

UNIVERSAL BALANCING



Horizontal spindle balancers

Universal Balancing's range of horizontal spindle balancers are accurate and fast in operation, even when close plane separation is required. Ideal applications include fan/impellers and other parts without own shaft/bearing journals that require single (static) and 2-plane (dynamic) balancing.

Horizontal spindle machines are a hybrid of our standard vertical balancer. The precision machine spindle is mounted horizontally on a dynamic suspension; this allows ease of loading of parts on to balance arbours and expanding mandrels. The horizontal balancing axis allows access to both planes, so correction is ergonomic and, depending on the application, can even be automated. A spindle brake is fitted as standard to hold the spindle and part when correcting imbalance – this is particularly useful when grinding or drilling on the machine.

A vital part of any balance machine is the measuring system and our UNI-44 Windows-based touchscreen solution is a first choice for customers requiring a high specification easy to use accurate system. The UNI-25 digital instrument is a lower cost solution with the same accuracy, but less features (please see UNI-44 and UNI-25 brochures for more details).

Model	HS10D	HS50D	HS100D	HS200D	HS500D	HS1500D
Maximum component weight	10kg	50kg	100kg	200kg	500kg	1500kg
Maximum component diameter	300mm	600mm	800mm	1000mm	1200mm	1600mm
ISO 2953 Reduction Ratio	95%	95%	95%	95%	95%	95%
Accuracy-MU 60 runs @ 95% 2 standard deviations	5gmm	10gmm	15gmm	25gmm	50gmm	100gmm
Minimum two plane separation	40-120mm	50-200mm	50-250mm	75-300mm	100-400mm	150-600mm
Spindle centre line height	650mm	750mm	750mm	750mm	900mm	1100mm
Number of planes	1 or 2	1 or 2	1 or 2	1 or 2	1 or 2	1 or 2
Infinitely variable balancing speed	282-3000 RPM	282-1500 RPM	141-1500 RPM	141-1000 RPM	141-700 RPM	141-700 RPM
AC Motor Size	0.75Kw	1.5Kw	1.5Kw	4Kw	7.5Kw	11Kw
Voltage & phase. All 50-60Hz	380-480v 3ph	380-480v 3ph	380-480v 3ph	380-480v 3ph	380-480v 3ph	380-480v 3ph
Colour	Blue RAL5015	Blue RAL5015	Blue RAL5015	Blue RAL5015	Blue RAL5015	Blue RAL5015
Shipping weight (approx)	300kg	1000kg	1000kg	1000kg	TBC	TBC

