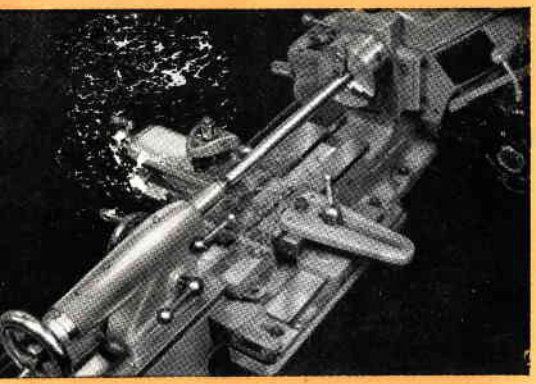

Nr. S713B

# HIGH SPEED
# SUPER SEVEN
## 3½" Centre Lathe

Myford

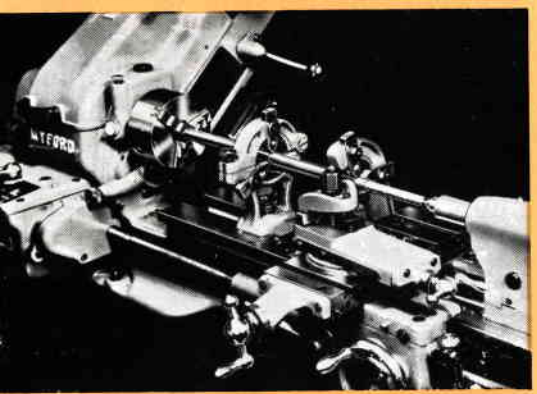


## TAPER TURNING

A machined facing is provided for the 1629 Taper Turning Attachment. Four mounting positions cover full distance between centres.

## REAR TOOL POST

The long Cross slide provides ample capacity between the Top slide and the No. 1468 Rear Tool Post, which can be left always ready for parting off, forming, etc.



## STEADIES

The 1412 Fixed Steady and 1413 Travelling Steady are almost indispensable for drilling and centring long shafts, and for turning long slender spindles.

MYFORD


# ACCESSORIES

## ILLUSTRATED

| | |
|---|---|
| **1407** | Circular Saw Table, with spindle and saw 5 in. diameter. |
| **1431** | Saw for Metal, 5 in. diameter. |
| **1432** | Saw for Wood, 6 in. diameter. |
| **1483** | Multi-stop for use with 1408 Turret Attachment. |
| **MA.67/1** | Vertical Slide, plain type. |
| **MA.68/2** | Vertical Slide, swivelling type. |
| **MA.74** | Vee Block, 4 in. x 2 in. x 1½ in. Also **MA.73** Vee Block, 3 in. x 1½ in. x 1¼ in. |
| **DBE.227** | Angle Plate, 4 in. x 2¼ in. x 1⅞ in. Also **DBE.227B** Angle Plate, 6 in. x 2¼ in. x 2¼ in. and **MA.70** Angle Plate, 3 in. x 2 in. x 1½ in. |
| **1437** | Face Plate, 9 in. diameter. |
| **DBE.228** | Boring Bar, 13 in., with three H.S.S. cutters and cotter pin. |
| **1133A** | Arbor for Milling Cutters, having ½ in. bore. |
| **1414** | Hand Rest and Base for mounting to Lathe Bed (with either Tool Rest for Metal or Tool Rest for Wood). |
| **73/1957** | Extra Tool Rest for Metal for above. |
| **C.1027** | Extra Tool Rest for Wood for above. |
| **75/1248** | Hard Centre No. 2 M.T. |
| **75/1249** | Soft Centre No. 2 M.T. |
| **E.153** | Square Centre No. 2 M.T. |
| **E.154** | Half Centre No. 2 M.T. |
| **E.155** | Hollow Centre No. 2 M.T. (is also Shank for Drill Pads E.170 and E.171). |
| **A.1861** | Wood Prong Centre No. 2 M.T. |
| **E.169** | Fluted Centre, No. 2 M.T. |
| | ½ H.P. Electric Motors: state whether A.C. or D.C., exact voltage and phase when ordering. |

