

EASY GRINDING

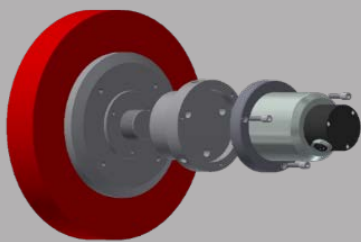
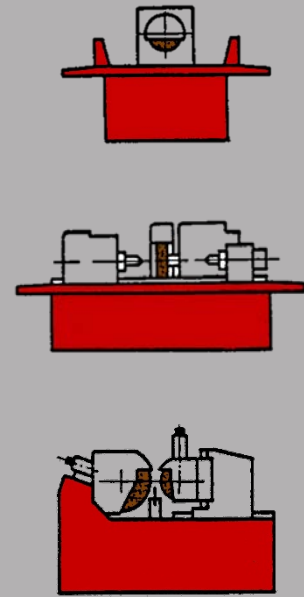


**...that everything
runs smoothly**

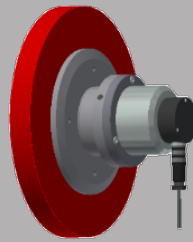
Balancing in HighTech-Precision

Automatic balancing at flat-surface and circular grinding machines

- The most cost-effective solution is always a standard balancer with collector (slip ring) transmission
Optionally with contactless transmission CONLESS
- For highest demands, also with AE acoustic emission sensor, AB340 can be used
- These balancers have been tested a thousand times, and usually they are on stock
- Easy mounting allows adaptation to almost each grinding machine
- A wide range of balancing capacities is available for many grinding wheel sizes
- Easiest change in case of service



Simple flange mounting



Collector for external and internal balancer



Receiver and transmitter for contactless transmission CONLESS



with power transmission on the flange side

Spindle installation situation



with power transmission at the end of the spindle

Depending on the type, series AB50 / AB300 and AB340 balancing electronics can be used



3.AB50
Table version



3.BM240/300_
(½ 19" or 19")

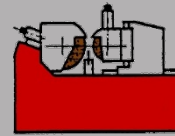
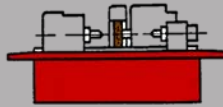


3.AB340.SM3_



3.BM340_
(½ 19" or 19")

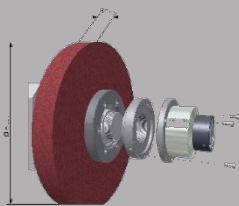
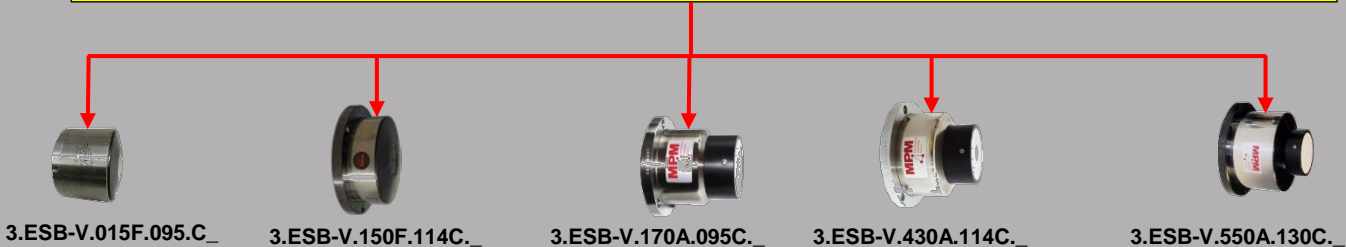
BoB - Best of Balancing



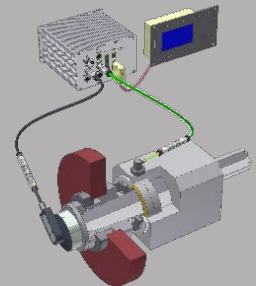
Automatic balancing on surface- and circular grinding machines
Modern • modular • inexpensive

