Form 5071-T, 12/07
Supersedes 5071-T, 07/07

Hunter On-Car Brake Lathes

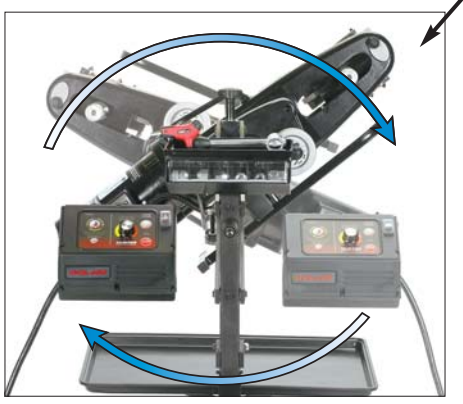
Hub-Mounted Rotor Lathes

HUNTER
Engineering Company

Approved by Chrysler, Ford and General Motors

Exclusive OCL400 Series Features

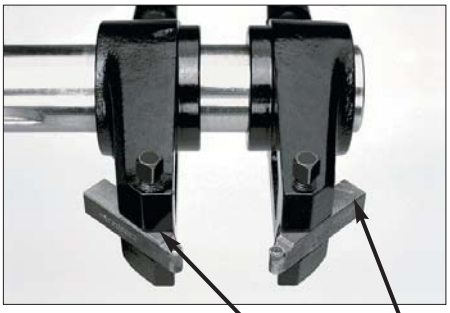
1. Exclusive ServoDrive™ *system provides variable speed and rotational torque during computerized compensation and rotor machining.
2. Pro-Comp® computerized compensation* adjusts for lateral runout with a push of a button and a simple single-point adjustment.
3. ACT (Anti-Chatter Technology)* oscillates spindle speed to eliminate chatter and provide a smooth surface finish.
4. Large 1.5-hp motors easily service 4WD vehicles (OCL410) or medium-duty front and rear truck rotors (OCL430MD).
5. Long-life micro-round cutting inserts withstand “crashes” and heavy cuts, removing up to .040 inches per side in one pass.
6. Large, rigid tool holders service rotors up to 15.75 inches in diameter and 2.75 inches in thickness (OCL400) and 17.5 inches in diameter and 3.5 inches in thickness (OCL430MD).†
7. Offset cutting arm is freely adjustable when lathe is rotated 180° for servicing opposite side of vehicle. No need for unbolting, removing and reinstalling cutter head.
8. Rugged I-beam construction is more rigid than “dovetail” slide designs. Slide location outside the vehicle fender is isolated from brake chips and dirt build-up.
9. Pivoting control module, exclusive twin-cutter design and easily accessible adjustment controls allow adjustment in same manner right side up or upside down.



*Patent Pending † May require use of optional adaptors.

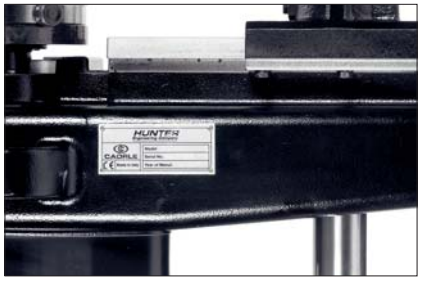
**Based on operator selected spindle speed, vehicle application and workpiece rigidity.

Resurface Rotors in Half the Time It Takes Other Lathes!**



Panel display reads right side up no matter which way the lathe is rotated. Adjustment controls can be accessed easily from outside the fender well.

OCL400 Series Feature Comparison

OCL410	OCL430MD
Large cutting arm and rigid tool holders handle rotors up to 15.75 inches in diameter and 2.75 inches in thickness.	**Heavy-duty cutting arm and tool holders handle rotors up to 17.5 inches in diameter and up to 3.5 inches in thickness.**
	
Rigid I-beam slide tool feed design.	**A more robust I-beam slide and main housing support the precision machining of medium-duty, commercial-grade rotors.**
Large 1.5-hp motor for easy service of 4WD vehicles.	**Heavy-duty 1.5-hp, 230VAC, 50-60 Hz, 9-Amp motor handles medium-duty front and rear truck rotors.**

OCL430MD Rotor Lathe for Medium-Duty Trucks and Commercial Vehicles

The OCL430MD is the ideal solution for shops that service medium-duty trucks and commercial vehicles exclusively or as a significant part of their business. It offers all of the speed and productivity features of the Hunter OCL400 brake lathe, but adds heavy-duty design features, components, rotor size capacity and power.

The OCL430MD trolley provides an extended low-to-high working range required for servicing vehicles when a lift rack is not available or practical. A full selection of adaptors and accessories to match medium-duty, commercial-grade vehicle hub and rotor OE specifications is available from Hunter.

