

TSE Series Advanced Features at an Economical Price

Because of its advanced features and economical price, the TSE series by Ruiya Extrusion is one of the most commonly used machines in China.

Through 20 years of development, the TSE has become an industry standard in China.

The TSE Series:

- Closed loop barrel cooling package
- Modular barrel configuration with individual heaters and control zones
- Vent ports for atmospheric venting
- Splined shafts
- Self wiping segmented screws
- User-friendly analog or PLC control systems
- Integrated torque limiting system
- Proven and reliable gearbox
- Robust frame design
- Vacuum ports and vacuum systems
- Available with screw speeds of max 600 RPM
- Available sizes 20mm – 135mm



TSE-75

The TSE Plus Series:

The TSE Plus allows processors to obtain advanced performance within the TSE series. The TSE Plus offers higher output, higher torque and higher reliability than the TSE base models. The TSE Plus includes all of the features of the TSE and the following additions:

- European high torque gearbox with the industry's highest safety factor, low noise and significantly longer working life.
- European high performance gearbox lubrication system
- European safety clutch for advanced mechanical protection
- Frame with increased rigidity and strength
- Barrels and shafts that are interchangeable with the TSE base models



European Gearbox



European Lubrication System



European Safety Clutch



Product Line Comparison Sheet

	TSE	TSE Plus	APEX RXT	APEX CX	CXE
Gearbox	Ruiya	European	European	European	European
Safety Clutch	Ruiya	European	European	European	European
Shaft	Ruiya 40CrNiMoA	Ruiya 40CrNiMoA	H11 or M300	CPM High Strength Tool Steel	CPM High Strength Tool Steel
Shaft Processing Method	Machinery Processing	Machinery Processing	Cold Forming	Cold Forming	Cold Forming
Screw Materials	Ruiya W6Mo5Cr4V2	Ruiya W6Mo5Cr4V2	CPM 10V-12 PM Ruiya W6Mo5Cr4V2	CPM Proprietary 10V-12 PM	CPM Proprietary 10V-12 PM
Barrel Materials	Ruiya α 101 Liner	Ruiya α 101 Liner	CPM Proprietary RX 101	CPM Proprietary CX77	CPM Proprietary CX77

TSE Series - Advanced features at an economical price. The TSE series represents the standard for entry level machines in China. It is our most economical solution. All components are sourced from top Chinese and global suppliers.

TSE Plus - Higher performance within the TSE Series. The TSE Plus includes all of the features of the TSE base models with the following additional features:

- Higher output and torque
- European gearbox, lubrication system and safety clutch
- Stronger, more rigid frame

APEX Series - The highest level of output and quality at a very competitive price...without sacrifice.

APEX RXT Features:

- Geometry based on Chinese Standards
- A European high torque gearbox, lubrication system and safety clutch
- High performance shafts and screw elements manufactured by Century Extrusion in the USA
- An advanced barrel design to ensure proper cooling capacity and to allow for a much thicker/stronger wear liner.
- High performance HiP barrel liners manufactured in China

APEX CX includes all of the features of the RXT and:

- Geometry based on Western standards
- Higher torque gearbox with higher safety factor
- Maximum screw speeds of 1200 RPM
- Tungsten Carbide lined CX 77 barrels manufactured by Century Extrusion in the USA

CXE Engineered Series - Designed and built by Century Extrusion in the USA. It represents the top level of quality and performance from the CPM Extrusion group. All components are manufactured in the USA and Europe. It employs the center distance and standards commonly used in Europe and America. The CXE series offers:

- The highest level of quality and reliability
- The highest level of customer definition
- The highest level of components
- The highest level of design specialization screw speeds of 1200 RPM