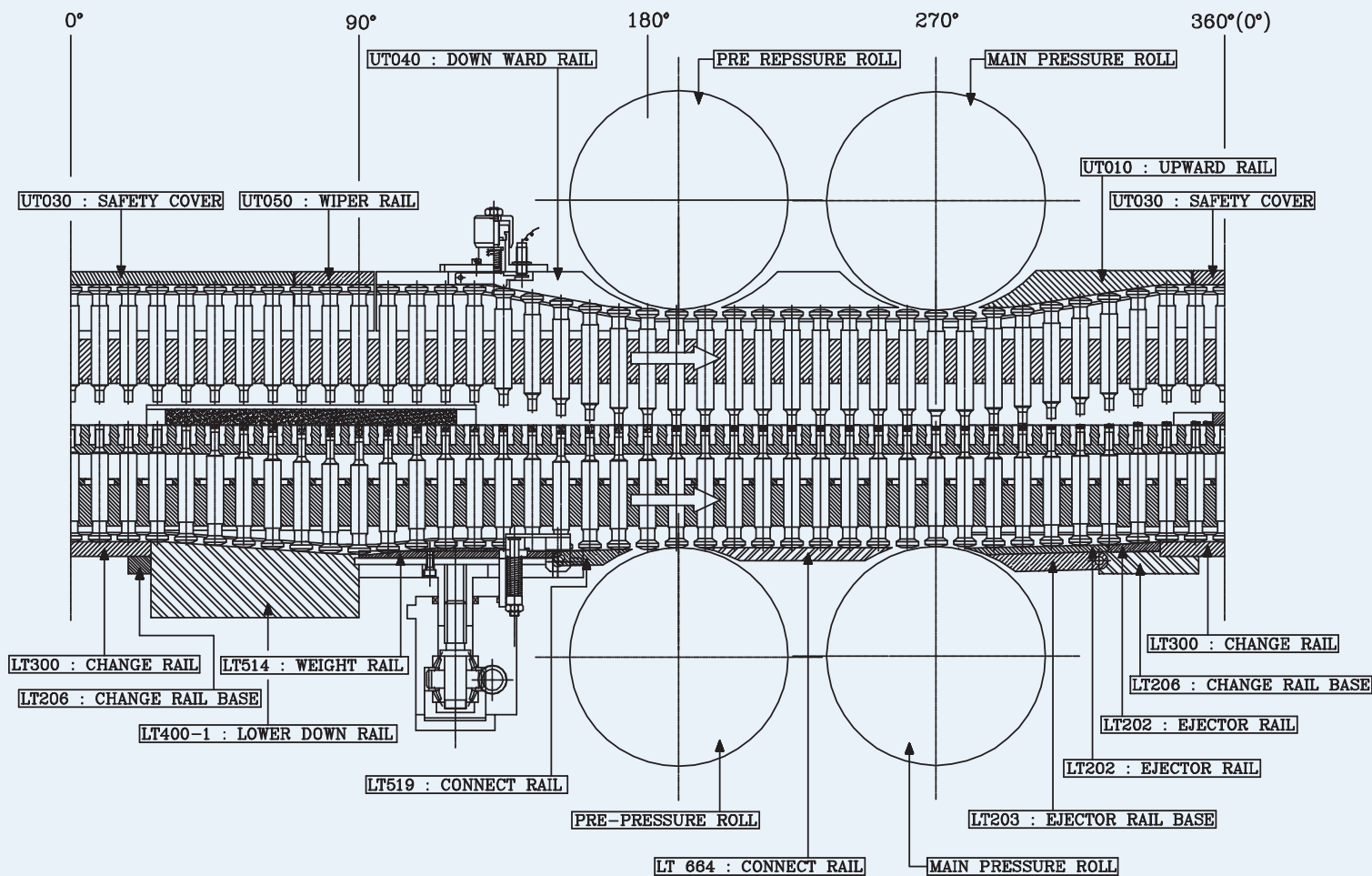
### Installation Lay-Out



### Specification

NO	MODEL NUMBER	PKT-30N "D"	PKT-36N "B"	PKT-45N "BB"
1	Station Number	30	36	45
2	Output Capacity (Tab/H)	Max. 144,000	Max. 172,800	Max. 216,000
3	R. P. M (Max.)	80	80	80
4	Tablet Diameter (Max.)	Round : $\phi$ 25	Round : $\phi$ 16	Round : $\phi$ 13
		Shape : 25mm	Shape : 19mm	Shape : 14mm
5	Tablet Thickness (Max.)	11 mm	8.5mm	8.5mm
6	Upper Punch Insert	1~6mm	1~6mm	1~6mm
7	Pre-Pressure (Max.)	10 TON	10 TON	10 TON
8	Main Pressure (Max.)	10 TON	10 TON	10 TON
9	Die Diameter (Max.)	$\phi$ 38.10mm	$\phi$ 30.162mm	$\phi$ 24.003mm
10	Die Length	23.812mm	22.225mm	22.225mm
11	Pitch Circle Diameter	420 mm	420 mm	420 mm
12	Main Motor	7.57 Kw	7.57 Kw	7.57 Kw
13	Net Weight	4,000 Kg	4,000 Kg	4,000 Kg
14	Voltage	220V/380V/440V, 60/50Hz	220V/380V/440V, 60/50Hz	220V/380V/440V, 60/50Hz

### Punch cycle







# Automatic Rotary Tablet Press

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Automatic Rotary Tablet Press

