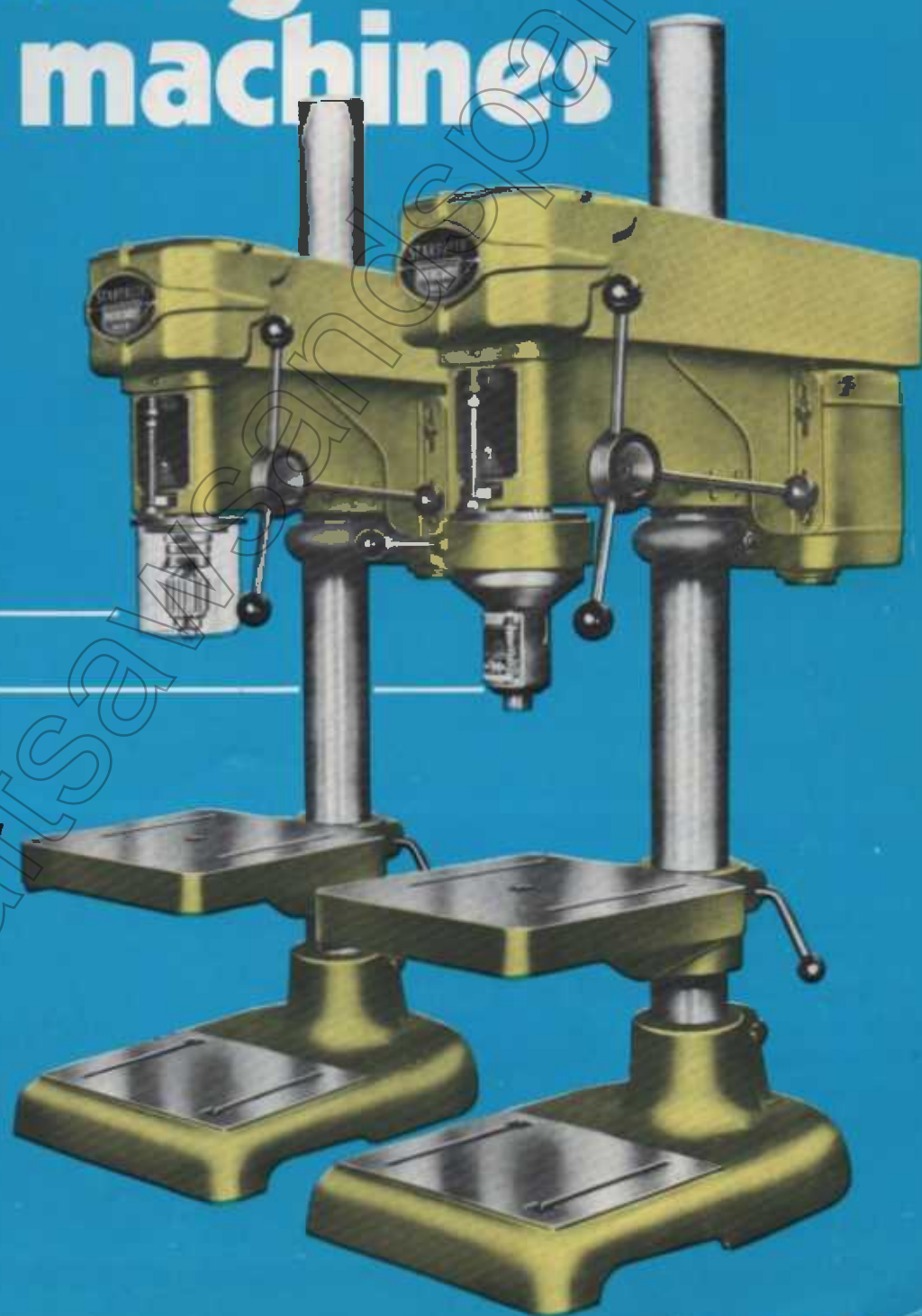


STARTRITE

MERCURY sensitive drilling machines



5 SPEEDS
drilling $\frac{1}{2}$ " capacity

10 SPEEDS
drilling, reaming,
tapping $\frac{3}{8}$ " capacity

www.startrite.co.uk

STARTRITE

Mercury 5 speed drilling 1/2" capacity



SP251 FLOOR MODEL

60" ground steel column and extra heavy base fully motorised for single or three-phase supply.