Type	Ø x Length [mm]	Capacity C [gcm]	For wheel size Ø x width [mm]	Order-#
3.ESB-V.050F.095.C	95x61	500	300x40	1055283A
3.ESB-V.150F.114.C	114x53	1500	500x100	1055284A
3.ESB-V.080A.095.C	95x104	800	400x50	1054062A
3.ESB-V.135A.095.C	95x104	1350	500x50	1054066A
3.ESB-V.170A.095.C	95x104	1700	600x50	1054071A
3.ESB-V.250A.114.C	114x104	2500	600x100	1054074A
3.ESB-V.330A.114.C	114x104	3300	700x100	1054076A
3.ESB-V.430A.114.C	114x104	4300	800x100	1054078A
3.ESB-V.550A.130.C	130x125	5500	900x100	1055285A

ESB balancer for all grinding wheels Ø from 250mm up to e.g. Ø 900 x 100mm
 Very simple flange mounting. Suitable for working speeds up to approx. 7000 rpm.
 The achievable spindle speeds depend on the required capacity.



Type 3.ESB-V___F = especially suitable for surface and angle head grinding machines
 All balancers are equipped with acoustic emission sound sensors available



Balancing electronic controller:



3.AB50
Table version



3.BM240/300
(½ 19" or 19")



3.AB340.SM3._

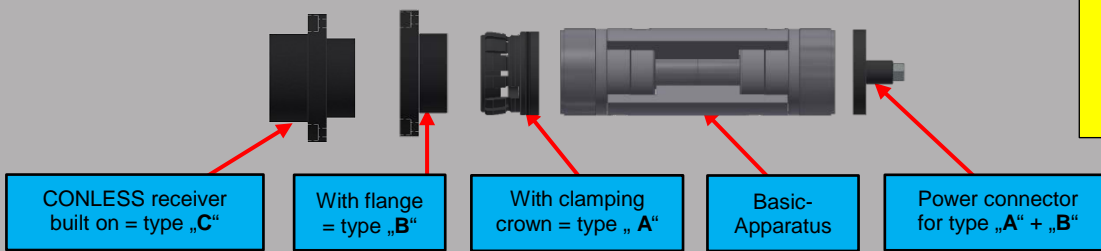


3.BM340._
(½ 19" or 19")

On request we would be pleased to create your desired configuration for you!

Balancing in HighTech-Precision

ISB-V - Balancer for spindle installation



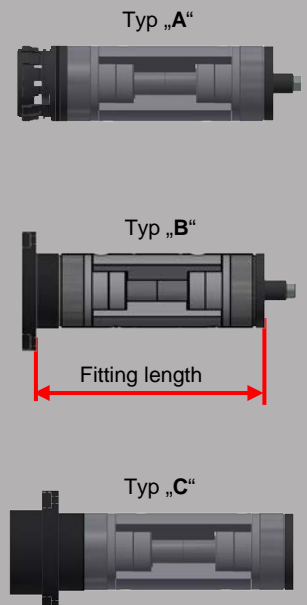
Eliminate long waiting times, long delivery dates!

ISB-V Ø 42mm

Bezeichnung	Wuchtkapazität C [gcm]				
	Einbaulänge [mm]	C	Bestell-#	C	Bestell-#
3.ISB-V.xxxA.042	159	230	1055405A	510	1055406A
3.ISB-V.xxxA.042	169	280	1055407A	600	1055408A
3.ISB-V.xxxA.042	179	320	1055409A	690	1055410A
3.ISB-V.xxxA.042	189	360	1055411A	780	1055412A
3.ISB-V.xxxA.042	199	400	1055413A	870	1055414A
3.ISB-V.xxxA.042	209	440	1055415A	960	1055416A
3.ISB-V.xxxA.042	219	490	1055417A	1050	1055418A
3.ISB-V.xxxA.042	229	530	1055419A	1140	1055420A
3.ISB-V.xxxA.042	250	620	1055421A	1330	1055422A
3.ISB-V.xxxA.042	275	720	1055423A	1560	1055424A

From 10 basic units of one Ø, 60 (or more) internal balancer units for a wide variety of requirements can be produced in shortest time.