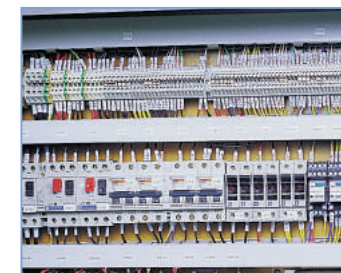
Automatic Capsule Filling Machine

Automatic Coating System

High Speed Mixer

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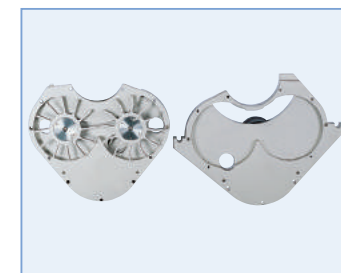
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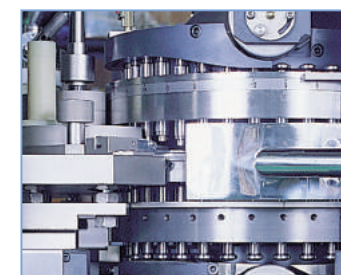
## Mechanical Feeder

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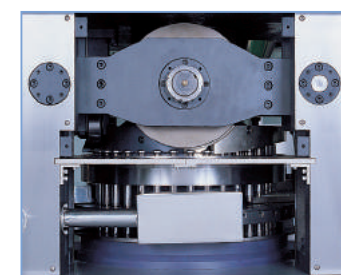
## Delicate Disk & Rail

"IPT" or "EU" standard tools type D, B or BB are available. The turret has a standard hard chromium plated surfaces for die table.



## Pre-Compression & Main Compression

PKT-3000 series has a pre-compression with 3 tons and a main compression with 10 tons.





# Automatic Rotary Tablet Press

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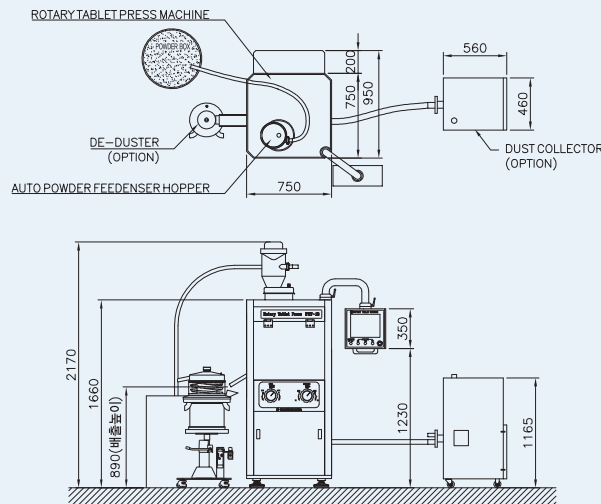
Automatic Rotary Tablet Press

