

Bone Mills

Bone mills are rotary surgical instruments typically used to recess the bone around the head of a dental implant to help accommodate fully seating the correlating components, such as abutments.

A new range of latch-driven bone mills has been developed for the SP1, Deep Conical and Internal Hex implant ranges. As all the aforementioned implant ranges utilise internal connections, the newly developed bone mills feature a unique one-piece design. These bone mills incorporate a nib that engages with the implant's prosthetic connection to stop the bone mill before it reaches the implant platform which prevents damage to the coronal portion of the implant. The one-piece design eliminates the need for accessory components, such as bone mill caps.

How to use bone mills for implants with an internal connection

Align the nib of the bone mill to the implant's prosthetic connection. Hereafter milling may commence. As milling progresses the bone mill will move further into the implant's prosthetic connection. Eventually the bone mill nib will stop progressing as it comes into contact with a chamfer left by the pilot drilling of the internal connection. At this point milling is complete and the bone mill may be removed from the implant.

Using a Bone Mill and Bone Mill Cap for External Hex Implants

Attach the bone mill cap to the external hex implant. It fits securely over the External Hex connection, protecting the implant and guiding the bone mill during the procedure.

Using the bone mill, carefully begin removing bone at the coronal section of the implant.

The cap ensures controlled bone removal at the coronal section, eliminating excess bone that may obstruct prosthetic components like healing abutments or restorations whilst protecting the implant connection.

The handpiece bonemill operates within a speed range of 150 to 2000 rpm. When operating at or below 150 rpm, adequate cooling is often achieved without forced irrigation. For speeds of 1200 rpm or greater, continuous and sufficient irrigation is essential to prevent thermal necrosis of the bone.

Bone mills for internal connection implants

Deep Conical

I-HBM-DC30	I-BM-DC3-40	I-HBM-DC35	I-HBM-DC40	I-BM-DC4-50	I-HBM-DC50	I-BM-DC5-65
						
Ø3	Ø3	Ø3.5	Ø4	Ø4	Ø5	Ø5

Internal Hex/ PROVATA®

I-BM-3M-45	I-BM-3M-50	I-HBM-M-46	I-HBM-M-56	I-BM-M-45	I-BM-M-55	I-HBM-Z66
						
Narrow Interface	Narrow interface wide emergence	Standard Interface	Standard interface wide emergence	Standard Interface	Standard interface wide emergence	Wide Interface

Tri-Nex

I-HBML-35	I-HBML-43	I-HBML-50	I-HBML-60
			
Ø3.5	Ø4.3	Ø5	Ø6

Single Platform (SP1)