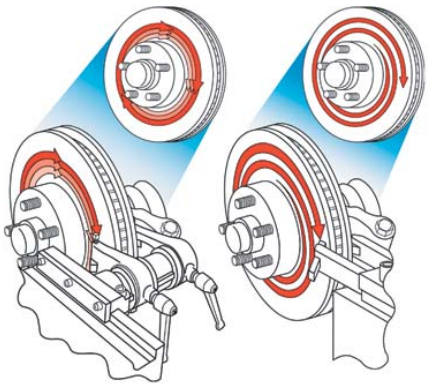
Increase Production, Reduce Comebacks With Innovative OCL400 Series Lathe Technology

ServoDrive™ Variable Drive System Speeds Brake Service!

The patented ServoDrive™ variable drive system enables technicians to service rotors in half the time of other on-car lathes by providing variable speed and rotational torque during compensation and machining. Technicians can resurface rotors at the fastest possible speed and change speeds on the fly. The ServoDrive system allows service of rear locking differentials popular on light trucks and SUVs without the need to remove or disengage drive line components.

Model Shown
OCL410-LT-PRO

Intermittant Cutting Pattern Produces a Finish That Meets or Exceeds OEM Specification



Hunter Intermittent Cutting Pattern	Traditional Continuous Cutting Pattern

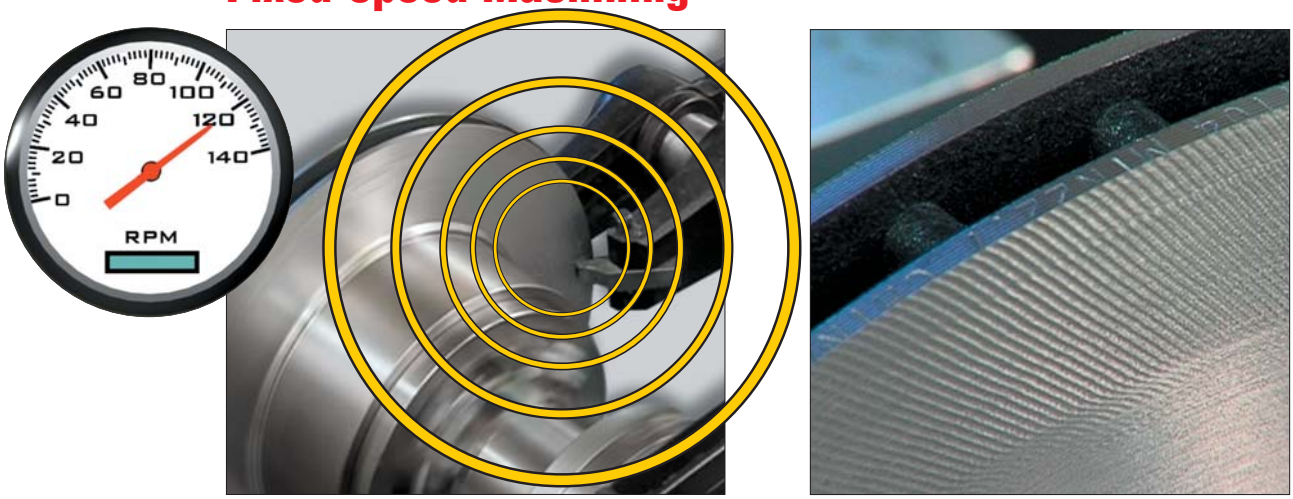
Exclusive Hunter intermittent tool feed produces a non-directional cutting pattern of interrupted arcs, which eliminates radial “push-out” effect that continuous feed units present. Surface finish quality remains consistent regardless of changes to cutting speed during machining.

