

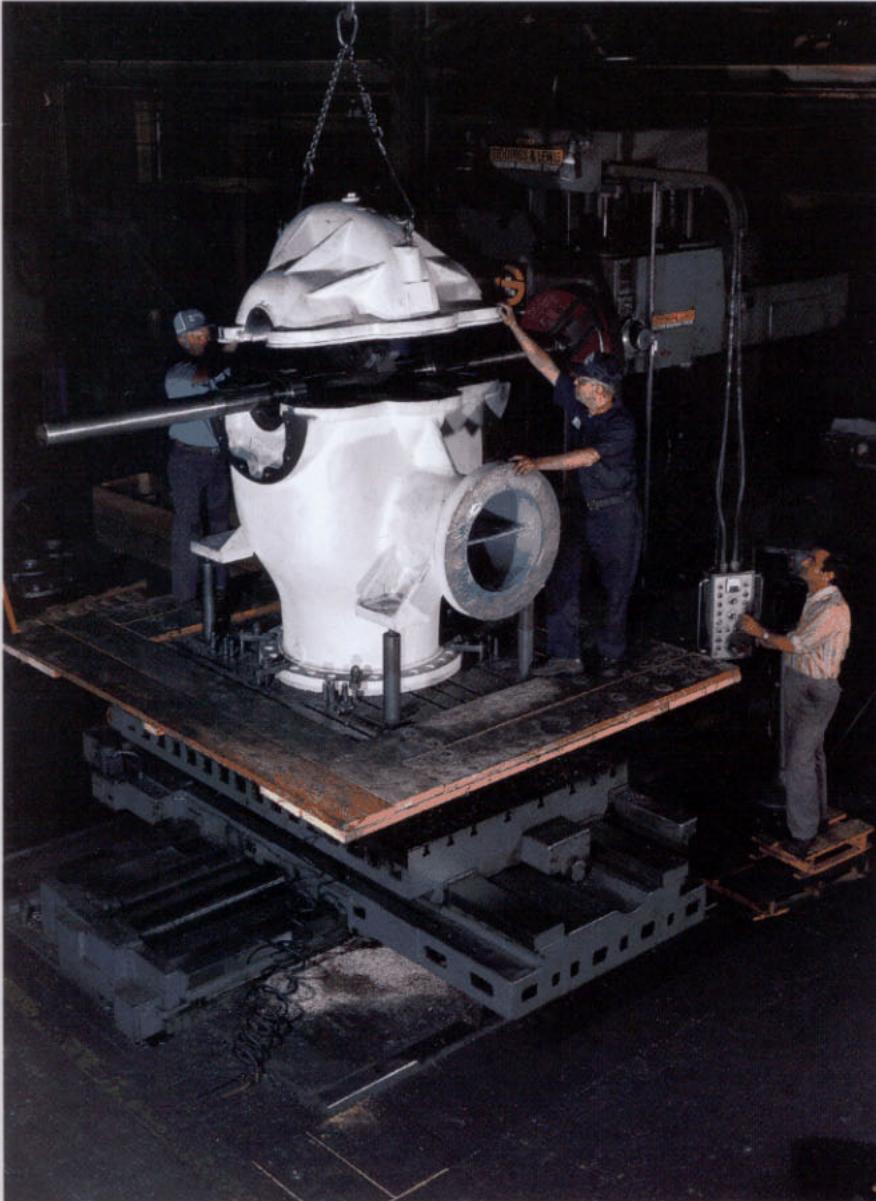
**HORIZONTAL
SPLIT CASE
PUMPS**



 **Fairbanks Morse**

 **Pentair Pump Group**

*HISTORY/
DEVELOPMENT*



Setting the pace for more than a century, Fairbanks Morse Pump Corporation has built a reputation on exceeding industry standards. In engineering, ingenuity and installation, success has been our hallmark.

Our line of horizontal split case single- and two-stage pumps is an integral part of Fairbanks Morse quality products, all designed and manufactured in America.

Split case pumps are available in discharge sizes from 2 to 36 inches with capacities to 80,000 GPM and discharge heads to 700 feet for single-stage units and 950 feet for two-stage units. Models feature rugged, heavy duty construction and high efficiency over the full performance curve with superior dependability. Each pump is crafted in a facility dedicated to the research, development, manufacturing and testing

of superior-quality pumping equipment. Service and parts are available throughout the world from Fairbanks Morse facilities and authorized distributors.