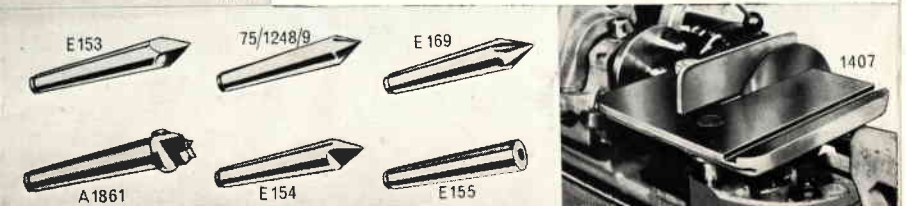
## NOT ILLUSTRATED

| | |
|---|---|
| **1435** | Tailstock Dieholder, with No. 2 M.T. Shank, size ⅱ in. Also size 20 mm. |
| **1436** | Tailstock Dieholder, with No. 2 M.T. Shank, size 1 in. Also size 25 mm. |
| **MA.2250** | Steel Drip Tray, with drain plug, enamelled Silver Metallic. |
| **1640** | Lever Operated Tailstock Attachment. |
| **1669** | Lathe Cover. |
| **A.1974A** | Fine Feed Tumbler Cluster Gear. |
| **1490** | Lubricating Oil (Quart Cans). |
| | Drum Type Reversing Switch and **A.1374** Bracket available for Bench Machine. |








# HIGH SPEED HEADSTOCK

The headstock bearing layout combines a tapered front journal running in a phosphor bronze bearing, and twin angular contact ball bearings at the rear with heavy thrust capacity. Due to its tapered form, the precision-ground case-hardened spindle possesses exceptional rigidity. Front bearing clearance is easily adjusted by screwed rings which move the spindle axially and, as set at the works, is suitable for the normal maximum speed of 2,150 r.p.m. The backgear is below the main spindle, which brings the backgear lever conveniently to the front of the headstock. The pulley lock on the Bull Wheel is by means of a small lever. The Bull Wheel has 60 teeth, a useful number for dividing purposes.

# BED

The bed is a box section casting, heavily ribbed to withstand torsion. The flat top shears present a large bearing surface, with consequent slow rate of wear. The gap permits turning and facing up to 10 in. diameter.

# TAILSTOCK

The tailstock is of the ejector type and is clamped to the bed by a lever-operated cam, no spanners being required. The graduated barrel operates in an extra long housing and the length of control even when fully extended is exceptional. A large diameter handwheel with ball thrust arrangement provides extremely smooth and frictionless operation. A multi-start feed screw gives a quick-action feed.

# CARRIAGE

Constructed on the narrow guide principle, the carriage is fitted with a Boring Table of great area and sufficient length of stroke to accommodate a Rear Tool Post. The Table is fitted with a heavy gib, adjustable in the normal way, but with locking screws to ensure solidarity. The topslide unit may be removed leaving the Table clear for attachments. Both Index Dials are of the friction-setting type.

