

## KRS-200 Impeller Gap Adjustment

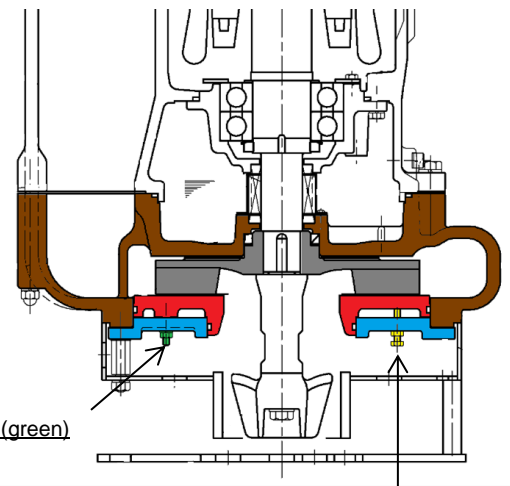


Wear and tear of pump parts like impeller, suction plate and suction cover, is inevitable in harsh operating conditions for slurry pumps. Although the impeller and suction plate are made of high chromium cast iron to protect them against wear, with time, material erosion due to operational wear is unavoidable.

Due to this, the gap between impeller and suction plate widens and may impact the performance of the pump. To prevent this, Tsurumi's KRS-200 has impeller and suction cover gap adjustment feature. By moving the suction plate, the gap with the impeller can be adjusted and optimum pump performance can be maintained

### Gap Adjustment

The figure on the right shows the pump parts of KRS-200. Pump Casing in brown, impeller in grey, suction plate in red, suction cover in blue, 3 bolts with bolt heads and nuts in yellow and 3 bolts without bolt heads and nuts in green. The following instructions are to narrow or broaden the gap between impeller (grey) and suction plate (red).



Bolts without bolt head (green)

Bolts with bolt head (yellow)

To narrow the gap between impeller and suction plate

1. Firstly, loosen all the 6 nuts (green as well as yellow in the figure)
2. Tighten the 3 bolts with bolt heads (yellow in the figure) gradually and one by one.
3. Tighten all the 6 nuts (green as well as yellow in the figure)

Tightening the 3 bolts with bolt heads, in step 2, pushes the suction plate towards the impeller and makes the gap narrower.

To widen the gap between impeller and suction plate

1. Loosen the 3 nuts and 3 bolts with bolt heads (yellow in the figure)
2. Tighten the 3 nuts on the bolts without bolt heads (green in the figure) gradually and one by one
3. Tighten the 3 nuts and 3 bolts with bolt heads (yellow in the figure)

Tightening the 3 nuts on the bolts without bolt heads, in step 2, pulls the suction plate towards the suction cover and away from the impeller, which makes the gap wider.