

Extension Gap Engine Lathe 14-28-Inch Size

THREE-STEP CONE HEAD DOUBLE BACK GEARED

This Lathe is designed to supply the demand for a machine of maximum strength and durability, combined with minimum weight and price.

The former conditions have been met by the proper distribution of metal, determined by a careful study of the stresses to which a Lathe is subjected under the most trying conditions; the latter by using nothing but the highest grade of material, bringing out hundreds of duplicate parts by means of special machinery, in a well systemized shop, by a corps of skilled mechanics.

Code Word: Kanon

Swings over shear	14 $\frac{1}{2}$ "	Head spindle diameter threaded nose.....	2 3/16"
Swings over carriage	8 $\frac{1}{2}$ "	Head spindle nose threads per inch.....	8 U. S. S.
Swings through gap	28"	Head spindle taper of collet, Morse No.....	$\frac{3}{4}$ " to 12"
Six-foot lathe takes between centers closed.	40"	Head spindle taper of center	Morse No. 3
Six-foot lathe takes between centers extended	60"	Tail spindle diameter	1 $\frac{1}{2}$ "
Six-foot lathe gap opens	20"	Tail spindle travel	5 $\frac{1}{2}$ "
Each additional foot of bed extends centers	18"	Cut threads	4 to 64
Each additional foot of bed extends gap....	6"	Countershaft friction driving pulleys.....	10x3"
Cone pulley diameters	4 $\frac{3}{4}$ " to 8"	Countershaft speed, forward and reverse..	210-235
Width of belt	2 $\frac{1}{4}$ "	Size of tool	$\frac{1}{2}$ x1"
Ratio of single back gear	10 to 1	Center rest takes in	3 $\frac{1}{2}$ "
Ratio of second back gear	4.5 to 1	Angular travel of compound rest	2 $\frac{3}{4}$ "
Ratio of triple back gear	24 to 1	Lead screw threads per inch	8
Hole through spindle	1 $\frac{1}{8}$ "	Weight of six-foot lathe	2100 lbs.
Head spindle front bearing	2 3/16x3 $\frac{1}{2}$ "	Weight per foot of additional bed	135 lbs.
Head spindle rear bearing	1 $\frac{3}{4}$ x2 $\frac{1}{4}$ "		

For description of details of design, see reverse side

MANUFACTURED
 BY

FAY & SCOTT

DEXTER, ME.
 U. S. A.

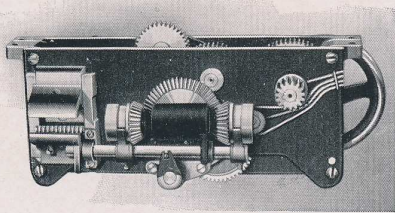
This **EXTENSION GAP TYPE** of Lathe is designed to meet the demand for a tool capable of turning work of large diameter and extra length, as well as doing work accurately and well within their ordinary capacity.

These lathes have ample power and strength to turn full diameter of swing in the gap, at the same time being free from any awkward or objectionable features for use on ordinary work.

By sliding the top bed the gap can be varied to suit the requirements of the work. This extension of the bed is an important feature, inasmuch as it not only increases the swing of the lathe, but also increases the distance between centers for turning long work.

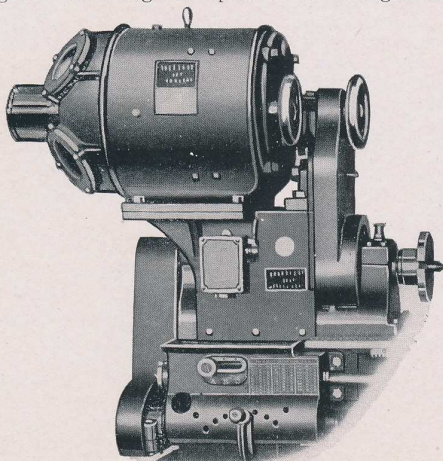
The advantages of this type of lathe over the ordinary gap lathe or the double spindle lathe must be fully appreciated by the careful buyer who investigates the merits of each.

BED is very deep, with liberal number of box tie-wards to insure stiffness and is cut away at the rear end to allow overhang or removal of the Tailstock. The V's have liberal wearing surfaces, with tops slightly rounded. The inside front track is a flat bearing, which forms a solid support for the Bridge of the Carriage.



HEADSTOCK having Three Step Cone and Double Back Gear with triple geared faceplate gives a geometrical progression of spindle speeds, with a nicely proportioned cone, maximum belt speed and contact, and a Drive having triple the power of a Single Back Geared Head. The Spindle is hollow, made of hammered steel, with ground bearings and as large a hole as possible, without impairing its stiffness. Journals are of phosphor bronze, carefully scraped and fitted. Back Gear has Positive Locking Device. All Gears are fully enclosed by substantial Guards.

TAILSTOCK is of the cut-away type, which allows the compound rest to be swung around parallel to the ways of the Bed, and is provided with set-over, for taper work. The Spindle is clamped by a Device consisting of split bushings, operated without danger of throwing the Spindle out of alignment.

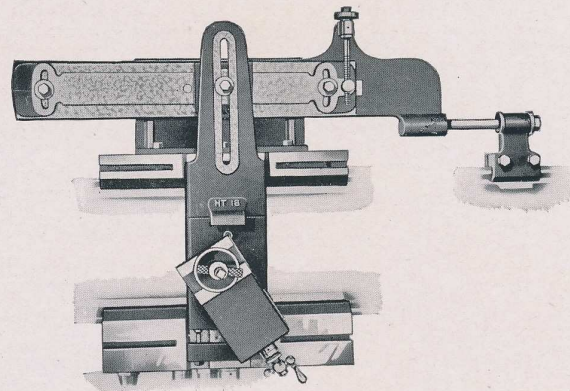


CARRIAGE is strongly reinforced at the waist, with full length solid bearings on the V's and is securely gibbed to the Bed. Waist of Carriage has additional support provided by a bearing on the flat inside front track of the Bed. Compound Rest is graduated in degrees; has long traverse and taper gib adjustable for wear. Both Cross Reed and Compound Rest Screws are provided with adjustable graduated Index Collars.

APRON is the double plate, bevel gear driven type with feed reverse. All Gears are cut from the solid. All Studs are ground and have long bearings at each end, thus insuring long life. A Device is provided for preventing the simultaneous engagement of feeds and thread cutting. Star Feed Knobs, which furnish a good grip for the hands of the Operator, are provided on the Apron Frictions.

FEED WORKS: Lathe has belt-feeds. A full set of Change Gears is furnished. A spline runs the whole length of Lead Screw, for driving the Apron Bevel Gears, but the threads of the Lead Screw are never in use, except in thread cutting.

QUICK CHANGE GEAR is a special feature and can be furnished in place of the regular Feed Works. All threads and feeds can be changed by manipulating two levers, without stopping the Lathe. These changes can be multiplied indefinitely, by substituting any special gears at the end of the Lathe.



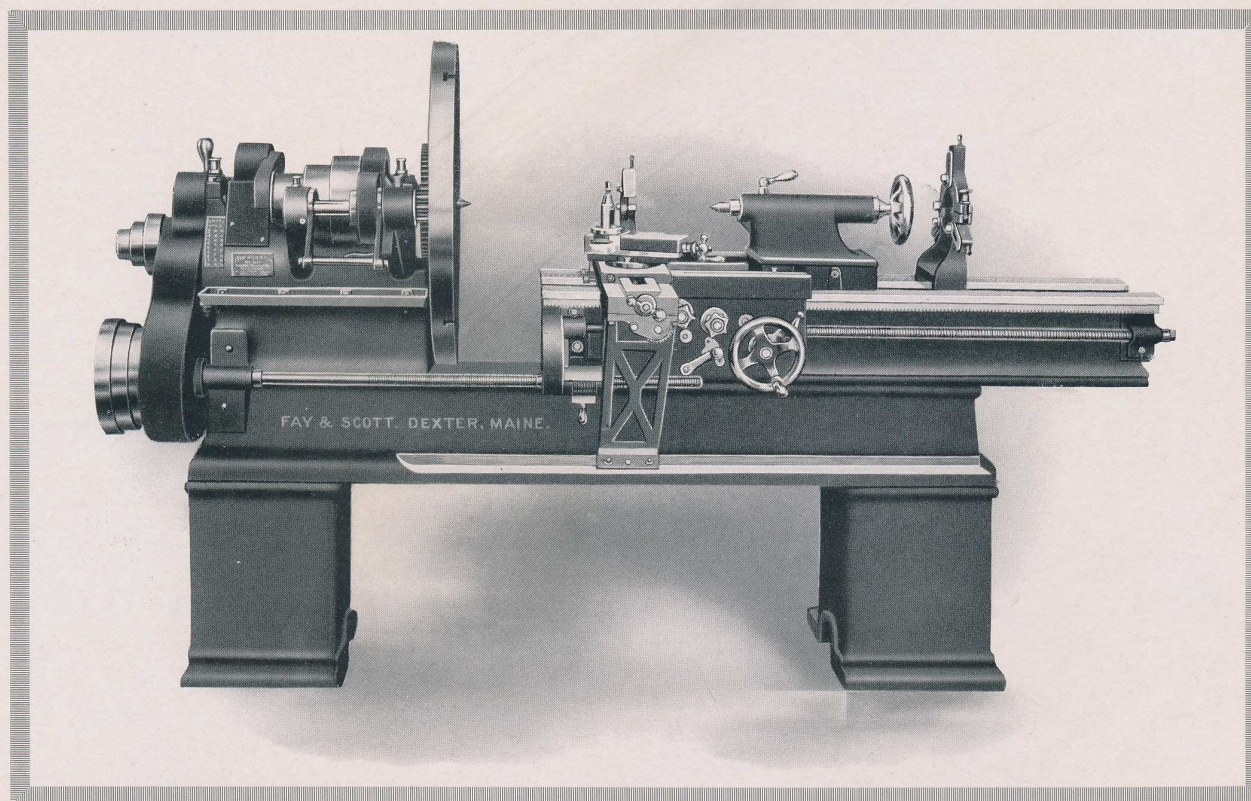
TAPER ATTACHMENT can be readily applied to Lathes after leaving our Works, as the Carriages are drilled to Jig, ready to receive same, with a small amount of fitting. The Attachment is supported by a bracket which is bolted to, and travels with, the Carriage, consequently available for instant use at whatever part of the bed the Carriage may be.

EQUIPMENT consists of Compound Rest, Center Rest, Large and Small Faceplates, Double Friction Countershaft, Wrenches and complete set of Change Gears.

EXTRAS can be furnished as follows: Taper Attachment, Quick Change Gear, Elevating Carriage, Oil Pan, Draw-in Chuck, Friction Head, Turrets fitted to Carriage, or V's.

MOTOR DRIVE can be furnished to suit varying conditions. Our regular method of application is to mount the Motor on a bracket over the Headstock, gearing direct to the lathe spindle, using an adjustable speed Motor.

NOTE: See separate Circular for further details of Motor Drive.



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Swings over carriage	8 $\frac{1}{4}$ "	Head spindle nose threads per inch	8 U. S. S.
Swings through gap	28"	Head spindle taper of collet, Morse No.	3" to 12"
Six-foot lathe takes between centers closed ..	40"	Head spindle taper of center	Morse No. 3
Six-foot lathe takes between centers extended ..	60"	Tail spindle diameter	1 $\frac{1}{2}$ "
Six-foot lathe gap opens	20"	Tail spindle travel	5 $\frac{1}{2}$ "
Each additional foot of bed extends centers ..	18"	Cut threads	4 to 64
Each additional foot of bed extends gap	6"	Countershaft friction driving pulleys	10x3"
Cone pulley diameters	4 $\frac{3}{4}$ " to 8"	Countershaft speed, forward and reverse ..	210-235
Width of belt	2 $\frac{1}{4}$ "	Size of tool	1 $\frac{1}{2}$ x1"
Ratio of single back gear	10 to 1	Center rest takes in	3 $\frac{1}{2}$ "
Ratio of second back gear	4.5 to 1	Angular travel of compound rest	2 $\frac{1}{4}$ "
Ratio of triple back gear	24 to 1	Lead screw threads per inch	8
Hole through spindle	1 $\frac{1}{8}$ "	Weight of six-foot lathe	2100 lbs.
Head spindle front bearing	2 3/16x3 $\frac{1}{4}$ "	Weight per foot of additional bed	135 lbs.
Head spindle rear bearing	1 $\frac{3}{4}$ x2 $\frac{1}{4}$ "		

For description of details of design, see reverse side

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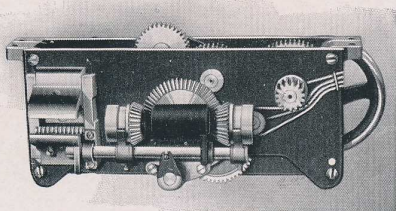
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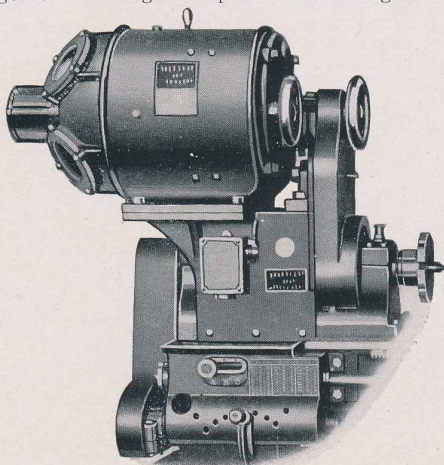
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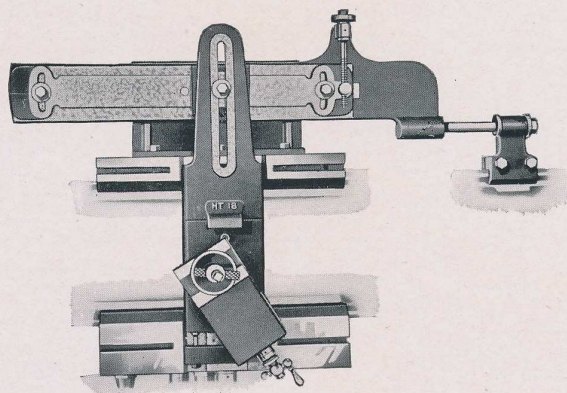


CARRIAGE is strongly reinforced at the waist, with full length solid bearings on the V's and is securely gibbed to the Bed. Waist of Carriage has additional support provided by a bearing on the flat inside front track of the Bed. Compound Rest is graduated in degrees; has long traverse and taper gib adjustable for wear. Both Cross Reed and Compound Rest Screws are provided with adjustable graduated Index Collars.

APRON is the double plate, bevel gear driven type with feed reverse. All Gears are cut from the solid. All Studs are ground and have long bearings at each end, thus insuring long life. A Device is provided for preventing the simultaneous engagement of feeds and thread cutting. Star Feed Knobs, which furnish a good grip for the hands of the Operator, are provided on the Apron Frictions.