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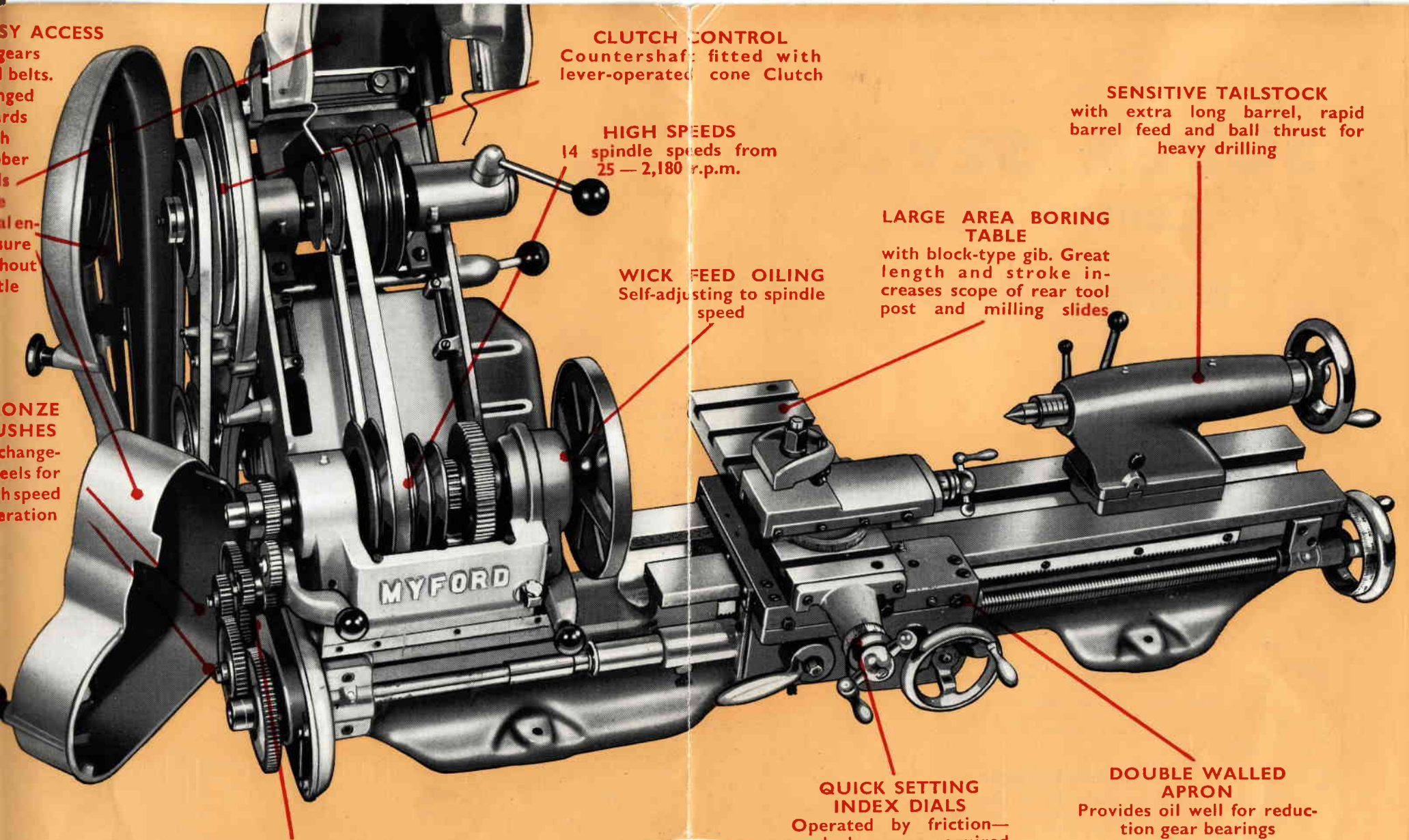
**CLUTCH CONTROL**
Countershaft fitted with lever-operated cone Clutch

**HIGH SPEEDS**
14 spindle speeds from 25 — 2,180 r.p.m.

**SENSITIVE TAILSTOCK**
with extra long barrel, rapid barrel feed and ball thrust for heavy drilling

**LARGE AREA BORING TABLE**
with block-type gib. Great length and stroke increases scope of rear tool post and milling slides

**WICK FEED OILING**
Self-adjusting to spindle speed




**QUICK SETTING INDEX DIALS**
Operated by friction— no lock screws required

**DOUBLE WALLED APRON**
Provides oil well for reduction gear bearings

**RAPID CHANGES.**
Changewheel studs designed for quick and easy setting

SUPER 7

**CAPACITY**
3½ in. x 19 in.

# HIGH SPEED LATHE

**SPEEDS**
25-2,150 R.p.m.

## DRIVE

The Super-7 has a built-in motorising unit and self-contained drive for either bench or cabinet mounting. The compact drive unit incorporates a lever-operated cone clutch. Speed changing is facilitated by lever-operated belt release and 14 speeds are available. Hinged guards, fitted with Neoprene anti-vibration pads, give total enclosure.

## CHANGE GEARS

The tumbler gears are pressure lubricated and made in "Tufnol" for silence. The steel intermediate pinion runs on roller bearings and the changewheels on bronze bushes. The studs are locked on the outer side of the banjo for rapid changes. The hinged guard gives complete protection and is designed to deflect swarf from the spindle bore to the outside of the guard thereby protecting the changewheels.

