



Best Balance 2000

A vertical axis bench type tool balancing machine for balancing toolholders.

- Easy to use
- Easy to install
- Easy to learn

Characteristics

BEST BALANCE 2000 is a complete system ready to accept, by means of the available adapters, all types of toolholders. Specific balancing procedures make for an easy toolholder balancing operation.

The operator selects the step by step manual balancing procedure, on the user friendly menus. The system visualizes the value of the unbalance, and with a graphic indication, the position of the compensation masses.

The operator can easily define all the working parameters, and in particular the balancing method:

- Adding weight
- Displacement
- Drilling, grinding or milling
- Expansion rings
- Weighted screws

Benefits

- Faster cutting speeds (HSC)
 - Longer tool life
 - Better surface finish
 - Extended life of spindle & bearings
- Consistent production quality
- Safe and silent operation
- Failures prevention
- Flexible, easy to install and use

Characteristics	Value
Supply voltage	550 V
Supply Frequency	50-60 HZ
Max. power	0.3 KW
Unit of measurement of vibrations	gmm
Balancing planes	1
Balancing class (ISO 1940)	G1, G2.5, G6.3, G16
Vibration measurement repeatability	< 0.5 gmm
Max. size of the assembly to be balanced	diameter 190 mm height 325 mm
Mass of the tool holder+tool	max. 10 kg
Workplace lighting	Yes
Cone unlocking system	Yes
Spindle brake	Yes manual
Protection screen with electromechanical lock Mechanically locked	Lexan made
Balanceable adapters: - Cones ISO 30, 40, 50	optional
Balanceable adapters with locking system: - Cones HSK 50, 63, 100	optional
Operating temperature	0 ... 55°C
Operating relative humidity	max. 98%
Protection level	IP50
Graphic display	Backlit LCD 100 x 80 mm 320 x 240 pixels
Keyboard	Industrial soft touch
Printer Management on RS232	optional (40 rows Epson ESC/POS compatible)
System back-up on RS232-PC	optional
Selectable languages	English, French, Italian, German, Spanish
Max. dimensions (WxHxD)	805x768x382 mm
Total Weight	70 kg

* Specifications are subject to modifications





Best Balance 1000

Portable vibration measuring device for checking the vibrations caused by the tool, toolholder and spindle assembly with local correction of unbalance. The BEST BALANCE 1000 is a carry-on device which may be used to balance any rotating body - such as grinding wheels, pulleys, fans, rotors, etc. in the workshop.

Characteristics

BEST BALANCE 1000 consists of:

- Control panel with waterproof snap keyboard and graphic display
- Rack including the power supply, the measurement card, the serial RS232 interface for the connection of optional peripherals
- A vibrations transducer and a photoelectric sensor for speed detection, with magnetic fitting
- Reflecting paper and power supply cable

The case can be connected to the BEST BALANCE 2000 bench thus obtaining a manual tool room balancing machine. The operator can choose the unit of measurement of the unbalance and the communication language, from a total of five, to be guided during the measurement and correction procedure:

- The amount of the unbalance
- The phase of the unbalance
- The spindle speed
- The angular position of the corrections

The operator can easily define all the working parameters and in particular the balancing method:

- Adding weight
- Displacement
- Drilling, grinding or milling
- Expansion rings
- Weighted screws



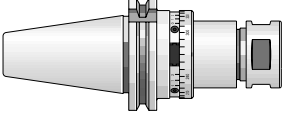
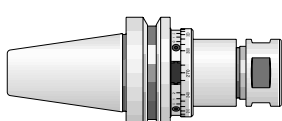
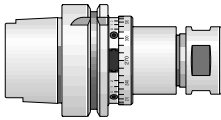
Benefits


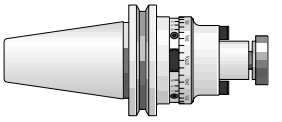
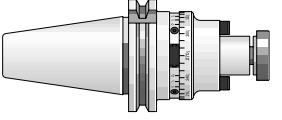
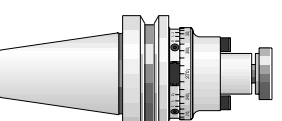
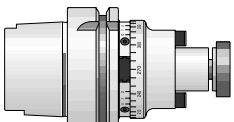
- Helps maintain vibrations within control limits achieving:
 - Faster cutting speeds
 - Longer tool life
 - Better surface finish
 - Extended life of spindle & bearings
 - Noise reduction
 - Breakage prevention
- Easy to use