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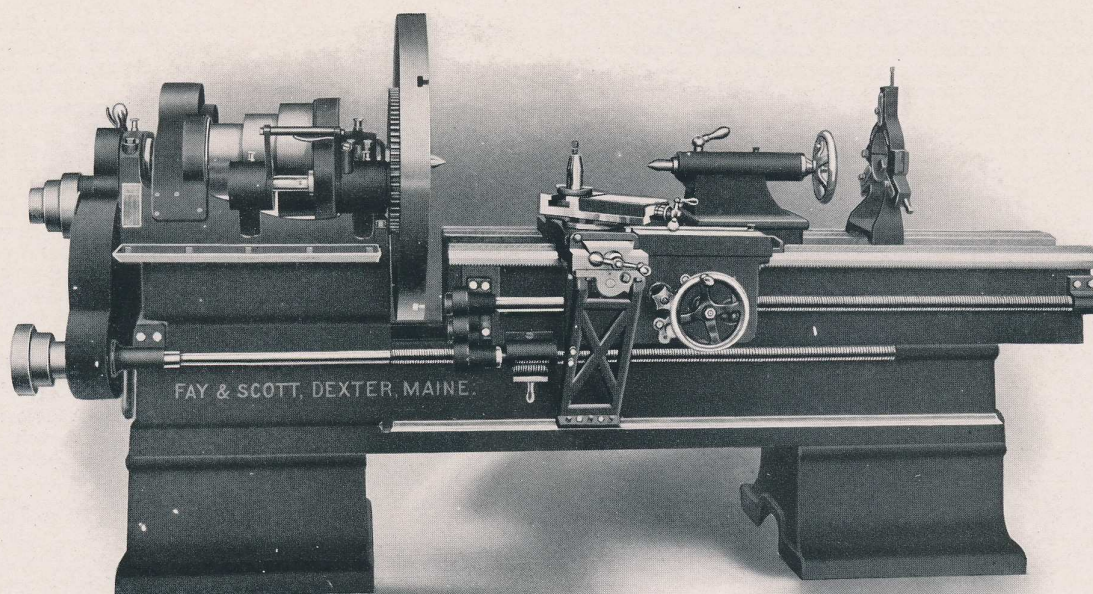
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NOTE: See separate Circular for further details of Motor Drive.



Extension Gap Engine Lathes

16-32, 18-36, and 20-42 Inch

Code Word Size of Lathe	"Kombi" 16-32"	"Kutlo" 18-36"	"Kisme" 20-42"
Swings over shear	17"	19"	20½"
Swings over carriage	11"	13"	14"
Swings through gap	36½"	39"	43"
Six-foot lathe takes between centers closed	26"	26"	18"
Six-foot lathe takes between centers extended	50"	50"	36"
Six-foot lathe gap opens	24"	24"	18"
Each additional foot of bed extends centers	18"	18"	18"
Each additional foot of bed extends gap	6"	6"	6"
Cone pulley diameter	7½ to 11½"	7½ to 11½"	8 to 12"
Width of belt	3"	3"	4"
Ratio of single back gear	12 to 1	12 to 1	12 to 1
Ratio of second back gear	3 to 1	3 to 1	3 to 1
Ratio of triple back gear	32 to 1	32 to 1	34 to 1
Hole through spindle	1½"	1½"	1 9/16"
Head spindle front bearing	2¼x5"	2¼x5"	3½x5½"
Head spindle rear bearing	2¼x3½"	2¼x3½"	2¼x3½"
Head spindle diameter threaded nose	2½"	2½"	3½"
Head spindle nose threads per inch	5 U. S. S.	5 U. S. S.	6 U. S. S.
Head spindle taper of collet, Morse No.	5	5	5
Taper of centers	4	4	4
Tail spindle diameter	1½"	1½"	2½"
Tail spindle travel	6½"	6½"	9"
Cut threads	2 to 22	2 to 22	2 to 22
Countershaft friction driving pulleys	12x4"	12x4"	15x4½"
Countershaft speed, forward and reverse	140—200	140—200	120—175
Size of tool	¾x1½"	¾x1½"	¾x1½"
Center rest takes in	5"	5"	7½"
Angular travel of compound rest	4½"	4½"	5½"
Lead screw threads per inch	4	4	4
Weight of six-foot lathe	4000 lbs.	4100 lbs.	4500 lbs.
Weight per foot of additional bed	175 lbs.	175 lbs.	280 lbs.

For description of details of design, see reverse side.

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Circular No. 6

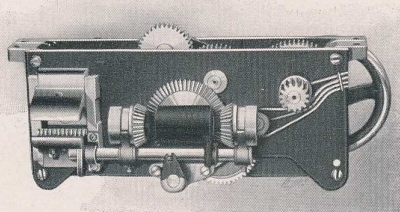
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These lathes have ample power and strength to turn full diameter of swing in the gap, at the same time being free from any awkward or objectionable features for use on ordinary work.

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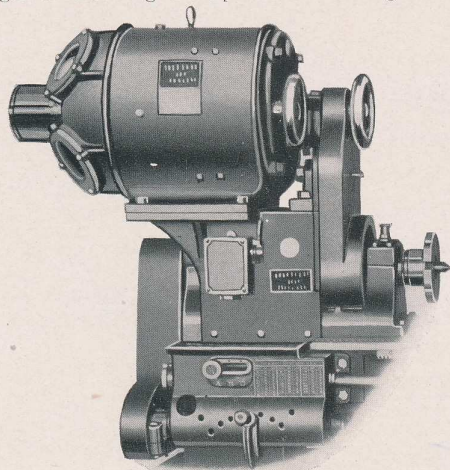
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BED is very deep, with liberal number of box tie-wards to insure stiffness and is cut away at the rear end to allow overhang or removal of the Tailstock. The V's have liberal wearing surfaces, with tops slightly rounded. The inside front track is a flat bearing, which forms a solid support for the Bridge of the Carriage.



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TAILSTOCK is of the cut-away type, which allows the compound rest to be swung around parallel to the ways of the Bed, and is provided with set-over, for taper work. The Spindle is clamped by a Device consisting of split bushings, operated without danger of throwing the Spindle out of alignment.

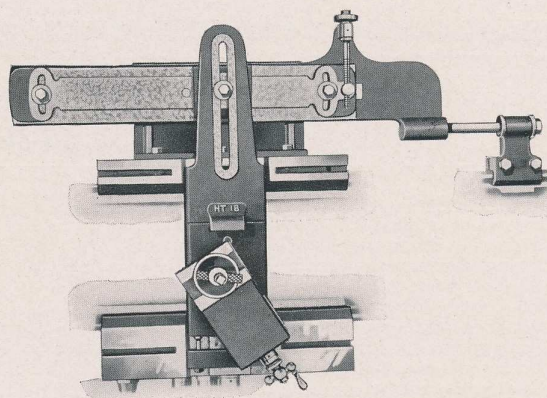


CARRIAGE is strongly reinforced at the waist, with full length solid bearings on the V's and is securely gibbed to the Bed. Waist of Carriage has additional support provided by a bearing on the flat inside front track of the Bed. Compound Rest is graduated in degrees; has long traverse and taper gib adjustable for wear. Both Cross Reed and Compound Rest Screws are provided with adjustable graduated Index Collars.

APRON is the double plate, bevel gear driven type with feed reverse. All Gears are cut from the solid. All Studs are ground and have long bearings at each end, thus insuring long life. A Device is provided for preventing the simultaneous engagement of feeds and thread cutting. Star Feed Knobs, which furnish a good grip for the hands of the Operator, are provided on the Apron Frictions.

FEED WORKS: Lathe has belt-feeds. A full set of Change Gears is furnished. A spline runs the whole length of Lead Screw, for driving the Apron Bevel Gears, but the threads of the Lead Screw are never in use, except in thread cutting.

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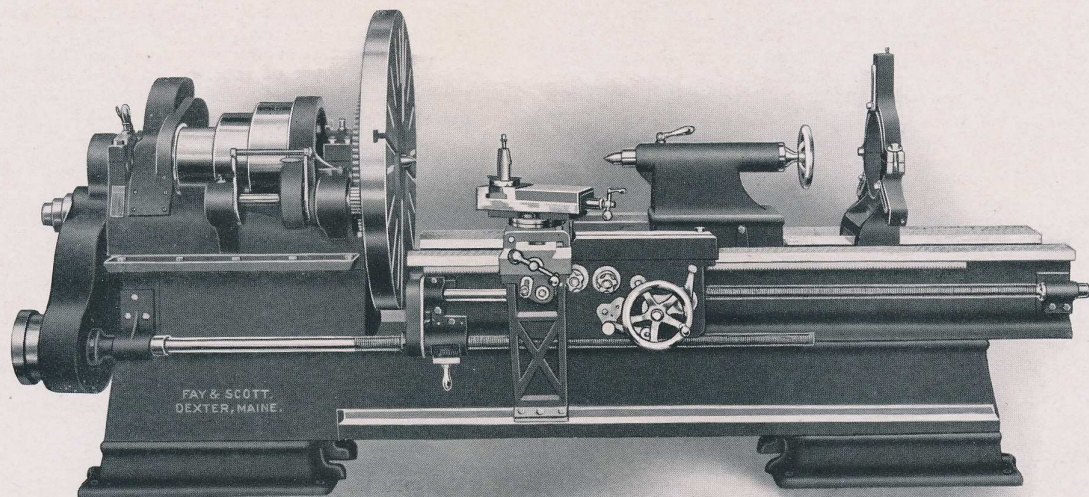
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NOTE: See separate Circular for further details of Motor Drive.



Extension Gap Engine Lathes

24-46, 28-52, and 32-56 Inch

Code Word Size of Lathe	"Komis" 24-46"	"Kemel" 28-52"	"Kerol" 32-56"
Swings over shear	24 $\frac{1}{2}$ "	28 $\frac{1}{2}$ "	32 $\frac{1}{2}$ "
Swings over carriage	17 $\frac{1}{2}$ "	20"	24 $\frac{1}{2}$ "
Swings through gap	46"	52"	56"
Ten-foot lathe takes between centers closed	60"	54"	54"
Ten-foot lathe takes between centers extended	102"	90"	90"
Ten-foot lathe gap opens	42"	36"	36"
Each additional foot of bed extends centers	18"	18"	18"
Each additional foot of bed extends gap	6"	6"	6"
Cone pulley diameter	9 $\frac{1}{2}$ to 16 $\frac{1}{2}$ "	12 $\frac{1}{2}$ to 17 $\frac{1}{2}$ "	12 $\frac{1}{2}$ to 17 $\frac{1}{2}$ "
Width of belt	4 $\frac{1}{2}$ "	5 $\frac{1}{2}$ "	5 $\frac{1}{2}$ "
Ratio of single back gear	12 to 1	12 to 1	12 to 1
Ratio of second back gear	4 to 1	4 to 1	4 to 1
Ratio of triple back gear	34 to 1	34 to 1	34 to 1
Hole through spindle	2 1/16"	2 1/16"	2 1/16"
Head spindle front bearing	4x6 $\frac{3}{8}$ "	4x7"	5 $\frac{1}{4}$ x9"
Head spindle rear bearing	3x4 3/16"	2 $\frac{3}{8}$ x5 $\frac{1}{2}$ "	2 $\frac{3}{8}$ x5 $\frac{1}{2}$ "
Head spindle diameter threaded nose	3 $\frac{1}{2}$ "	4"	4"
Head spindle nose threads per inch	5 U. S. S.	4 U. S. S.	4 U. S. S.
Head spindle taper of collet, Morse No.	6	6	6
Tapers of centers	5	5	5
Tail spindle diameter	2 $\frac{1}{2}$ "	2 $\frac{7}{8}$ "	2 $\frac{7}{8}$ "
Tail spindle travel	11"	11"	11"
Cut threads	2 to 22	2 to 22	2 to 22
Countershaft friction driving pulleys	15x4 $\frac{1}{2}$ "	18x5"	18x5"
Countershaft speed, forward and reverse	120—175	110—150	110—150
Size of tool	$\frac{3}{8}$ x1 $\frac{3}{8}$ "	1x2"	1x2"
Center rest takes in	10"	12"	12"
Angular travel of compound rest	6"	7"	7"
Lead screw threads per inch	4	4	4
Weight of ten-foot lathe	7700 lbs.	8300 lbs.	8600 lbs.
Weight per foot of additional bed	350 lbs.	390 lbs.	390 lbs.

For description of details of design, see reverse side.

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Circular No. 7

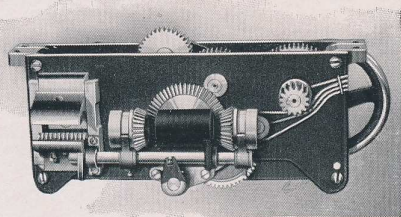
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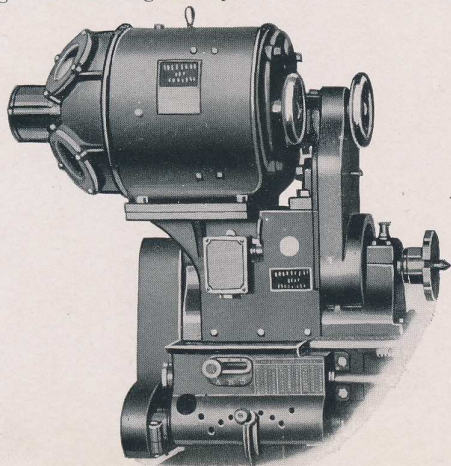
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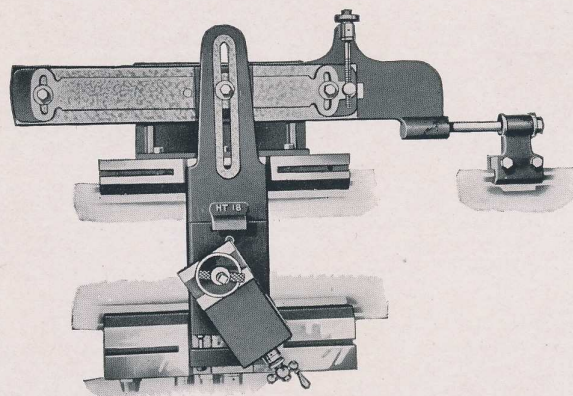


CARRIAGE is strongly reinforced at the waist, with full length solid bearings on the V's and is securely gibbed to the Bed. Waist of Carriage has additional support provided by a bearing on the flat inside front track of the Bed. Compound Rest is graduated in degrees; has long traverse and taper gib adjustable for wear. Both Cross Reed and Compound Rest Screws are provided with adjustable graduated Index Collars.