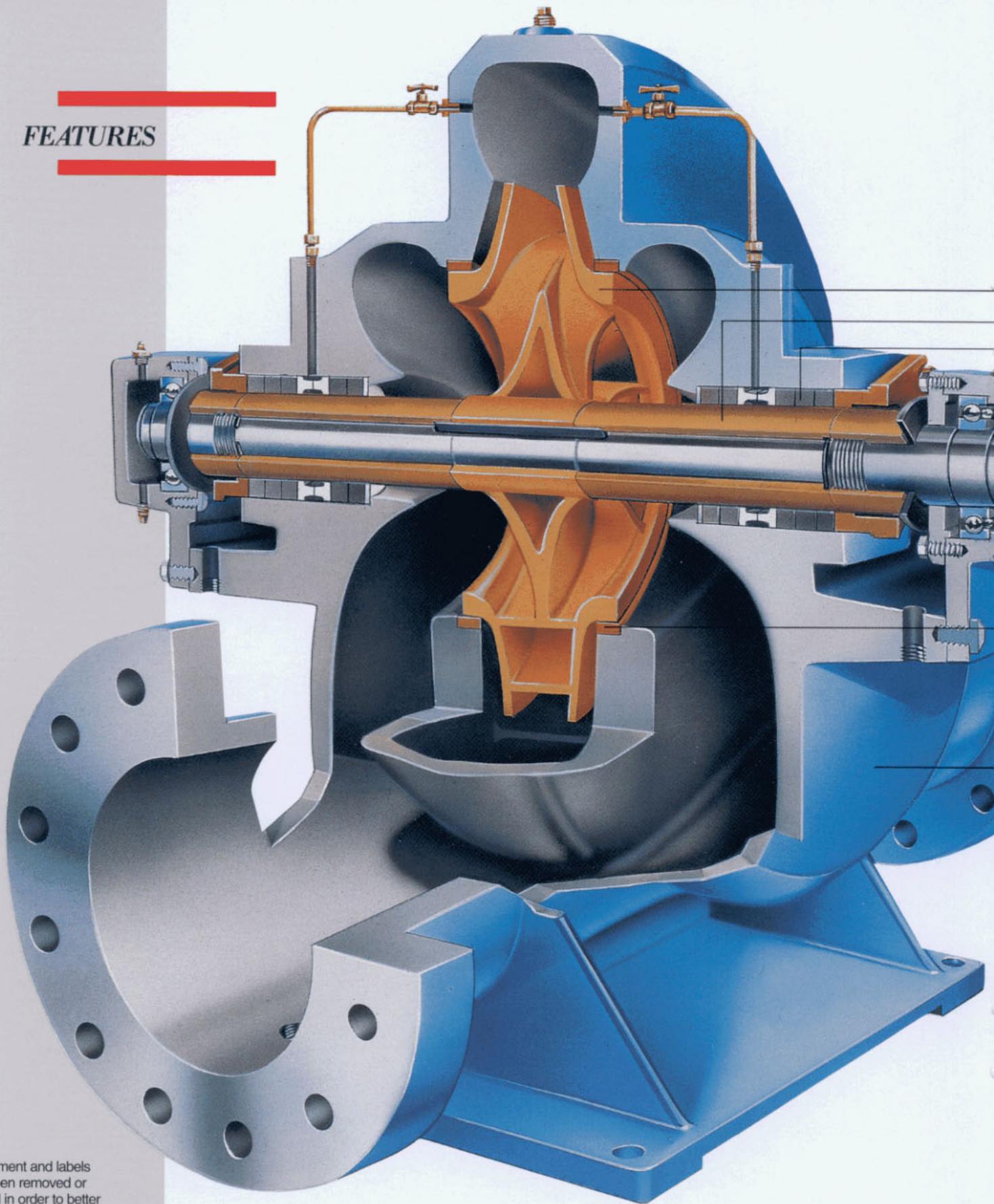
APPLICATIONS

Fairbanks Morse split case pumps are practically maintenance free, and provide years of reliable, trouble-free service. These versatile pumps are available in a wide variety of materials and drivers, including electric motors, combustion engines and steam turbines, to meet your application requirements.

