

APPLICATIONS
I. PHARMA
1. Recrystallization, Sonomiling
2. Drug Particle Molecule Engineering
3. Micronizationg
4. Processing, Mixing
5. Sieving
6. Vat, Reactor cleaning , Ampoule/Vial/ Glassware cleaning
7. Online Pipe cleaning/Deblocking
8. Glassware cleaning
9. Online ampoule/vial cleaning
10. Online Sludge/ Boiler/Heat Exchanger cleaning (Research Labs)
II. METAL
1. Online Cleaning (Descaling wires & Longs), Derusting, Descaling of Rods, Rebars @ 100 M/pm.
2. Online coating of Wire, Rod, Rebar, Ni Zn, Cu, Brass
3. Sheet Cleaning, Pregalvanizing/galvalum @ 300M/pm
4. 15% increase in Aluminium yield in production process
5. Ceramic coating Oxide/Nitride
III. CHEMICAL/ NANO ENGG.
1. Sieving
2. Pipe Deblocking
3. Mixing
4. Emulsion forming
5. Online boiler sludge/Heat Exchanger cleaning
IV. POWER GENERATION
1. 10 KWH Power generation with multi-element Titanium Powder as fuel delivering power @ 40 Paise /KWH for Home/Office/SME manufacturing & Villages
V. PROCESSING
1. Printer Inks
2. Paints
3. Cell Disruption
4. Extraction (catalytic)

5. Dispersions and blending
6. Degassing
7. Sonochemical Crystallisation & Precipitation
8. Desulfurisation
9. Sterilisation with UV
10. Transterification
11. Particle Grinding
12. Homogenization
13. Micronisation
14. Impregnation
15. Instrument cleaning
16. De-agglomeration
17. Supersaturated solution preparation
18. Nanoemulsions, Liposomes, Nanosized crystals
19. Wax emulsions
20. Pigment dispersions
21. Biofuels
22. Emulsified fuels
VI. WASTE MANAGEMENT & Industrial water treatment
1. Recovery of metallic impurities
2. Recovery of organic chemicals
3. Ultrasonic Plasma processing
4. Defloculation
5. Increased aeration
6. Municipal Waste management
7. Enhanced Methane formation
VII. AUTO
1. Aqueous parts cleaning
2. Emission free degreasing & vacuum drying
3. Al/Mg. parts ceramic coating
4. Parts surface engineering tribology
5. Automatic/PLC basket handling
6. Cleaning drying Pre-Post die penetrant examination
VIII. ENGINEERING
1. Parts & Sub-assembly cleaning
2. Mixing
3. Forming Emulsions
4. Degreasing
5. Decoating
6. Decarbonising
7. Deburring
8. Automatic PLC Controlled Basket Handling

9. Hot Air Drying
10. Online boiler sludge cleaning
11. Vacuum Drying
12. Carbiding, Nitriding
IX. MEDICAL / HOSPITAL/ Decontamination
1. Cannulated surgical equipment/ Surgical Equipment
2. Nano Surface coating of replaceable implants joints/stents
3. Decoating
4. Implants
5. Dental Instrument cleaning/Decontamination
X. NUCLEAR DE-CONTAMINATION
1. Online descaling of Steam Generator, Condensors, Heat Exchangers
2. Fuel cleaning
XI. DEFENSE
1. Cleaning
2. Coating
3. Surface Engineering
XII. OIL
1. Increased yield due to dewaxing of well and pipes
XIII. AEROSPACE
1. Assemblies, parts Aqueous cleaning /drying with Vacural
2. Assemblies/parts solvent cleaning /drying with EFVD
3. Surface Engineering /coating
4. Cleaning/Drying in Pre/Post Dye Penetrant application
XIV. FOOD
1. Super saturated solution preparation
2. Homogenization
3. Sterilization with UV
4 Extraction
5. Emulsification
6. Mixing
7. Gel Preparation