



COBORN

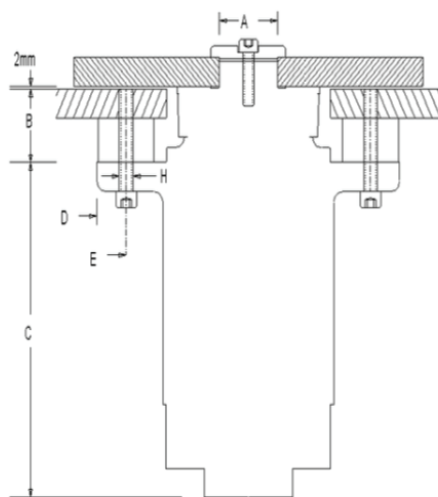
SKIVE SPINDLES

Coborn skive spindles are precision instruments for running diamond loaded skive plates, at high speed, and to a maintained accuracy.

- Allows use of open top benches, enhancing appearance of workshop and allowing easier operation.
- The whole shaft assembly, including drive rotor, is dynamically balanced (on one of Coborns highly acclaimed strobodynamic balancing machines) to gyro limits, resulting in the complete elimination of vibration.
- The spindles are sealed for life and require no attention during their many years of service.
- Integral motor eliminates use of belts, (a source of vibration and trouble).
- Extreme rotational accuracy, due to quality of manufacture and bearings.
- Single piece shaft, from a forging, gives maximum, not a screwed on cap.



With thousands on units throughout the world, the reputation of our skive spindles is second to none. Every Coborn spindle benefits from over fifty years experience of supplying all types of spindles to the machine tool industry. We believe, as do many of our customers, that Coborn spindles are of the highest quality commercially available worldwide.



Type	Power kW	D mm	E mm	H mm	B mm	C mm
KKFS*	2.2	254	209.55	T	76	285
KKF	2.2	254	209.55	P	51	310
KKS*	1.1	254	209.55	T	76	266
KK	1.1	254	209.55	P	51	266
KKAS**	2.2	415	400.00	R	22	362
KKBS**	1.1	415	400.00	R	22	362

(P= 13.4mm R=10mm T= 1/2 unc or 12mm to choice)

(* = Height adjustable)

(** = Height adjustable/Airflow as show in picture above)

(A= 50mm or 2" or Coborn taper) Electricity supply = 3ph/(volts-hz to customer choice).

COBORN EXPANDING NOSE SYSTEM

- A) If a skive plate has an oversize bore, then on a parallel nose, the plate can take a random position, (until the plate touches, one side of the bore to the nose). The resulting unbalance and vibration, of a 10kg skive, being 'off axis', can be of serious proportions. This can stop you achieving the quality of polish, that you will no doubt be seeking.
- B) Problems can also be experienced, when customers are mounting and dismounting skive plates, where there is a tight fit on the spindle nose. Once the skive plate has tipped to one side, it is difficult to remove without force. Excess force has resulted in damage to the bearings.

To provide a solution to the above two points we have introduced the **Coborn Expanding Nose System**, as an alternative fitment to the standard skive nose. This is a bronze ring split collet style, and located on a thread and taper. When lightly tightened by means of the pin spanner supplied, the bronze ring (which is approximately 0.015mm under nominal diameter) moves up the taper and expands to match the skive bore, thereby ensuring a snug fit on the bore of the skive plate.

Not only is this useful where bores of skive plates are tight, but the fact that it is undersize to start with makes the plates easy to mount, and were bores are slightly over-size it will expand to match, thereby pulling the plates onto their true axis.

The expanding nose can be supplied in either 50mm or 2" diameter.

This system replaces the standard integral nose register, once the plate is located it is secured by the engraved front cap and cap head screw