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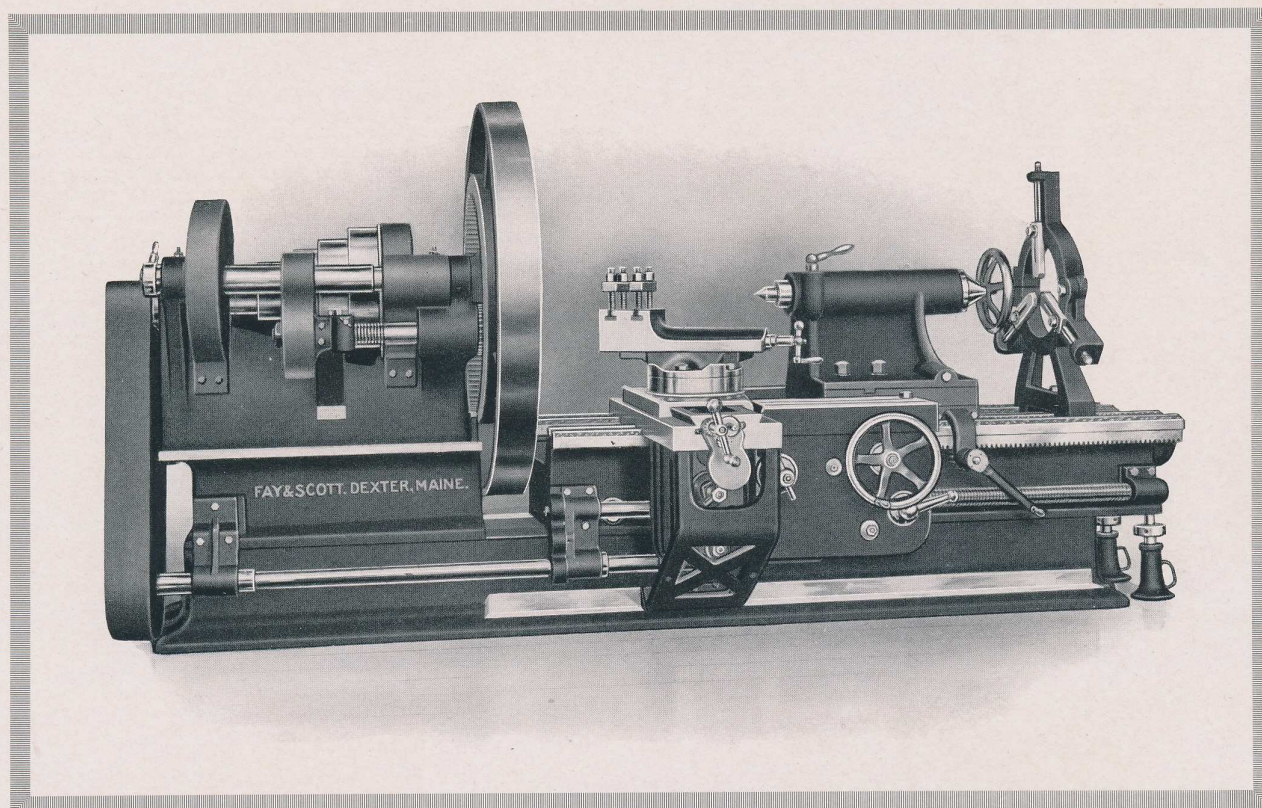
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Extension Gap Engine Lathe 38-66-Inch Size

This Lathe is massive to a degree that will satisfy the requirements of the most exacting. Heavy enough to absorb all vibrations, due to high speeds and feeds of present day practice.

These conditions have been met by the proper distribution of metal, determined by a careful study of the stresses to which a Lathe is subjected under the most trying conditions; using nothing but the highest grade of material, in a well systemized shop, by a corps of skilled mechanics.

Code Word: Kolom

Swings over shear	39"	Head spindle diameter threaded nose	5"
Swings over carriage	26½"	Head spindle nose threads per inch	3 U. S. S.
Swings through gap	66"	Head spindle taper of collet	B. & S. No. 18
Ten-foot lathe takes between centers closed	39"	Taper of centers	6"
Ten-foot lathe takes between centers extended	72"	Tail spindle diameter	4½"
Ten-foot lathe gap opens	33"	Tail spindle travel	15"
Each additional foot of bed extended centers	18"	Cut threads	1 to 12
Each additional foot of bed extends gap	6"	Countershaft friction driving pulleys	20x6"
Cone pulley diameters	15¾ to 22"	Countershaft speed, forward and reverse	100-125
Width of belt	6"	Size of tool	1½x2½"
Ratio of single back gear	11½ to 1	Center rest takes in	10½"
Ratio of triple back gear	36 to 1	Angular travel of compound rest	12½"
Hole through spindle	3 1/16"	Lead screw threads per inch	2
Head spindle front bearing	6¼"x10.5/16"	Weight of ten-foot lathe	15,000 lbs.
Head spindle rear bearing	4¼x6½"	Weight per foot of additional bed	550 lbs.

NOTE:—The 38-66" Lathe is also furnished regularly, raised in the solid to swing 42-70".
For description of details of design, see reverse side.

MANUFACTURED
BY

FAY & SCOTT

DEXTER, ME.
U. S. A.

Jan. 1/17—4M



Circular No. 8

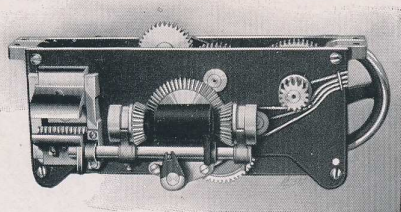
This **EXTENSION GAP TYPE** of Lathe is designed to meet the demand for a tool capable of turning work of large diameter and extra length, as well as doing work accurately and well within their ordinary capacity.

These lathes have ample power and strength to turn full diameter of swing in the gap, at the same time being free from any awkward or objectionable features for use on ordinary work.

By sliding the top bed the gap can be varied to suit the requirements of the work. This extension of the bed is an important feature, inasmuch as it not only increases the swing of the lathe, but also increases the distance between centers for turning long work.

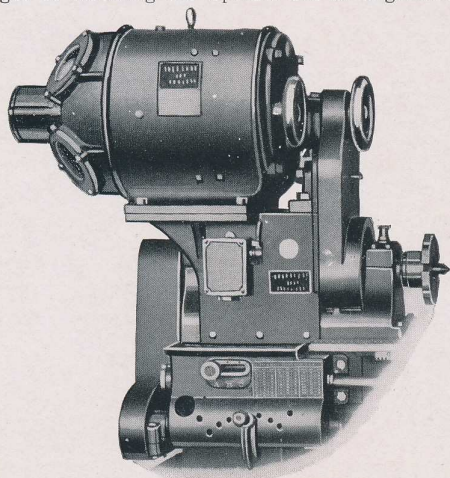
The advantages of this type of lathe over the ordinary gap lathe or the double spindle lathe must be fully appreciated by the careful buyer who investigates the merits of each.

BED is very deep, with liberal number of box tie-wards to insure stiffness and is cut away at the rear end to allow overhang or removal of the Tailstock. The V's have liberal wearing surfaces, with tops slightly rounded. The inside front track is a flat bearing, which forms a solid support for the Bridge of the Carriage.



HEADSTOCK having Three Step Cone and Double Back Gear with triple geared faceplate gives a geometrical progression of spindle speeds, with a nicely proportioned cone, maximum belt speed and contact, and a Drive having triple the power of a Single Back Geared Head. The Spindle is hollow, made of hammered steel, with ground bearings and as large a hole as possible, without impairing its stiffness. Journals are of phosphor bronze, carefully scraped and fitted. Back Gear has Positive Locking Device. All Gears are fully enclosed by substantial Guards.

TAILSTOCK is of the cut-away type, which allows the compound rest to be swung around parallel to the ways of the Bed, and is provided with set-over, for taper work. The Spindle is clamped by a Device consisting of split bushings, operated without danger of throwing the Spindle out of alignment.

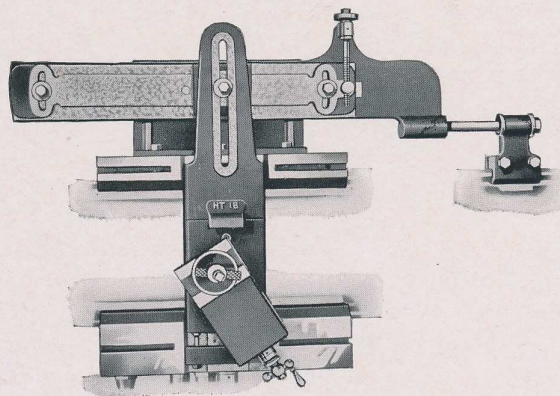


CARRIAGE is strongly reinforced at the waist, with full length solid bearings on the V's and is securely gibbed to the Bed. Waist of Carriage has additional support provided by a bearing on the flat inside front track of the Bed. Compound Rest is graduated in degrees; has long traverse and taper gib adjustable for wear. Both Cross Reed and Compound Rest Screws are provided with adjustable graduated Index Collars.

APRON is the double plate, bevel gear driven type with feed reverse. All Gears are cut from the solid. All Studs are ground and have long bearings at each end, thus insuring long life. A Device is provided for preventing the simultaneous engagement of feeds and thread cutting. Star Feed Knobs, which furnish a good grip for the hands of the Operator, are provided on the Apron Frictions.

FEED WORKS: Lathe has belt-feeds. A full set of Change Gears is furnished. A spline runs the whole length of Lead Screw, for driving the Apron Bevel Gears, but the threads of the Lead Screw are never in use, except in thread cutting.

QUICK CHANGE GEAR is a special feature and can be furnished in place of the regular Feed Works. All threads and feeds can be changed by manipulating two levers, without stopping the Lathe. These changes can be multiplied indefinitely, by substituting any special gears at the end of the Lathe.



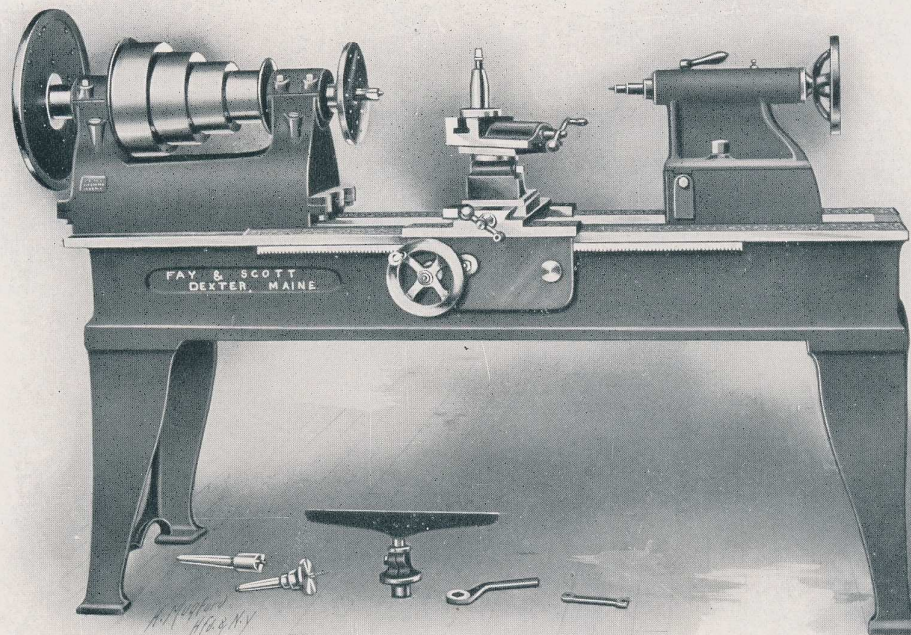
TAPER ATTACHMENT can be readily applied to Lathes after leaving our Works, as the Carriages are drilled to Jig, ready to receive same, with a small amount of fitting. The Attachment is supported by a bracket which is bolted to, and travels with, the Carriage, consequently available for instant use at whatever part of the bed the Carriage may be.

EQUIPMENT consists of Compound Rest, Center Rest, Large and Small Faceplates, Double Friction Countershaft, Wrenches and complete set of Change Gears.

EXTRAS can be furnished as follows: Taper Attachment, Quick Change Gear, Elevating Carriage, Oil Pan, Draw-in Chuck, Friction Head, Turrets fitted to Carriage, or V's.

MOTOR DRIVE can be furnished to suit varying conditions. Our regular method of application is to mount the Motor on a bracket over the Headstock, gearing direct to the lathe spindle, using an adjustable speed Motor.

NOTE: See separate Circular for further details of Motor Drive.



Standard Pattern Makers' Lathes

12, 16, 18, 20 and 24-Inch

Hand Feed Carriage, Compound Rest, Outer Face Plate and Floor Stand

Code Word Size of Lathe	"Bunot" 12"	"Bruci" 16"	"Bulus" 18"	"Bruit" 20"	"Brush" 24"
Swings over shear	12"	16"	18"	20"	24"
Swings over carriage	10"	12"	14"	14"	18"
Swings at rear of headstock	78"	84"	86"	82"	86"
Distance between centers, six-foot bed	48"	42"	42"	30"	30"
Head cone diameters	2½ to 6½"	3½ to 8½"	3½ to 8½"	4½ to 10"	4½ to 10"
Counter cone diameters	5½ to 9"	6¾ to 12"	6¾ to 12"	8¾ to 14"	8¾ to 14"
Width of belt	1½"	2¼"	2¼"	3"	3"
Back gear ratio (when furnished)	9 to 1	9 to 1	9 to 1	9 to 1	9 to 1
Hole through spindle	9/16"	9/16"	9/16"	49/64"	49/64"
Head spindle bearings	1½ x 2½"	1½ x 3½"	1½ x 3½"	2½ x 4½"	2½ x 4½"
Head spindle diameter threaded nose	1 3/8"	1 5/8"	1 5/8"	1 31/32"	1 31/32"
Head spindle number of threads on nose	7 U. S. S.	6 U. S. S.	6 U. S. S.	6 U. S. S.	6 U. S. S.
Spindle chucked Morse taper No.	2	2	2	3	3
Tail spindle diameter	1 3/16"	1 3/8"	1 3/8"	1 7/8"	1 7/8"
Tail spindle travel	4"	6"	6"	6 1/4"	6 1/4"
Countershaft friction driving pulleys	{ 6 x 3 1/2" 10 x 3 1/2"	{ 6 x 3 1/2" 10 x 3 1/2"	{ 6 x 3 1/2" 10 x 3 1/2"	{ 8 x 5" 14 x 4"	{ 8 x 5" 14 x 4"
Countershaft speeds	85 to 800	85 to 700	85 to 700	85 to 550	85 to 550
Size of tool	½ x 1"	½ x 1"	½ x 1"	5/8 x 1 1/4"	5/8 x 1 1/4"
Angular travel of compound rest	2 3/4"	3"	3"	4 1/4"	4 1/4"
Weight of six-foot lathe	- 500 lbs.	800 lbs.	850 lbs.	1,400 lbs.	1,500 lbs.
Weight per foot of additional bed	25 lbs.	50 lbs.	50 lbs.	75 lbs.	75 lbs.
Size motor required to drive	½ H. P.	1 H. P.	1 H. P.	3 H. P.	3 H. P.

The 12, 16 and 20-inch sizes have no swivel plate under headstock.
For description and details of design, see reverse side.

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DEXTER, ME.
U. S. A.

Sept. '21-4M

Circular No. 9

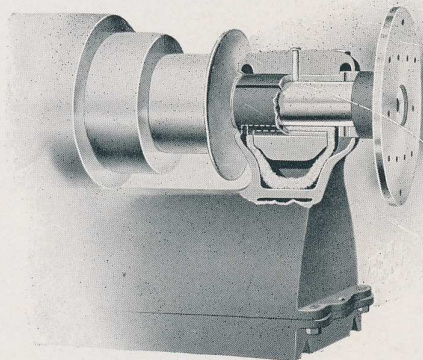
MACHINE

Lathes
TRADE MARK

TOOLS

We were Pioneers in building a Line of WOOD TURNING LATHES with iron beds, thus departing from the old-time custom of mounting head and tailstock on wooden shears.

BED is very deep, with liberal number of box tie-wards to insure stiffness and is cut away at the rear end to allow overhang or removal of Tailstock. The Vs have liberal wearing surfaces, with tops slightly rounding.



HEADSTOCK has self-oiling phosphor bronze Journals, carefully scraped and fitted, the oil being raised by capillary attraction through a wick extending down into a reservoir under the Bearing. (See illustration.) This construction makes the Bearing practically dust-proof, and all sediment in the oil settles to the bottom of the oil well. Proper lubrication of these high speed spindles is essential, and this method insures against any possibility of the Bearing cutting. The Swivel Plate under the headstock is for convenience in turning draft or taper on patterns attached to the faceplate or chuck. Note that this feature is not applied to the 12", 16", 20" and 30" sizes.

