## AXIAL IMPELLERS

### 10 SG
- Axial Flow
- Excellent pumping rates
- Low shear mixing
- Medium to high viscosity
- 1, 3 or 4 blades
- **Applications:**
  - Homogenization
  - Solid suspension
  - Heat Transfer
  - Draft Tube (Impeller C)
  - Side entry (4 blades)
  - WWT

### HPM 20
- Axial Flow
- High pumping rates
- High mixing efficiency
- Low and medium viscosity
- 1, 3 or 4 blades
- **Applications:**
  - Homogenization
  - Solid suspension
  - Heat Transfer
  - WWT

### HPM 10
- Axial Flow
- Good pumping rates
- Low and medium viscosity
- 2, 3 or 4 blades
- **Applications:**
  - Homogenization
  - Solid suspension
  - Heat Transfer
  - WWT

### HPM 5
- Axial Flow
- Very low shear mixing
- 2 blades
- Low viscosity
- **Applications:**
  - Solid suspension
  - Crystallization
  - Used principally for crystallization of alumina
  - Multistage agitator

### PBT
- Axial and Radial Flow
- Shear mixing
- Blades are mounted at an angle of 10° to 90°
- Low viscosity
- 2, 4 or 6 blades
- **Applications:**
  - Homogenization
  - Heat Transfer
  - Reactive dispersion & incorporation

### MARINE
- Axial Flow
- Good pumping rates
- Low viscosity
- High mixing efficiency
- **Applications:**
  - Homogenization
  - Solid suspension
  - Heat Transfer
  - WWT

### R
- Axial Flow
- High pumping rates
- Low and medium viscosity
- Low shear mixing
- **Applications:**
  - Homogenization
  - Solid suspension
  - Heat Transfer
  - WWT

### S
- Axial Flow
- High shear mixing
- Low viscosity
- Fast agitation (High speed)
- **Applications:**
  - Homogenization
  - Flash-mixing
  - Treatment of sewage sludge (presence of yarns and fibers)
  - WWT

### 31T
- Axial Flow
- Fast agitation (High speed)
- Low viscosity
- Low volume
- **Applications:**
  - Flash-mixing
  - Homogenization
  - WWT

### 2R
- Axial Flow
- High pumping rates
- Low viscosity
- Low Shear mixing
- 2 blades
- **Applications:**
  - Homogenization
  - Simple Flocculation
  - WWT

### HXP HP1
- Axial Flow
- 3 blades
- Low viscosity
- For fluid product (without solid load)
- **Applications:**
  - Homogenization
  - WWT

### HXP HP2
- Axial Flow
- Low Shear mixing
- Low viscosity
- For fluid product (without solid load)
- **Applications:**
  - Homogenization
  - Simple Flocculation
  - WWT
RADIAL IMPELLERS

RUSHTON TURBINE
Radial Flow
Gaz-Liquid/
Liquid-Liquid Transfer
For low to medium viscosities
Low viscosity
High shear
Applications:
Hydrometallurgy
Heat Transfer
Coupled with axial flow impeller
Low off-bottom placement for assisting solid suspension

FLAT BLADE TURBINE
Radial Flow
Gas-Liquid
Liquid-Liquid Transfer
For low to medium viscosities
Low viscosity
High shear, 2, 4 or 6 blades
Applications:
Hydrometallurgy
Heat Transfer
Coupled with axial flow impeller
Low off-bottom placement for assisting solid suspension

CURVED BLADES TURBINE
Radial Flow
Low level agitation
Low Shear
Low viscosity
Applications:
Prevents solid settling
Solid suspension
Heat Transfer
Low off-bottom placement for assisting solid suspension

BROGMIM
Radial Flow
High Gas-Liquid Transfer
High pressure reaction
Low viscosity
Applications:
Bio-Hydrometallurgy

SELF SECTION TURBINE
Radial Flow/Self aspiration
Gas-Liquid Transfer
Low viscosity
Applications:
Hydrogenation
White liquor
WWT (O2 injection T2)

HIGH SHEAR IMPELLER
For High shear applications
High speed dispersion
High viscosity
Used to break down solids
Applications:
Deagglomeration
Emulsification

6 RADIAL BLADES TURBINE
Two removable parts
Low viscosity
Used to break down solids
Applications:
Sulfur Melter
Heat transfer
Coupled with axial flow impeller
Low off-bottom placement for assisting solid suspension

SPECIAL IMPELLERS

HPM/TPM
Special Bottom impeller
Low and medium viscosity
Applications:
Hydrometallurgy
Prevents solid settling
Used principally for Alumina precipitation & coupled with HPM 5

COUNTER FLOW IMPELLER
Axial Flow
Mixing viscous fluids (High viscosity)
Low Re number (laminar or transitional)
Applications:
Polymerization
Food process
Dispersion of non-Newtonian fluids