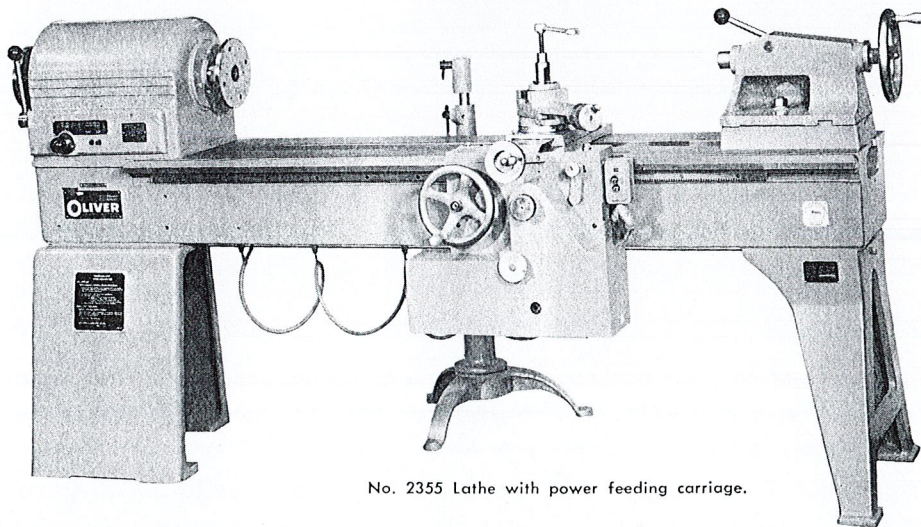
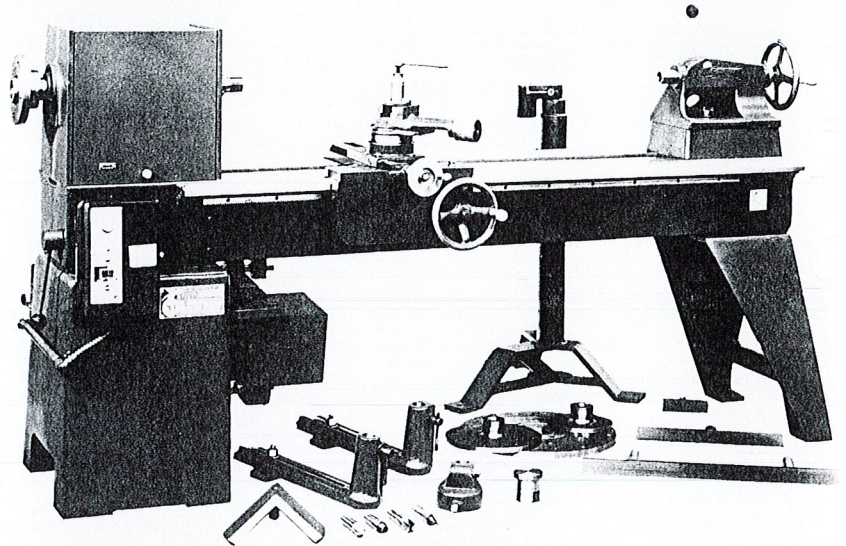




WOODTURNING LATHES

No. 2255 - 56 - 57 - 58

No. 2355 - 56 - 57



No. 2355 Lathe with power feeding carriage.

OLIVER

OLIVER MACHINERY COMPANY, GRAND RAPIDS, MICH. 49504

THE BED

The semi-steel bed is a heavy one-piece casting, accurately machined. It can be furnished in any length required over 6 feet, in two-foot increments. Eight and ten foot beds are standard. Beds longer than twelve feet require an additional leg, which is supplied as an extra. For hand feed or power feed lathes the carriage ways are cast on the side of the bed, assuring perfect alignment with the bed ways.

HEADSTOCK — 2300 Series

The headstock is a cast iron unit, securely bolted to the bed, and is machined internally to receive a four speed rotor and stator, giving direct drive to the spindle.

The spindle is made from high alloy steel, and is threaded at the front end to receive face plates. The rear end has a large flange shrunk on the spindle, which is finished all over, to receive face plates which are securely held by four stud bolts.

Taper roller bearings are mounted on the spindle, and are grease lubricated. A thrust nut, threaded to the spindle, allows proper adjustment of the bearings.

A four speed control is furnished, with overload and low voltage protection for each of the four speeds. The control is wired so it can be started at the lowest speed only. This is an important safety feature.

HEADSTOCK — 2200 Series

The headstock is made of cast iron and is totally enclosed with a guard for safety. The spindle is made of stress-proof steel and carries the spindle cone. The step cone is made of iron and machined and balanced precisely. The steps are used to change the spindle speed by adjusting the position of the belt. The spindle bearings are taper roller bearings of large diameter adjustable for wear and self-lubricating. The spindle itself is threaded to receive chucks and face plates and bored for #4 Morse taper. At the rear end of the headstock the spindle has a flange to take rear face plates.