HEAD SPINDLE is of high carbon steel, with bearings ground on dead centers, and hole through the entire length for convenience in removing centers. The Spindle extends through rear box carrying faceplate on outer end for turning large work. Both head and tailstock are chucked Morse standard taper, thus allowing standard drill sockets, drills and reamers to be used in either Spindle. End Thrust of Spindle is taken up by means of a collar threaded to rear end of spindle, the thrust coming against loose fibre washers, running between end of box and collar.

HEAD CONE is of cast iron accurately turned inside and out to insure perfect balance with head fitted into large end.

TAILSTOCK is of the cut-away type, which allows the compound rest to be swung around parallel to the ways of the Bed, and is provided with setover, for taper work. The spindle is clamped by a device consisting of split bushings, operated without danger of throwing spindle out of alignment.

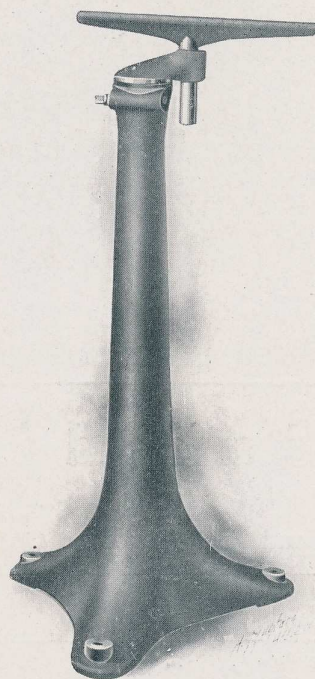
CARRIAGE has hand screw cross feed, and lateral feed the entire length of bed, by means of rack and pinion. The Carriage is securely gibbed to the Bed, preventing its tipping up in turning large diameters.

COMPOUND REST is graduated in degrees, thus allowing the operator to obtain any angle, instantly and correctly.

REST HOLDER for hand turning is interchangeable with the compound rest.

FLOOR STAND for use in connection with outer Faceplate is furnished, carrying either the Rest Holder or Compound Rest. The Stand rests very firmly on the floor, being heavy and having three points of bearing.

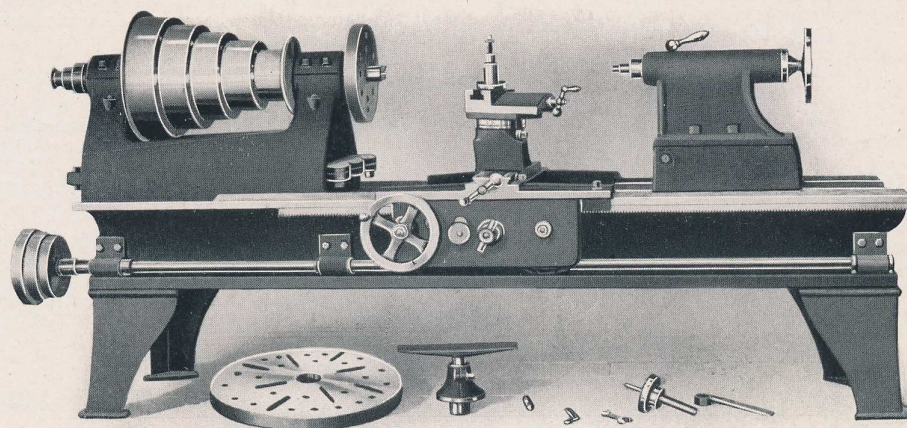
COUNTERSHAFT has self-oiling bearings. Clutch pulleys are the well-known friction band type. They are of different size, thus giving twice as many speeds as there are steps on the cone. The high speed or small pulley is self-oiling.



EQUIPMENT consists of Compound Rest, Hand Feed Carriage, Outer Faceplate, and Floorstand, Double Friction Countershaft, small Faceplate for front end of Spindle, one Rosette Center or Screw Chuck, one Large Driving or Spur Center, one small Driving or Spur Center, one Cup or Tail Center, one Hand Turning Rest Holder, three T Rests of different lengths, one Right Angle Rest, necessary Wrenches.

EXTRAS can be furnished as follows: Power Feed, Quick Set-over Tailstock, Back Geared Head, extra Rest Holder and Double-Ended Rest, extra Faceplates, Pointed Centers, Plain instead of Compound Rest, Disc Grinding Attachment.

MOTOR DRIVE can be furnished to suit varying conditions. Our regular method of application is to mount the motor on an extension of the base of the head end leg and from there drive an adjustable countershaft attached to the rear of the bed carrying the regular counter cone. Additional speed changes can be readily obtained by changing the pulley on the motor, or countershaft, or both. This method allows the use of any standard motor, either constant or variable speed.



Standard Pattern Makers' Lathes

30, 36 and 42-Inch

Hand Feed Carriage, Compound Rest, Outer Face Plate and Floor-Stand

Code Word Size of Lathe	"Buxto" 30"	"Buzin" 36"	"Buste" 42"
Swings over shear	30"	36"	42"
Swings over carriage	21"	27"	33"
Swings at rear of headstock	43"	46"	44"
Distance between centers, ten-foot bed	54"	54"	54"
Head cone diameters	7 1/2 to 18"	7 1/2 to 18"	7 1/2 to 18"
Counter cone diameters	7 1/2 to 18"	7 1/2 to 18"	7 1/2 to 18"
Width of belt	4"	4"	4"
Back gear ratio (when furnished)	9 to 1	9 to 1	9 to 1
Hole through spindle	1"	1"	1"
Head spindle bearings	2 7/8 x 6 1/8"	2 7/8 x 6 1/8"	2 7/8 x 6 1/2"
Head spindle diameter threaded nose	2 7/8"	2 7/8"	2 7/8"
Head spindle number of threads on nose	5 U. S. S.	5 U. S. S.	5 U. S. S.
Spindle chucked Morse taper No.	4	4	4
Tail spindle diameter	2 7/8"	2 7/8"	2 7/8"
Tail spindle travel	11"	11"	11"
Countershaft friction driving pulleys	{ 4 1/2 x 18" 4 1/2 x 18"	{ 4 1/2 x 18" 4 1/2 x 18"	{ 4 1/2 x 18" 4 1/2 x 18"
Countershaft speeds	50 to 150	50 to 150	50 to 150
Size of tool	3/4 x 1 1/2"	3/4 x 1 1/2"	3/4 x 1 1/2"
Angular travel of compound rest	6"	6"	6"
Weight of ten-foot lathe	4,400 lbs.	4,500 lbs.	5,500 lbs.
Weight per foot of additional bed	150 lbs.	150 lbs.	175 lbs.
Size motor required to drive	4 H. P.	4 H. P.	4 H. P.

These sizes differ only in the amount of swing and the fact that the 30-inch has no swivel plate under the headstock. The 42-inch has a heavier bed. Power feed, as shown in cut, is desirable on this size Lathe, but is listed as an extra.

For description of details of design, see reverse side.

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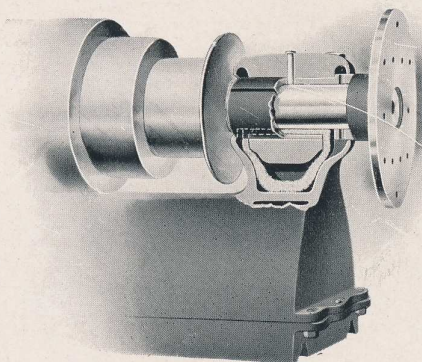
Mar, '19 4M



Circular No. 11

We were Pioneers in building a Line of WOOD TURNING LATHES with iron beds, thus departing from the old-time custom of mounting head and tailstock on wooden shears.

BED is very deep, with liberal number of box tie-wards to insure stiffness and is cut away at the rear end to allow overhang or removal of Tailstock. The Vs have liberal wearing surfaces, with tops slightly rounding.

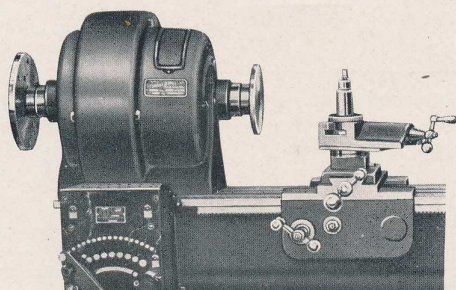


HEADSTOCK has self-oiling phosphor bronze Journals, carefully scraped and fitted, the oil being raised by capillary attraction through a wick extending down into a reservoir under the Bearing. (See illustration.) This construction makes the Bearing practically dust-proof, and all sediment in the oil settles to the bottom of the oil well. Proper lubrication of these high speed spindles is essential, and this method insures against any possibility of the Bearing cutting. The Swivel Plate under the headstock is for convenience in turning draft or taper on patterns attached to the faceplate or chuck. Note that this feature is not applied to the 16", 20" and 30" sizes.

HEAD SPINDLE is of high carbon steel, with bearings ground on dead centers, and hole through the entire length for convenience in removing centers. The Spindle extends through rear box carrying faceplate on outer end for turning large work. Both head and tailstock are chucked Morse standard taper, thus allowing standard drill sockets, drills and reamers to be used in either Spindle. End Thrust of Spindle is taken up by means of a collar threaded to rear end of spindle, the thrust coming against loose fibre washers, running between end of box and collar.

HEAD CONE is of cast iron accurately turned inside and out to insure perfect balance with head fitted into large end.

TAILSTOCK is of the cut-away type, which allows the compound rest to be swung around parallel to the ways of the Bed, and is provided with set-over, for taper work. The spindle is clamped by a device consisting of split bushings, operated without danger of throwing spindle out of alignment.



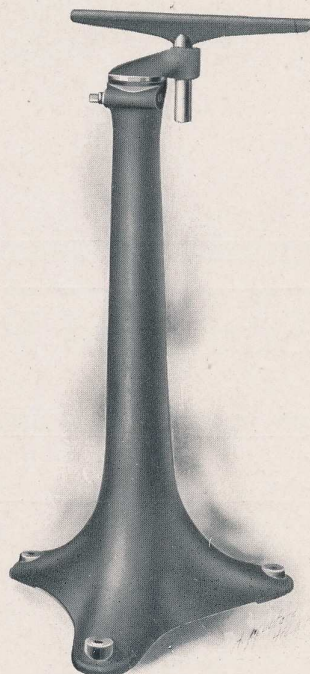
CARRIAGE has hand screw cross feed, and lateral feed the entire length of bed, by means of rack and pinion. The Carriage is securely gibbed to the Bed, preventing its tipping up in turning large diameters.

COMPOUND REST is graduated in degrees, thus allowing the operator to obtain any angle, instantly and correctly.

REST HOLDER for hand turning is interchangeable with the compound rest.

FLOOR STAND for use in connection with outer Faceplate is furnished, carrying either the Rest Holder or Compound Rest. The Stand rests very firmly on the floor, being heavy and having two points of bearing.

COUNTERSHAFT has self-oiling bearings. Clutch pulleys are the well-known friction band type. They are of different size, thus giving twice as many speeds as there are steps on the cone. The high speed or small pulley is self-oiling.

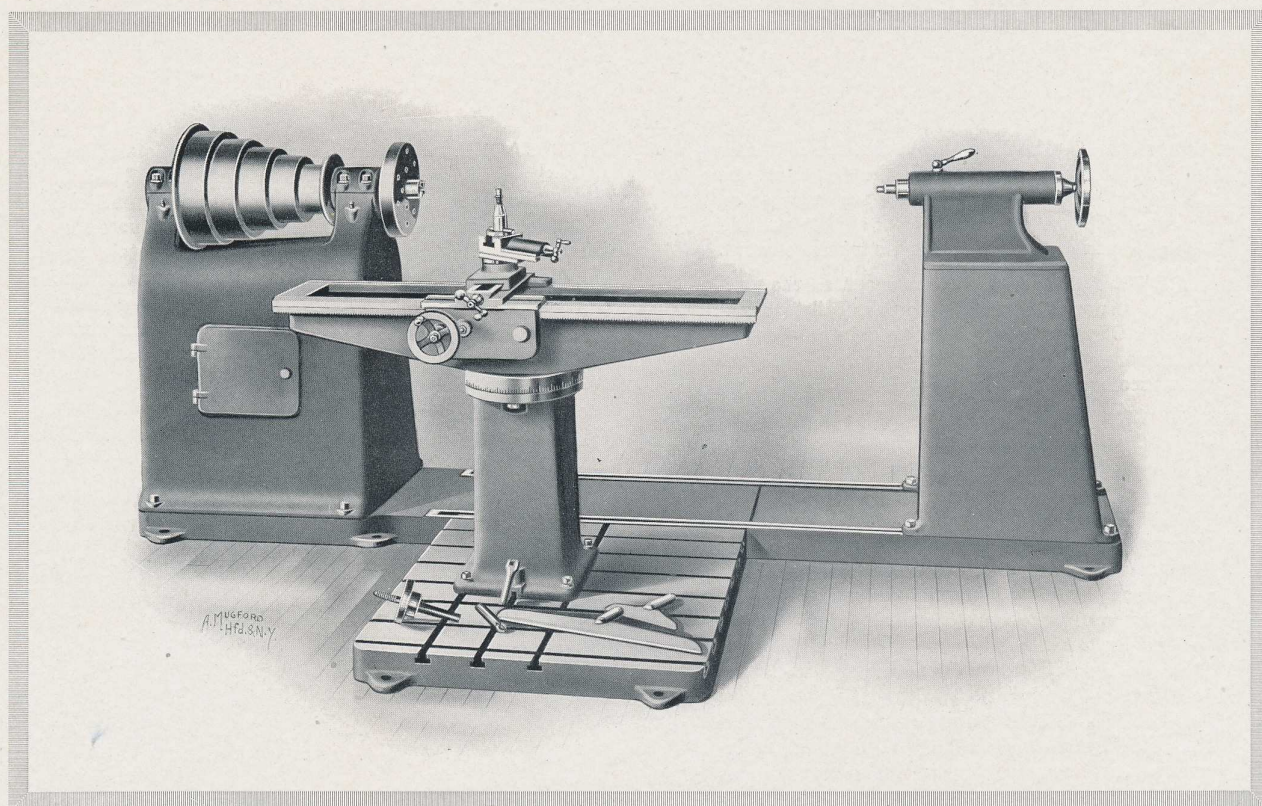


EQUIPMENT consists of Compound Rest, Hand Feed Carriage, Outer Faceplate, and Floorstand, Double Friction Countershaft, small Faceplate for front end of Spindle, one Rosette Center or Screw Chuck, one Large Driving or Spur Center, one small Driving or Spur Center, one Cup or Tail Center, one Hand Turning Rest Holder, three T Rests of different lengths, one Right Angle Rest, necessary Wrenches.

EXTRAS can be furnished as follows: Power Feed, Quick Set-over Tailstock, Back Geared Head, extra Rest Holder and Double-Ended Rest, extra Faceplates, Pointed Centers, Plain instead of Compound Rest, Disc Grinding Attachment.

MOTOR DRIVE can be furnished to suit varying conditions. Our regular method of application is to mount the motor on the Bed in the form of Motor Headstock using a variable speed motor. Another method is by an attached motor countershaft for use with any standard motor either constant or variable speed.

NOTE: See separate circular for further details of Motor Drive.



Combination Pattern Makers' Lathe

90-inch Size

The possibilities of this universal type of Lathe will at once be apparent to parties having occasion to turn large diameters, pulleys, gears and cylindrical patterns. It fills a long-felt want among Pattern Makers, for a combination Lathe capable of handling large work to advantage, at the same time being free from any awkward or objectionable features on small work.

