

## FYK250/350/500 GRINDER TECHNICAL SPECIFICATIONS



**a) Features:**

This machine adopts numerical control for profile curve grinding to obtain crowning curves, and symmetric on the middle point, which is ideal profile for rubber roller profile crowning.

● **A few types of profiles can be done as follows.**

1. Sine curve crowning grinding, suitable for grinding soft material rubber roller (Hardness Shore A < 65°)
2. Circle arc crowning grinding, suitable for grinding middle hardness rubber roller (Hardness Shore A about 75°)
3. Parabolic curve crowning grinding, suitable for grinding harder rubber roller (Hardness Shore A about 85°)
4. Hardest curve crowning grinding, suitable for grinding hardest rubber roller (Hardness Shore A > 90°)
5. Concave crowning grinding
6. Tapers (conic) grinding
7. Cylindrical surface grinding

● **The material of roller:**

Rubber, PU, silicon resin, plastic, metal, and fibre roller

● **Lathe applicable:**

On any horizontal lathe, it can be installed without adaptor directly.

**b) Specifications**

| TYPE<br>PARAMETER            | FYK250                                                                  | FYK350                                                                  | FYK500                                                                  |
|------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|
| Grinding type                | <b>Convex crown/<br/>Concave crown/<br/>Taper ends/<br/>Cylindrical</b> | <b>Convex crown/<br/>Concave crown/<br/>Taper ends/<br/>Cylindrical</b> | <b>Convex crown/<br/>Concave crown/<br/>Taper ends/<br/>Cylindrical</b> |
| Max. crown<br>mm             | <b>6</b>                                                                | <b>10</b>                                                               | <b>10</b>                                                               |
| Spindle type                 | <b>Bearings</b>                                                         | <b>Bearings</b>                                                         | <b>Sliding bearings</b>                                                 |
| Spindle<br>diameter mm       | <b>∅ 35</b>                                                             | <b>∅ 50</b>                                                             | <b>∅ 80</b>                                                             |
| Spindle rpm                  | <b>2145</b>                                                             | <b>1528</b>                                                             | <b>1070</b>                                                             |
| Wheel linear<br>velocity m/s | <b>28</b>                                                               | <b>28</b>                                                               | <b>28</b>                                                               |
| Motor power<br>kw            | <b>2.2</b>                                                              | <b>4</b>                                                                | <b>7.5</b>                                                              |
| Wheel size mm                | <b>Φ250×32×Φ75</b>                                                      | <b>Φ350×40×Φ127</b>                                                     | <b>Φ500×63×Φ203</b>                                                     |
| Weight Kg                    | <b>170</b>                                                              | <b>280</b>                                                              | <b>680</b>                                                              |
| Overall Size<br>mm L*W*H     | <b>610×540×540</b>                                                      | <b>700×540×540</b>                                                      | <b>1000×750×900</b>                                                     |