



Side-Entering Agitators

Proven Design with

Advanced Impeller Technology



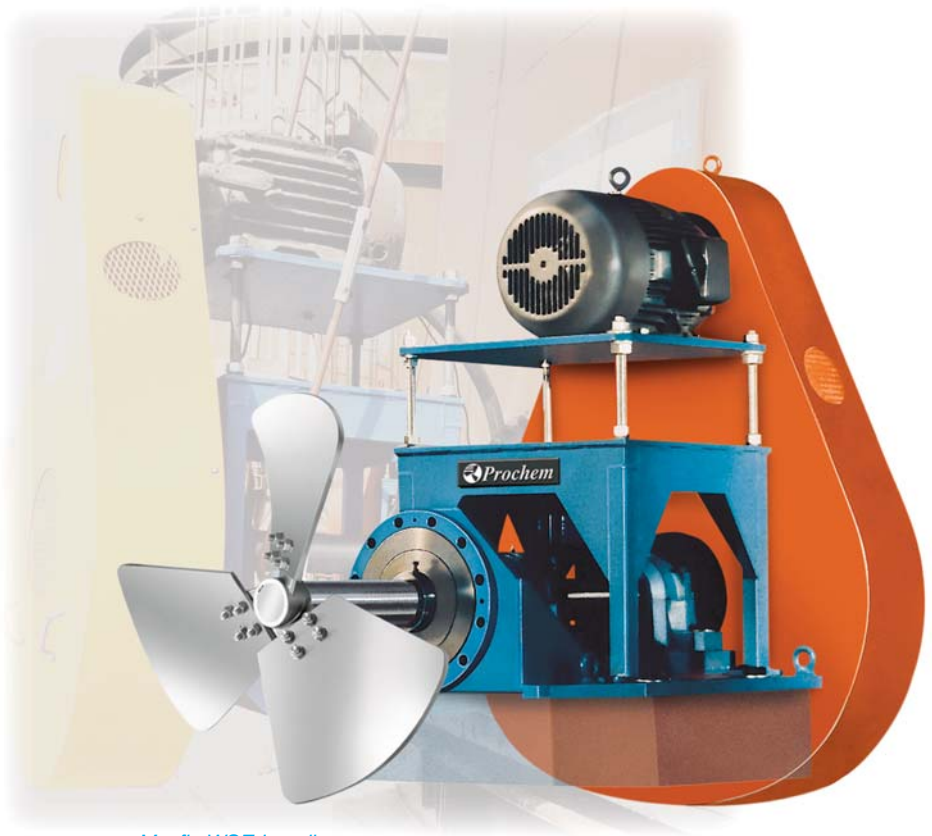
PROCHEM® PB AND MD SERIES AGITATORS... PRO

Designed with demanding applications such as pulp and paper and Flue Gas Desulphurization (FGD) in mind, PB and MD Series agitators are also ideal in petroleum blending/storage, BS & W and CPI vessels.

PB SERIES

The PB Series features a pillow block technology for an optimal, easy-to-maintain design.

- Convenient bearing maintenance
- Protection: bearing shields and slingers protect bearings from process fluids
- No field realignment of bearings or packing needed due to pre-alignment on integral mounting base (Fig. 1)
- Contain tank contents and conduct routine maintenance without disassembling the agitator when the optional shut off feature is used (Fig. 3)
- Features the advanced Maxflo WSE impeller
- Highly corrosion resistant wetted parts
- Up to 300 hp as standard with designs to 400 hp. Output speeds up to 480 rpm available
- Shaft diameters up to 7"
- Minimum B-10 bearing life of 100,000 hours



Maxflo WSE Impeller

USER ADVANTAGES

Materials of Construction - Wetted Parts

- Wetted parts constructed from highly corrosion-resistant 316 Stainless Steel, 317L Stainless Steel, Hastelloy C, or Titanium
- Other alloys available as needed for specific applications

Shafts and Shaft Seals

- Shafts designed to handle up to 10 times the normal operating bending load at full torque
- Packed stuffing box offered with conventional lubrication, water flushed with integral throttle bushing, or without lubrication
- Chrome plated shaft sleeves are available
- Single, split or double mechanical seal designs available



Fig. 1: Pillow Block Assembly



Fig. 2: Bearing Cartridge



Fig. 3: Tank Shut Off

PROVEN PERFORMERS IN SIDE-ENTRY APPLICATIONS



Maxflo WSE Impeller

MD SERIES

The MD Series has been the proven, user-friendly side-entering choice for over 40 years.

