

Safety class B, C Protective Equipment for Balancing Machines according to ISO 7475



- Modular design, easy to assemble
- Effective protection, construction conforming to CE requirements
- Adaptable for all machine sizes, also for many older balancing machines

A decisive factor in the selection of protective equipment is the danger the rotor presents. Related to this, the balancing speed, correction method and the worst-case penetration of parts or pieces that may break away, must be taken into consideration.

Available protection should be checked on a case-by-case basis to confirm that it is adequate for current requirements. This is because your rotor program may change over time.

In accordance with the different protection requirements, protective equipment for balancing machines is classified by ISO 7475 into five safety classes (0, A, B, C, and D).

Class 0

Are you balancing smooth-surfaced circular objects that can be touched or stopped by hand without danger? Then the danger potential of the rotor and correction type due to their mass, speed and surface properties is so low that the machine can be operated without extra protection.

Class A

If there is no danger from the rotor, but small parts such as chips or soft correction weights can be loosened, protection according to class A (e.g. face protection shield on the machine) is required.

Class B

A Class B protection device must be used when there is danger of contacting the rotor or parts of the drivesystem. Fans, bladed rotors or tooling fall into this category and require contact protection, such as a safety fence around the machine. Opening of the protective equipment must be inhibited while the rotor is spinning.

Class C

If you cannot rule out the possibility that parts of the rotor may come loose and break away, then protection class C is required. The penetration potential should be calculated from the size, shape, hardness and tangential velocity of the flying object. The correct protective equipment should be capable of safely stopping such parts.

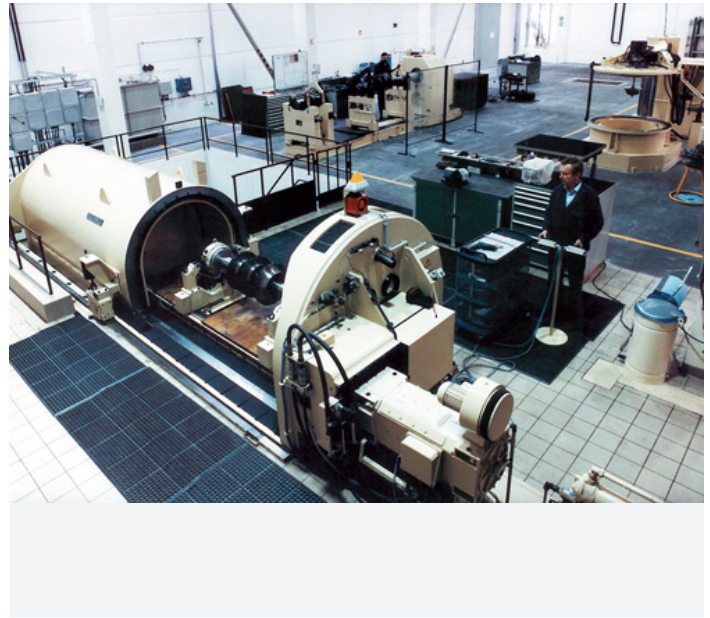
Class D

The highest protection class is required when the danger exists that the entire rotor could burst during the balancing procedure.

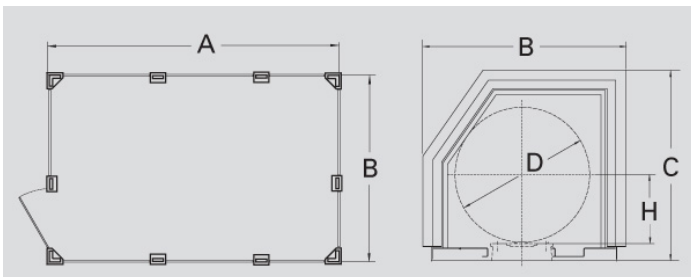
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Very good access to the rotor and machine is achieved with a protection class B enclosure. The protective fence permits simple adaptation to every space requirement.



Protection equipment can also be supplied for other applications on request. Bladed compressors are balanced at service speed and spun at over-speed. The horizontal protective equipment according to class D provides the necessary security should the rotor burst, and can be evacuated to reduce the demands on the drive system.



left: Protective device Class B, plan view right: Protective device Class C, side view

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Protective enclosures, class B		Bed length	Width A	Depth B	Height C	Type	Order No.
Machine HM ...	Machine HS ...	[mm]	[mm]	[mm]	[mm]		
	-	750	1650	2250	2000	B1	R0810100.01
2B, 20B, 3B, 30B	30	1500	2250	2250	2000	B2	R0810200.01
2B, 20B	-	2250	3150	2250	2000	B3	R0810300.01
4B, 40B	40	2000	3150	2700	2000	B4	R0810400.01
5B	-	2500	3750	2700	2000	B5	R0810500.01
50B	-	2500	3750	3600	2000	B6	R0810600.01
6B	-	3000	4200	3600	2000	B7	R0810700.01
60B	-	4500	5700	3600	2000	B8	R0810800.01
3U, 30U	-	2500	3150	2250	2000	B10	R0811000.01
4U, 40U, 5U	-	3000	4200	2700	2000	B11	R0801100.01
50U	-	3000	4200	3150	2000	B12	R0801200.01
6U	-	4500	5250	3600	2000	B13	R0801300.01
60U	-	6000	6750	3600	2000	B14	R0801400.01
		+600	600	-	2000	B15	R0800101.01
Extension module 1050		+1050	1050	-	2000	B16	R0800102.01
Extension module 1500		+1500	1500	-	2000	B17	R0800102.01

		Bed length	Width A	Depth B	Height C	Type	Order No.
Machine HM ...	Machine HS ...	[mm]	[mm]	[mm]	[mm]		
	30 - 40	1500	3552	2380	2230	H1-1	R0810100.01
		2000	3542	2380	2230	H1-2	R0810200.01
		2500	4527	2380	2230	H1-3	R0810300.01
		3000	5050	2380	2230	H1-4	R0810400.01
		3500	6050	2380	2230	H1-5	R0810500.01
		4000	6040	2380	2230	H1-6	R0810600.01
		4500	7025	2380	2230	H1-7	R0810700.01
		5000	7540	2380	2230	H1-8	R0810800.01
		5500	8525	2380	2230	H1-9	R0810900.01
		6000	9040	2380	2230	H1-10	R0811000.01
5B - 60U	-	2500	4527	2600	2650	H2-3	R0811100.01
		3000	5050	2600	2650	H2-4	R0811200.01

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3500	6050	2600	2650	H2-5	R0811300.01
4000	6040	2600	2650	H2-6	R0811400.01
4500	7025	2600	2650	H2-7	R0811500.01
5000	7540	2600	2650	H2-8	R0811600.01
5500	8525	2600	2650	H2-9	R0811700.01
6000	9040	2600	2650	H2-10	R0811800.01