Automatic Capsule Filling Machine

Automatic Coating System

High Speed Mixer

## Installation Lay-Out



### PKT-1000 Series (13/16/19)

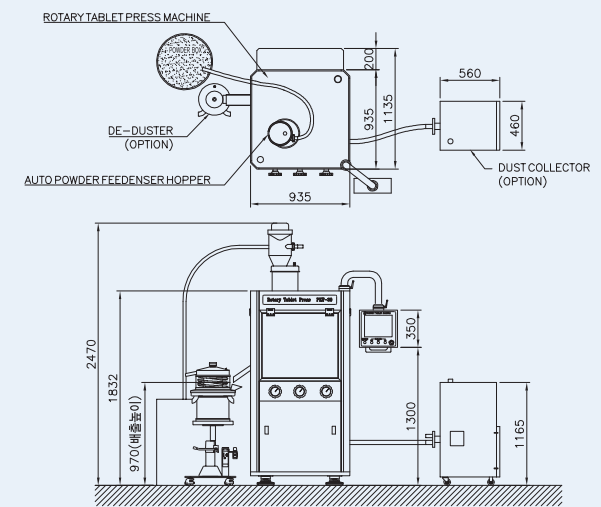
- Super-compact design
- Required smallest space
- Applied GMP regulations
- Quick interchangeable tooling
- Operator-friendly

## Specification

NO	MODEL NUMBER	PKT-13 "D"	PKT-16 "B"	PKT-19 "BB"
1	Station Number	13	16	19
2	Output Capacity (Tab/H)	Max. 62,400	Max. 76,900	Max. 91,200
3	R. P. M (Max.)	80	80	80
4	Tablet Diameter (Max.)	Round : $\phi$ 25 Shape : 25mm	Round : $\phi$ 16 Shape : 19mm	Round : $\phi$ 13 Shape : 14mm
5	Tablet Thickness (Max.)	11 mm	8.5mm	8.5mm
6	Upper Punch Insert	1~6mm	1~6mm	1~6mm
7	Pre-Pressure (Max.)	2 TON	2 TON	2 TON
8	Main Pressure (Max.)	10 TON	10 TON	10 TON
9	Die Diameter (Max.)	$\phi$ 38.10mm	$\phi$ 38.162mm	$\phi$ 24.003mm
10	Die Length	23.812mm	22.225mm	22.225mm
11	Pitch Circle Diameter	200mm	200mm	200mm
12	Main Motor	3.7Kw	3.7Kw	3.7Kw
13	Net Weight	1,500 Kg	1,500 Kg	1,500 Kg
14	Voltage	220V/380V/440V, 60/50Hz	220V/380V/440V, 60/50Hz	220V/380V/440V, 60/50Hz

### PKT-3000 Series (30/36/45)

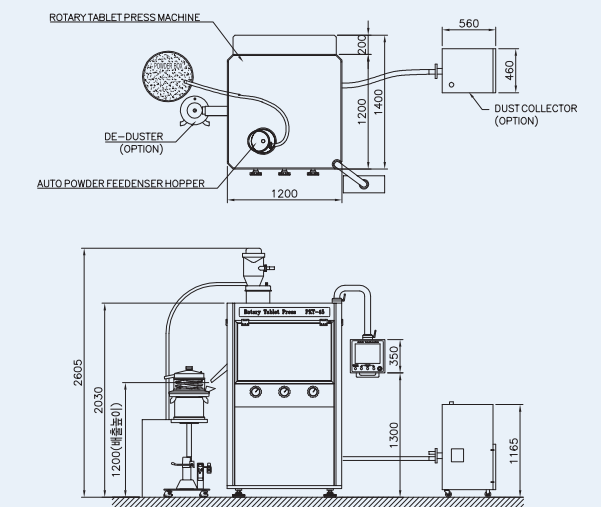
- Super-compact design
- Required smallest space
- Applied GMP regulations
- Quick interchangeable tooling
- Operator-friendly



NO	Model Number	PKT-30 "D"	PKT-36 "B"	PKT-45 "BB"
1	Station Number	30	36	45
2	Output Capacity (Tab/H)	Max. 144,000	Max. 172,800	Max. 216,000
3	R. P. M (Max.)	80	80	80
4	Tablet Diameter (Max.)	Round : $\phi$ 25 Shape : 25mm	Round : $\phi$ 16 Shape : 19mm	Round : $\phi$ 13 Shape : 14mm
5	Tablet Thickness (Max.)	11 mm	8.5mm	8.5mm
6	Upper Punch Insert	1~6mm	1~6mm	1~6mm
7	Pre-Pressure (Max.)	5 TON	5 TON	5 TON
8	Main Pressure (Max.)	10 TON	10 TON	10 TON
9	Die Diameter (Max.)	$\phi$ 38.10mm	$\phi$ 30.162mm	$\phi$ 24.003mm
10	Die Length	23.812mm	22.225mm	22.225mm
11	Pitch Circle Diameter	420mm	420mm	420mm
12	Main Motor	5.5Kw	5.5Kw	5.5Kw
13	Net Weight	3,000 Kg	3,000 Kg	3,000 Kg
14	Voltage	220V/380V/440V, 60/50Hz	220V/380V/440V, 60/50Hz	220V/380V/440V, 60/50Hz