These Lathes can be furnished in various combinations to suit the requirements of a customer, with or without sole plate, carriage slide rest on pillar, outer faceplate with floor stand, tailstock baseplate with tailstock, back-geared headstock, gear-cutting attachment, motor headstock, motor countershaft, in fact any combination desired.

SPECIFICATIONS

Code Word	Upnig	Head spindle number of threads on nose	5
Size of Lathe	90"	Spindle chucked Morse taper No.	4
Swings over baseplate	90"	Tail spindle diameter	2 $\frac{7}{8}$ "
Swings at rear of headstock	98"	Tail spindle travel	11"
Distance between centers, on 12-foot base-plate	72"	Countershaft friction driving pulleys	18 x 4 $\frac{1}{2}$ "
Head cone diameter	7 $\frac{1}{2}$ to 17 $\frac{1}{2}$ "	Countershaft speeds	50—150
Counter cone diameter	7 $\frac{1}{2}$ to 17 $\frac{1}{2}$ "	Size of tool	$\frac{3}{4}$ " x 1 $\frac{1}{2}$ "
Width of belt	4"	Angular travel of compound rest	6"
Back gear ratio, when furnished	9 to 1	Weight of floor stand or tripod	150 lbs.
Hole through spindle	1"	Weight of column with headstock and counter	2500 lbs.
Head spindle bearings, front and rear	2 $\frac{7}{8}$ x 6 $\frac{1}{8}$ "	Weight of column with headstock and counter sole plate and carriage slide rest	3350 lbs.
Head spindle diameter threaded nose	2 $\frac{7}{8}$ "	Weight of complete lathe	6000 lbs.

For description of details of design, see reverse side

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FAY & SCOTT

DEXTER, ME.
U. S. A.

Jan. '15 — 4M

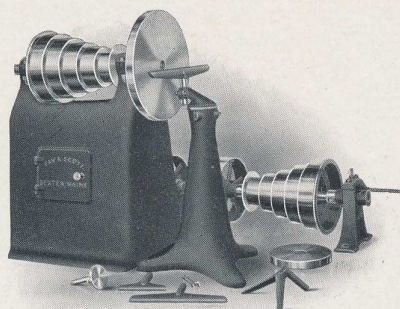


Circular No. 15

This Combination Lathe differs from our line of Standard Pattern Makers Lathes in the fact that the Headstock, Tailstock and Carriage are mounted on separate Units with a wide range of adjustment and admit the performance of an infinite variety of work.

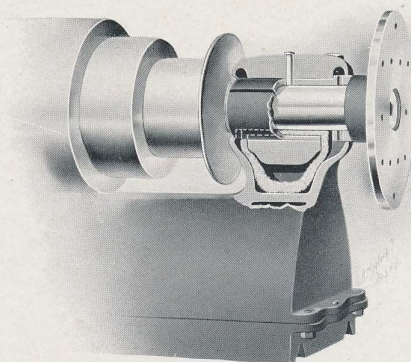
The **SOLE PLATE**, upon which are mounted the various Units supporting the Headstock, Tailstock and movable Carriage, can be furnished in any length, the standard length being twelve feet, which gives a distance between centers of six feet.

HEADSTOCK has five-step cone, machined both inside and out, to insure perfect balance and is provided with a groove next to the flange on each step, preventing interference and consequent damage to belt. The spindle is of high carbon steel with bearings ground on dead centers and hole through entire length for convenience in removing centers. The spindle runs in self-oiling bronze boxes, the oil being raised by capillary attraction through a wick, extending down into a reservoir under the bearings. This construction makes the bearing practically dust-proof and all sediment in the oil settles to the bottom of the oil well. Proper lubrication of these high-speed spindles is essential and this method insures against any possibility of the bearing cutting. The spindle extends through rear box, carrying a faceplate on outer end, for turning large work; both head and tail spindles are chucked Morse Standard Taper, thus allowing standard sockets, drills and reamers to be used in either spindle. End thrust of spindle is taken up by means of a collar threaded to rear end of spindle, the thrust coming against loose fibre washers, running between end of box and collar.



TAILSTOCK is of the cut-away type which allows the compound rest to be swung around parallel to the ways of the bed. The spindle is clamped by a device consisting of split bushings operated without danger of throwing the spindle out of alignment. Column which supports the tailstock may be adjusted to the desired position on the Sole Plate by means of rack and pinion at its base, operated by a conveniently located handwheel.

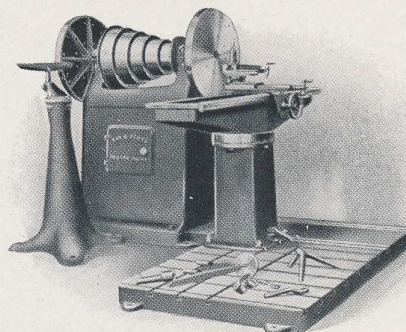
CARRIAGE has hand screw cross feed and lateral feed the entire length of bed by means of rack and pinion. Carriage is securely gibbed to the bed and has mounted upon it, Compound Rest graduated in degrees, thus allowing the Operator to obtain any angle instantly and correctly. The Compound Rest base serves as a Holder for the Compound Rest, also for the Hand Turning Rests, these parts also being interchangeable between the carriage and floor stand.

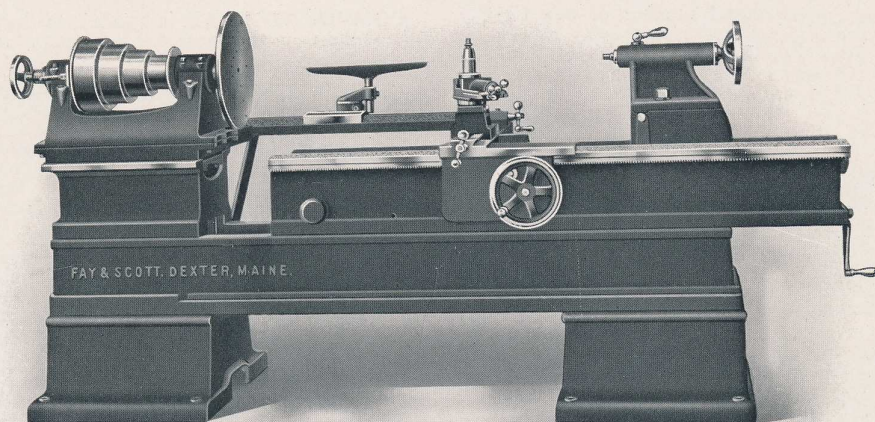


EQUIPMENT consists of One Large Faceplate for rear end of Spindle; One Small Faceplate for front end of Spindle; One Rosette Center of Screw Chuck; One Large Driving or Spur Center; One Small Driving or Spur Center; One Cup or Tail Center; One Hand Turning Rest Holder; Three T Rests of different lengths; One Right Angle Rest; One Floor Stand or Tripod; Double Friction Countershaft and necessary Wrenches.

EXTRAS can be furnished as follows: Back Geared Headstock, Extra Rest Holder and Double Ended Rest; Extra Faceplates; Pointed Centers; Plain, instead of Compound Rest and Gear Cutting Attachment.

MOTOR DRIVE can be furnished to suit varying conditions. Motor Headstocks can be furnished for Direct Current, or Attached Motor Countershafts for use with any standard Motor, using either Direct or Alternating Current.





Extension Gap Pattern Makers' Lathes

16-30, 18-34, 20-38 and 24-42 Inch

Hand Feed Carriage, Compound Rest, Outer Face Plate and Floor Stand

Code Word Size of Lathe	"Gross" 16-30"	"Ganet" 18-34"	"Gazel" 20-38"	"Galie" 24-42"
Swings over shear	16"	18"	20"	24"
Swings over carriage	13"	15"	14"	18"
Swings at rear of headstock	42"	43"	41"	43"
Swings through gap	30"	34"	38"	42"
Six foot lathe takes between centers, closed	42"	42"	30"	30"
Six foot lathe takes between centers, extended	72"	72"	54"	54"
Six foot lathe, gap opens	30"	30"	24"	24"
Additional foot of bed extends centers	18"	18"	18"	18"
Additional foot of bed extends gap	6"	6"	6"	6"
Head cone diameters	3 1/2 to 8 1/2"	3 1/2 to 8 1/2"	4 1/2 to 10"	4 1/2 to 10"
Countercone diameters	6 3/4 to 12"	6 3/4 to 12"	8 3/4 to 14"	8 3/4 to 14"
Width of belt	2 1/4"	2 1/4"	3"	3"
Ratio of back gear (when furnished)	9 to 1	9 to 1	9 to 1	9 to 1
Hole through spindle	1 1/8"	1 1/8"	1 1/8"	1 1/8"
Head spindle bearings	1 1/8 x 3 1/2"	1 1/8 x 3 1/2"	2 1/8 x 4 1/2"	2 1/8 x 4 1/2"
Head spindle diameter threaded nose	1 5/8"	1 5/8"	1 3/4"	1 3/4"
Head spindle nose threads per inch	6 U. S. S.	6 U. S. S.	6 U. S. S.	6 U. S. S.
Taper of centers, Morse No.	2	2	3	3
Tail spindle diameter	1 1/16"	1 1/16"	1 7/8"	1 7/8"
Tail spindle travel	6"	6"	6 3/4"	6 3/4"
Countershaft friction driving pulleys	6 x 3 1/2"	6 x 3 1/2"	8 x 5"	8 x 5"
	10 x 3 1/2"	10 x 3 1/2"	14 x 4"	14 x 4"
Countershaft speeds	85-700	85-700	85-550	85-550
Size of tool	1/2 x 1"	1/2 x 1"	5/8 x 1 1/4"	5/8 x 1 1/4"
Angular travel of compound rest	2 3/4"	2 3/4"	4 1/4"	4 1/4"
Weight of lathe	1100 lbs.	1200 lbs.	1500 lbs.	1550 lbs.
Weight per foot of additional bed	100 lbs.	100 lbs.	175 lbs.	175 lbs.
Size motor required to drive	1 H. P.	1 H. P.	3 H. P.	3 H. P.

The 16-30 and 20-38-inch sizes have no swivel plate under headstock.
For description of details of design, see reverse side.

MANUFACTURED
BY

FAY & SCOTT

DEXTER, ME.
U. S. A.

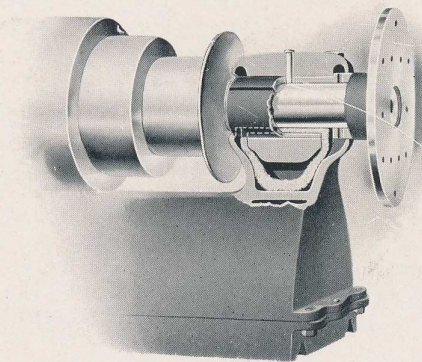
Mar. '19-4M



Circular No. 12

THIS EXTENSION GAP TYPE of Lathe is designed to meet the demand for a tool capable of turning work of large diameter and extra length, as well as doing work accurately and well within their ordinary capacity.

BED is very deep, with liberal number of box tie-wards to insure stiffness and is cut away at the rear end to allow overhang or removal of Tailstock. The Vs have liberal wearing surfaces, with tops slightly rounding.

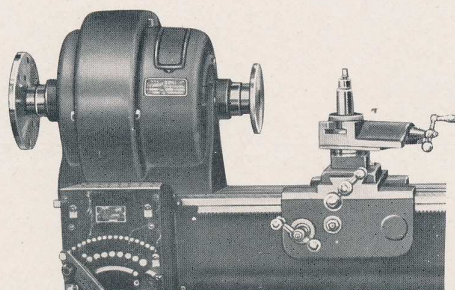


HEADSTOCK has self-oiling phosphor bronze Journals, carefully scraped and fitted, the oil being raised by capillary attraction through a wick extending down into a reservoir under the Bearing. (See illustration.) This construction makes the Bearing practically dust-proof, and all sediment in the oil settles to the bottom of the oil well. Proper lubrication of these high speed spindles is essential, and this method insures against any possibility of the Bearing cutting. The Swivel Plate under the headstock is for convenience in turning draft or taper on patterns attached to the faceplate or chuck. Note that this feature is not applied to the 16", 20" and 30" sizes.

HEAD SPINDLE is of high carbon steel, with bearings ground on dead centers, and hole through the entire length for convenience in removing centers. The Spindle extends through rear box carrying faceplate on outer end for turning large work. Both head and tailstock are chucked Morse standard taper, thus allowing standard drill sockets, drills and reamers to be used in either Spindle. End Thrust of Spindle is taken up by means of a collar threaded to rear end of spindle, the thrust coming against loose fibre washers, running between end of box and collar.

HEAD CONE is of cast iron accurately turned inside and out to insure perfect balance with head fitted into large end.

TAILSTOCK is of the cut-away type, which allows the compound rest to be swung around parallel to the ways of the Bed, and is provided with set-over, for taper work. The spindle is clamped by a device consisting of split bushings, operated without danger of throwing spindle out of alignment.



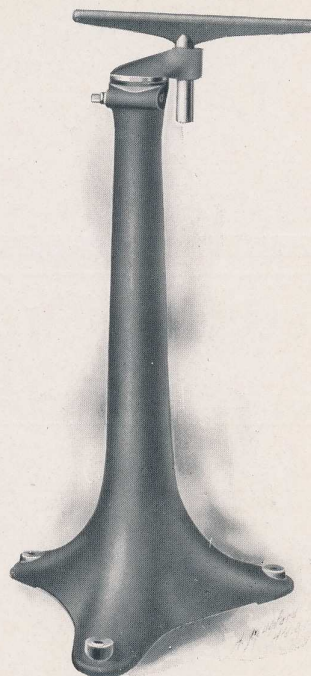
CARRIAGE has hand screw cross feed, and lateral feed the entire length of bed, by means of rack and pinion. The Carriage is securely gibbed to the Bed, preventing its tipping up in turning large diameters.

COMPOUND REST is graduated in degrees, thus allowing the operator to obtain any angle, instantly and correctly.

REST HOLDER for hand turning is interchangeable with the compound rest.

FLOOR STAND for use in connection with outer Faceplate is furnished, carrying either the Rest Holder or Compound Rest. The Stand rests very firmly on the floor, being heavy and having two points of bearing.

COUNTERSHAFT has self-oiling bearings. Clutch pulleys are the well-known friction band type. They are of different size, thus giving twice as many speeds as there are steps on the cone. The high speed or small pulley is self-oiling.

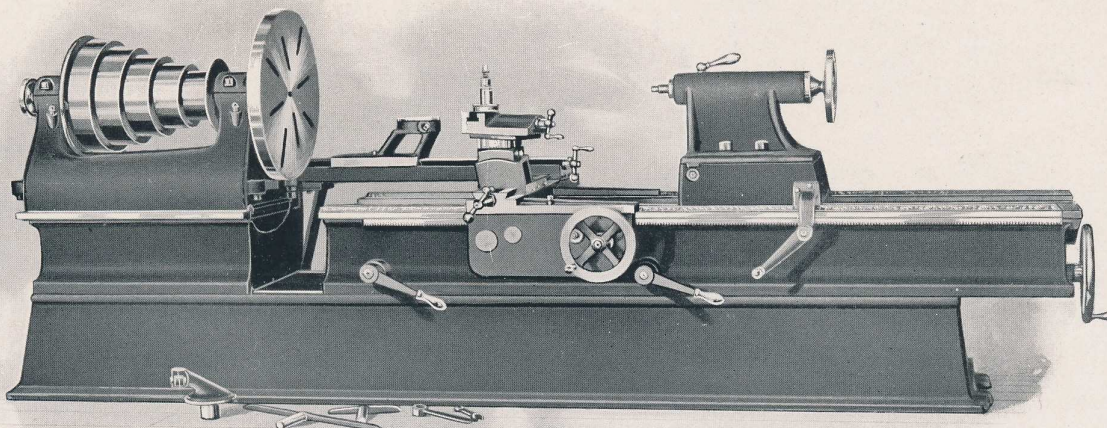


EQUIPMENT consists of Compound Rest, Hand Feed Carriage, Outer Faceplate, and Floorstand, Double Friction Countershaft, small Faceplate for front end of Spindle, one Rosette Center or Screw Chuck, one Large Driving or Spur Center, one small Driving or Spur Center, one Cup or Tail Center, one Hand Turning Rest Holder, three T Rests of different lengths, one Right Angle Rest, necessary Wrenches.