MOTORS

The 2200 series Lathes are available with 4, 8, or variable spindle speeds, depending on the motor option

ordered. The machines are available with a 1200 rpm motor, 2-speed 600/1200 rpm, or a variable speed motor drive.

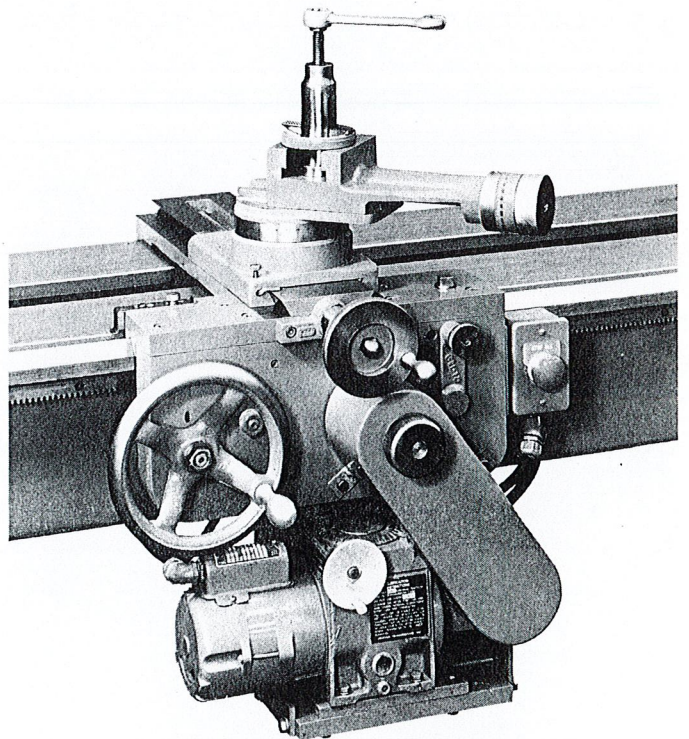
The motors are mounted under the bed on a hinged bracket and are fitted with a step cone pulley to match the one in the headstock, to provide the multiple spindle speeds. The machines are equipped with pushbutton magnetic starter with overload and low-voltage protection.

TAILSTOCK

The tailstock is constructed in the open side design. Cutting tools may be brought close to centers. It has a set-over device to turn taper work, and a clamp lever to lock it in any desired position. The tailstock spindle is extra large and bored for Morse Taper centers. It is held in position by a strong clamp. The tail center can be removed by simply reversing the spindle.

HAND FEEDING CARRIAGE

This carriage is furnished as regular equipment on any size lathe. It is correctly proportioned and built with a compound swivel rest. The apron has a wide support on the front side of the bed. A handwheel engages a steel rack and pinion, and operates freely in either direction. If this hand feeding carriage is not required, it can be omitted.



POWER FEEDING CARRIAGE

As an optional extra, all sizes of lathes can be furnished with a power feeding carriage. A variable speed motor and control are mounted in the carriage unit. This provides infinitely variable speeds from 0 to 50 IPM. There is a simple shift to change the direction of travel and a hand operated clutch to engage or disengage power. A handwheel is provided for fine adjustment if the power features are not required.

HAND REST SOCKET

This unit provides for an effective hand tool rest mounted on the cross slide of the carriage. It consists of a rest socket machined to fit the slide.

CHUCKS

A three or four jaw Universal or Independent chuck can be furnished, as an extra, which can be screwed directly onto the spindle.

SPINDLE SPEEDS

2355	Either	600, 900, 1200, 1800 rpm 600, 1200, 1800, 3600 rpm	2 or 3 HP
2356			
2357			
2255	360, 783, 1444, 2716 rpm	2 HP, 1200 RPM	
2256			
2257	331, 748, 1352, 2520 rpm	5 HP, 1200 RPM	
2258			
2255	{	180, 391, 722, 1358 rpm 360, 783, 1444, 2716 rpm	3/1½ HP, 600/1200 RPM
2256			
2257	{	165, 374, 676, 1270 rpm 331, 748, 1352, 2520 rpm	5/2½ HP, 600/1200 RPM
2258			
2255	83-500 and 500-3000 rpm		3 or 5 HP Variable Speed Drive, DC
2256			
2257			
2258			

