

Dynamic Horizontal Balancing Machine

UHK13 .. 26



Applications

- Balancing of any shaft shaped rotors
 - with their own shaft journal
 - on an auxiliary shaft
 - as complete assemblies in a swing frame
- Rotor examples
 - Fans
 - Electric motor armatures
 - Pump rotors
 - Turbochargers
 - Grinding wheels
 - Press cylinders
 - Tool- and drive spindles
 - Compressor rotors
 - Separators / Centrifuges
 - Complete assemblies with their own drive

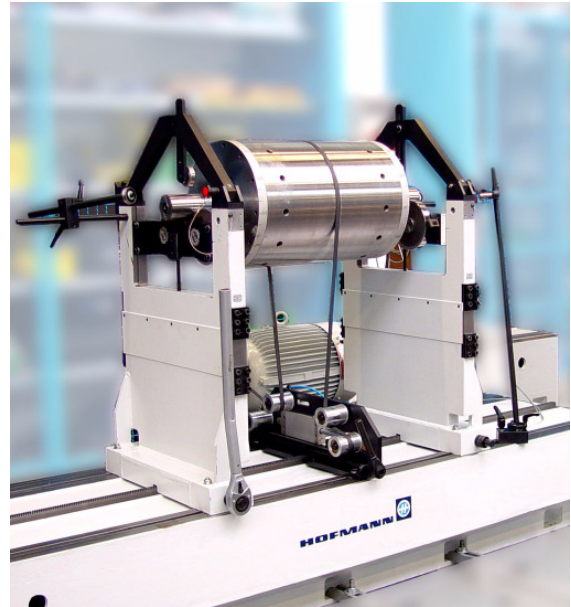
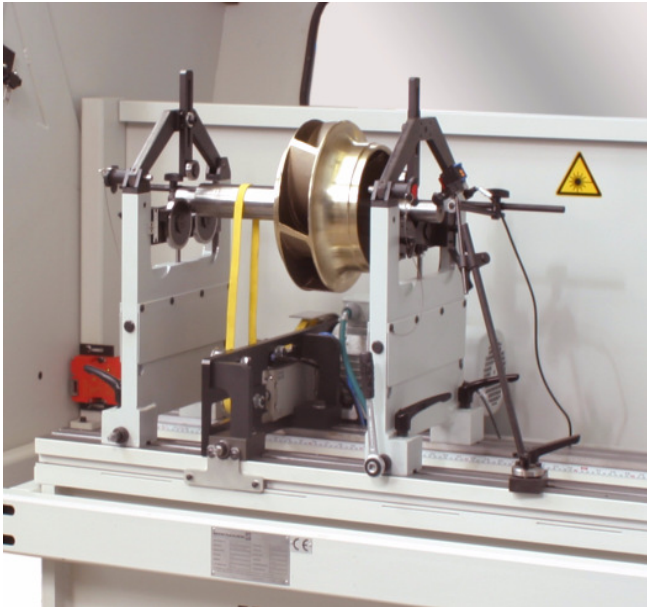
Description

- Hard-bearing horizontal balancing machine for measuring unbalance in two planes or separate measuring of static and couple unbalance
- Bearing pedestals and drive may be varied within the machine bed for other workpiece dimensions
- Belt- or shaftdrive
- Unbalance correction by adding weights or by removing material

Special features

- Bearing force control
- Bode-Plot for displaying unbalance and angle during acceleration
- Concentricity measuring for cylinders
- Unbalance correction units
- Safety units for safety classes according to ISO 7475
- Special bearing according to customers specification (plain bearing, angular roller bearing etc)
- Testing rotors according customers specification or ISO-2953- or SAE ARP 4162

Subject to change without notice!



Technical Data

UNIVERSAL machines for floor mounting

Belt drive	Typ	13	16	18	19	22	23	24	25	26
Max. rotor weight (overloading up to)	kg	100	150	300	700	1500	3000	5500	8000	12500
Max. weight per pedestal	kg	50	75	125	225	575	1150	2250	3400	5750
Min. rotor weight	kg	0,1	0,23	0,5	1	2	5	10	10	45
Max. diameter	mm	635	780	1270	1270	1200	1600	1750	1750	2400
Max. diameter with belt drive	mm	500	500	635	635	780	1200	1275	1275	1750
Max. length of rotor between centers of bearings	mm	810	1140	1900	1900	2280	2280	2700	2700	2700
Min. length of rotor between centers of bearings	mm	90	90	140	140	190	190	250	375	735
Bearing journal diameter ¹⁾	mm	5 - 40	10 - 140	10 - 140	10 - 140	10 - 140	10 - 300	10-300	10-300	10 - 558
Balancing speed	RPM	variable	variable	variable	variable	variable	variable	variable	variable	variable
Residual eccentricity	µm	0,25	0,25	0,25	0,25	0,25	0,25	0,25	0,25	0,25
Shaft drive										
Min. rotor weight	kg	--	5	5	5	7	7	20	20	70
Min. length of rotor between centers of bearings	mm	--	60	60	60	60	75	75	75	380
Balancing speed	RPM	--	60-1750	60-1750	60-1750	60-1750	60-1750	60-1750	60-1750	60-1750
Residual eccentricity	µm	--	0,38	0,38	0,38	0,38	0,38	0,38	0,38	0,38
Machine data										
URR	%	95	95	95	95	95	95	95	95	95
Driving power	kW	2,2	2,2	3	3	11	11	11	15	20
Mains supply	V/Ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
Air pressure	bar	5	5	5	5	5	5	5	5	5