Anti-Chatter Technology

Exclusive Anti-Chatter Technology Provides Superior Finish

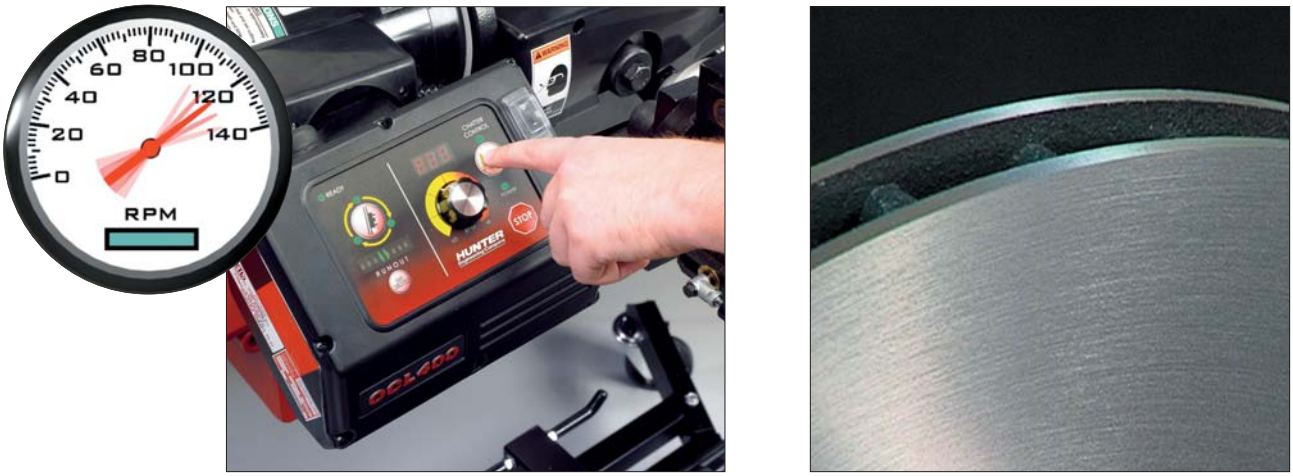
New Anti-Chatter Technology (ACT) feature oscillates the machining speed of the lathe and eliminates the buildup of vibration (chatter) that can occur when machining at a fixed speed. ACT provides a smoother finish that prevents pedal pulsation - the number one cause of brake service customer "comebacks".

Fixed-Speed Machining



Fixed-speed lathes can “tune in” to the natural frequency of a rotor during machining, causing vibration (chatter) and a poor surface finish.

Variable Speed Machining

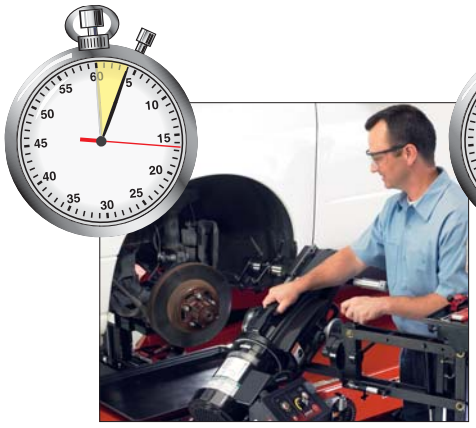


With the push of a button, ACT begins oscillating the spindle speed of the lathe, eliminating chatter and resulting in a smooth surface finish.

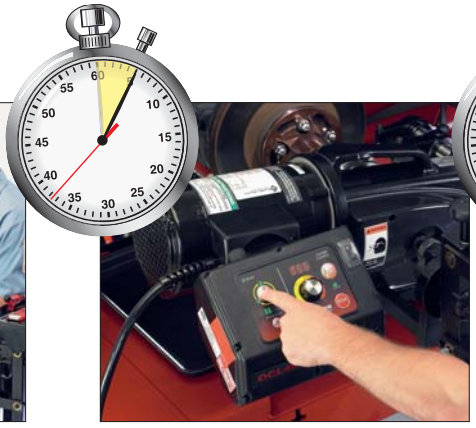
Pro-Comp® Computerized Compensation Speeds OCL400 Series Operations

With a push of a button and a simple single-point adjustment, the OCL410 and OCL430MD quickly compensate for lateral runout. Compensation is greatly simplified, no longer requiring time-consuming dial indicators or special tools. This ensures your brake service technician is machining the rotor within OEM specifications.

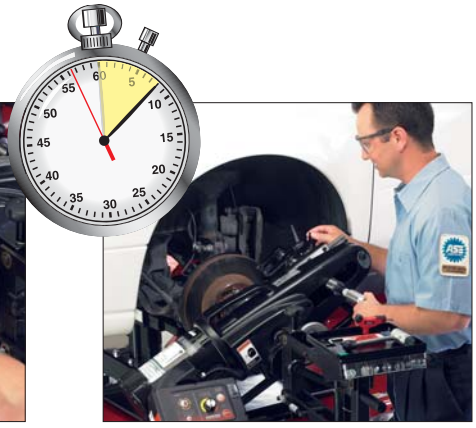
Service Each Rotor *in Less Than 9 Minutes!*



Step 1: **Attach adaptor and lathe…**



Step 2: **Press button for computerized compensation and make a simple single-point adjustment…**



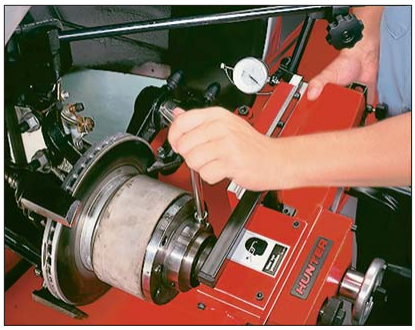
Step 3: **Adjust cut depth and machine rotor with on-the-fly optimum speed.**

Service Complete!