EXTRAS can be furnished as follows: Power Feed, Quick Set-over Tailstock, Back Geared Head, extra Rest Holder and Double-Ended Rest, extra Faceplates, Pointed Centers, Plain instead of Compound Rest, Disc Grinding Attachment.

MOTOR DRIVE can be furnished to suit varying conditions. Our regular method of application is to mount the motor on the Bed in the form of Motor Headstock using a variable speed motor. Another method is by an attached motor countershaft for use with any standard motor either constant or variable speed.

NOTE: See separate circular for further details of Motor Drive.



Extension Gap Pattern Makers' Lathes

30-54, 36-60 and 42-70 Inch

Hand Feed Carriage, Compound Rest, Outer Face Plate and Floor Stand

Code Word Size of Lathe	"Gorom" 30-54"	"Guter" 36-60"	"Gumbo" 42-70"
Swings over shear	30"	36"	42"
Swings over carriage	21"	27"	33"
Swings at rear of headstock	43"	46"	44"
Swings through gap	54"	60"	70"
Ten foot lathe takes between centers, closed	54"	54"	54"
Ten foot lathe takes between centers, extended	90"	90"	90"
Ten foot lathe, gap opens	26"	26"	26"
Additional foot of bed extends centers	18"	18"	18"
Additional foot of bed extends gap	6"	6"	6"
Head cone diameters	7 1/2 to 18"	7 1/2 to 18"	7 1/2 to 18"
Countercone diameters	7 1/2 to 18"	7 1/2 to 18"	7 1/2 to 18"
Width of belt	4"	4"	4"
Ratio of back gear (when furnished)	9 to 1	9 to 1	9 to 1
Hole through spindle	1"	1"	1"
Head spindle bearings	2 7/8 x 6 1/8"	2 7/8 x 6 1/8"	2 7/8 x 6 1/8"
Head spindle diameter threaded nose	2 7/8"	2 7/8"	2 7/8"
Head spindle nose threads per inch	5 U. S. S.	5 U. S. S.	5 U. S. S.
Taper of centers, Morse No.	4	4	4
Tail spindle diameter	2 7/8"	2 7/8"	2 7/8"
Tail spindle travel	11"	11"	11"
Countershaft friction driving pulleys	4 1/2 x 18"	4 1/2 x 18"	4 1/2 x 18"
Countershaft speeds	50-150	50-150	50-150
Size of tool	3/4 x 1 1/2"	3/4 x 1 1/2"	3/4 x 1 1/2"
Angular travel of compound rest	6"	6"	6"
Weight of lathe	6000 lbs.	6200 lbs.	7000 lbs.
Weight per foot of additional bed	300 lbs.	300 lbs.	350 lbs.
Size motor required to drive	4 H. P.	4 H. P.	4 H. P.

The 30-54 inch size has no swivel plate under headstock.

For description of details of design, see reverse side.

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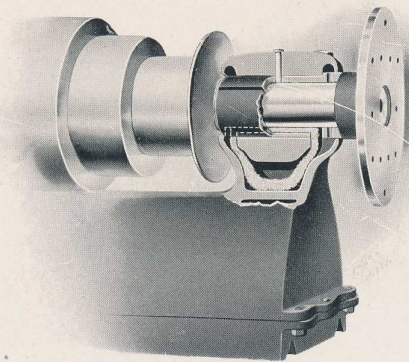
Mar. '19-4M



Circular No. 13

THIS EXTENSION GAP TYPE of Lathe is designed to meet the demand for a tool capable of turning work of large diameter and extra length, as well as doing work accurately and well within their ordinary capacity.

BED is very deep, with liberal number of box tie-wards to insure stiffness and is cut away at the rear end to allow overhang or removal of Tailstock. The Vs have liberal wearing surfaces, with tops slightly rounding.

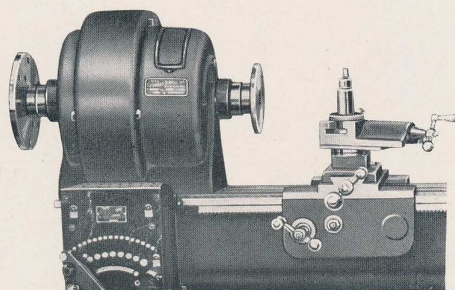


HEADSTOCK has self-oiling phosphor bronze Journals, carefully scraped and fitted, the oil being raised by capillary attraction through a wick extending down into a reservoir under the Bearing. (See illustration.) This construction makes the Bearing practically dust-proof, and all sediment in the oil settles to the bottom of the oil well. Proper lubrication of these high speed spindles is essential, and this method insures against any possibility of the Bearing cutting. The Swivel Plate under the headstock is for convenience in turning draft or taper on patterns attached to the faceplate or chuck. Note that this feature is not applied to the 16", 20" and 30" sizes.

HEAD SPINDLE is of high carbon steel, with bearings ground on dead centers, and hole through the entire length for convenience in removing centers. The Spindle extends through rear box carrying faceplate on outer end for turning large work. Both head and tailstock are chucked Morse standard taper, thus allowing standard drill sockets, drills and reamers to be used in either Spindle. End Thrust of Spindle is taken up by means of a collar threaded to rear end of spindle, the thrust coming against loose fibre washers, running between end of box and collar.

HEAD CONE is of cast iron accurately turned inside and out to insure perfect balance with head fitted into large end.

TAILSTOCK is of the cut-away type, which allows the compound rest to be swung around parallel to the ways of the Bed, and is provided with set-over, for taper work. The spindle is clamped by a device consisting of split bushings, operated without danger of throwing spindle out of alignment.



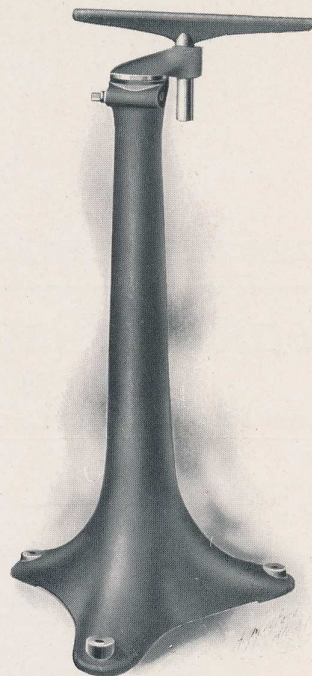
CARRIAGE has hand screw cross feed, and lateral feed the entire length of bed, by means of rack and pinion. The Carriage is securely gibbed to the Bed, preventing its tipping up in turning large diameters.

COMPOUND REST is graduated in degrees, thus allowing the operator to obtain any angle, instantly and correctly.

REST HOLDER for hand turning is interchangeable with the compound rest.

FLOOR STAND for use in connection with outer Faceplate is furnished, carrying either the Rest Holder or Compound Rest. The Stand rests very firmly on the floor, being heavy and having two points of bearing.

COUNTERSHAFT has self-oiling bearings. Clutch pulleys are the well-known friction band type. They are of different size, thus giving twice as many speeds as there are steps on the cone. The high speed or small pulley is self-oiling.

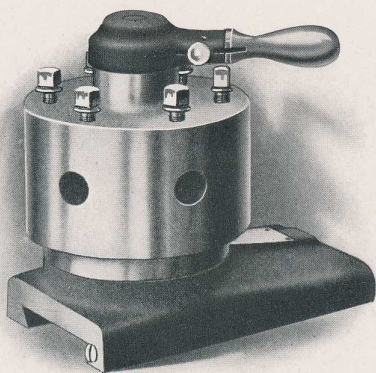


EQUIPMENT consists of Compound Rest, Hand Feed Carriage, Outer Faceplate, and Floorstand, Double Friction Countershaft, small Faceplate for front end of Spindle, one Rosette Center or Screw Chuck, one Large Driving or Spur Center, one small Driving or Spur Center, one Cup or Tail Center, one Hand Turning Rest Holder, three T Rests of different lengths, one Right Angle Rest, necessary Wrenches.

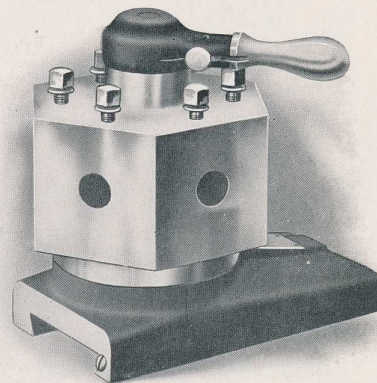
EXTRAS can be furnished as follows: Power Feed, Quick Set-over Tailstock, Back Geared Head, extra Rest Holder and Double-Ended Rest, extra Faceplates, Pointed Centers, Plain instead of Compound Rest, Disc Grinding Attachment.

MOTOR DRIVE can be furnished to suit varying conditions. Our regular method of application is to mount the motor on the Bed in the form of Motor Headstock using a variable speed motor. Another method is by an attached motor countershaft for use with any standard motor either constant or variable speed.

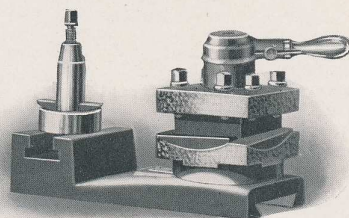
NOTE: See separate circular for further details of Motor Drive.



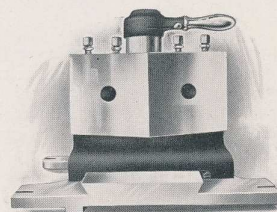
Style A



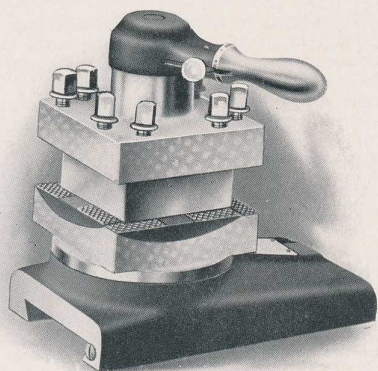
Style B



Style H



Style P



Style G

F. & S. LATHE TURRETS Carriage Turrets

MODERN methods of manufacturing to obtain the most economical production, demand carefully designed special tools and fixtures, capable of performing duplicate operations accurately and to the best possible advantage. Automatic turrets for carrying these special tools have rapidly come into general use.

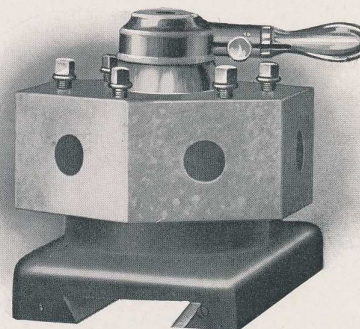
The large expense necessary to install specially designed turret lathes, is oftentimes not warranted by the amount and nature of the work to be performed. The illustrations show some new designs of lathe turrets, embodying original and patented ideas, which will save their cost in a surprisingly short time and without which no modern shop is well equipped.

By their use we get in addition to the regular capacity of an engine lathe, most of the advantages of a first-class turret lathe, with the exception, perhaps of a few automatic features.

WE furnish these turrets for any size lathe of other makes, as well as our own. When ordering for other make lathes it is necessary to furnish us with template or accurate dimensions of top of bed or carriage, and distance from same to lathe center.

THESE Carriage Turrets are designed to go on the lathe carriage in place of the regular tool block. They are made in several styles, for carrying ordinary lathe tools, or tools with round shanks. All styles have our patented revolving and locking mechanism, which, by a single movement of the lever handle, forward and back, releases the turret, turns the next tool into position and locks the turret. This is a valuable feature, inasmuch as it requires the use of but one hand of the operator. The turret base is fitted with taper gib adjustable for wear. The locking pin is also fitted with an adjustable taper gib. The locking pin and ring are made of tool steel, hardened and ground, which reduces the wear on these parts, to a minimum.

These turrets will index accurately, to within a fraction of a thousandth, thus insuring the performing of duplicate operations accurately.



Style O

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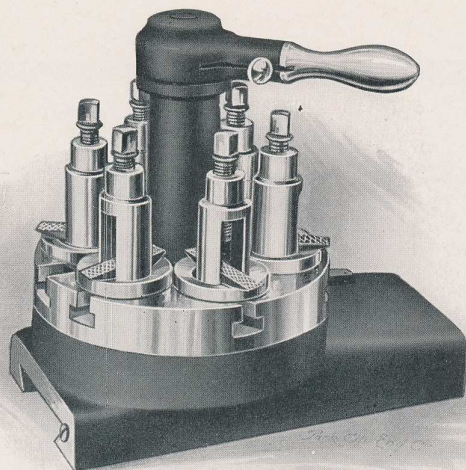
FAY & SCOTT

DEXTER, ME.
U. S. A.

Aug. '19—4M.

Circular No. 18





Style J

STYLE "H" is designed particularly for working on bar stock. It is arranged with a single tool holder on the back. Otherwise, this turret is the same as style "G."

This turret is especially adapted to duplicate operations, the four slots in the turret head being available for turning or forming tools, then the rear tool can be quickly brought up, to square up shoulders, or for necking and cutting off.

STYLE "A" or round type is designed for boring, tapping, reaming and forming operations, using tools with round shanks.

It can be furnished with four or six holes.

A dowel pin through the base of the turret into the carriage serves to readily locate the turret in exact alignment with the lathe spindle. This pin can be withdrawn when it is desired to use the cross feed, for facing up work with the turret.

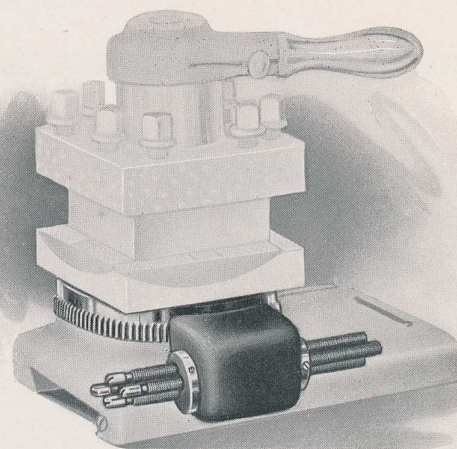
STYLE "B" has hexagon head and the faces can be drilled to jig, for bolting on special tools or fixtures. Otherwise, the turret is same as style "A."

The same cross feed nut as used on the regular tool rest can be applied to any of these turrets, or we can furnish a blank nut, which can be drilled and tapped, to fit the cross feed screw.

STYLE "G" carries ordinary lathe tools, and is the one we recommend for a general class of work, such as turning, boring, threading, etc.

It can also be used for carrying special forming tools; in fact, performing the same functions as the ordinary tool post.

Its advantage is having four tools, always in position to be brought quickly into successive operation.