SP250 BENCH MODEL

30" ground steel column and heavy base fully motorised for single or three-phase supply.

Balanced 5-step pulleys; swing-away belt guard provides easy access for rapid speed change.
Pivoted chuck guard for easy removal of drills.
Head assembly stop collar.
Work table with vertical and radial adjustment.
Extra heavy accurately machined cast iron base.



TILTING TABLE

Robust tilting table with apron face and indexed at horizontal, 45° and 90° positions, table working surface 10" x 10 1/2". Available as optional extras.

5 SPEED QUILL

Positive vibration-free drive through six splined spindle.

Dual spiral tension springs eliminate small drill breakages.

Four ball journal bearings and one ball thrust race for continuous heavy duty drilling.

1/2" capacity chuck.

Mercury 10 speed

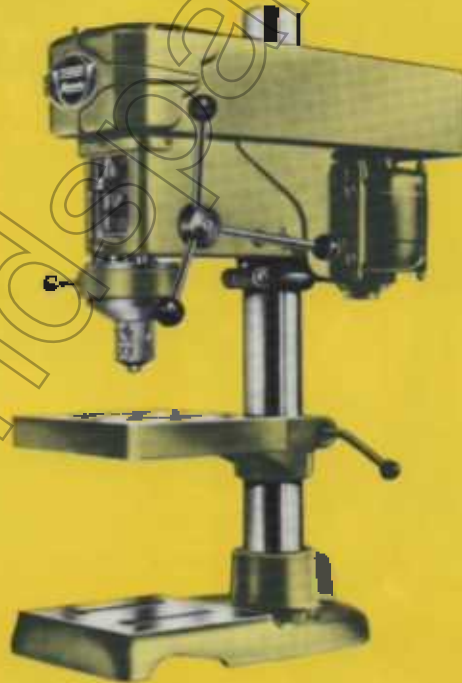
drilling reaming tapping $\frac{5}{8}$ " capacity



SP251/10 FLOOR MODEL

60" ground steel column and extra heavy base fully motorised for single or three-phase supply.

STARTRITE SPINDLE NOSE EPICYCLIC GEAR UNIT ensures maximum efficiency in operation as it provides a direct drive immediately over the tool station. It introduces a condition of increased torque at the spindle-nose and reduced upper spindle transmission loading. This ensures the same sensitive feed control featured on five speed models.



SP250/10 BENCH MODEL

40" ground steel column and heavy base fully motorised for single or three-phase supply.

10 SPEED QUILL

- Finger tip gear change.
- Ground spindle-nose.
- Precision cut gears.
- Seven ball journal bearings and one ball thrust race.
- No. 2 morse taper socket.



MULTI-HEAD MACHINES

Three basic sizes with adjustable tee-slot mounting for 2 to 6 Head Units with 5 or 10 speeds. Head lifting mechanism and coolant - optional. Ask for separate literature.

Constructional details

UK

Each and every Mercury is the result of more than 20 years experience in the development and manufacture of this type of machinery. Accurately built and designed to cover the full range of drilling operations the new 'Startrite' Mercury Drills are equally suitable for production line or general workshop hole producing. Their sturdy construction, balanced pulleys, six-splined spindle drive with four journal ball bearings and ball thrust collar at spindle nose ensure long accurate service under the most exacting conditions. Constructed as a portable and compact drill unit they can be positioned in assembly lines or alongside other machinery for second operations. HEAD UNIT is adjustably mounted and may be swung to any position around the column.