### PKT-5000 Series (45-1/55/65)

- Super-compact design
- Required smallest space
- Applied GMP regulations
- Quick interchangeable tooling
- Operator-friendly



NO	Model Number	PKT-45-1 "D"	PKT-55 "B"	PKT-65 "BB"
1	Station Number	45	55	65
2	Output Capacity (Tab/H)	Max. 216,000	Max. 264,000	Max. 312,000
3	R. P. M (Max.)	80	80	80
4	Tablet Diameter (Max.)	Round : $\phi$ 25 Shape : 25mm	Round : $\phi$ 16 Shape : 19mm	Round : $\phi$ 13 Shape : 14mm
5	Tablet Thickness (Max.)	11 mm	8.5mm	8.5mm
6	Upper Punch Insert	1~6mm	1~6mm	1~6mm
7	Pre-Pressure (Max.)	5 TON	5 TON	5 TON
8	Main Pressure (Max.)	10 TON	10 TON	10 TON
9	Die Diameter (Max.)	$\phi$ 38.10mm	$\phi$ 30.162mm	$\phi$ 24.003mm
10	Die Length	23.812mm	22.225mm	22.225mm
11	Pitch Circle Diameter	620mm	620mm	620mm
12	Main Motor	7.57Kw	7.57Kw	7.57Kw
13	Net Weight	5,000 Kg	5,000 Kg	5,000 Kg
14	Voltage	220V/380V/440V, 60/50Hz	220V/380V/440V, 60/50Hz	220V/380V/440V, 60/50Hz





# Automatic Capsule Filling Machine

PHARMATECH KOREA HARD GELATINE CAPSULE FILLING & CLOSING MACHINE has been introduced to the worldwide pharmaceutical industry and has proven to be extremely efficient and accurate. PKF-45, PKF-95, PKF-135 are the choice of the capsule filling machine for medium and large production capacity. All models completely meet GMP requirements and ISO 9001. High accuracy, high productivity, easy maintenance, cleaning are provided with affordable prices. The available capsule sizes are #4 through #00.



Automatic Rotary Tablet Press

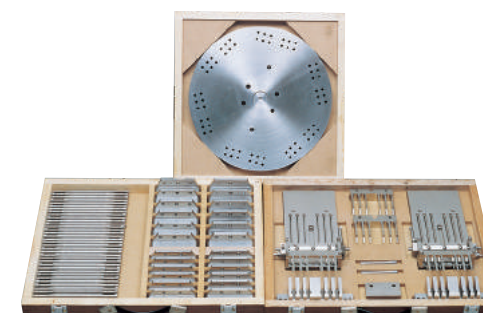
Automatic Capsule Filling Machine

Automatic Coating System

High Speed Mixer

## Size Change Parts

The ease of size change parts is one of the best advantages of Phamatech Korea capsule filling machine. It requires only changing the dosing disc, tamping pins, capsule feeder, orientation parts and capsule segments. Disassembly and reassembly is very simple. It requires only 40~60min. for change interchangeable.



## Dust Collector

- Electric Supply : 3 Phase, 220/380V AC, 60/50 Hz
- Drive Motor : 1.5/2.2/3.7/5.5 kw
- Dimensions : H970×W460×D530(mm)
- Net Weight : 100kg



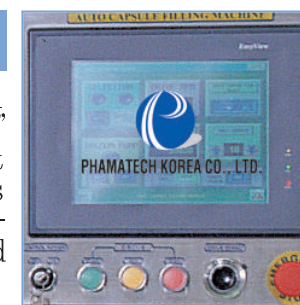
## Capsule Polisher

- Electrical : 3 Phase, 220/380V AC, 50/60 Hz
- Power req : 0.23 kw
- Dimensions : 1260×450×1160(mm)
- Net Weight : 44kg



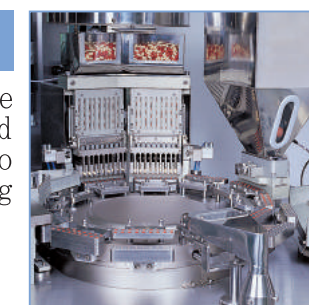
## PLC control system

Almost all the functional switches are integrated in 10" color screen to make it possible that machine is operated just by the finger-touch of the icons displayed on the screen.



