



● Later process and other machines

| Machine classification | Piston ring and (sleeve) manufacturing process classification | | Basic machine elements | | | | | | | | | | | Piston ring | | | | | | | | | | | | | | | |
|------------------------|---|----------------------|------------------------|-----------------|-----------------|----------------------|----------------------|----------------|----------------|-----------------------------|-----------------------------|-----------------|--------------------|--------------------|------------------|--------------|------------------|-------------------|-------|-----|-------|-------|-------|----|-------|-------|-------|-------|-------|
| | | | | | | | | | | | | | | Ultra-small-sized | Small-sized | Medium-sized | Large-sized | Extra-large-sized | | | | | | | | | | | |
| | | | | | | | | | | | | | | Cast Iron | | | | | Steel | | | | | | | | | | |
| Function | Structure | Number of work heads | Ring type | Machining spot | Machining shape | Number of work | Work clamping system | Work head side | Tailstock side | Closing sleeve | Number of 1-cycle machining | Operation mode | NC control axis | Work transfer unit | Deburring device | 0 | 10 | 50 | 100 | 200 | 1000 | 2000 | | | | | | | |
| | Structure | Number of work heads | Ring type | Machining spot | Machining shape | Number of work | Work clamping system | Work head side | Tailstock side | Closing sleeve | Number of 1-cycle machining | Operation mode | NC control axis | Work transfer unit | Deburring device | | | | | | | | | | 11521 | 21400 | | | |
| | Structure | Number of work heads | Ring type | Machining spot | Machining shape | Number of work | Work clamping system | Work head side | Tailstock side | Closing sleeve | Number of 1-cycle machining | Operation mode | NC control axis | Work transfer unit | Deburring device | | | | | | | | | | | | 11620 | 46900 | |
| Structure | Number of work heads | Ring type | Machining spot | Machining shape | Number of work | Work clamping system | Work head side | Tailstock side | Closing sleeve | Number of 1-cycle machining | Operation mode | NC control axis | Work transfer unit | Deburring device | 11710 | 46900 | | | | | | | | | | | | | |
| Function | Structure | Number of work heads | Ring type | Machining spot | Machining shape | Number of work | Work clamping system | Work head side | Tailstock side | Closing sleeve | Number of 1-cycle machining | Operation mode | NC control axis | Work transfer unit | | | Deburring device | LP | 80 | 130 | OSL-2 | 11521 | 21400 | LP | | | | | |
| Function | Structure | Number of work heads | Ring type | Machining spot | Machining shape | Number of work | Work clamping system | Work head side | Tailstock side | Closing sleeve | Number of 1-cycle machining | Operation mode | NC control axis | Work transfer unit | | | Deburring device | | | | | | | | Hand | 40 | 160 | LAM-2 | 11620 |
| Function | Structure | Number of work heads | Ring type | Machining spot | Machining shape | Number of work | Work clamping system | Work head side | Tailstock side | Closing sleeve | Number of 1-cycle machining | Operation mode | NC control axis | Work transfer unit | Deburring device | Hand | 39 | | | | | | | | | | | | |