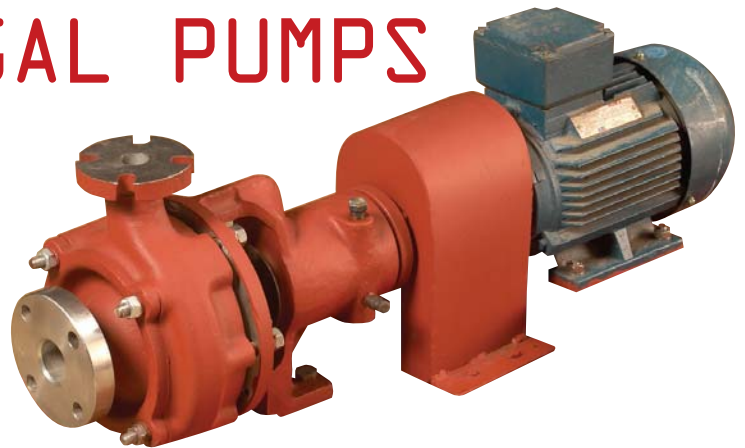


# CENTRIFUGAL PUMPS



Nicro introduced the ND centrifugal pump range ahead of industry demands for a locally designed and manufactured process pump with features that plant engineers identified to enhance performance, ease of maintenance and cost efficiency.

The ND range is a back pull-out pump with a unique reverse vane impeller and only two different sized power ends to cover the full range.

The interchangeability (as per the chart overleaf) allows users to reduce stock levels and the finance tied up in them.

## Advantages - Features

- Supplied in a range of stainless steels and high nickel alloys to suit product being pumped.
- The rotating assembly and power end can be removed for maintenance in the workshop, without removing pipe work and casing.
- The only critical clearance, between the flat surface of the back of the impeller and flat surface of the front of the rear cover, can be set on the workbench before casing installation.
- Pumping against the rear cover plate reduces wear on the casing, increasing its life span.
- The flat face of the rear cover, on which wear is worst, can be machined easily, and up to 3mm of material can be removed before replacement is necessary.
- Machining, rather than replacement, offers a financial saving of up to 25%.
- Attaching the impeller directly to the shaft, which tightens under normal operation, eliminates turbulence.

# CENTRIFUGAL PUMPS

As we use only two sizes of power ends on our whole range of pumps, users need stock no more than two sizes of power end spare components, such as shafts, bearings, deflectors etc.

Use of double-row outboard bearings and single-row inboard bearings, the latter close to the back of the impeller, reduces shaft deflection, prolonging the life of all power end components, especially the mechanical seal and shaft.

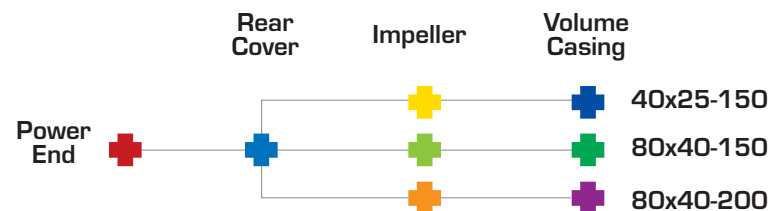
A Trico constant level oiler, vented drain plug, inboard and outboard oil seals and an HPDE deflector all safeguard bearings and combine to prevent ingress of chemical contamination and condensation within the bearing housing.

To summarise, the whole rotating assembly, consisting of impeller, rear cover plate, shaft and power end, can be pulled out of the casing without disturbing the suction or discharge piping and, with the use of spacer coupling, without disturbing the motor.

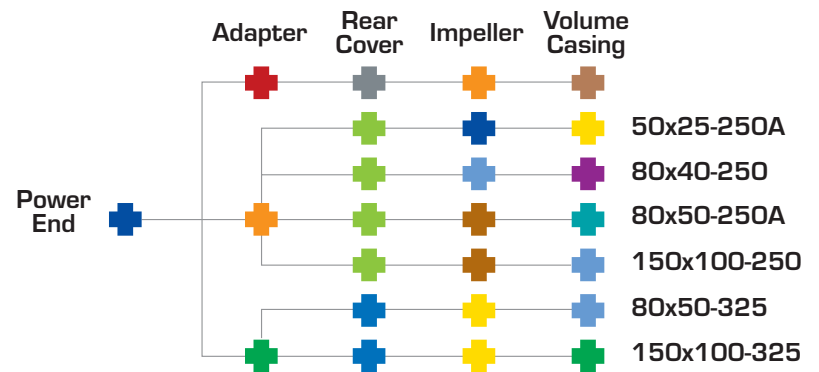
The whole assembly can be taken into the workshop for complete inspection and overhaul and set up again prior to installation.

## Interchangeability of NICRO ND Pumps

### Nicro ND1 standard pumps



### Nicro ND2 standard pumps



*Note: When ordering spares, specify the part number. Item numbers are for illustration reference only.*

*Nicro has a policy of continual research and development, and reserves the right to change data without notice.*