STANDARD EQUIPMENT

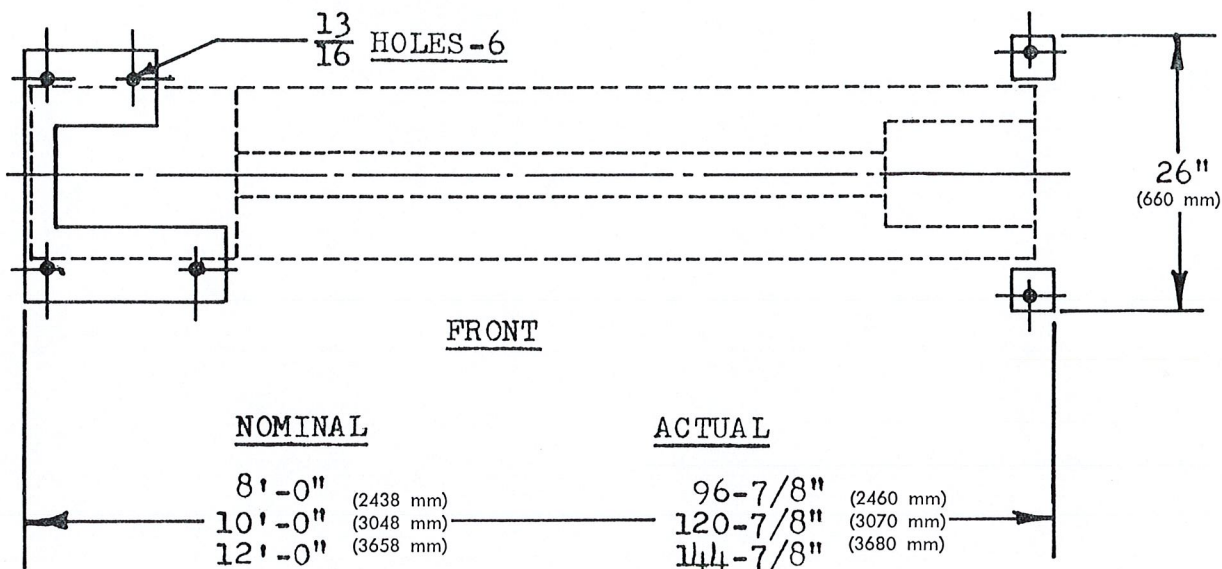
	Size of Machine	
	16" and 20" (406 and 508 mm)	24" and 30" (610 and 762 mm)
Single shank rests, length.....	6 and 18" (152 and 457 mm)	6 and 18" (152 and 457 mm)
Double shank rests, length	30" (762 mm)	48" (1219 mm)
Rest holders, quantity	2	2
Spur Centers, sizes	¾ and 1¼" (19 and 32 mm)	1¼ and 2" (32 and 51 mm)
Cup Centers, size	¾" (19 mm)	¾" (19 mm)
Conical Centers, quantity	1	1
Front face plates, dia.	8 and 12" (203 and 305 mm)	8 and 12" (203 and 305 mm)
Rear face plates, dia.	20" (508 mm)	24" (610 mm)
Screw (Rosette) chuck, dia.	3½" (89 mm)	3½" (89 mm)
Right Angle Rest, size	6" (406 mm)	6" (406 mm)
Floor stand with off-set rest holder	1	1
Hand Tool Rest Holder for use on carriage	1	1

Floor Plan

ALL DIMENSIONS ARE APPROXIMATE

SOLID LINES - FLOOR CONTACT AREA

DOTTED LINES - PROJECTED AREA



GENERAL SPECIFICATIONS

MODEL NUMBER	2255	2256	2257	2258
	2355	2356	2357	
Size of Machine	16"	20"	24"	30"
	(406 mm)	(508 mm)	(610 mm)	(762 mm)

HEADSTOCK

Dia. of spindle nose	1 7/8"	1 7/8"	1 7/8"	1 7/8"
		(47.6 mm)		
Size of Morse taper by number	4	4	4	4

TAILSTOCK

Dia. of spindle	1 7/8"	1 7/8"	1 7/8"	1 7/8"
		(47.6 mm)		
Traverse of spindle	6"	6"	6"	6"
		(152 mm)		
Size of Morse taper by number	4	4	4	4

BED

Standard length in feet...	8	8	10	10
	(2438 mm)		(3048 mm)	
Width	18 1/2"	18 1/2"	19 1/2"	19 1/2"
	(470 mm)		(495 mm)	
Depth	9 1/2"	9 1/2"	11"	11"
	(241 mm)		(279 mm)	
Height from floor	34 1/2"	34 1/2"	30"	30"
	(876 mm)		(762 mm)	

CAPACITY

DESCRIPTION	2255	2256	2257	2258
	2355	2356	2357	
Lathe With Hand Feed Carriage				
Swing over Bed	16"	20"	24"	30"
	(406 mm)	(508 mm)	(610 mm)	(762 mm)
Swing over Carriage	13"	16 1/2"	19 1/2"	25 1/2"
	(330 mm)	(419 mm)	(495 mm)	(648 mm)
Swing at rear end	84"	84"	84"	84"
		(2134 mm)		
Standard length Bed	8'	8'	10'	10'
	(2438 mm)		(3048 mm)	
Turn between centers	60"	54"	72"	72"
	(1524 mm)	(1372 mm)	(1829 mm)	(1829 mm)

SHIPPING WEIGHTS

2255	2800#
2256	3000#
2257	3700#
2258	4000#
2355	2200#
2356	2600#
2357	3150#

Specifications are subject to change without notice.