Selecting the ISB - type configuration:



ISB-V Ø 50mm




3.ISB-V.xxxA.050	159	550	1055329A	1150	1055330A
3.ISB-V.xxxA.050	169	610	1055331A	1320	1055332A
3.ISB-V.xxxA.050	179	690	1055333A	1470	1055334A
3.ISB-V.xxxA.050	189	760	1055335A	1650	1055336A
3.ISB-V.xxxA.050	199	850	1055337A	1810	1055338A
3.ISB-V.xxxA.050	209	920	1055339A	2000	1055340A
3.ISB-V.xxxA.050	219	1000	1055341A	2140	1055342A
3.ISB-V.xxxA.050	229	1080	1055343A	2280	1055344A
3.ISB-V.xxxA.050	250	1240	1055345A	2630	1055346A
3.ISB-V.xxxA.050	275	1400	1055347A	3000	1055348A

Important: the balancing capacity „C“ must be entered for xxx. Examples: 230gcm = 023; 1560gcm = 156
In addition to the above mentioned Ø 50 also the Ø 42; 55; 60; 63; 70; 80; 90 and 100mm are available!
Special sizes on request.

Balancing in HighTech-Precision

Internal balancer ISB

Options

Legend Internal balancers	Form	WM layout	Ø [mm]	Usable with controller type	
ISB = Standard	A; B; C		42-100	AB340	
ISB-V = Vario	A; B; C		32-100		
ISB-D = Digital	A; B; C		42 - 70	AMC	

All balancer types are **torque-free (without unbalance!)** and suitable for working speeds up to approx. 15 000min⁻¹.

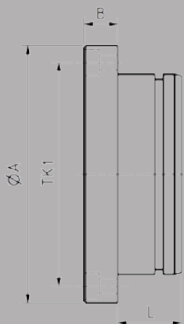
The achievable spindle speed depends on the respective balancing capacity required.

ISB-D units are also available in 2 planes, with direct positioning of the balancing masses.

Software update via remote maintenance, Ethernet possible.

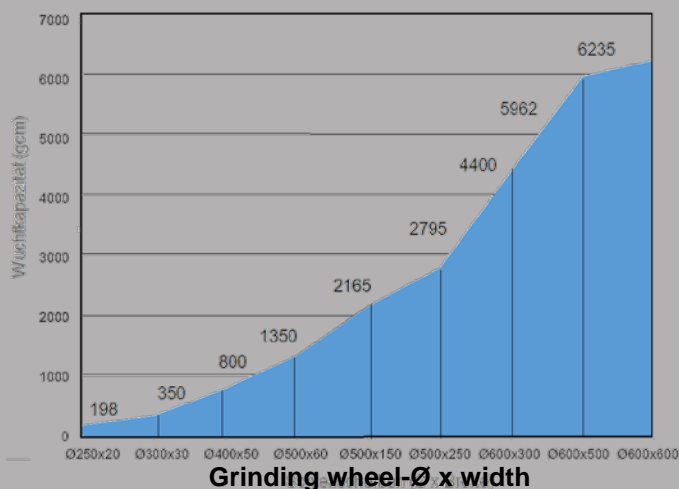
Please note:

Customer-specific, exchangeable flange for attachment to mounting positions "A" and "B" is possible after receipt of the customer drawing (sketch). See example:



TK1	Adaptation to the machine spindle	TK-Ø =	Number and size of mounting holes
A	Flange outside-Ø	Ø =
B	flange width	6 / 8 / 10mm
L	Minimum centering length	12mm

For please enter the customer-specific dimensions.
After testing MPM will complete the balancing device with the flange



Your advantage!

Benefit from more than 45 years of experience with electromechanical spindle balancers.

The large selection offers the right solution for all your machines and grinding wheel dimensions!

- Most modern technology
- Fastest availability
- Lowest prices

Everything from a single source • 100% made in Germany • Attractive prices!

Automatic balancing brought to the point! 45 years of balancing competence for your advantage