## LUBRICATION

Lubrication of the front journal is from a lubricator at the front of the bearing housing via spring-loaded wick. The apron design provides an oil well for the reduction gear bearings. "Oilite" self-lubricating bearings are fitted to the lead-screw brackets. Other points are pressure lubricated through oil nipples.

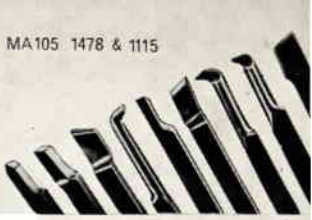
## CABINET STANDS

The heavy welded steel cabinet stand (No. 20/023) as illustrated on the back cover page, is equipped with deep tray, raising blocks, drum type reversing switch, terminal block and wiring (see Publication No. 724). Alternatively an industrial type stand can be supplied with large coolant tray, lock-up cabinet, provision for full electrics, built-in coolant service, etc. Details will be found on Publication No. 722. Coolant equipment is available for either cabinet.

## EXTRA EQUIPMENT

The Super-7 Lathe has been designed to utilise the extensive Myford range of attachments and accessories.






## ACCESSORIES

### ILLUSTRATED

| | |
|---|---|
| **1434** | Adaptor for mounting Headstock Chucks, etc., on Tailstock. |
| **E.170** | Drill Pad, plain, fits on **E.155** Hollow Centre. |
| **E.171** | Drill Pad, Vee, fits on **E.155** Hollow Centre. |
| **MA.105** | H.S.S. Slide Rest Tools, $\frac{5}{16}$ in. sq. sets of 8, |
| **1478** | H.S.S. Slide Rest Tools, $\frac{5}{16}$ in. sq. sets of 12. |
| **1115** | H.S.S. Slide Rest Tools, $\frac{3}{8}$ in. sq. sets of 12. |
| **MA.107** | H.S.S. Quick Setting Lathe Tools, $\frac{1}{2}$ in. sq. 12 types and Tool Boat, also **MA.108** $\frac{3}{8}$ in. sq. (see Publication No. 102). |
| **MA.71** | Machine Vice for use on Vertical Slide, Faceplate and Boring Table, supplied with loose jaw for gripping tapered work. |
| | 3-Jaw Self-Centring Chuck, with two sets of jaws, $3\frac{1}{4}$ in. and 4 in. |
| | 4-Jaw Independent Chuck, with reversible jaws; 4 in. and 6 in. light type. |
| | Drill Chuck, key type $\frac{3}{8}$ in. and $\frac{1}{2}$ in. capacity, with No. 2 M.T. Shank. |
| **1410** | Four Tool Turret, takes, $\frac{5}{16}$ in. sq. cutter bits. |
| **1031** | Patent Collets, No. 2 M.T. sizes $\frac{1}{16}$ in. to $\frac{1}{2}$ in. x 32nds—2 mm. to 13 mm. x $\frac{1}{2}$ mm., also special sizes to order. |
| **1438** | Nose Piece. |
| **A.1196** | Set of Four Bolts and Nuts, 6 in. long. |
| **A.1197** | Set of Four Bolts and Nuts, 3 in. long. Also **A.2422** Set of Four Bolts and Nuts, $1\frac{1}{8}$ in. long. |
| **1419** | Thread Dial Indicator. |
| **MA.85** | Lathe Carriers, sizes $\frac{1}{2}$ in., $\frac{3}{4}$ in., and 1 in. |
| **MA.86** | Face Plate Clamp, set of four $2\frac{1}{2}$ in. long. |

