RON-Centric-T options for large rings

The work principle and roundness correction effects are the same.

1. Traditional pivot setup.

   (+) maximum improvement stiffness for OD grinding (4.0xC)
   \( C \) – the net stiffness of the ring
   (+) convenient ring loading from the top
   (-) adapters and bottom shoes to install
   (-) narrow work ranges (+/- 0.01xD)
   \( D \) – the outer diameter of the ring
   (-) lower stiffness in ID grinding (2.1xC)
   (-) can be too heavy for large diameters with thin walls

It is recommended for OD<550mm and for the grinding machines being used with the smaller RON-Centric tools.
1. RON-Centric-T
Pivot
2. Fixed setup.

(+ ) good stiffness for OD grinding (3.2xC)
(+ ) better stiffness for ID grinding (2.4xC)
(+ ) no adapters and bottom shoes, can be directly screwed to the plate
(+ ) no too heavy moving parts
(+ ) the higher stiffness of the shoe screwed to the plate
  (-) ring loading from the front only
  (-) narrow work ranges (+/- 0.01xD)

It is recommended for OD<550mm and for the vertical and horizontal grinding machines.
3. Split fixed setup

(+): good stiffness for OD grinding (3.2xC)
(+): better stiffness for ID grinding (2.4xC)
(+): increased work ranges (+/- \(0.03xD\))

\textit{due to the separate radial setting of the semi-shoes}

(+): no too heavy moving parts
(+): the higher stiffness of the shoe screwed to the plate

It is recommended for 500mm<OD<750mm and for the vertical grinding machines only.
4. Split pivot setup

(+) good stiffness for OD grinding (3.2xC)
(+) better stiffness for ID grinding (2.4xC)
(+ ) increased work ranges (+/- 0.03xD)
(-) adapters to install

It is recommended for 500mm<OD<750mm and for the vertical grinding machines only (specially if the larger RON-Centric-T is being used on the same machine).
4. RON-Centric-T
Split Pivot
5. Split pivot plus setup

(+): good stiffness for OD grinding (3.2xC)
(+): better stiffness for ID grinding (2.4xC)
(+): increased work ranges (+/- 0.03xD)
(+): better roundness for some higher harmonics
(-): adapters to install

It is recommended for 500mm<OD<1200mm and for the vertical grinding machines only.
5. RON-Centric-T Split Pivot Plus