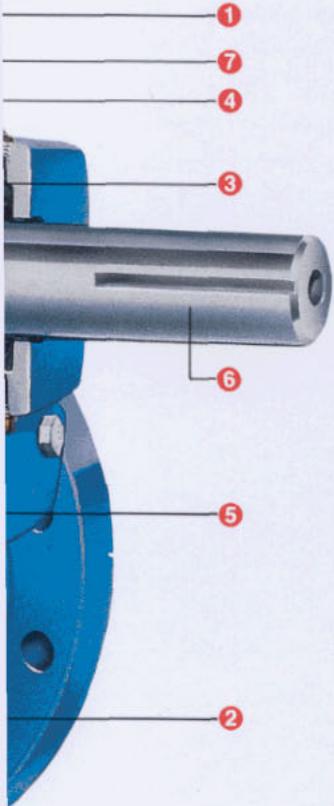
General liquid pumping, power plants, steel mills, chemical plants, paper mills, refineries, cooling and heating systems and water booster service are a few of the applications in which our split-case pumps thrive.



FEATURES



Safety equipment and labels may have been removed or not illustrated in order to better depict the product. All shipped products include appropriate safety labels and guards. The safety labels must be adhered to and the guards must be in place prior to installation and operation.



1 Impellers are double suction, dynamically and hydraulically balanced, one-piece vacuum cast of the Francis vane design to reduce inlet losses, accommodate high suction lifts and virtually eliminate axial thrust loads. Their state-of-the-art contoured passageways are extremely smooth, resulting in high efficiency and quiet operation. Impellers are firmly keyed and locked to an accurately finished, oversized shaft to absorb all shock loads.

2 The rugged, heavy duty, two-piece casing is matched and split horizontally along the centerline of the shaft. This allows for the removal of the rotating assembly without disturbing suction and discharge piping or the driver mounting. The lower half casing includes integrally cast mounting structures and a large volute-type suction area to assure laminar entrance velocities.

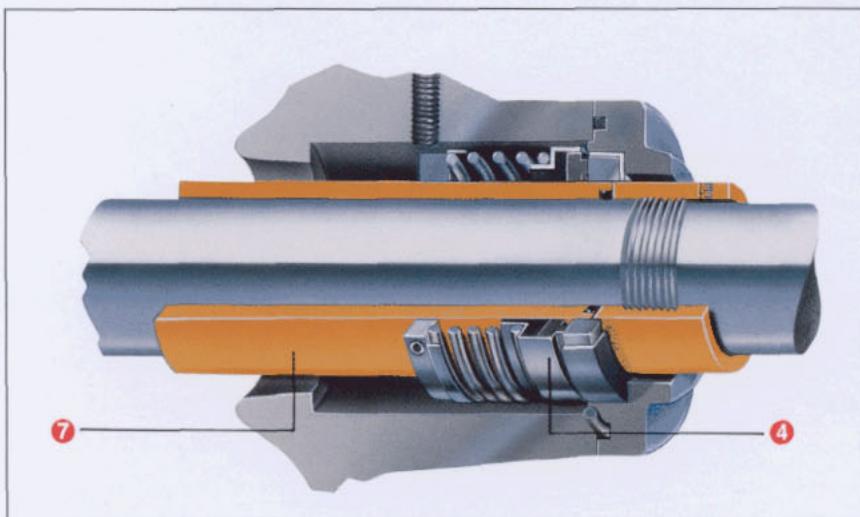
3 Grease- or oil-lubricated cartridge-type bearings mounted in a rigid, dust-proof housing support the rotating assembly, assuring smooth operation and extremely long bearing life.

4 Large, deep packing boxes are carefully machined into the casing and are standard with five rings of packing, seal water ring and split interlocking gland. External piping with needle valves directs water from the casing or an independent source to each seal water ring. Most mechanical seals are interchangeable with packing in the packing box.

5 Renewable casing wear rings are locked in place to prevent rotation. Designed to minimize recirculation, wear rings increase and maintain high efficiency over long periods. Optional impeller wear rings are available.

6 High-quality heat-treated steel shafts are accurately machined along their entire length with additional grinding to an even finer tolerance at the bearing locations. The shaft is reversible, providing for a change to opposite rotation in the field, if required.

7 Easily replaceable centrifugally cast sleeves protect the shaft from packing wear, and are sealed to prevent leakage. Sleeves are accurately positioned and locked in place.



