Pilão TriDisc® Refiner.

**Air Bag System**
This safety device insures immediate disc separation in the event of stock failure and correctly centers the rotor.

**Rotating Element**
This is the only system available that permits the removal of the entire rotating set from the front of the refiner.
TRIDISC SYSTEM: THE MOST ADVANCED TECHNOLOGY IN REFINING

This patented system is available exclusively through Pilão and consists of two stationary discs and a double-faced rotating disc. The discs are fabricated by welding cold re-rolled stainless bars to a baseplate. This system permits the maximum flexibility in plate pattern and has proven successful in over 5000 installations.

**Longer life**

Due to the high degree of hardness obtained by the Pilão process of cold re-rolling, sharp bar edges are maintained throughout the life of the plates. This results in both longer life and better refining quality.

**Lower Energy Requirements**

The rotating disc, due to an exclusive process of fabrication and fixation, is 40% lighter in weight than those of comparable refiners. This feature, combined with a larger refining surface results in energy savings of up to 20% as compared to conventional systems.

**Higher Productivity**

A perfect distribution of stock between both refining surfaces, lower torque energy, and less down-time for plate changes considerably increases the productivity of the refiner.

**Electronic Proximity Switch/Indicator Scale**

A modern safety system limits the travel of the sliding head and indicates wear on a scale.

**Disc Adjustment Mechanism**

Adjustment can be through a dual speed gearmotor or manually and allows for perfect
THE PILÃO REFINING

A product of the highest technology, the double-flow Pilão RTD series refiner can refine any type of pulp or recycled fibers. The refining produced allows better efficiency while simultaneously reducing energy consumption.

The efficiency is obtained due to an exclusive system, specially designed to perform perfectly under a variety of refining conditions. This results in a final product of superior quality.

The design of the rotating element of the refiner insures significant savings in energy when compared with any other refiner on the market today. Also, simplified plate changes minimize labor and down-time expenses and help to reduce operating costs. There are more than 2500 Pilão RTD series units installed worldwide. These are manufactured in 17" to 54" sizes with total productions rates up to 3600 TPD.

Body Sleeve
The rotating set slides on replaceable sleeves. This allows perfect sliding without wear to the refiner body itself.
Technical Specifications

Pilão series of double flow refiners - RTD

<table>
<thead>
<tr>
<th>Type</th>
<th>RTD-420 (17&quot;)</th>
<th>RTD-500 (20&quot;)</th>
<th>RTD-610 (24&quot;)</th>
<th>RTD-660 (30&quot;)</th>
<th>RTD-760 (36&quot;)</th>
<th>RTD-860 (34&quot;)</th>
<th>RTD-960 (38&quot;)</th>
<th>RTD-1070 (42&quot;)</th>
<th>RTD-1170 (46&quot;)</th>
<th>RTD-1370 (54&quot;)</th>
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<tbody>
<tr>
<td>Power</td>
<td>75 - 200</td>
<td>150 - 400</td>
<td>200 - 400</td>
<td>250 - 550</td>
<td>250 - 600</td>
<td>350 - 800</td>
<td>350 - 1000</td>
<td>700 - 2000</td>
<td>700 - 2500</td>
<td>1500 - 3000</td>
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<tr>
<td>RPM</td>
<td>900 - 1800</td>
<td>720 - 1200</td>
<td>720 - 900</td>
<td>720 - 900</td>
<td>600 - 720</td>
<td>514 - 720</td>
<td>514 - 600</td>
<td>400 - 600</td>
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<td>360 - 450</td>
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<td>Area</td>
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<td>1.660</td>
<td>2.100</td>
<td>2.420</td>
<td>2.900</td>
<td>3.276</td>
<td>4.950</td>
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<td>Ground</td>
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<td>2.254</td>
<td>2.570</td>
<td>3.253</td>
<td>3.750</td>
<td>4.496</td>
<td>5.080</td>
<td>7.660</td>
<td>8.417</td>
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<td>Weight</td>
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<td>2.600</td>
<td>2.750</td>
<td>5.400</td>
<td>6.400</td>
<td>7.400</td>
<td>9.300</td>
<td>14.500</td>
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<td>Consistency</td>
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<td></td>
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</tbody>
</table>

Housing of adjustment mechanism and sliding head: cast iron.
Main body: formed by welded steel plates.
Parts contacting stock: covered by stainless steel.
Packing box: stainless steel, including cooling system and counterpressure water.
Coupling: with gears sliding axially.
Internal bearings: conical bearings.
External bearings: self-adjusting roller bearings.
Bearing lubrication: oil bath.
Adjustment of discs: manual or remote-controlled by means of gearmotor with 2 speeds.
Operator controls: electric and hydraulic panels supplied self standing and independent from the refiner.