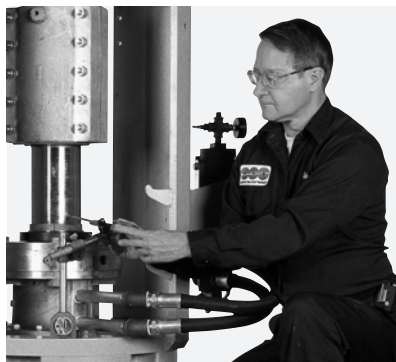




Installation and Start-up Services

Data Sheet DS98-100-2



Introduction

Improper installation and start-up of Pfaudler equipment can result in costly project delays, process inefficiencies and unscheduled down time. Glasteel® Parts and Services (GPS) now offers complete installation and start-up services to assure trouble-free start-up and efficient equipment performance.

GPS and Pfaudler Engineered Systems will provide assistance to ensure long-term reliable operation of your Pfaudler equipment.

Pre-Installation Services

1. Field Service representatives will inventory all components at the job site.
2. Inspection of all Pfaudler equipment upon arrival.
3. Correct any deficiencies.
4. Review all sub-assemblies that require pre-assembly.
5. Review the job site and coordinate with your in-plant staff any potential problems.

Installation Services

1. Field Service representatives will provide supervision or hands-on assistance of equipment installation.
2. Project engineer supervision of Pfaudler Engineered System installation.

3. Review of all installation parameters to ensure equipment is installed in accordance with Pfaudler standard procedures.
4. Final inspection review of Pfaudler equipment and Engineered Systems after installation is complete.

Start-up Assistance

1. Pfaudler project engineers will review a detailed checklist for Pfaudler Engineered Systems.
2. GPS Field Service representatives will review a checklist for Pfaudler equipment.
3. Start-up assistance can include checking for the proper operation of the equipment, vacuum leak test and motor amperage readout among other parameters.
4. Start-up assistance of rental Wiped Film Evaporator, Conical Dryer Blenders and Reactors.

Training of Personnel

Training will include all aspects of equipment start-up and shut-down procedures and maintenance of equipment for long-term reliability.

Basic Services are offered to include:

1. Engineered Systems
2. Wiped Film Evaporators (WFE)
3. Conical Dryer Blenders (CDB)
4. Glasteel® Reactors and Glasteel® Columns.

Field Erection Services

Crane Services

Rigging and Millwright Services

1. Field Service supervision of installation.
2. Inspection of equipment upon arrival at plant site.

3. Inspection of equipment after installation.
4. Contracting of rigging and/or millwright services.



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1000 West Avenue
PO Box 23600
Rochester, NY 14692-3600
Phone: 716 235 1000
Fax: 716 235-6393
www.pfaudler.com



Glasteel® Parts and Services
A Unit of Pfaudler, Inc.

1999 Mt. Read Blvd.
PO Box 20857
Rochester, NY 14602
Tel: 716 235 1010
Fax: 716 235 7923

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