Bent form or structural steel bases, designed to be filled with grout to lock the unit in place and provide mass to resist torsional movement, support the combined weight of the pump and driver.

FEATURES

1 Impellers are dynamically and hydraulically balanced, one-piece vacuum cast of the Francis vane design. This reduces inlet losses and accommodates high suction lifts, which reduces axial thrust loads. Single suction impellers are mounted back-to-back for hydraulic balance, and their state-of-the-art contoured passageways are extremely smooth, which results in high efficiency and

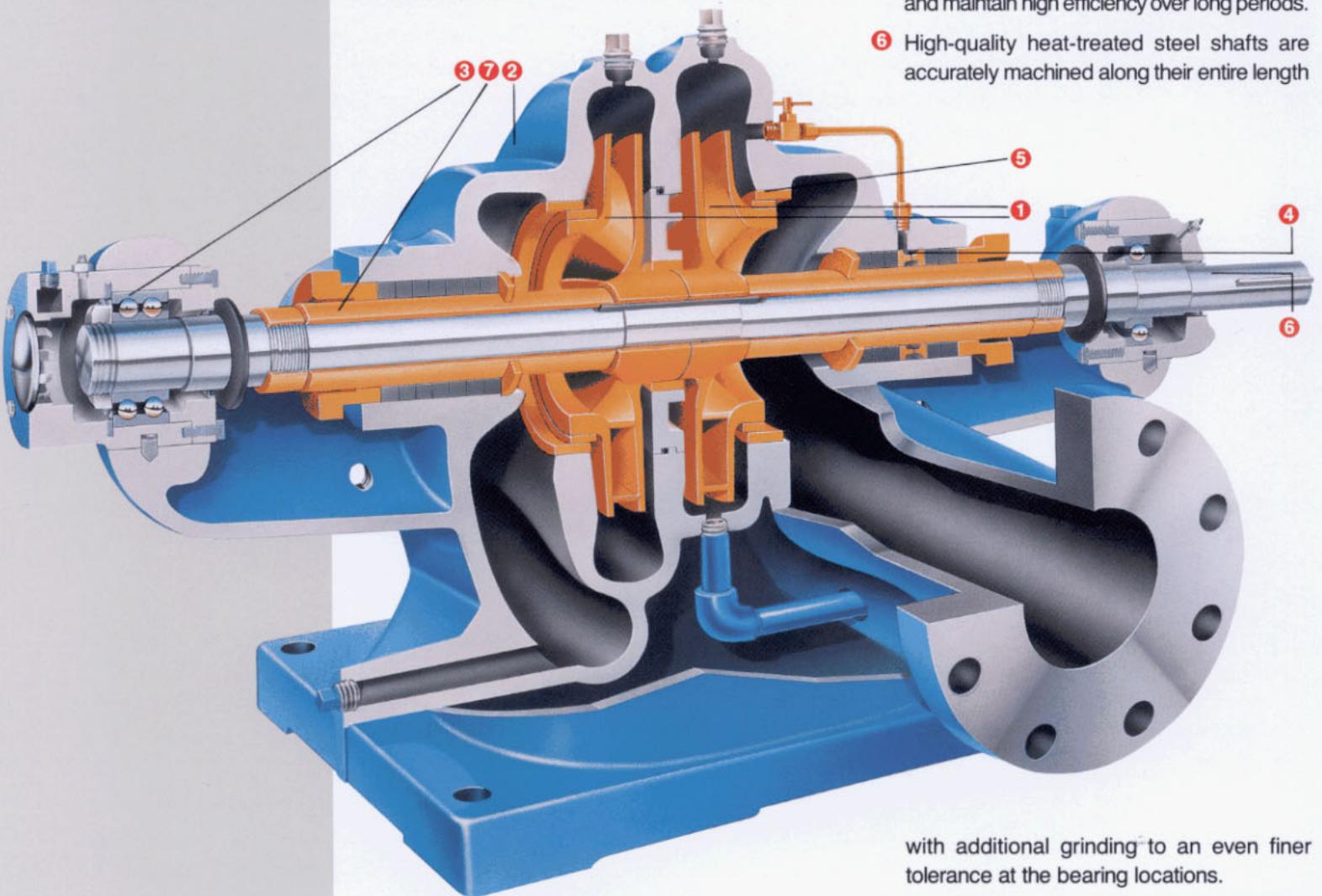
mounting. The lower half casing includes integrally cast mounting structures and a large volute-type suction area to assure laminar entrance velocities.

