

BANBURY® SERIES

TANGENTIAL MIXER – *Technical data*



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	Unit	BM20N	BM50N	BM80N	BM120N	BM160N	GK255N	BM305N	GK420N	BM440N	BM700N
Chamber volume*	l, approx.	24	49	75	116	146	260	269	420	436	720
Useful volume at fill factor 0.75	l, approx.	18	37	56	87	110	195	202	315	327	540
Batch weight at specific gravity 1.15 kg/l	kg, approx.	20	42	64	100	126	224	232	378	376	621
Standard rotor speeds**	rpm	60	60	60	60	60	60	60	60	60	50
Related motor power	kW	120	275	385	600	800	1,500	1,500	2,300	2,300	3,000
Ram pressure on compound <small>(pneumatic or hydraulic ram)</small>	N/cm ² , approx.	50	50	50	50	50	50	50	50	50	50
Useful volume of the feeding hopper: up to the feed door shaft <small>(including mixing chamber throat)</small>	l, approx.	52	121	187	251	331	484	522	730	885	1,355
Useful volume of the feeding hopper: up to the feed opening <small>(including mixing chamber throat)</small>	l, approx.	60	130	187	251	331	498	555	915	890	1,420
Dimensions of feed hopper	Length in mm	390	511	610	670	700	800	889	1,000	950	1,200
	Width in mm	210	263	267	267	380	500	457	500	610	610
Dimensions of drop door <small>(discharge opening)</small>	Length in mm	390	511	610	670	700	800	889	1,100	950	1,200
	Width in mm	190	177	215	240	255	470	420	500	442	640
Space requirements for mixer and gearbox <small>(excluding motor)</small>	Length in mm, approx.	3,300	4,100	5,200	5,000	5,300	6,000	6,600	7,100	7,400	9,000
	Width in mm, approx.	2,000	1,800	2,400	2,600	3,400	4,200	3,500	4,600	3,700	4,600
	Height in mm, approx.	3,500	4,100	4,700	4,900	5,600	5,550	6,050	6,600	6,800	7,600
Weight of internal mixer <small>(excluding drive)</small>	kg, approx.	5,000	7,000	10,250	12,750	17,250	25,000	27,500	40,000	48,000	61,000

Batch capacities equals volume x specific gravity x fill factor. Fill factor is variable and dependent upon compound viscosity, speed, ram pressure and rotor type configuration.

BM series fitted with NST rotors, keel bottom ram with standard nominal ram lay back position.

GK series fitted with ZZ4 rotors, vee bottom ram with standard nominal ram lay back position.

Noise data – the effective A-weighted emission sound at the operating platform depends on the configuration of the mixing line.

* Chamber volume is the effective free volume of the mixing chamber with closed ram.

** In addition to the rotor speeds stated, higher or lower speeds can also be specified. The corresponding motor powers will in most

cases be lower than the figures quoted, however for some compounds, depending on their composition, the ram pressure and the mixing method used, higher motor powers may be required.