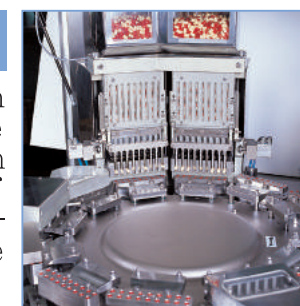
## Pellet Device

Pellet device is a filling device which is being filled with a fixed size of granule and grain into capsule using a separated filling equipments.



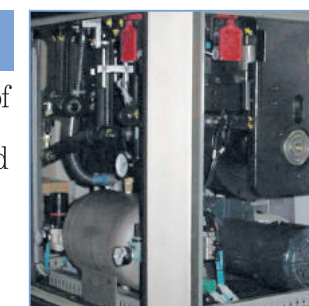
## Main Operating

Unseparated capsules remain in the upper segment. As the push pins are raised, pins push unseparated capsules out of segment hole, and the compressed air blows them into the capsule receiver.



## Unique Driving Structure

Fully Packaged 1(one) unit of Main Motor and Reducer provided easy checking and repair when it needed.



## Powder Filling

Powder is supplied into dosing chamber by the auger inside the powder tank. Powder is tamped into the dosing disc at five tamping stations and formed.





# Automatic Capsule Filling Machine

# Capsule Filling Machine

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Automatic Rotary Tablet Press

Automatic Capsule Filling Machine

Automatic Coating System

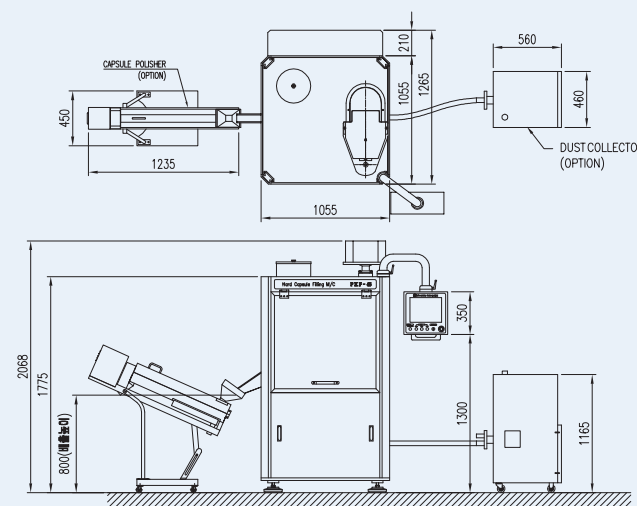
High Speed Mixer

## Installation Lay-Out

## Specification

### PKF-45

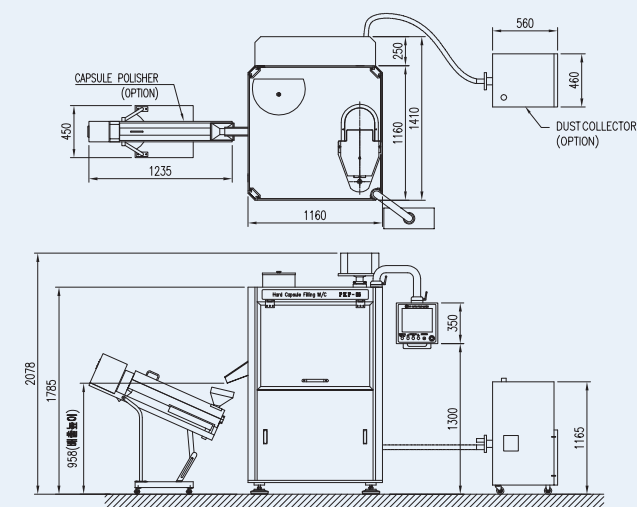
- Super-compact design
- Required smallest space
- Applied GMP regulations
- Quick interchangeable tooling
- Operator-friendly



No	DESCRIPTION	MODEL NO	PKF-45
1	Segment Holes		6
2	Output Capacity (Max.)		48,600/Hr
3	R.P.M (Max.)		135/Min
4	Capsule Size		#00.0.1.2.3.4
5	Main Motor		1.5 Kw
6	Powder Motor		0.55 Kw
7	Method of Speed Control		Inverter Control
8	Dimension of Machine		D 1055 × W 1265 × H 1775 MM
9	Net Weight		Approx. 1300 Kg
10	Power Consumption		3 Kw