3 Grease-lubricated cartridge-type bearings mounted in a rigid dust proof housing support the rotating assembly, assuring smooth operation and extremely long bearing life.

4 Large, deep packing boxes are carefully machined into the casing and come standard with packing and split interlocking gland. Most mechanical seals are interchangeable with packing in the packing box.

5 Renewable casing and impeller wear rings are locked in place to prevent rotation. These rings are designed to minimize recirculation and maintain high efficiency over long periods.

6 High-quality heat-treated steel shafts are accurately machined along their entire length



quiet operation. Impellers are firmly keyed and locked to an accurately finished oversized shaft to absorb all shock loads.

2 The rugged, heavy duty two-piece casing is matched and split horizontally along the centerline of the shaft. This allows for removal of the rotating assembly without disturbing suction and discharge piping or the driver

with additional grinding to an even finer tolerance at the bearing locations.

7 Easily replaceable centrifugally cast sleeves protect the shaft from packing wear, and are sealed to prevent leakage. Sleeves are accurately positioned and locked in place.

Structural steel bases, designed to be filled with grout to lock the unit in place and provide mass to resist torsional movement, support the combined weight of the pump and driver.

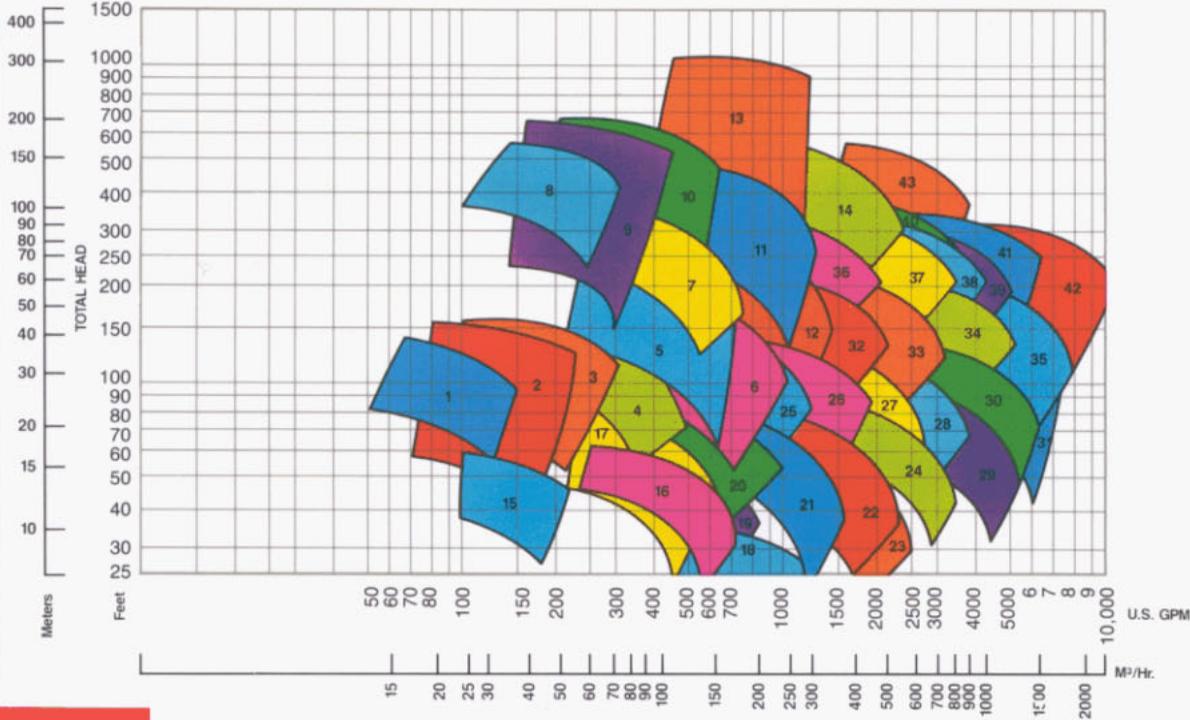
2800/5900 PERFORMANCE

5900 Two-Stage Pumps

1. 2" -5972, 1750 RPM	8. 2" -5972, 3570 RPM
2. 2½" -5972, 1760 RPM	9. 2½" -5972, 3570 RPM
3. 3" -5972, 1760 RPM	10. 3" -5972, 3570 RPM
4. 3" -5922, 1175 RPM	11. 5" -5922, 1785 RPM
5. 5" -5972, 1775 RPM	12. 6" -5922, 1185 RPM
6. 5" -5922, 1185 RPM	13. 5" -5972, 3570 RPM
7. 3" -5922, 1780 RPM	14. 6" -5922, 1785 RPM

