



Brand: Ranger

Model: RL-8500XLT

Description: Combination Brake Lathe – Super Duty

State-of-the-Art Features and Increased Capacity

The RL-8500XLT is the workhorse of the Ranger brake lathe family and tackles the big stuff with ease. From small cars to full size work trucks, resurfacing rotors or drums has never been easier. The superior design is capable of faster, more accurate and micro-smooth surface finishing than any other brake lathe in its class.

The rugged RL8500XLT is designed to meet the needs of modern vehicle and fleet repair shops, now and long into the future. Like our benchmark RL8500 lathe, it comes standard with our proprietary motion control system allowing you to modify cut speeds with the simple turn of a dial. Easily reduce or increase cut-times for best finish results, whether you're speeding through an initial rough cut or a single-pass micro-finish. This complete lathe package includes lathe, a sturdy bench and large tool storage backboards, so you can hang all adapters within close reach.

An abundant menu of options allows you to fully tailor your new Ranger lathe to your specific needs. The RL-8500XLT uses independent DC servo motors to control cross feed and spindle feed drives, eliminating the need for complex mechanical gear boxes and transmissions typically found on mechanically-driven lathes. The absence of gear-driven mechanical drives and variable-speed transmission devices reduces service and repair costs dramatically over the unit's lifetime. Vibration and chatter from gears, bearings and mechanical drive parts are eliminated—the same kind of vibration that is usually transferred to the tool-tip to leave irregular cuts in the machined finish.

Features

- In contrast to mechanically-driven transmission and gear boxes, the RL-8500XLT uses precision electric DC servo motors designed to meet the demanding requirements of industrial motion control
- Quick-Change Adapter-Plus system with built-in springs eliminates the need for conventional bell clamps and cones.
- Works on all cars or trucks, both foreign and domestic, with hubless drums, rotors (center hole sized 2-5/32" – 4") and composite rotors (center hole sized 4" – 6-1/4")
- The RL-8500XLT is equipped with features that help increase your service capability, like precision twin cutter tools and a quick drum-to-rotor changeover
- Infinitely variable spindle and cross feed speed settings allow for quick rough and precision finish cuts
- Simple ergonomic controls are designed for minimal operator movement
- Legendary control makes unit easy to learn and master.
- The RL-8500XLT maintains accuracy year after year thanks to rugged construction like a hardened, precision ground spindle that resists grooving and makes boots a thing of the past



- Massive tapered spindle bearings offer superior weight support during rotation
- Our exclusive “splash-lube” oil-feed system supplies a constant flow of oil to the bearings making sure they provide years of trouble-free service
- Serpentine belts provide a faster, quieter operation, reducing chatter and vibration
- An independent cross-feed motor eliminates the need for plastic or bronze shear gears which are expensive and time consuming to replace
- A convenient top storage tray means your popular adapters and tools are kept within short reach
- Separate motors on the drum and rotor feed help maximize the main motor's efficiency
- Our deluxe standard adapter package includes a Quick-Change hubless adapter system that makes mounting rotors and drums quick and easy
- A variety of adapters let you machine all standard and composite rotors for foreign and domestic cars and light trucks
- A 450-lb. cast iron body and a solid work bench reduces transient vibrations, ensuring a smooth uninterrupted surface finish with each pass
- Easily change arbor speeds in seconds: choose 150 or 200 rpm depending on the job
- Positive rake cutter tip angle provides for a 1-pass finish virtually every time, allowing you to complete your work faster than with inferior multi-pass lathes

RL8500XLT Specifications	
Overall Height - Mounted On Bench:	62" / 1575 mm.
Floor Space Needed - Width:	49" / 1245 mm.
Floor Space Requirements - Depth:	36" / 914 mm.
Spindle To Floor - Mounted On Bench:	39-1/2" / 1003 mm.
Electrical Requirements Standard:	115/230 VAC, 50/60 Hz, Single-Phase, 20 Amps
Spindle Speed - Inner Groove:	150 RPM
Spindle Speed - Outer Groove:	200 RPM
Cross Feed Speed:	infinitely Variable / 0 - .010" Per Revolution (0 - 0.25 Mm/Rev)
Spindle Feed Speed:	infinitely Variable / 0 - .020" Per Revolution (0 - 0.55 Mm/Rev)
Spindle Travel:	9-7/8" / 248 mm.
Maximum Brake Rotor Diameter:	17" / 432 mm.
Maximum Brake Rotor Thickness:	2-1/2" / 63.5 mm.
Brake Drum Diameter:	6" - 28" / 152 mm. - 711 mm.
Maximum Load - With Standard 1" Arbor:	150 Lbs. / 68 Kg.
Maximum Load - With Optional 1-7/8" Truck Arbor:	250 Lbs. / 113 Kg.
Shipping Weight - With Bench & Standard Tools:	720 lbs. / 327 Kg.