Other Compensation Methods and Models

Manual Single-Point Compensation Model OCL360S

Compensation of the hub, adaptor and lathe is achieved with a single-point adjustment. The compensation process adjusting time is simplified and reduced.



Manual Three-Point Compensation Model OCL360

Manual three-point runout compensation is accomplished at the adaptor. The lathe is then attached and the rotor machined.

The ServoDrive™ System, Pro-Comp® Computerized Compensation and ACT Anti-Chatter Technology are not available on OCL360 and OCL360S models.

Specifications†

	OCL360	OCL410	OCL430MD
Rotor Maximum:			
– Diameter:	15.75" (400 mm)	15.75" (400 mm)	17.5" (445 mm)
– Width:	2.75" (70 mm)	2.75" (70 mm)	3.5" (89 mm)
Feed Distance:	4.3" (110 mm)	4.3" (110 mm)	5.75" (146 mm)
Spindle Speed:	65 rpm	Adjustable and Automatically Variable (ACT), 0-120 rpm	Adjustable and Automatically Variable (ACT), 0-120 rpm
Motor Power:	1 hp (.75 kw) @ 1,730 rpm	1.5 hp (1.12 kw) @ 3,600 rpm	1.5 hp (1.12 kw) @ 3,450 rpm
Power Requirements:	115VAC, 60 Hz, 15 Amp, NEMA L5-15P (230V, 50-60 Hz optional)	115VAC, 60 Hz, 15 Amp, NEMA L5-15P (230V, 50-60 Hz optional)	230VAC single phase 50-60 Hz, 9 Amp, NEMA L6-20P
Overall Dimensions:	27" L x 20" W x 15" H (680 mm x 570 mm x 370 mm)		34.5" L x 35" W x 15" H (876 mm x 457 mm x 229 mm)
Trolley-Lathe Centerline Operation Range:			
	High Position, 32"- 45" (813 mm - 1143 mm)		High Position, 32"- 45" (813 mm - 1143 mm)
	Low Position, 22"- 35" (559 mm - 889 mm)		Low Position, 22"- 32" (559 mm - 813 mm)
Shipping Weight:	250 lbs. (113 kg)	250 lbs. (113 kg)	328 lbs. (149 kg)

† Some specifications may vary depending on options chosen and application fitment.

OCL LATHE COVERAGE	Most Passenger Cars	Most Light Trucks	Most Light Trucks Up to 1 Ton	VEHICLE APPLICATIONS*†
MODELS				
OCL410	X	X		Most Acura, Alfa, Audi, BMW, Chrysler, Fiat, Ford, GM, Honda, Hyundai, Infiniti, Isuzu, Jaguar, Jeep, Lexus, Mercedes, Mitsubishi, Mazda, Nissan, Peugeot, Porsche, Saab, Saturn, Subaru, Suzuki, Toyota, Volkswagen, Yugo
OCL360S	X	X		
OCL360	X	X		
OCL410-LT-PRO	X	X	X	Most Chrysler 4x4's & RWD Pass Car, Chrysler Dana Axle, Chrysler Duallie 4x2's, Dodge Dakota (2/4WD), Dodge 3/4- and 1-Ton 4x4's, Ford, Ford Excursion /F250SD /F350SD /F450-550SD, Ford Expedition, Ford F-Series Trucks ('97 and up), GM, GM 3500 HD, Isuzu, Lexus, Lexus LX470, Lincoln Navigator, Mazda, Nissan 4x4's, Porsche, Subaru, Suzuki, Toyota, Toyota 4x4 Landcruiser
OCL360S-LT-PRO	X	X	X	
OCL360-LT-PRO	X	X	X	

OCL410A	**OCL410A does not include adaptors. Level I, II or III adaptor packages or individual adaptors purchased separately must be added. See Hunter Form 3947T for a complete list of individual adaptors or adaptor kits and packages**
OCL430MD	**OCL430MD services light- to medium-duty trucks using adaptors that are sold separately. Vehicles serviced may vary based on individual adaptors added. See Hunter Form 3947T for a complete list of available adaptors.**

*The LT-PRO Kit increases the wide range of vehicle applications covered in the Standard Adaptor Kit.
Other personalized application packages are available through your authorized local Hunter Representative.

For adaptors and additional accessories, see Form 3947-T and Form 5144-T.
Video presentation, Form 5087-T. Video operation, Form 5302-T.

Because of continuing technological advancements, specifications, models and options are subject to change without notice.

Visit our Web site at www.hunter.com

HUNTER Engineering Company

11250 Hunter Drive, Bridgeton, MO 63044
800-448-6848 • 314-731-3020 • FAX: 314-731-1776

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