### PKF-95

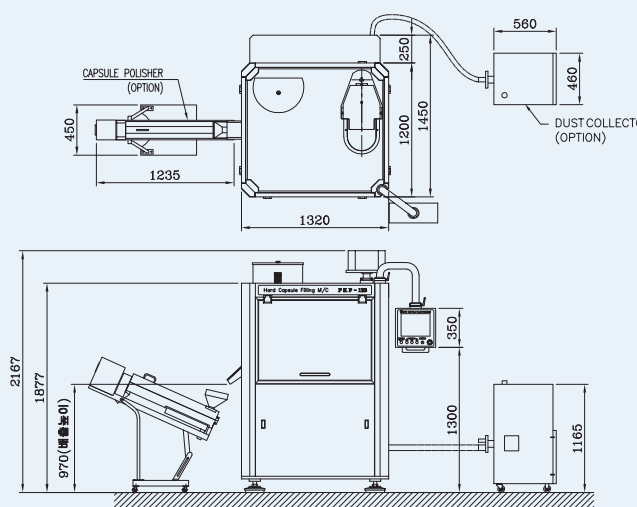
- Optimized price structure
- Trouble-free composition
- Low maintenance cost
- Longer durability
- Safety first with emergency alarm



No	DESCRIPTION	MODEL NO	PKF-95
1	Segment Holes		12
2	Output Capacity (Max.)		97,200/Hr
3	R.P.M (Max.)		135/Min
4	Capsule Size		#00.0.1.2.3.4
5	Main Motor		1.5 Kw
6	Powder Motor		0.55 Kw
7	Method of Speed Control		Inverter Control
8	Dimension of Machine		D 1160 × W 1410 × H 1785 MM
9	Net Weight		Approx. 1800 Kg
10	Power Consumption		4 Kw

### PKF-135

- Accurate dosing performance
- Highest productivity
- Statistical in-process control
- Powder contacting parts by AISI 316L
- Stable validation package



No	DESCRIPTION	MODEL NO	PKF-135
1	Segment Holes		18
2	Output Capacity (Max.)		135,000/Hr
3	R.P.M (Max.)		125/Min
4	Capsule Size		#00.0.1.2.3.4
5	Main Motor		2.2 Kw
6	Powder Motor		0.55 Kw
7	Method of Speed Control		Inverter Control
8	Dimension of Machine		D 1320 × W 1450 × H 1877 MM
9	Net Weight		Approx. 3000 Kg
10	Power Consumption		5 Kw





# Automatic Coating System

## MAIN COMPONENTS

1. PAN CONSTRUCTION WITH AIR TIGHT COVER provides the best condition for mixing and drying. It promises time saving on the coating and drying process and maximize coating efficiency.
2. Plate type baffles, which are attached on the wall of coating pan, allow tablets to be coated in the Air Shower as hot air goes through falling tablets.
3. Hot air supply and exhaust are automatically controlled along with the temperature.
4. The supply of coating solution and atomizing air can be operated simply by spray control unit.
5. For sugar-coating, the hot air supply and the exhaust can be automatically controlled by the Auto Damper and the sequence spray- pause 1, pause 2, dry is automatically operated by the preset timer.
6. Main controllers and indicators installed on the front of pan cabinet provide easier control of temperature.
7. Reverse rotation discharge system can be discharged with simple operation without any damage of tablet.
8. Easy pan cleaning is promised by the machine design.
9. Both the film coating and sugar coating can be achieved by one machine.
10. Excellent looking with complete stainless steel cover and full compliance with the latest GMP regulations.



Automatic Rotary Tablet Press

Automatic Capsule Filling Machine

Automatic Coating System

High Speed Mixer



### DUST COLLECTOR

The air, sucked from the mass of tablets by the fan, is filtered and exhausted. The exhaust air temperature is also controlled by a sensor.