Diameter Stops

STYLE "J" is in reality a multiple tool post arranged so any number of tools up to six can be brought into successive operation. The head consists of a plain turntable slotted to permit of quick insertion or removal of the tool posts. For certain classes of work this turret will appeal as having particular advantages.

STYLE "O" is an extra heavy type of turret, with hexagon head. It is adaptable to lathe carriages with a wide bridge. When ordered with lathes of our own make, we furnish the lathe carriage with an extra wide bridge. This makes a very rigid tool.

Turrets arranged in this way, have all the feeds of the engine lathe, such as power cross feed for facing off work, also the lateral and screw feeds for boring, reaming and tapping.

STYLE "P" is designed to afford greater stiffness than the types which interchange with the compound rest. The turret is mounted upon a heavy plate, which is bolted to the wings of the carriage. The plate is aligned by a planed tongue on its under side which rests against the regular carriage dovetail. No movement of the plate takes place on this dovetail. It is slotted to allow the cross feed nut to extend up through it and be attached to the turret slide for cross feeding.

THE Diameter Stop, illustrated, is automatic in action, taking movement from the revolving turret head and provides for a positive independent feed stop for each face of the turret.

The stop is applicable to any style carriage turret shown on preceding pages. It consists of a disc in which is located a series of adjustable stop screws, corresponding to the number of faces on the turret. By the revolving of the turret, these screws are brought into consecutive position to engage a lug on the side of the carriage.

SECTION OF CARRIAGE TURRET

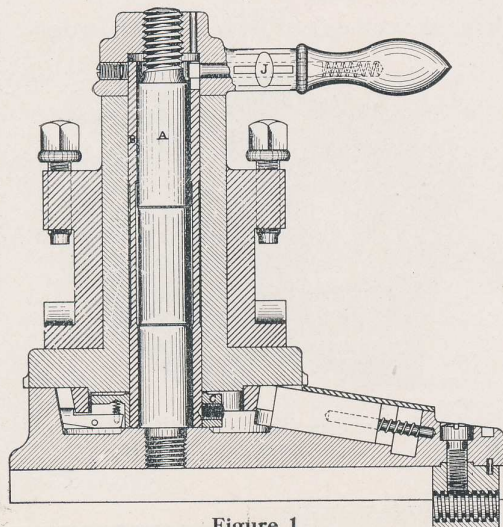


Figure 1

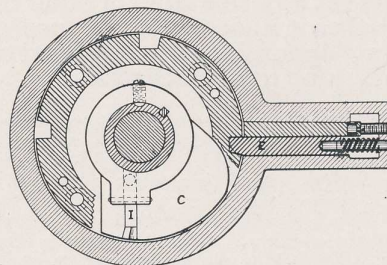


Figure 3

THE Turret turns upon a sleeve, shown in the vertical section. This sleeve turns upon a fixed stud. To the lower extremity of the sleeve is fastened the cam and the rounded portion of this cam acts upon a rounded corner of the locking pin and forces it out, this rounded corner being on a portion of the locking pin that is below the index ring.

To the cam is attached a pawl which, by the above mentioned movement, is carried back to engage the next notch of the

index ring and, when the lever is drawn forward, the turret is rotated until the locking pin engages the next notch, the pin having been previously released by the cam.

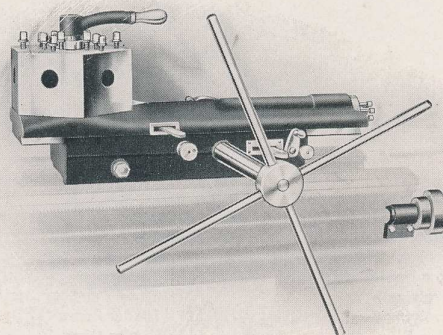
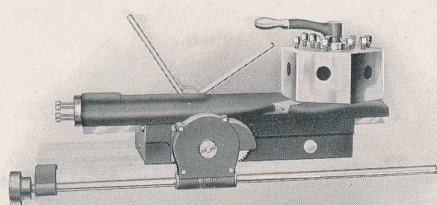
When the motion of the turret is arrested by the lock pin, the operator presses on the thumb latch, which disengages the revolving pin in the hand lever from the notch in sleeve, by which the turret is rotated, and when thus released a further movement of the lever turns the lever upon the thread, which is cut upon the fixed stud, and thus clamps the turret firmly in place.

CARRIAGE TURRET DIMENSIONS

Size.....	12"	14"	16"	18"	20"	22"	24"	26"	28"	32"	36"	38"
Diameter of Turret Styles A, B.....	6"	6"	8"	8"	9"	9"	10"	10"	12"	12"	12"	14"
Face to Face Styles G, H.....	4 7/8"	4 7/8"	5 7/8"	5 7/8"	6 7/8"	6 7/8"	7 7/8"	7 7/8"	8 7/8"	8 7/8"	8 7/8"	10 1/2"
Face to Face Style O.....	8 1/2"	8 1/2"	11"	11"	12 3/4"	12 3/4"	15 1/2"	15 1/2"	17 3/4"	17 3/4"	17 3/4"	22"
Face to Face Style P.....	10"	10"	12"	12"	12"	12"	16"	16"	16"	18"	18"	24"
Turret Face Dimensions Style B.....	(3 1/2" h 3 1/8" w)	(4 1/2" h 3 1/8" w)	(4 3/4" h 4 3/8" w)	(4 3/4" h 4 3/8" w)	(5 1/2" h 5 1/8" w)	(5 1/2" h 5 1/8" w)	(7" h 5 1/8" w)	(7" h 5 1/8" w)	(7 1/2" h 6 7/8" w)	(7 1/2" h 6 7/8" w)	(7 1/2" h 6 7/8" w)	(10" h 8" w)
Turret Face Dimensions Style O.....	(3 1/2" h 3 1/8" w)	(4 1/2" h 3 1/8" w)	(4 3/4" h 4 3/8" w)	(4 3/4" h 4 3/8" w)	(5 1/2" h 5 1/8" w)	(5 1/2" h 5 1/8" w)	(7" h 5 1/8" w)	(7" h 5 1/8" w)	(7 1/2" h 6 7/8" w)	(7 1/2" h 6 7/8" w)	(7 1/2" h 6 7/8" w)	(10" h 8" w)
Turret Face Dimensions Style P.....	(3 1/2" h 3 1/8" w)	(4 1/2" h 3 1/8" w)	(4 3/4" h 4 3/8" w)	(4 3/4" h 4 3/8" w)	(5 1/2" h 5 1/8" w)	(5 1/2" h 5 1/8" w)	(7" h 5 1/8" w)	(7" h 5 1/8" w)	(7 1/2" h 6 7/8" w)	(7 1/2" h 6 7/8" w)	(7 1/2" h 6 7/8" w)	(10" h 8" w)

h—high w—wide

Bed Turrets



MANY shops haven't sufficient work of a nature to warrant the large investment necessary to install an expensive turret lathe. Even the largest shops, for certain classes of work, can most advantageously use an engine lathe with turret on bed, in connection with the regular lathe tool in compound rest, or with one of our types of carriage turrets.

The advantages of a lathe thus convertible from engine lathe to turret lathe, or vice versa, are many and will at once appeal to the prospective buyer.

Our line of bed turrets is made adaptable to any size lathe of other make, as well as our own.

ALL bed turrets are made automatic revolving and with automatic independent feed stop for each face of the turret, arranged for either hand or power feed.

When power feed is furnished, the drive is from a pulley on the rear end of the lead screw, to the feed rod at the back of the bed.

The power feed disengages automatically by a trip, which stops within a reasonable degree of accuracy, but the automatic trip is supplemented by a positive stop, which enables the operator to finish lengths accurately to .001".

The turret head is hexagonal in shape and revolves automatically when the turret slide is drawn back by the pilot wheel.

A supplementary lever permits of the index locking pin being withdrawn by hand, so two or more alternate tools can be swung into position without having to make a complete revolution of the turret.

The locking pin, index ring, revolving dog and pins, are all made of tool steel, hardened and ground. The locking pin is fitted with an adjustable taper gib.

THE Turret Base takes bearing upon the inner shears of the bed. Eccentric clamps, located at either end, serve to hold the turret in any desired position on the bed.

The top slide is of ample width and depth, forming a rigid support for the revolving head. It slides in a dovetailed type of bearing, having adjustable taper gibs. This construction has fewer bearing surfaces, a truer bearing is maintained and adjustments for wear are more readily made.

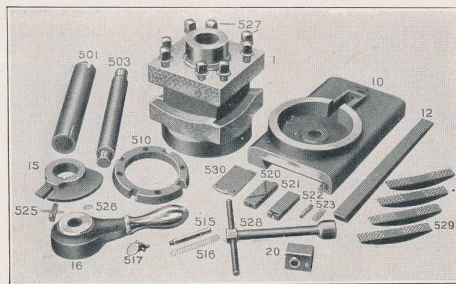
THE Automatic Independent Feed Stop is contained in the turret slide. It consists of a horizontal shaft, located in the turret slide, taking its movement from the revolving turret head. This shaft, in turn, carries a disc in which is located a series of adjustable stop screws, corresponding to the number of faces on the turret. By the revolving of the turret, these screws are brought into consecutive position to trip the feed dog, at any desired point, for each face of the turret.

BED TURRET DIMENSIONS

Size.....	12"	14"	16"	18"	20"	22"	24"	26"	28"	32"	36"	38"
Width of Turret from face to face.....	8 1/2"	8 1/2"	11 1/2"	11 1/2"	12 1/2"	12 1/2"	15 1/2"	15 1/2"	17 1/2"	17 1/2"	17 1/2"	22"
Turret Face Dimensions.....	(4 7/8" w 3 1/8" h)	(4 7/8" w 4 3/8" h)	(6 3/8" w 5 1/4" h)	(6 3/8" w 6 3/8" h)	(7 3/8" w 6 3/4" h)	(7 3/8" w 7 3/8" h)	(8 1/8" w 6 1/8" h)	(8 1/8" w 7 1/8" h)	(10" w 7 1/8" h)	(10" w 9 3/4" h)	(10" w 9 3/4" h)	(12 5/8" w 10" h)
Holes in Turret (or as desired).....	1"	1"	1 3/4"	1 3/4"	2"	2"	2"	2"	2 1/2"	2 1/2"	2 1/2"	3"
Center of Turret Holes to Top of Slide.....	1 1/4"	2 1/4"	2 3/4"	3 3/8"	3 11/16"	4 11/16"	3 1/8"	4 1/8"	4 1/8"	6 1/4"	6 3/4"	5 5/8"
Length and Width of Slide.....	26"x 8 3/4"	26"x 8 3/4"	32"x 11 1/4"	32"x 11 1/4"	36"x 12 1/2"	36"x 12 1/2"	38"x 15 1/4"	40"x 17 1/4"	40"x 17 1/4"	40"x 17 1/4"	40"x 17 1/4"	50"x 21 1/2"
Length of Base.....	18"	18"	21"	21"	24"	24"	24"	24"	24"	24"	24"	30"
Length of Turret Feed (maximum).....	9"	9"	12"	12"	15"	15"	15"	16"	16"	16"	16"	20"
Feed of Turret Slide to One Turn of Feed Rod.....	.022"	.022"	.027"	.027"	.027"	.027"	.037"	.027"	.037"	.037"	.037"	.038"

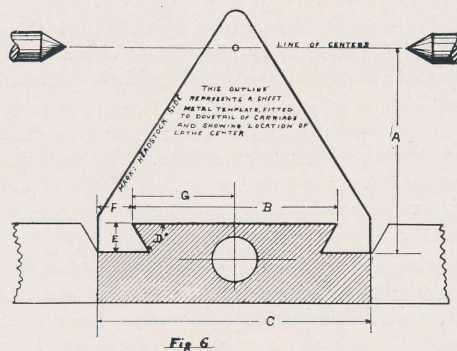
h—high w—wide

Carriage Turret Assembly



- | | |
|----------------------------|--------------------------|
| 1 Head | 517 Revolving Lever Pawl |
| 10 Base | 520 Lock Pin |
| 12 Gib | 521 Lock Pin Gib |
| 15 Revolving Cam | 522 Lock Pin Gib Screw |
| 16 Revolving Handle | 523 Lock Pin Gib Spring |
| 20 Cross Feed Nut | 525 Revolving Cam Pawl |
| 501 Revolving Stem | 526 Revolving Cam Spring |
| 503 Revolving Spindle | 527 Binder Screw (8) |
| 510 Index Ring | 528 Binder Wrench |
| 515 Revolving Lever Pin | 529 Rocker Chip |
| 516 Revolving Lever Spring | 530 Dust Cover |

STRICT compliance with the following suggestions will facilitate a correct understanding of orders.



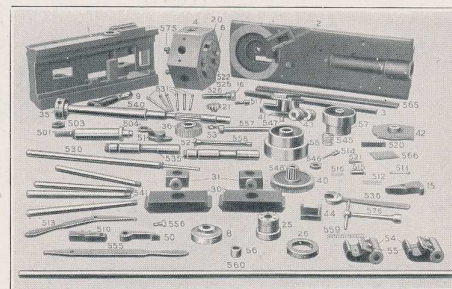
In ordering carriage turrets, specify style as designated on preceding pages and give the following dimensions:

- | | |
|--------|--------|
| A..... | E..... |
| B..... | F..... |
| C..... | G..... |
| D..... | |

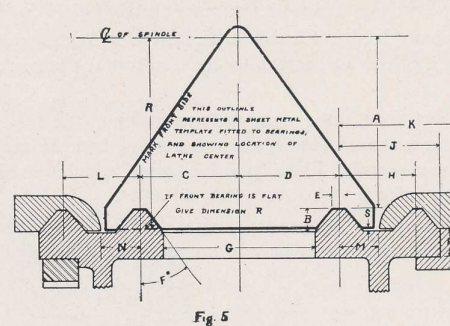
Note—A sheet metal template filed out to fit the dovetail of carriage, for carriage turrets and shears of the bed, for bed turrets, is the surest method of insuring a fit.

Note—Holes in turret heads, both carriage and bed turrets, are rough bored only, with allowance of about $\frac{1}{4}$ inch to finish. The turret holes must be finished on the lathe to which they are fitted, to insure perfect alignment. We can loan tools for this purpose.