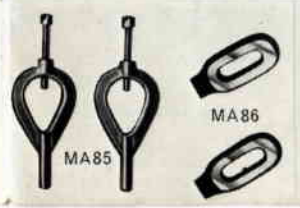
### NOT ILLUSTRATED

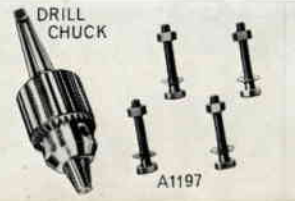
| | |
|---|---|
| **30.M** | 4 in.—3-Jaw G.S. Chuck, with threaded body. |
| **130.M** | 4 in.—3-Jaw G.S. Myford-Burnerd "Grip-tru" Chuck, with threaded body. |
| **34.M** | 6 in.—4-Jaw Independent Chuck, with threaded body. |
| | Chuck Backplates, comprehensive range available; state requirements when ordering |
| **1680** | Quick Change Gearbox, permits instant selection of 48 Threads and Feeds. (See Publication No. 711). |
| **1439** | Collet Closing Tube, for easy insertion and extraction from Nose Piece. (for **1031** Collets). |
| **1484** | Polished Hardwood Collet Case (for **1031** Patent Collets). |
| **60/007** | Safe Work Light for Lathe. |
| | Comprehensive range of extra Change wheels available. |









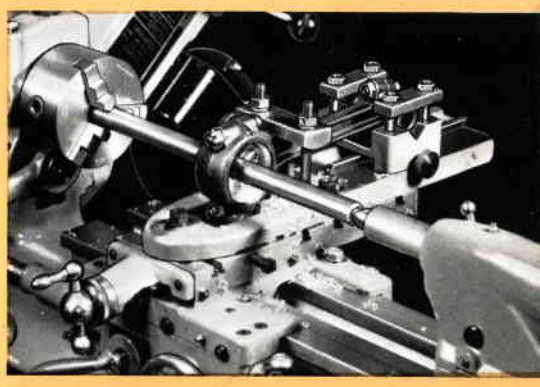




## GEAR CUTTING

The 2A.1495 Dividing Attachment together with MA.68/2 Swivelling Vertical Slide will cover most indexing requirements.

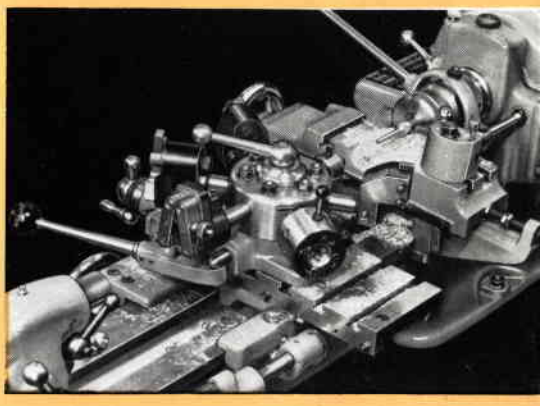
## BORING CON-RODS

Connecting rod big ends from approx. 1 inch to 2 inch dia. can be accurately bored with the help of 1609 Connecting Rod Boring Fixture.

