



Precision Cleaning Facility

Features & Equipment

STORAGE

- 1 Roll-up material entry door (10 ft)

PRE-CLEANING

- 2 Roll-up material entry door (20 ft)
- 3 Bridge crane (5 ton)
- 4 Parts pre-wash area
- 5 Aqueous parts washer

CLEANING & INSPECTION

- 6 Bridge crane (2 ton)
- 7 Ultrasonic cleaner

ASSEMBLY, TEST & PACKAGING

- 8 Bridge crane (3 ton)
- 9 Torque stand
- 10 Pressure test system

PROCESS SUPPORT SYSTEMS

- 11 Water treatment system
- 12 RO water storage
- 13 Air compressor system
- 14 Central wet vacuum system
- 15 Analytical laboratory

Cleanroom Specifications

Cleanroom	Classification	Dimensions		Total Area		Ceiling Height	
		feet	meters	feet (square)	meters (square)	feet	meters
Storage	Not classified	16 x 48.5	52.5 x 159	776	8347.5	18	5.5
Pre-cleaning	Controlled	21.5 x 48.5	70.5 x 159	1043	11,209.5	16.5	5
Gowning & staging	ISO 5 Class 100	8 x 37	2.44 x 11.28	296	27.52	13	4
Cleaning & inspection	ISO 5 Class 100	12 x 37	3.66 x 11.28	444	41.28	13	4
Assembly, test and packaging	ISO 5 Class 100	18 x 37	5.49 x 11.28	666	61.93	13	4
Laboratory	ISO 4 Class 10 (flowbench)	n/a	n/a	n/a	n/a	n/a	n/a



STORAGE



Material entry — overhead door

- Width — 10 feet (3 meters)
- Height — 12 feet (3.66 meters)

PRE-CLEANING



Material entry — overhead door

- Width — 20 feet (6 meters)
- Height — 16 feet (4.87 meters)



Bridge crane — 5 ton (4536 kg)

- Approximate travel — 45+ feet (13+ meters)



Parts pre-wash area

- 7 x 9 feet (213 x 294 cm)
- RO, DI, and soft water available



Automated parts washer

- Spray arm
- Turntable diameter — 42 inch (107 cm)
- Weight capacity — 3000 pound (1361 kg)
- Inside working height — 55 inch (140 cm)

GOWNING & STAGING



Three distinct areas

- Personnel entry
- Gowning
- Material staging

CLEANING & INSPECTION



Bridge crane — 2 ton (1814 kg)

- Approximate travel — 35+ feet (10+ meters)



Ultrasonic cleaner (3-stage)

- Ultrasonic wash
- Ultrasonic rinse
- Recirculating hot air dryer

ASSEMBLY, TEST & PACKAGING



Bridge crane — 3 ton (2722 kg)

- Approximate travel — 35+ feet (10+ meters)



Torque stand

- Assist in valve assembly
- Ensures accurate torque readings



Valve pressure test unit

- Horizontal valve tester
- 25 ton clamping capacity
- 10,000 psi
- Size range (Inside Diameter) — 3/4–10 inch (20–250 dn)

PROCESS SUPPORT SYSTEMS



Water treatment system

- Reverse osmosis / deionizing water treatment
- 5 micron filtration



Water storage — Reverse Osmosis

- 250 gallon (946 liter)



Air compressor system

- Clean, dry filtered air (to 1 micron)
- Clean, dry filtered nitrogen (to 1 micron)



Central wet vacuum system



Analytical laboratory

- Vertical-type laminar flow clean bench
- Semi-micro weighing precision scale