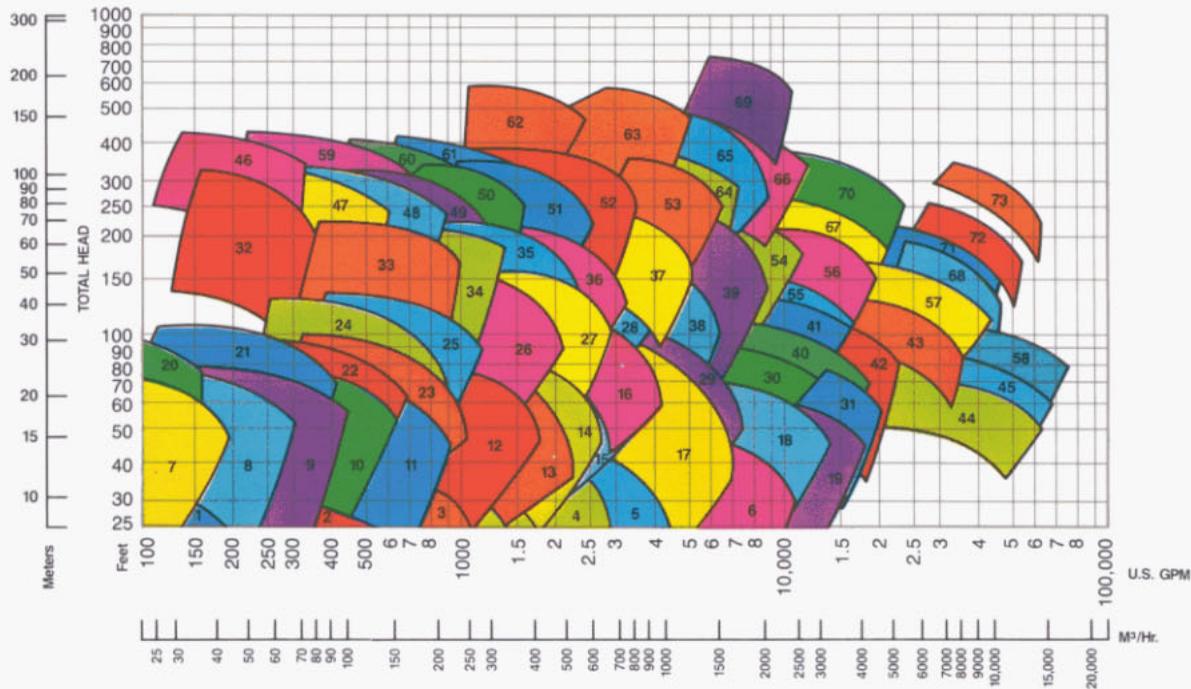
2800 Single-Stage Pumps

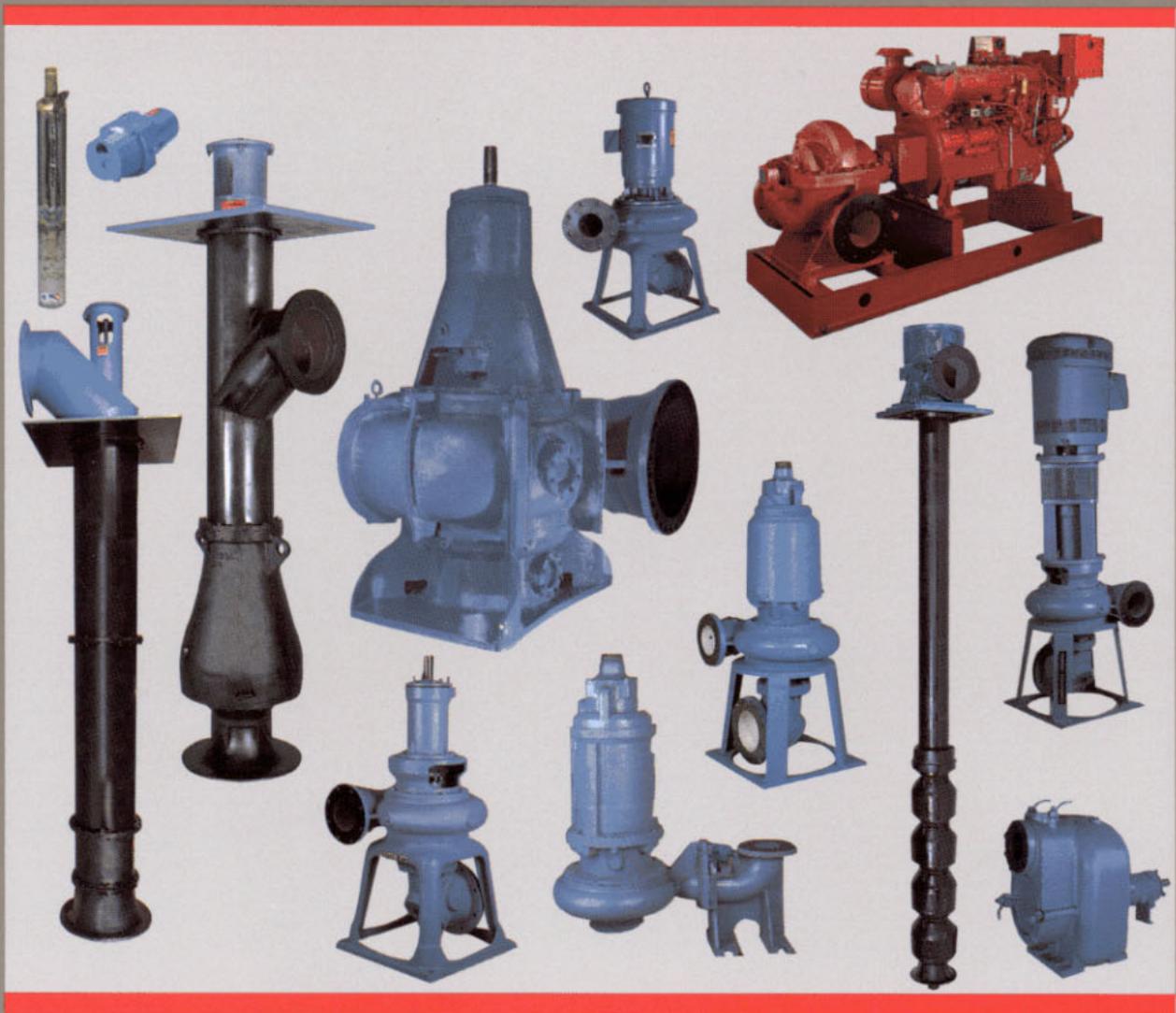
15. 2" -2873A, 1760 RPM	30. 10" -2822A, 1785 RPM
16. 4" -2873A, 1760 RPM	31. 10" -2824A, 1185 RPM
17. 3" -2874A, 1760 RPM	32. 5" -2823A, 1780 RPM
18. 6" -2821A, 1170 RPM	33. 6" -2823C, 1780 RPM
19. 6" -2822X, 1180 RPM	34. 8" -2823A, 1785 RPM
20. 4" -2874C, 1765 RPM	35. 10" -2823A, 1785 RPM
21. 5" -2874C, 1770 RPM	36. 5" -2824A, 1785 RPM
22. 6" -2821A, 1775 RPM	37. 6" -2824A, 1785 RPM
23. 8" -2822A, 1180 RPM	38. 6" -2824A, 1785 RPM
24. 8" -2821A, 1775 RPM	39. 8" -2824A, 1785 RPM
25. 6" -2822X, 1775 RPM	40. 6" -2825A, 1785 RPM
26. 5" -2876A, 1780 RPM	41. 10" -2825C, 1785 RPM
27. 6" -2822A, 1780 RPM	42. 10" -2824A, 1785 RPM
28. 8" -2822A, 1780 RPM	43. 5" -2876A, 3565 RPM
29. 10" -2822A, 1185 RPM	