### HEAT EXCHANGER

The air, heated by steam or an electric heating system, is supplied into the coating pan by the fan blower and the air temperature is controlled a sensor.(Steam heater is standard)



### SOLUTION TANKS

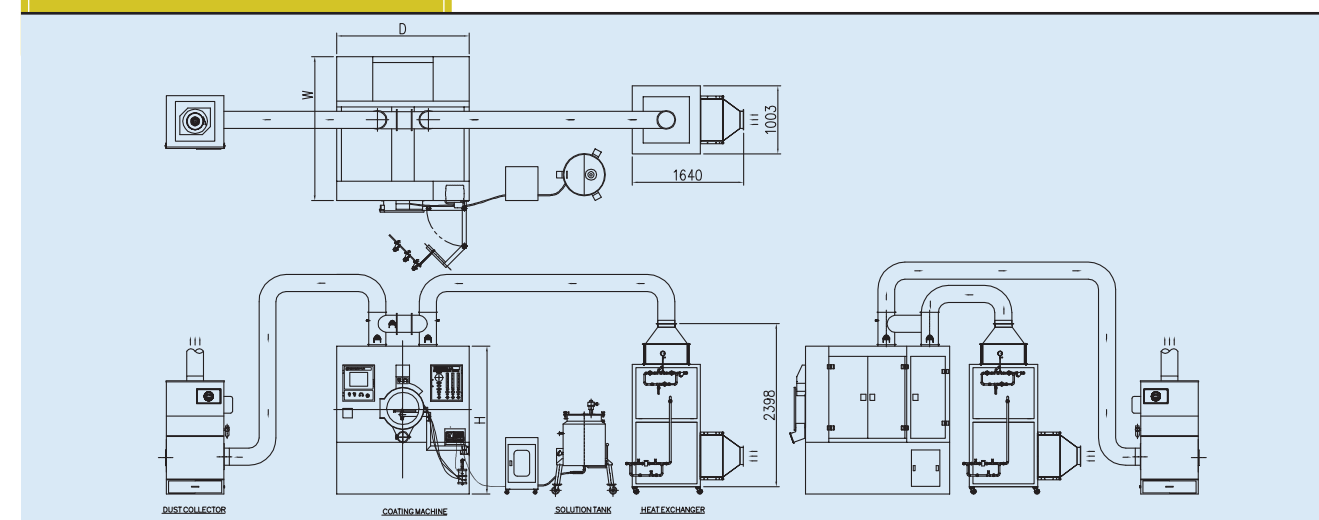
There are 2 kinds of tank ; for sugar & film. And these can be maintain the solution temperature at required range.



### CONTROL PANEL OF TOUCH-SCREEN TYPE (PKC-130)

10.4" Touch-screen of icon provide all basic functions such as spray, pause, drying-time.

## Installation Lay-Out



## Specification

MODEL	PAN DIA (mm)	BLIM VOLUME (L)	OUTPUT CAPACITY (Kg)	DRIVE MOTOR (Kw)	PAN SPEED (RPM)	DIMENSION			AIR VOLUME	
						W	D	H	EXHAUST CMM/mmH <sub>2</sub> O	SUPPLY CMM/mmH <sub>2</sub> O
PKC-30	300	4.6	0.7-4.5	0.4	FREE	750	1000	1300	11 / 250	11 / 120
PKC-50	500	18	7-12	0.75	FREE	900	1000	1300	30 / 350	30 / 60
PKC-100	1000	105	50-70	2.2	0-16	1320	1590	1520	40 / 400	40 / 80
PKC-130	1300	225	120-150	3.7	0-16	1650	1850	1900	45 / 450	45 / 80
PKC-150	1500	350	200-230	5.5	0-14	1950	2115	2175	50 / 450	50 / 80
PKC-170	1700	550	320-380	7.5	0-12	2200	2450	2450	65 / 450	65 / 100





# High Speed Mixer

## MAIN COMPONENTS

### Axles of Agitator and Chopper

Both have double sealing structure teflon packing and air-sealing over it. It prevents the axles from the inflow of powder and other particles. Washing of the air-sealing tube is possible.

### Impeller

The surface is specially polished so that it can prevent powder sticking. Seperable impellers are simple in construction and come to be disassembled and reassembled easily and quickly.

### Chopper Device

Chopper shaft is connected straight with driving motor. It reduces vibration and noise.

### Binder Feeding Device

Binder is fed in the way of down-fall from the tank placed on the top of vessel. Feeding quantity is controlled by opening and shutting valve with the handle.