Carries spindle unit, driving pulleys and motor power unit.

SPINDLE precision ground, supported in ground cast iron quill carrying one ball thrust race and two ball journal bearings. Spindle is six-splined with drive through broached bronze sleeve. Spindle pulley is independently mounted on two ball bearings absorbing all thrust from belt transmission. Matched and balanced pulleys combined with six-splined floating drive eliminate all vibration. Enclosed spiral tension springs are fitted for quill return and head clamping gear is of compensating type.

DRIVE is taken from vertically mounted motor through balanced five-step vee belt pulleys housed under quick release belt guard. Motor platform is slide mounted and heavy type rotary starters fitted.

TABLE is a one-piece type with large working area.

BASEPLATE is well braced close grained iron casting providing adequate support to tubular ground column.

WORKMANSHIP & MATERIALS are of the highest class, carefully selected according to the duty incurred. Actuating levers and small parts are chrome plated or treated by an anti-rust process. Main components are excellently surfaced and treated with hammer finish stove enamel. All journal ball bearings are 'sealed for life' type and therefore maintenance is reduced to a minimum.

Specification

MODEL NUMBER		SP250	SP251	SP250/10	SP251/10
DRILLING CAPACITY		1/2"			3/8"
SPINDLE DIAMETER IN DRIVING PART		3/8"			1/2"
SPINDLE TRAVEL		3 3/4"			3 3/4"
MOTOR 0.37kW (1/2 HP) 1425 r.p.m. 50Hz (Cycles)	SPINDLE SPEEDS	530, 890, 1,430, 2,290, 3,830, R.P.M.		95, 165, 265, 430, 530, 720, 890, 1,430, 2,290, 3,830, R.P.M.	
MOTOR 0.5kW (3/4 HP) 940 r.p.m. 50Hz (Cycles)	SPINDLE SPEEDS	350, 590, 960, 1,540, 2,580, R.P.M.		65, 110, 180, 290, 350, 480, 590, 960, 1,540, 2,580 R.P.M.	
MAXIMUM DISTANCE CHUCK/SPINDLE TO TABLE		13 7/8"	42 3/8"	21 7/8"	40 1/2"
MAXIMUM DISTANCE CHUCK/SPINDLE TO BASE		19 1/4"	49 1/2"	27 1/4"	47 1/2"
DISTANCE COLUMN TO CENTRE OF SPINDLE		6 3/4"		6 3/4"	
COLUMN LENGTH (2 3/4" DIAMETER)		30"	60"	40"	60"
BASE WORKING SURFACE		8" x 8"	8" x 10"	8" x 8"	8" x 10"
TABLE WORKING SURFACE		8 3/4" x 8 3/4"		8 3/4" x 8 3/4"	
NET WEIGHT (APPROX.)		100 lbs.	130 lbs.	108 lbs.	138 lbs.

STANDARD EQUIPMENT

Belt and telescopic chuck guard, speeds and lubrication plate, motor, rotor starter, head stop collar, 1/4" chuck (SP250 and SP251 only), No. 2 M.T. spindle (SP250/10 and SP251/10 only).

OPTIONAL EQUIPMENT

Machine vice jaws 3 3/4" wide to open 2", No. 1 M.T. adaptor sleeve, sanding drum, mortising attachment, sanding disc, 0.5kW, 940 r.p.m. motor in lieu of standard unit, reversing switch, lighting equipment with flexible shaft reflector and bulb, low-volt light equipment, thermal overload no-volt release starter, tilting table, production table, cast iron pedestal stand.



Accurately machined production table, 14 1/2" x 12 1/2" with suds trough and tee slots; optional extra on all models.



Heavy duty cast iron pedestal stand; optional extra on floor models. Shown with production type table fitted.



FIVE SPEED DRILLS can be fitted with SP.150 MORTISING ATTACHMENT including chisel holder (chisel sizes 1/4" to 3/8") adjustable fence and clamp.