

PharmTak, Inc. Facilities, R&D Manufacturing Equipment and Analytical Instruments

Facilities:

1. A 2,000 sqft 7-room GMP-like pilot plant which is clean, dust contained, environmentally controlled and development focused
2. A 960 sqft class 10,000 clean room

R&D Manufacturing, Packaging Equipments and IPC Test Instruments:

Equipment	Model	No. of Units	Size/Capacity	Manufacturer
High Shear Mixer/Granulator	YC-SMG-10	1	3/5/10 Liters	Yenchen, Taiwan
Fluidized Bed Drier/Granulator with Top Spray, Bottom Spray and Side Spary Bowls	DPL-1	1	Up to 1 kg	Chongqing Jinggong, China
Fluidized Bed Drier/Granulator with Wurster Column	GPCG 3	1	Up to 3 kg	Glatt Air, Germany
Planetary Mixer	HL 600	1	30 and 60 Liters	Hobart
Cone Mill	CoMil 197	1		Quadro
Retsch Mill	SR 300	1		Retsch, Germany
Oscillating Mill (Mark II)	M1230SC	1		Manesty
Triple Roller Mill	TRM		4 x 8"	Ross
Twin Shell Dry Blender	Lab	1	1 Qt and 2 Ot	Patterson Kelley
PK Blender		1	1 cuft	Gemco
PK Blender		1	2 cuft	Gemco
Hydraulic Tablet Press	P-142, RC53	1	manual	Enerpac
Piccola Rotary Tablet Press	8	1	8 Station- D tooling	SMI
Rotary Tablet Press	900-512-1	1	16 Station- B tooling	Stokes
Tablet Deduster	AV-100	1		George Nutting Co.
Perforated Pan Coater	BGB-5F	1	10", 12" & 15" Pans	Zhejiang Xiaolun, China
Perforated Pan Coater	500	1	24" Pan	Driacoater, Germany
Capsule Filling System	Profill 100	1	Size 0, 1 & 2 tooling	Capsuleworld
Homogenizer	L4RT-A	2		Silverson
Lee Tri-Mix Turbo-Shear	D12T	1	2 ½ Gallon	Lee Industries, Inc.
Cap Induction Seal Unit	400-A10	1	Manual	Lepel
PacWrap Shrinking Wrapping System with Shrink Tunnels	1580	1	Lab Scale	ATW
Tablet Hardness Tester	VK 200	1	Hardness/Thickness	Varian Inc.
Moisture Balance (for LOD)	HR83-P	1		Mettler Toledo
Disintegration Tester with Heater	Disintegration	1	3-hole	Varian Inc.
Tapped Density Tester	Tap Density	1	One cylinder	Varian Inc.
Friability Tester	Friabilator	1	Twin set	Varian Inc.
ATM Sifter	Sonic Sifter	1	5 grams	ATM Co.
Ro-Tap Sieve Shaker	RX-29, RX86	2	100 grams	WS Tyler
Oven Drier (Function Line)	T20	1	Up to 250°C	Heracus
Oven Drier (Gravity Oven)	1370 GM	1	3 Shelves	VWR
Floor Scale with accessories	CD-31, 33	1	2,000 Kgs	Ohaus

R&D Analytical Instruments:

Instrument	Model	No. of Units	Manufacturer
HPLC with Quart Pumps and DAD	1100 Series	1	Agilent
HPLC with Duel Pumps and VWD		1	Shimadzu
UV/VIS Spectrophotometer	UV-1601	1	Shimadzu
Dissolution Apparatus with Auto Sampler	VK 7010	2	Vankel-Varian
Media-Mate Plus	25-710-130	1	Hansen Research
Dissolution Apparatus	VK 7000	1	Vankel-Varian
Water Purification System	Direct-Q	2	Millipore
Karl Fisher Titrator (Moisture Analyzer)	DL 31	1	Mettler Toledo
Stability Oven with Humidifier 25°C/60%RH	6010	1	Caron
Stability Oven with Humidifier 40°C/75%RH	6010-1	1	Caron
Thermo Stability Oven 5°C	REL3004A21	1	Revco
Refrigeration Chamber (3 Doors)	T-72	2	True
VWR Vacuum Oven	1430M	1	Sheldon
Analytical Balance with Printer	BP211D	1	Sartorius
Analytical Balances	Various	4	Mettler Toledo
Top Loading Balances	Various	5	Mettler Toledo
Brookfield Digital Viscometer	DV-E	1	Brookfield
Brookfield Digital Viscometer (for Ointment)	DV-II +	1	Brookfield
pH Meter	8010	1	VWR
Centrifuge	Micromax RF	1	IEC
Ultrasonic Cleaner	08892-01	2	Cole Parmer