Bed Turret Assembly



- | | |
|-----------------------------|---------------------------------|
| 1 Base | 511 Lock Pin Stem |
| 2 Slide | 512 Lock Pin Spring |
| 3 Slide Gib | 513 Lock Pin Trip Lever |
| 4 Head | 514 Lock Pin Trip Lever Support |
| 6 Head Bushing | 515 Lock Pin Trip Pin |
| 8 Head Washer | 516 Lock Pin Trip Pin Spring |
| 9 Head Clamp Handle | 517 Lock Pin Trip Lever Stud |
| 11 Revolving Dog | 518 Lock Pin Stud |
| 16 Revolving Dog Knob | 520 Lock Gib |
| 20 Bevel Gear | 521 Lock Gib Adjusting Screw |
| 21 Bevel Pinion | 522 Lock Ring |
| 25 Stop Sleeve | 525 Revolving Pin |
| 26 Stop Ring | 526 Revolving Dog Stem |
| 30 Binder Strap | 530 Stop Shaft |
| 31 Binder Strap Block | 531 Stop Screw |
| 35 Pilot Hub | 535 Binder Shaft |
| 36 Pilot Gear | 536 Binder Wrench |
| 40 Worm Gear | 540 Pilot Shaft |
| 41 Worm Gear Case | 541 Pilot Arm |
| 42 Worm Gear Case Cover | 545 Worm |
| 43 Worm Gear Case Bushing | 546 Worm Thrust Washer |
| 44 Worm Oil Cup | 547 Worm Gear Shaft |
| 50 Feed Stop Lever Latch | 548 Worm Gear Pinion |
| 51 Feed Stop Dog | 555 Feed Stop Lever |
| 52 Feed Stop Dog Slide Knob | 556 Feed Stop Lever Stud |
| 53 Feed Stop Handle | 557 Feed Stop Shaft |
| 54 Feed Rod Bearing | 558 Feed Stop Dog Slide Shaft |
| 55 Feed Rod Bearing Clamp | 559 Feed Stop Spring |
| 56 Feed Rod Collar | 560 Feed Rod |
| 57 Feed Cone (Feed Rod) | 565 Slide Rack |
| 58 Feed Cone (Lead Screw) | 566 Slide Dust Cover |
| 501 Stem | 575 Tool Binder Screw |
| 503 Stem Nut (Upper) | 576 Tool Binder Wrench |
| 504 Stem Nut (Lower) | |
| 510 Lock Pin | |

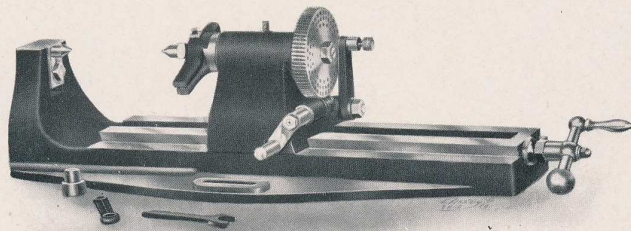


In ordering Bed Turrets, specify whether hand or power feed is required and give the following dimensions:

- | | | | |
|-----------------------------|--------|--------|--------|
| A..... | E..... | J..... | N..... |
| B..... | F..... | K..... | P..... |
| C..... | G..... | L..... | R..... |
| D..... | H..... | M..... | S..... |
| Length of carriage arm..... | | | |

For power-feed turrets, give length of bed. We furnish feed rod and bearings.

Index Centers



8-Inch Shaper Centers

Code word "LOTUS"

THESE SHAPER CENTERS are provided with a movable headstock, operated by means of a screw and ball handle, giving a variation of eighteen inches between centers.

THE INDEX feature is obtained by three circles of holes, accurately spaced in the worm wheel, and a suitable index pin to engage with same. The work is revolved by means of a worm and gear. The handle that operates same is provided with an index pin engaging with a hole in side stock, thus enabling work to be spaced any division of the worm wheel which has 72 teeth.

THE TAIL CENTER is inserted in a block, adjustable up and down, for convenience in planing bevels and tapers.

SPECIFICATIONS

Swing	8 inches
Index Plate Divisions	20-33-35
Maximum Distance between Centers	18 inches
Number of Teeth in Worm Gear	72
Spindle Chucked Morse Taper No.	2
Distance between Centers of Binding Bolts	10 $\frac{3}{4}$ inches
Weight Boxed	100 lbs.

Planer Centers

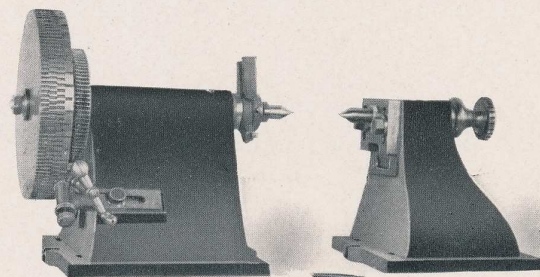
Built in three sizes 13 inch 20 inch 36 inch
Code word "LUZON" "LIPTO" "LUXIR"

THESE CENTERS are provided with an improved index, consisting of circular plates or disks of large diameter, which are accurately cut with notches, giving a wide range of divisions.

THE INDEX PLATES being cut through like a gear tooth, allow the use of a much stronger form of pin than is possible with a drilled index. The work, together with the index, is revolved by means of a worm and gear, which can readily be disengaged when not required.

TONGUES are inserted in the bottom of head and tail stocks, which can readily be taken out and fitted to the slot in any planer, by planing or filing off one side, without destroying the alignment.

THE TAIL STOCK CENTER is inserted in a block, adjustable up and down, for convenience in planing bevels or tapers.



SPECIFICATIONS

Swing	13 in.	20 in.	36 in.
Index Plate Divisions	$\left\{ \begin{array}{l} 44 \\ 44 \\ 52 \\ 56 \\ 90 \\ 96 \end{array} \right\}$	$\left\{ \begin{array}{l} 48 \\ 110 \\ 126 \\ 140 \end{array} \right\}$	$\left\{ \begin{array}{l} 48 \\ 84 \\ 180 \end{array} \right\}$
Diameter of Index Plates	7 $\frac{1}{4}$ in.	12 in.	18 in.
Thickness of Index Plates	$\frac{5}{16}$ in.	$\frac{7}{16}$ in.	$\frac{5}{8}$ in.
Number of Teeth in Worm Gear	64	90	120
Spindles Chucked Morse Taper No.	2	3	5
Width of Tongue on Bottom	$\frac{15}{16}$	$\frac{15}{16}$	1 $\frac{1}{8}$
Weight Boxed	95 lbs.	210 lbs.	800 lbs.

MANUFACTURED
BY

FAY & SCOTT

DEXTER, ME.
U. S. A.

Mar. '19-5M

MACHINE



TOOLS

ARMSTRONG LATHE TOOL SETS

A STRONG, EFFICIENT, CONVENIENT AND ECONOMICAL SYSTEM OF
HIGH SPEED LATHE TOOLS

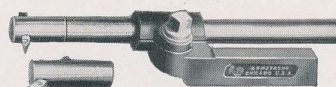


LEFT HAND
TURNING TOOL

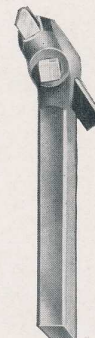
The saving in time, steel and annoyance effected by Armstrong Tool Holders can hardly be overestimated. They save all forging and most of the grinding as well as much time lost by men going to the tool dresser while their machines stand idle. No stock of heavy tool steel need be carried, and points of various shapes can be kept on the lathe or in the tool room ready for instant use.



STRAIGHT SHANK TURNING TOOL



BORING TOOL



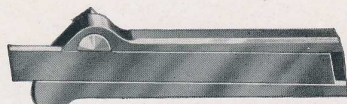
RIGHT HAND
TURNING TOOL



LEFT HAND OFF-SET SIDE TOOL



LEFT HAND OFF-SET CUT-OFF TOOL

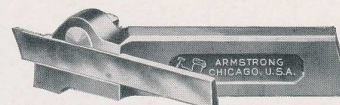


STRAIGHT SHANK CUT-OFF TOOL

"Big Ten" Tool Holder Set

This set includes the ten tools shown and is so complete as to cover the entire range of lathe work and to render entirely unnecessary the forging of tools with the attendant waste of time and material. Each Holder is equipped with Wrench and one High Speed Cutter.

Set No.	Size of Tool Shanks Inches	For Lathes (See Note)	Weight of Set Pounds
00	$\frac{5}{16}$ x $\frac{3}{4}$	7 to 10 In. Swing	6 $\frac{1}{2}$
0	$\frac{3}{8}$ x $\frac{7}{8}$	10 to 12 In. "	8 $\frac{1}{2}$
1	$\frac{1}{2}$ x $1\frac{1}{8}$	14 to 16 In. "	17
2	$\frac{5}{8}$ x $1\frac{3}{8}$	16 to 18 In. "	27
3	$\frac{3}{4}$ x $1\frac{5}{8}$	18 to 20 In. "	43
4	$\frac{7}{8}$ x $1\frac{3}{4}$	24 to 36 In. "	62
5	1 x 2	36 to 48 In. "	91



RIGHT HAND OFF-SET SIDE TOOL



RIGHT HAND OFF-SET CUT-OFF TOOL

"Handy Five" Tool Holder Set

This set includes the five lathe tools which are constantly used on ordinary work—Straight Shank Turning Tool, Boring Tool, Threading Tool, Right Hand Off-set Cutting-off Tool and Right Hand Off-set Side Tool. Each Holder is equipped with Wrench and one High Speed Cutter.

Set No.	Size of Tool Shanks Inches	For Lathes (See Note)	Weight of Set Pounds
00-F	$\frac{5}{16}$ x $\frac{3}{4}$	7 to 10 In. Swing	4
0-F	$\frac{3}{8}$ x $\frac{7}{8}$	10 to 12 In. "	5
1-F	$\frac{1}{2}$ x $1\frac{1}{8}$	14 to 16 In. "	9 $\frac{1}{2}$
2-F	$\frac{5}{8}$ x $1\frac{3}{8}$	16 to 18 In. "	16
3-F	$\frac{3}{4}$ x $1\frac{5}{8}$	18 to 20 In. "	25
4-F	$\frac{7}{8}$ x $1\frac{3}{4}$	24 to 36 In. "	37
5-F	1 x 2	36 to 48 In. "	53



THREADING TOOL

NOTE—As there is a wide variation in the proportions of lathes of different manufacture, it is only possible to give approximate size or swing of lathes adapted to the use of tools of different sizes. Tool posts should be carefully measured before ordering tools.



Armstrong All Steel Lathe Tool Cabinet

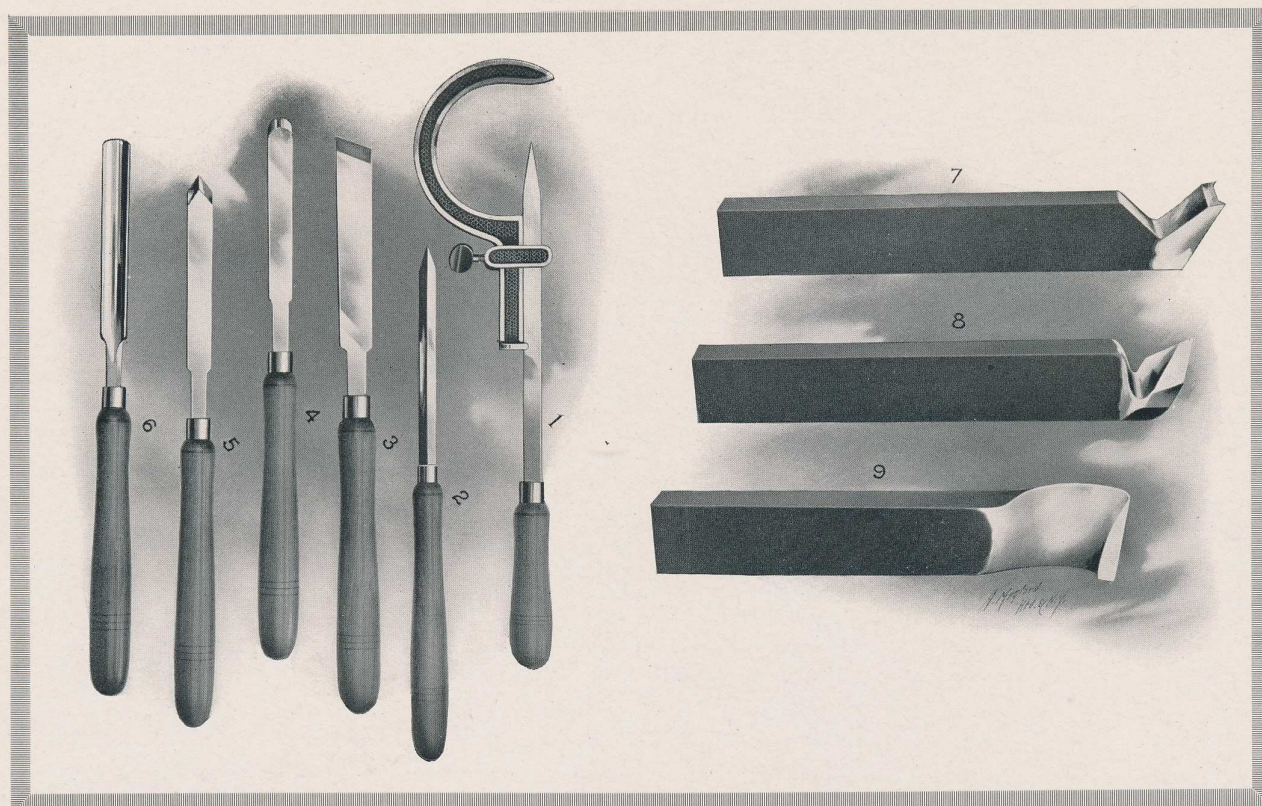
Especially adapted for Armstrong Lathe Tool Sets. These handsome cabinets will not only add much to the systematic and orderly appearance of the shop but they will save much time ordinarily wasted in hunting mislaid tools, etc., as each man's tools, lathe equipment, waste, etc., are kept together compactly and within easy reach. They also conform with the modern shop practice of replacing wood with non-combustible materials and furnish permanent, separate and safe receptacles for both clean and oily waste.

No.	Dimensions	Suitable for Lathe Tool Sets	Weight
0-1	18 x 16 x 34 Inches	Nos. 00, 0 and 1	105 lbs.
2-3	21 x 19 x 34 "	" 2 and 3	120 "
4-5	24 x 22 x 34 "	" 4 and 5	143 "

SOLD BY

FAY & SCOTT
Dexter, Me., U. S. A.





Wood Turning Tools

FOR USE WITH FAY & SCOTT PATTERN MAKER'S LATHES

These tools are forged from best quality Tool Steel, by the most skilled workmen; finely tempered and sharpened ready for use. They are guaranteed to be perfect in material and workmanship.

AMATEUR SET N. 10 TOOLS.

Suitable for 12" Lathes or School purposes.

Consists of the following:

2 Turning chisels, $\frac{1}{2}$ " , 1" . . .	Figure 3
2 Turning gouges, $\frac{3}{8}$ " , $\frac{3}{4}$ " . . .	" 6
1 Cutting-off tool,	" 2
2 Round point tools,	" 4
2 Spear points,	" 5
1 Sizing tool,	" 1

SET K. 14 TOOLS.

Consists of the following:

3 Turning chisels, $\frac{1}{2}$ " , 1" , $1\frac{1}{2}$ " . .	Figure 3
3 Turning gouges, $\frac{3}{8}$ " , $\frac{3}{4}$ " , $1\frac{1}{2}$ " , .	" 6
2 Cutting-off tools, $\frac{1}{2}$ " , $\frac{3}{4}$ " , . . .	" 2
2 Round point tools, $\frac{3}{8}$ " , $\frac{3}{4}$ " , . . .	" 4
2 Spear point tools, $\frac{3}{8}$ " , $\frac{3}{4}$ " , . . .	" 5
2 Sizing tools,	" 1

SET A.

Consists of one each of Figures 7, 8 and 9, with $\frac{1}{2}$ " x 1" shanks to fit 12", 16" and 18" P. M. Lathes.

SET B.

Consists of one each of Figures 7, 8 and 9, with $\frac{5}{8}$ " x $1\frac{1}{4}$ " shanks to fit 20" and 24" P. M. Lathes.

SET C.

Consists of one each of Figures 7, 8 and 9, with $\frac{3}{4}$ " x $1\frac{1}{2}$ " shanks to fit 30", 36" and 42" P. M. Lathes.

SET H. 10 TOOLS.

Suitable for Pattern Makers.

Consists of same list of tools as Set N, but are longer.

MANUFACTURED
BY

FAY & SCOTT

DEXTER, ME.
U. S. A.

Aug. '19-4M



Circular No. 16