- Innovative bearing cartridge design for convenient maintenance (Fig. 2)
- Protection: bearing shields and slingers protect bearings from process fluids
- Contain tank contents, conduct routine maintenance without disassembling the agitator when the optional shut off feature is used (Fig. 3)
- Features the advanced Maxflo WSE impeller
- Highly corrosion resistant wetted parts
- Up to 250 hp as standard. Output speeds up to 480 rpm available
- Shaft diameters up to 7"
- Minimum B-10 bearing life of 100,000 hours

Belt Drives and Guards

- Ultra VX belts and sheaves provide economical power transmission with shock-absorbing capability
- Made to OSHA standards
- Ample ventilation regulates temperature
- Guards on units with 3" or larger shafts contain access holes for adjusting belts

Unit Construction, Parts and Services

- Units are assembled and aligned before shipment, eliminating the need for on-site alignment
- Spare parts are readily available from Prochem
- Authorized service centers are available for quick, economical repair service

Housings and Mounts

- Designed to withstand severe loads many times that of typical application requirement
- Two coats of polyurethane catalyzed paint over two-part epoxy primer protect against corrosion

Options

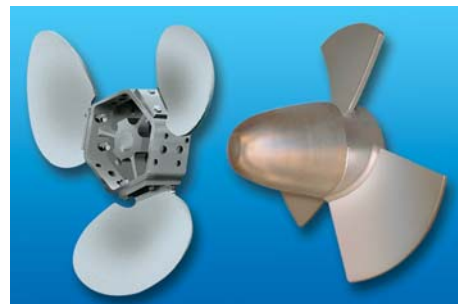
- Standard belt drive service factor is 1.3; optional 1.5 and 2.0 available
- Designs engineered to your special needs can be done
- Inline gear drives are available on larger agitators

- Reduced wear through lower tip speeds
- More cavitation resistant than other designs through effective hydrodynamic design
- Ease of maintenance via bolted blade construction
- A hydrofoil design with high efficiency for maximum pumping action
- Six bladed design available for shock-load applications

The Maxflo Mark II and Mark III are available upon request.

PROCHEM IMPELLER TECHNOLOGY

The Maxflo WSE impeller is the result of over four decades of research and experience and offers:



Mark II (left) and Mark III (right)

VM TURBINE AGITATORS

VM SERIES

Prochem VM Turbine agitators offer versatility and performance for optimum results regardless of the fluid being processed. The VM Series agitators are ideal for applications requiring high output speeds at medium torques.

VM Features

- Same drive, bearing and housing advantages as the MD Series agitators
- Proprietary, high efficiency Maxflo-W impeller
- V-belt design for economical power transmission with shock-absorbing capability
- Up to 30 hp as standard. Output speeds up to 420 rpm available
- B-10 bearing life: minimum 60,000 hours for standard service
- Single, split, or double mechanical seals, stuffing boxes and lip seals available
- Belt drives standard 1.5 service factor



Maxflo-W Impeller



Chemineer, Inc.
P.O. Box 1123
Dayton, Ohio 45401
Telephone: (937) 454-3200
Fax: (937) 454-3379

Chemineer, Ltd.
7 Cranmer Road
West Meadows
Derby DE21 6XT
England
Telephone: 44-1-332-546700
Fax: 44-1-332-290323

Chemineer, Inc.
605 Hangtian North Building
222 Cao Xi Road
Shanghai 200235
China
Telephone: 86-21-6482-8036
Fax: 86-21-6482-8035

Bulletin 720



Chemineer, Inc.
125 Flagship Drive
North Andover, MA 01845
Telephone: (978) 687-0101
Fax (978) 687-8500
www.kenics.com
www.greercomixers.com



Prochem, Inc.
994 Westport Crescent Unit #A3
Mississauga, Ontario L5T 1G1
Canada
Telephone: (905) 670-9486
Fax: (905) 670-9120

Your Local Contact:

For the nearest sales office call 1-800-643-0641 or go to www.chemineer.com