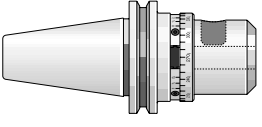
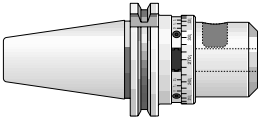
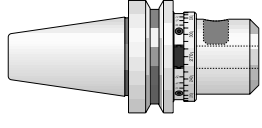
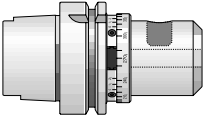
Characteristics	Value
Supply voltage	110-220
Supply frequency	50-60 Hz
Max. Power	50 W
Measurable rotation speed	max. 65000 rpm
Speed resolution	1 rpm
Unit of measurement of vibrations	mm/s, inch/s, μ m, mils
Vibration measurement resolution	0.01 mm/s, inch, μ m 0.001 mils
Position measurement resolution	0.1°
Balancing planes	1
Operating temperature	0 ... 55°C
Operating relative humidity	max. 98%
Protection level	IP50
Graphic display	Backlit LCD 100 x 80 mm 320 x 420 pixels
Printer management on RS232	optional (40 rows Epson EOS/POS compatible)
System back-up on RS232-PC	optional
Selectable languages	English, French, Italian, German, Spanish
Max. sizes (WxHxD)	380x310x160 mm
Weight with accessories	8.7 kg

* Specifications are subject to modifications



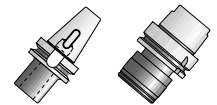
	TOPRUN Collet Chucks	Standard Length				Long Length				
		ER16	ER25	ER32	ER40	ER16	ER25	ER32	ER40	
	CAT V-Flange									
	40 Taper	X	X	X			X	X		
	50 Taper			X	X				X	X
	DIN 69871-A									
	40 Taper	X	X	X			X	X		
	50 Taper		X	X	X			X	X	
	MAS403 BT									
	30 Taper	X	X				X			
	40 Taper	X	X	X			X	X		
	50 Taper		X	X	X			X	X	
	HSK									
	40 Taper- Form E	X	X				X			
	50 Taper- Form E	X	X				X			
	63 Taper- Form A	X	X	X			X	X		
	80 Taper- Form A		X	X	X			X	X	
100 Taper- Form A		X	X	X			X	X	X	

	TOPRUN Shell Mill Holders	Inch				Metric (mm)					
		3/4"	1"	1 1/4"	1 1/2"	16	22	27	32	40	
	CAT V-Flange										
	40 Taper	X	X	X							
	50 Taper	X	X	X	X						
	DIN 69871-A										
	40 Taper						X	X	X	X	
	50 Taper							X	X	X	X
	MAS403 BT										
	30 Taper						X	X			
	40 Taper						X	X	X	X	
	50 Taper							X	X	X	X
	HSK										
	40 Taper- Form E						X	X			
	50 Taper- Form E						X	X			
	63 Taper- Form A	X	X	X			X	X	X	X	
	80 Taper- Form A							X	X	X	X
100 Taper- Form A							X	X	X	X	

	TOPRUN End Mill Holders	Inch					Metric (mm)								
		1/2"	5/8"	3/4"	1"	1 1/4"	6	8	10	12	16	20	25	32	40
	CAT V-Flange														
	40 Taper	X	X	X	X	X									
	50 Taper			X	X	X									
	DIN 69871-A														
	40 Taper Standard Weldon						X	X	X	X	X	X	X		
	40 Taper Whistle Notch										X	X	X		
	50 Taper Standard Weldon									X	X	X	X	X	X
	50 Taper Whistle Notch											X	X	X	
		MAS403 BT													
40 Taper Standard Weldon							X	X	X	X	X	X	X		
40 Taper Whistle Notch											X	X	X		
50 Taper Standard Weldon										X	X	X	X	X	X
50 Taper Whistle Notch												X	X	X	
		HSK													
	63 Taper- Form A Standard Weldon	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	63 Taper- Form A Whistle Notch											X	X	X	
	80 Taper- Form A Whistle Notch									X	X	X	X	X	
	80 Taper- Form A Standard Weldon											X	X	X	
	100 Taper- Form A Standard Weldon									X	X	X	X	X	X
	100 Taper- Form A Whistle Notch											X	X	X	

Other TOPRUN Precision Non-Balanceable Tools Available:

- Morse Taper Holders - BT40, BT50, DIN 69871-A40, DIN 69871-A50, HSK-A63, HSK-A80, HSK-A100
- Tapping Chucks - BT40, BT50, DIN 69871-A40, DIN 69871-A50, HSK-A63, HSK-A80, HSK-A100



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Available from:

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