Automatic Rotary Tablet Press

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## INSIDE STRUCTURE OF VESSEL

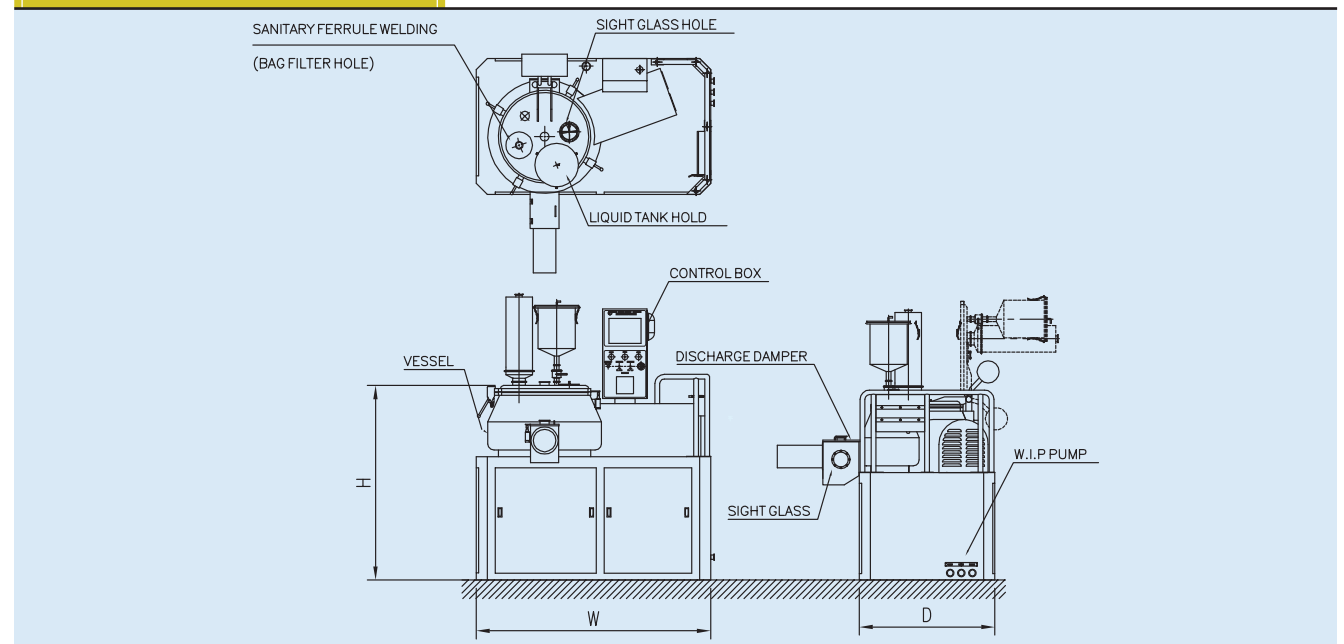
### Maximum thrust : The mixing tool

Tangentially-attached hollow profile Minimum bottom and wall clearances for maximum product yield

### Perfectly positioned : The chopper

High surface area in the zone of greatest velocity Effective for compaction of granules and breaking up of lumps

## Installation Lay-Out



## Specification

MODEL	FULL CAP'Y	WORK CAP'Y	AGITATOR		CHOPPER		DIMENSION		
			DRIVE MOTOR	SPEED(RPM)	DRIVE MOTOR	SPEED(RPM)	W	D	H
PKM-30	70ℓ	30ℓ	5.5Kw	0~150	2.2Kw	0~3400	1000	550	1000
PKM-50	120ℓ	50ℓ	7.5Kw	0~220	3.7Kw	0~3400	1200	680	1100
PKM-100	240ℓ	100ℓ	11Kw	0~120	5.5Kw	0~3400	1600	900	1300
PKM-200	455ℓ	200ℓ	15Kw	0~120	7.5Kw	0~3400	1900	1075	1600
PKM-300	670ℓ	300ℓ	22Kw	0~105	11Kw	0~3400	2090	1130	1630
PKM-400	850ℓ	400ℓ	30Kw	0~90	11Kw	0~3400	2250	1300	1850
PKM-500	1050ℓ	500ℓ	37Kw	0~80	11Kw	0~3400	2430	1480	2320
PKM-600	1280ℓ	600ℓ	45Kw	0~75	11Kw	0~3400	2580	1650	2640





- Automatic Rotary Tablet Press Machine
- Automatic Capsule Filling Machine
- Automatic Coating System
- High Speed Mixer



**PHARMATECH KOREA CO., LTD.**

82, Oncheon-ro 237beon-gil, Paltan-myeon,  
Hwaseong-Si, Gyeonggi-do, Korea

Tel. (82-31) 353-5226

Fax. (82-31) 354-7178

E-mail, [pmtkorea@naver.com](mailto:pmtkorea@naver.com)

Agent or Distributor