



Technology Guarantees Quality, Faith Brings Brand

Brand: SY245
Model: RL-8500
Description: Combination Brake Lathe Package

The rugged built RL8500 provides a faster, more accurate, and easier resurfacing capability than any other brake lathe in its class. An infinitely variable speed controller means you're able to turn rotors and drums faster and get one-cut micro-finish performance every time you use it. The complete lathe package includes lathe, sturdy bench, and large tool storage backboards allowing you to hang all adapters within easy reach.

The revolutionary RL8500 uses independent DC servo motors to control the cross feed and spindle feed drives eliminating the need for complex mechanical gear boxes and transmissions typically found on mechanically-driven lathes. Infinitely adjustable feed rates mean you have the ability to easily modify cut speeds with the simple turn of a dial. This allows you to reduce or increase the cut-time for best finish results whether speeding through an initial rough cut or a one-pass micro-finish.



Features

- In contrast to mechanically-driven transmission and gear boxes, the RL-8500 uses precision electric DC servo motors designed to meet the demanding requirements of industrial motion control
- Quick-Change Adapter-Plus system 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-8500 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-8500 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 standard and composite rotors for foreign and domestic cars and light trucks
- A 474-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

RL8500 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:	6-7/8" / 175 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:	685 lbs. / 310 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



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" (83.31 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

