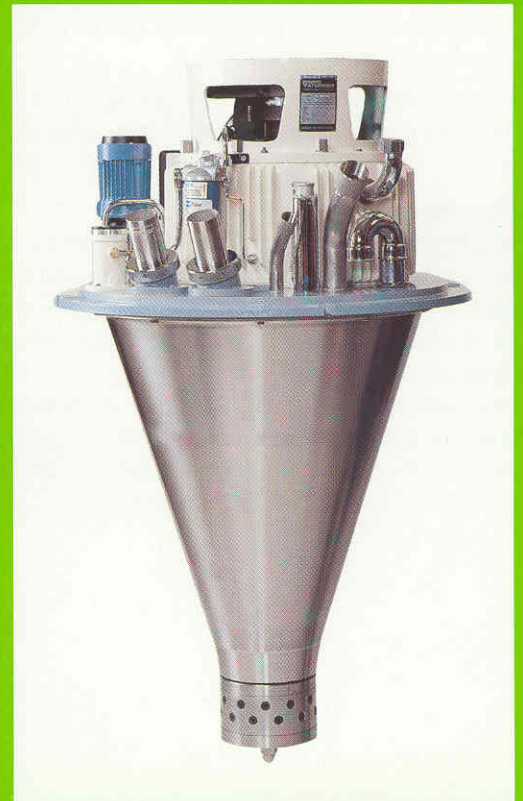


Rotary Atomizer

TYPE F350

for atomization of fluid feeds in spray drying
and spray dryer absorption

- Double helical gear drive
- Heavy duty design
- Patented atomizer wheels



Rotary Atomizer, Type F350

The atomizer drive

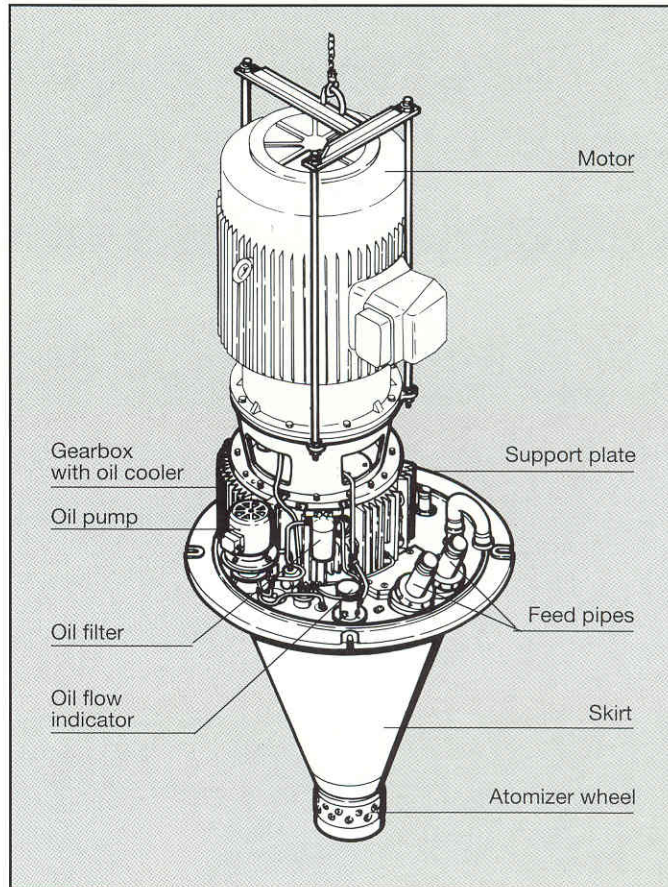
The atomizer drive consists of two parts. The upper part comprises the gear box, motor, and its support. The motor is a 2-pole, vertical flange type, the power being transmitted from the motor to the vertical gear box input shaft via a toothed coupling. The lower part of the atomizer comprises the support for the spindle bearings, feed pipe and cooling air assembly, and conical protective skirt. The spindle runs in special high speed, single row, radial ball bearings. The drive is designed after the flexible spindle concept so that irregularities in feed rate and other minor imbalances in the atomizer wheel can be compensated without spindle and bearing damage. The accompanying monitoring system comprises:

- Low oil flow alarm.
- High oil level alarm.
- Flooding alarm as protection against feed leakage on to the supporting plate.
- Ammeter and running hour meter placed in the spray dryer control panel to indicate operating performance.
- Spindle vibration alarm as protection against excessive vibration conditions (optional extra for heavy duty applications).
- Tachometer to register spindle speed if speed is adjusted by control of a frequency converter (optional extra).

The atomizer wheel

The F350 operates with a bushing wheel. Various sizes are available, and selection depends upon the operating specification. 240 mm diameter wheels have either 12 or 24 bushings while the larger 280 mm diameter wheels have 24 bushings.

All wheels are of patented design, where parts exposed to feed are abrasion-resistant and easily replaceable. Wheel material is stainless steel with bushings and bottom plate of alumina or advanced ceramic material.



Specification

| | |
|--------------------------|-------------------------|
| Wheel speed range | 5,300 - 13,200 rpm |
| Feed rate | max. 80 t/h |
| Feed pipe | 2 1/2" BSP (one or two) |
| Cooling air pipe | 2" BSP |
| Weight | 900 kg |
| Normal power consumption | max. 260 kW |
| Gear box type | double helical |

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