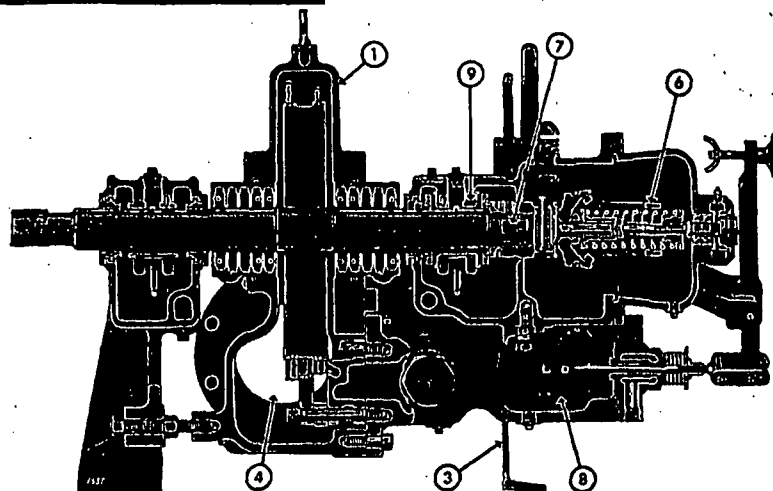


NEW DE LAVAL

HCB

SINGLE STAGE TURBINE

can be ordered from stock



- 1 Case and Cover Split Horizontally on centerline for ease of maintenance.
- 2 True Centerline Casing Support assures distortion-free radial expansion. Not shown.
- 3 Flexible Support at governor end provides for axial expansion.
- 4 Exhaust Opening either right or left side for installation flexibility.
- 5 Steam Strainer, protecting trip and governor valves, is removable for cleaning without

- breaking steam connections. Not shown.
- 6 Constant Speed Governor features governor weights pivoted around frictionless surfaces.
- 7 Complete Governor Assembly is now replaceable as a unit.
- 8 Balanced Single Seated Main Governor Valve has proportional flow characteristics for sensitive, positive control.
- 9 Shaft Locating Bearing of adjustable double collar type.

Horsepower 100 MAX
Steam Pressure: 300 PSIG MAX
Steam Temperature: 550° MAX
Exhaust Pressure: 25 PSIG MAX
Speed: 4,000 RPM MAX
Steam Inlet: 2"-250° ASA FLO.
Exhaust: 6"-150° ASA FLO.
Weight 1,200 LB

Here's the new De Laval HCB Single Stage Turbine which is now "on the shelf" . . . ready for immediate shipment. This mechanical drive turbine is simple, rugged, designed for long economical life and low maintenance. For example, note the true centerline casing support, the replaceable governor, the removal-

ble steam strainer. Investigate all the advantages of this versatile driver. It is ready to handle—*at low cost*—a variety of applications in your plant.

Send for new Bulletin 4206
which gives vital facts and figures



DE LAVAL Mechanical Drive Turbines

DE LAVAL STEAM TURBINE COMPANY

815 Nottingham Way, Trenton 2, New Jersey

POWER • DECEMBER 1953

Power

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THE COAL-UNLOADING DOCK may do double duty in industrial plants like the Marietta, Ohio plant of Electrometallurgical Co. Their 2-ton crane, shown on our cover, handles ore as well as coal. Coal arrives by rail and barge to fire four 650,000-lb-per-hr steam generators, supplying four 40,000-kw steam turbines and considerable process steam.

This plant, world's largest alloys maker, uses a conveyor-belt system to move about 40 carloads of coal a day to the boiler furnaces, and to the outdoor-storage area, which holds a four-month supply.

In your plant, as in this big new one, fuel handling is an important cost factor, but modern methods can keep it in line. For ideas on improving your setup, see our handbook on handling and storage, p. 75.

Next month . . .

■ Potential savings promised by super-pressure steam plants have set many engineering designers to studying the problems involved. In January, Igor J. Karasik, well-known pump designer, tells you in the first of a 2-part article what the pump brain teasers are and how they can be solved.

■ Are you faced with servicing a new research laboratory? G. A. Hanlon reports on the first year's operation of the power services for a new instrument test laboratory. There will be ideas here of value for your new plant.

■ The downwash of gases from plant stacks can be controlled by proper engineering. Prof. R. H. Sherlock tells how to analyze surroundings, load, wind conditions, to get best chimney height; make your plant a good neighbor.

■ Running electrical cables through hot, cramped places has caused sleepless nights for many a power engineer. Read about mineral-insulated cables that can stand the gauntlet, need little room.

. . . and future months

■ Coming up in March is a special report by Steve Elonka on sheet gaskets, their materials, preparation, installation. Learn about available materials and how to choose the one suitable for solving your problems.