Standard Tooling Package

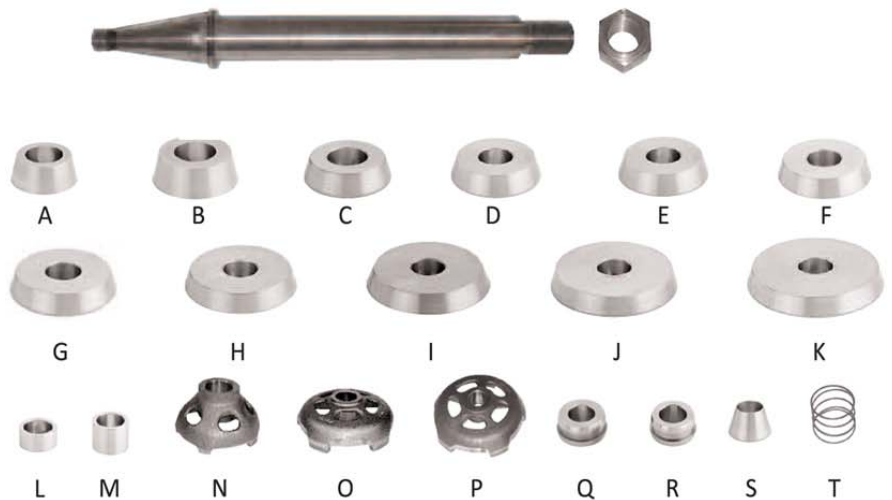
QTY	DESCRIPTION
1	(A) Quick-Change Adapter Plus System
1	(B) Backing Plate 6.75"OD
1	(C) Backing Plate 5.25"OD
1	(D) Sm. Cup w/ Built-in-Spring 5.25"OD
1	(E) Lg. Cup w/ Built-in-Spring 6.75"OD
1	(F) Dbl. Tapered Collet 1.322" x 1.670"
1	(G) Dbl. Tapered Collet 1.362" x 1.710"
1	(H) Dbl. Tapered Collet 1.711" x 2.073"
1	(I) Dbl. Tapered Collet 2.074" x 2.440"
1	(J) Dbl. Tapered Collet 2.441" x 2.897"
1	(K) Centering Cone 1.187" x 2.25"
1	(L) Self-Aligning Spacer 1 5/8" long
1	(M) Spacer 1/2" long
1	(N) Spacer 2" long
1	(O) Bell Clamp 4 1/4"OD
1	(P) Step Adapter 1" x 2"
1	(Q) Spring
1	(R) Drum Silencer
1	(S) Universal Silencer band
1	(T) Large Wrench
1	(U) Large Rubber Silencer
1	(V) Small Rubber Silencer
1	(W) Small Wrench
1	(X) Spanner Wrench
1	(Y) Arbor / Arbor Nut
1	(Z) Twin Cutter Assembly
1	(B1) Boring Bar Assembly
1	(X1) Truck Backing Plate 7.40"/188mm
1	(X2) Small Truck Cone 4.124" x 5.25" / 104.77mm x 133.35 mm
1	(X3) Large Truck Cone 5.125" x 6.25" / 130.18 x 158.75mm
1	(X4) Double Tapered Truck Collet 2.841" x 3.190" / 72.16 x 81.03mm
1	(X5) Double Tapered Truck Collet 3.191" x 3.560" / 81.05 x 90.43mm



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Optional Truck Adapter Package

QTY.	DESCRIPTION
1	Arbor - 1-7/8" Arbor (Truck Rotors and Drums Up To 200 lbs.)
1	Arbor Nut - 1 7/8"
1	(A) Centering Cone 2.750" x 3.334" (69.05 x 84.67 mm)
1	(B) Centering Cone 3.281" x 3.891" (83.34 x 98.83 mm)
1	(C) Centering Cone 3.828" x 4.422" (97.23 x 112.32 mm)
1	(D) Centering Cone 4.359" x 5.000" (110.72 x 127.00 mm)
2	(E) Centering Cone 4.656" x 5.250" (118.26 x 133.35 mm)
2	(F) Centering Cone 4.875" x 5.500" (123.83 x 139.70 mm)
2	(G) Centering Cone 5.437" x 6.031" (138.10 x 153.18 mm)
2	(H) Centering Cone 5.969" x 6.562" (151.61 x 166.67 mm)
2	(I) Centering Cone 6.550" x 7.437" (166.37 x 188.90 mm)
1	(J) Centering Cone 7.000" x 7.7001" (177.80 x 195.58 mm)
1	(K) Centering Cone 7.578" x 8.172" (192.48 x 207.56 mm)
1	(L) Spacer - 1.25" (31.75 mm) Long
1	(M) Spacer - 2" (50.80 mm) Long
2	(N) Bell Clamp 6.250"OD (158.75mm)
2	(O) Bell Clamp 7.250"OD (184.14mm)
2	(P) Bell Clamp 9.250"OD (234.95mm)
2	(Q) Double Tapered Collet 2.828" x 3.185" (71.83 x 80.90mm)
2	(R) Double Tapered Collet 3.203" x 3.560" (81.36 x 90.42mm)
1	(S) Centering Cone 2.156" x 3.375" (54.76 x 85.72mm)
1	(T) Spring



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