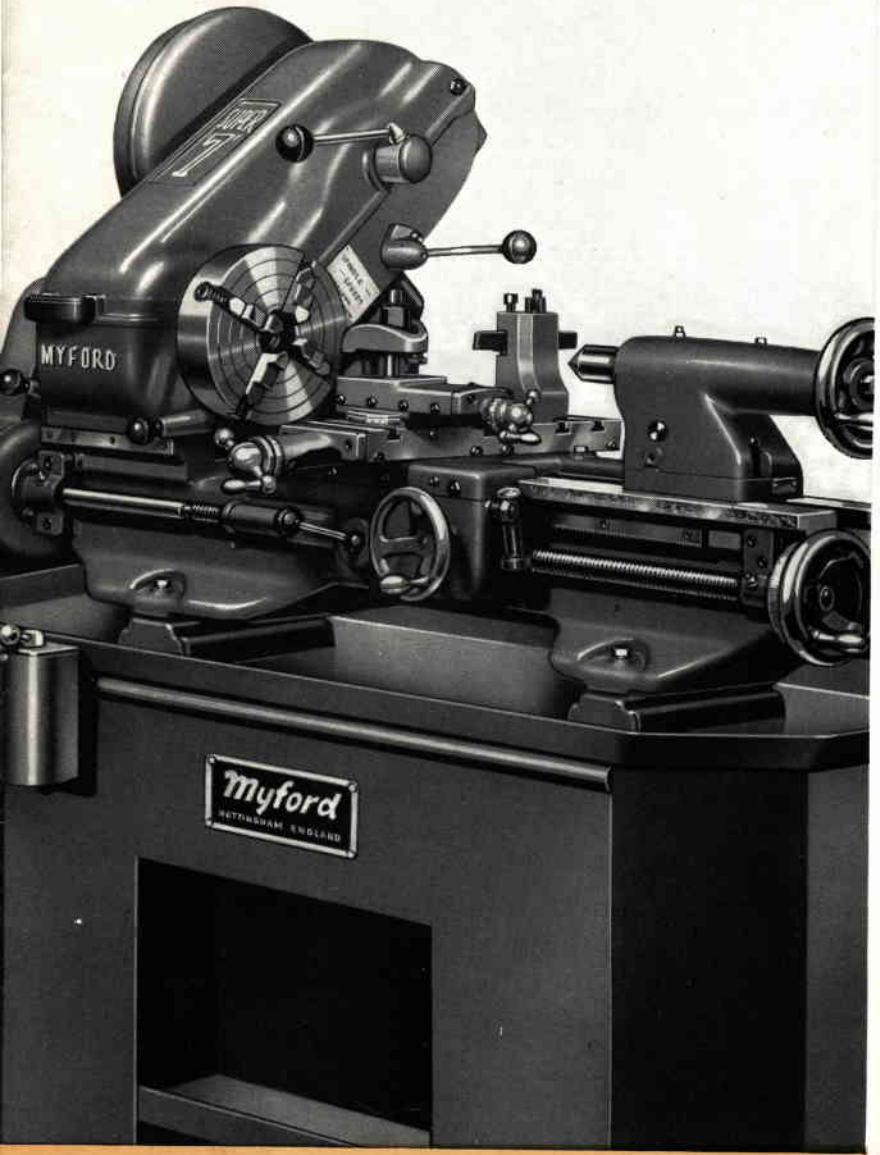


## REPETITION WORK

Can be greatly facilitated by the 20/066 Lever Operated Collet Chuck, 1458 Screw Operated, or 20/088 Lever Operated, Cut-off Slide and 1408 Manually Operated, or 20/068 Self-indexing, Six Station Turret Attachment.



# MYFORD




# FOR QUICK CHANGE LATHES

**See Publication 711**

*Printed in England* M/15M/6/69

## HIGH SPEED

# SUPER SEVEN

## Centre Lathe

## SPECIFICATION

| | |
|---|---|
| Distance between centres | 19 inch. |
| Swing over bed | 7 inch. |
| Swing in gap | 10 inch. |
| Swing over Boring Table | $4\frac{1}{8}$ inch. |
| Hole through Spindle | $\frac{19}{32}$ inch. |
| Spindle bored | No. 2 M.T. |
| Spindle speeds (with 1425 motor) | 25-2150 r.p.m. |
| Number of speeds | 14. |
| Boring Table travel | $6\frac{1}{4}$ inch. |
| Top Slide travel | $2\frac{3}{8}$ inch. |
| Leadscrew | $\frac{3}{4}$ in. dia. 8 T.P.I. Acme. |
| Tailstock barrel bored | No. 2 M.T. |
| Tailstock barrel travel | $2\frac{3}{4}$ inch. |
| Overall length | 3 ft. $10\frac{1}{5}$ inch. |
| Overall width | 2 ft. $3\frac{1}{5}$ inch. |
| Net weight (including motor) approx. | 245 lb. |
| Net weight on cabinet (inc. motor) approx. | 365 lb. |

**SUPER 7 Lathes can be supplied with a long bed admitting 31 in. between centres— details on request.**

A $\frac{1}{2}$ h.p. three phase or $\frac{3}{4}$ h.p. single phase 1425 r.p.m. motor is recommended. To ensure satisfaction a suitable motor can be fitted at the factory. State whether A.C. or D.C., exact voltage and phase.

### Standard Equipment

Faceplate, Catchplate, Backplate, 14 changewheels, spanners, oilgun, guards, centres, leadscrew handwheel, etc. (Note: Chucks, Rear Toolpost, Four Tool Turret, Thread Dial Indicator and motor not included).

*Designs and Specifications subject to change without notice. Illustrations not binding in detail.*


# MYFORD LIMITED

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