

## ATP S170 Register

### Bay 15

126	Departmental Grinder	15N 15E
127	Craven Brothers Pedestal Drill	15S 1E
130	BSA Centreless Grinder	15N 15W
137	Brown & Sharpe Universal Grinder	15S 7W
140	Cylindrical Grinder	15N 8-9E

**Total number of items: 5**

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NSWG inventory ID: 'No. 292 / NSWGR / Class LX'.

This small grinder is basically an adapted lathe. The lathe itself is about 4 metres long, 1 metre wide and stands about 1.5 metres high. It is regarded as an automotive lathe in that the feed of the tool head passed the work is automatically fed. It measures 360cm (L) x 130cm (W) x 155cm (H).

*Significance:*

This grinder is one of the component machines of the Eveleigh Railway Workshops Machinery Collection. It is primarily significant as one of the oldest surviving grinders in the workshops and being one of the surviving machines installed in the workshops prior to World War I. Like many other early machines, it has been adapted from a lathe to accommodate the specific needs of the workshops. It demonstrates the operation of the Workshops for the production of locomotives and locomotive components. The item is important to the understanding and interpretation of the overall Eveleigh Locomotive Workshops site.



Name plate: BSA TOOLS LTD / Birmingham / England.

NSWG inventory ID: No. 1360 / NSWGR / Class G.

TEGALEMIT / MADE IN ENGLAND / [ ] of 464.

The centreless grinder which is now missing the front and rear supports is a machine for grinding shafts. Rather than set the shaft between two centres on a lathe and grinding it smooth by moving a wheel against the turning shaft, centreless grinding involves supporting the shaft on a series of rollers and bringing it passed a spinning stationary grinding wheel. It is fitted with a Tegalemit oil filter.

*Significance:*

This Borer is one of the component machines of the Eveleigh Railway Workshops Machinery Collection. It is primarily significant as one of the surviving machines installed in the workshops in the mid-20th century. It demonstrates the operation of large-scale precision machinery in the Workshops for the production of locomotives and locomotive components. The item is important to the understanding and



Name plate: 'MW 10215' [cast in base].

NSWG inventory ID: NSWGR / 364 / Class G.

'Brooks Motors Ltd / Huddersfield / England / T107884W' [on motor].

This grinder is fitted with a small adjustable, pivoting table which has longitudinal and transverse travel and a grinding wheel above the table. A spare bed may have been swapped in and out. A Brooks Motors Ltd (Huddersfield, England) motor is attached. A number of items have been removed, including: a second wheel, a motor control box (removed from the base), other electrical cabling and protective guards. The bed is no longer attached. It measures 130cm (L) x 90cm (W) x 250cm (H).

*Significance:*

This grinder was constructed within the workshops using salvaged parts from other machines. It demonstrates the versatility of the workshops in the manufacture of tools and machines.



Name plate: 1) 'CRAVEN BROTHERS / LIMITED / 1899 / MANCHESTER' // 1) 'CRAVEN BROTHERS / LIMITED / No. 6204 / MANCHESTER'.

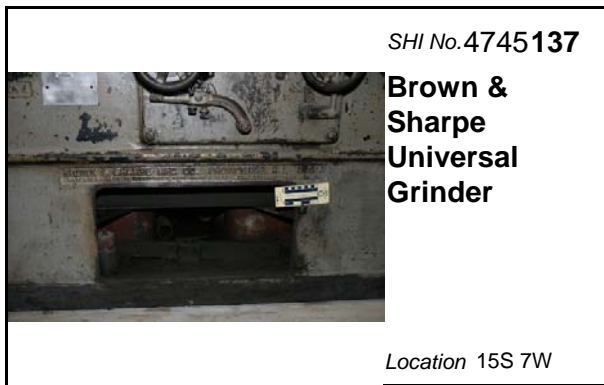
NSWG inventory ID: No. 31 / NSWGR / Class D.

The bed for the drill holds the pedestal which has a curved extension at the rear to hold the driving pulleys and two extensions at the front to hold the drill head. This is attached to a series of four variable speed pulleys at the bottom of the pedestal and an equivalent reverse set at the top rear of the pedestal. This four speed drill could be further modified by two gear trains attached to the driving and driven shafts of the driving head of the drill. The drill head itself was fixed except for limited drill travel and the slotted circular stockbed could be raised and lowered on the cast iron ways cut on the external surfaces of the pedestal. This drill measures 195cm (L) x 90cm (W) x 300cm (H). It rests on a concrete base.

*Significance:*

This Pedestal Drill is one of the component machines of the

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Name plate: 'BROWN & SHARPE MFG. CO. PROVIDENCE RI. USA // NO. 4 // PATENTED SEPT. 21 1897 . OCT 5 1897 . NOV 3 1892 . FEB 8 1908'.

NSWG inventory ID: 'No. 869 / NSWGR / Class G'.

'DO NOT SCRAP / PROP. OF / NATIONAL TRUST'.

This grinder consists of a cast iron frame and a complex grinding head which could be moved both through the horizontal and vertical planes. It measures 370cm (L) x 125cm (W) x 140cm (H). The bed measures 220 x 23cm.

*Significance:*

The Brown & Sharpe Universal Grinder is one of the component machines of the Eveleigh Railway Workshops Machinery Collection. It is primarily significant as one of the surviving machines installed in the workshops in the mid-20th century. It demonstrates the modification of machinery in the Workshops for the production of locomotives and locomotive components. The item is important to the understanding and interpretation of the overall Eveleigh Locomotive Workshops