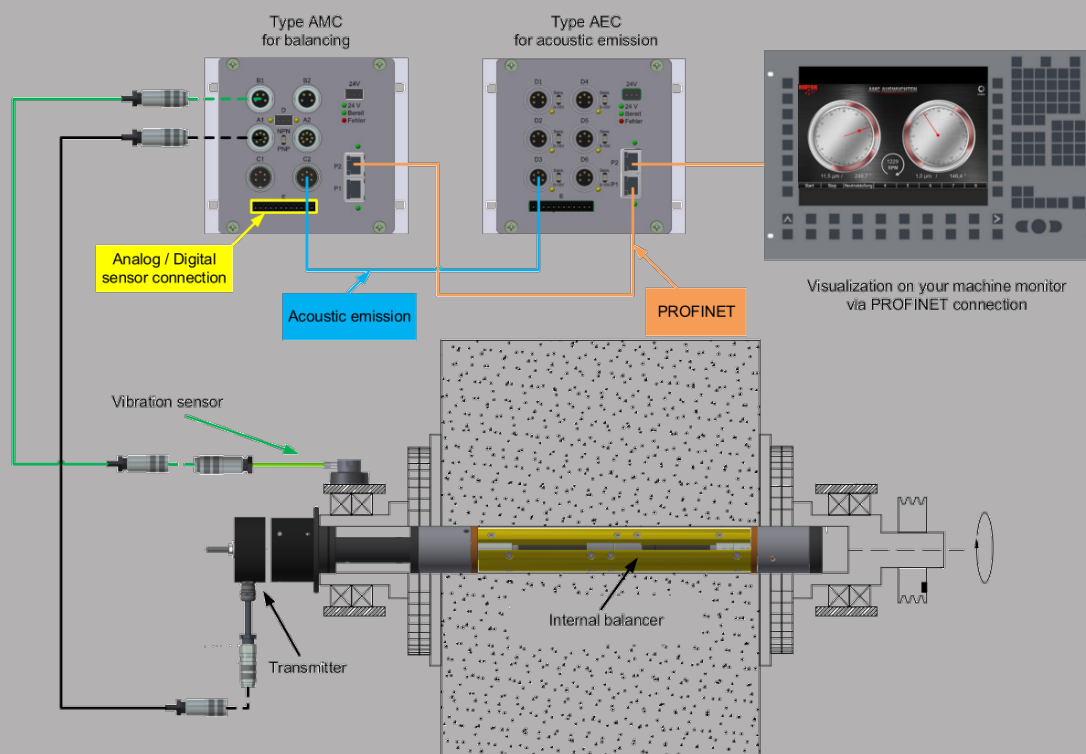


Only one type for
all balancing
requirements!

Smallest size:
120x120x125mm

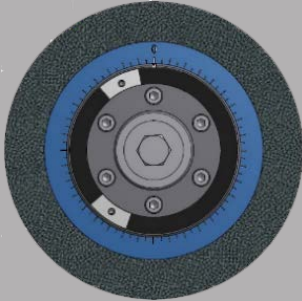
Consistent modular technique for electronics and mechanics guarantees:

- Customized equipment for each grinding machine spindle
- Latest technology at the lowest prices
- Software update via remote maintenance
- Fastest availability

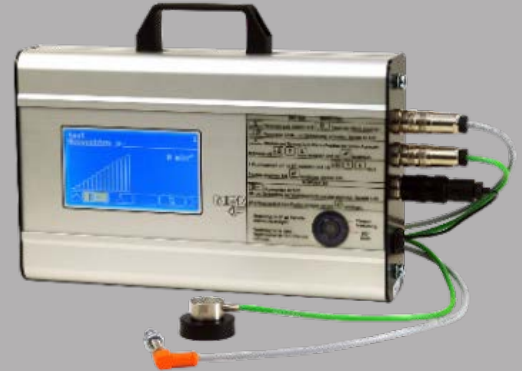


Everything from a single source ● 100% made in Germany ● Attractive prices!

Mobile Balancers BMT150M and BMT240M Manual, mobile balancing: "in no time at all"



**BMT150M
with sensors.
Can be used for
any disc size on
any machine**



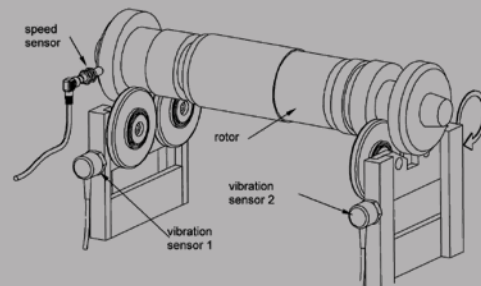
You improve by balancing

- Surfaces and geometry
- Service life of the spindle bearing
- Service life of CBN and corundum discs
- productiveness

Economic viability

- Ready for immediate use and easy to operate by any user.
- Through the use on several machines and the significant improvement in results, an amortisation within a few weeks is possible.

BMT240M for balancing in 2 planes



**Dynamic balancing of rollers, shafts, wide grinding wheels etc.
Generally best suited for long rotors**

Pleasantly simple operation • high efficiency • favourable price!

BALANCING + GRINDING



...for top results