5800 PERFORMANCE

1. 2" -5876, 3560 RPM	38. 12" -5823, 1185 RPM
2. 2" -5874, 3550 RPM	39. 12" -5823, 1185 RPM
3. 3" -5874, 3550 RPM	40. 20" -5821, 890 RPM
4. 10" -5821, 880 RPM	41. 20" -5822, 705 RPM
5. 12" -5821, 885 RPM	42. 24" -5822, 585 RPM
6. 20" -5821, 585 RPM	43. 30" -5823, 440 RPM
7. 2" -5874, 1750 RPM	44. 36" -5821, 320 RPM
8. 3" -5874, 1750 RPM	45. 36" -5821, 350 RPM
9. 4" -5874, 1760 RPM	46. 2" -5876, 3560 RPM
10. 5" -5874, 1760 RPM	47. 3" -5874, 3550 RPM
11. 5" -5821, 1760 RPM	48. 4" -5874, 3550 RPM
12. 6" -5821, 1770 RPM	49. 4" -5824, 1780 RPM
13. 8" -5821, 1770 RPM	50. 5" -5824, 1785 RPM
14. 8" -5821, 1770 RPM	51. 6" -5824, 1785 RPM
15. 10" -5821, 1185 RPM	52. 8" -5824, 1785 RPM
16. 10" -5821, 1780 RPM	53. 10" -5824, 1785 RPM
17. 12" -5821, 1185 RPM	54. 16" -5823, 890 RPM
18. 20" -5821, 705 RPM	55. 20" -5823, 705 RPM
19. 24" -5822, 440 RPM	56. 20" -5824, 705 RPM
20. 2" -5876, 1750 RPM	57. 30" -5823, 505 RPM
21. 3" -5876, 1760 RPM	58. 36" -5821, 390 RPM
22. 4" -5821, 1760 RPM	59. 3" -5876, 3570 RPM
23. 5" -5876, 1760 RPM	60. 4" -5876, 3565 RPM
24. 4" -5822, 1765 RPM	61. 5" -5876, 3565 RPM
25. 5" -5822, 1775 RPM	62. 6" -5826, 1785 RPM
26. 6" -5822, 1780 RPM	63. 8" -5826, 1785 RPM
27. 8" -5822, 1780 RPM	64. 10" -5826, 1185 RPM
28. 12" -5822, 1185 RPM	65. 10" -5825, 1185 RPM
29. 14" -5821, 1185 RPM	66. 16" -5823, 1185 RPM
30. 20" -5822, 585 RPM	67. 20" -2823, 890 RPM
31. 24" -5822, 505 RPM	68. 36" -5824, 440 RPM
32. 2" -5874, 3550 RPM	69. 10" -5826, 1785 RPM
33. 4" -5823, 1775 RPM	70. 20" -5824, 890 RPM
34. 5" -5823, 1780 RPM	71. 30" -5823, 585 RPM
35. 6" -5823, 1780 RPM	72. 36" -5824, 505 RPM
36. 8" -5823, 1785 RPM	73. 36" -5824, 585 RPM
37. 10" -5823, 1785 RPM	





In addition to our horizontal split case units, Fairbanks Morse Pump Corporation manufactures a broad range of pumps for both public works and industrial markets, including dry pit and submersible solids handling, vertical lineshaft and submersible turbine, mixed-flow and axial-flow propeller pumps (both electric motor and diesel engine driven), domestic jet and submersible pumps, and a new concept in solids and slurry handling, the innovative VTSH® Vertical Turbine Solids Handling pumps.

Our 400,000 square-foot manufacturing facility, located in the heart of the United States, provides advanced engineering and technology, a major testing facility for product performance evaluation and computerized machining centers for high quality manufacturing techniques. Fairbanks Morse sales and service facilities are located across the United States and throughout the world.

At Fairbanks Morse, our longevity, distinct products, market leadership, and customer service are the direct result of the quality and dedication of our personnel. Our skilled personnel, who average over 23 years of experience, machine, build and test our units. Working as a team, our people are continuously exploring new and better ways to serve our customers. Product quality, dependability and innovation are all part of the Fairbanks Morse commitment to excellence.

 **Fairbanks Morse**

 **Pentair Pump Group**

3601 Fairbanks Avenue
P.O. Box 6999
Kansas City, Kansas 66106-0999
(913) 371-5000
FAX: (913) 371-2272