I-BM-SP-55	I-BM-SP-70
	
Regular Emergence	Wide Emergence

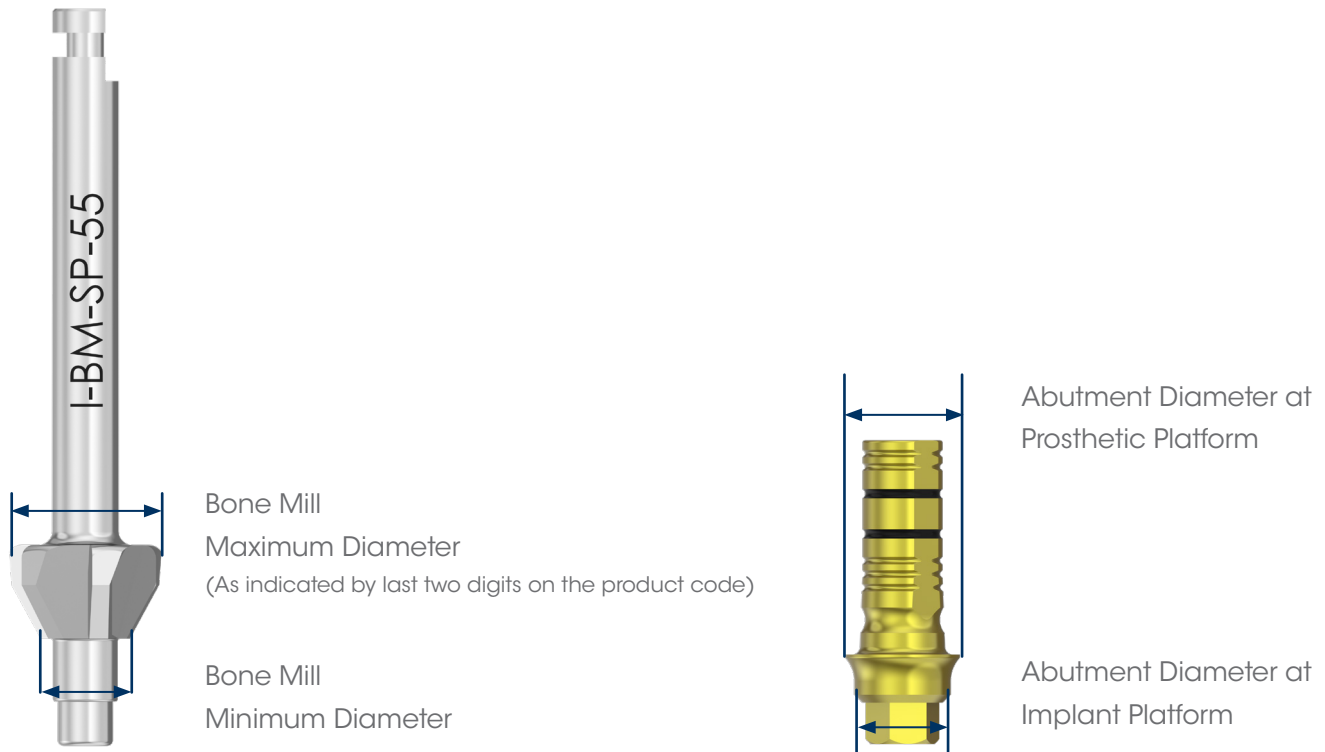
Two-Piece Latch Driven Bone Mills

External Hex

Compatible Prosthetic Platform	Bone Mill		Compatible Bone Mill Cap	
	I-BPM-40	I-BPM-55	I-BPM-CAP	
Ø3	 Regular Emergence	 Wide Emergence		
Ø3.25	 Regular Emergence	 Wide Emergence		
Ø4	 Regular Emergence	 Wide Emergence		 Compatible with ZYGIN Family
Ø5	 Regular Emergence	 Wide Emergence		
Ø6	 Regular Emergence			

Compatibility and Additional Information

The tables below outline compatibility information for the newly developed one-piece bone mills. The following diagram indicates the relationship between the bone mill dimensions to the desired prosthetic abutment. Care should be taken to ensure the correct bone mill is used to allow the correct seating of the abutment.



Compatibility and Additional Information

Single Platform (SP1)

Bone Mill	Bone Mill Minimum Ø (mm)	Bone Mill Maximum Ø (mm)	Compatible Implants	Compatible Abutments	Abutment Ø at Implant Platform	Abutment Ø at Prosthetic Platform
I-BM-SP-55 I-BM-SP-70	3.20	5.5	MSC-SP35xx MSC-SP37xx MSC-SP40xx PT-SP40xx MSC-SP45xx MSC-SP50xx MSC-SP60xx	Standard Abutments		
				HA-SP45	3.10	4.5
				HA-SP50	3.10	5.0
				TC-SP	3.1	4.5
				SIB-SP-43C1.5	3.10	4.3
				SIB-SP-43C3	3.10	4.3
				SIB-SP48C3	3.10	4.8
				SIB-SP48C5	3.10	4.8
				TIB-SP-C1.5	3.1	4.5
				TIB-SP-C3		
				ASC-SP	3.1	4.3
				PA-SP	3.1	3.9
				MC-SP	3.1	4.8
	4.70	7.0		MC-SP-17D	Use- I-BM-SP-70	
				MC-SP-30D		
				Platform Matched Abutments		
				HA-SP55-PM	4.5	5.5
				HA-SP65-PM	4.5	6.5
				TC-SP-PM	4.5	5.5
				SIB-SP-PM-55C1.5	4.5	5.5
				SIB-SP-PM-55C3	4.5	5.5
				SIB-SP-PM-65C3	4.5	6.5
				SIB-SP-PM-65C5	4.5	6.5
				TIB-SP-PM-C1.5	4.5	5.5
				TIB-SP-PM-C3		
				PA-SP-PM	4.5	5.0

Compatibility and Additional Information

Deep Conical

Bone Mill	Bone Mill Minimum Ø (mm)	Bone Mill Maximum Ø (mm)	Compatible Implants	Compatible Abutments	Abutment Diameter at Implant Platform	Abutment Ø at Prosthetic Platform
I-BM-DC3-40	2.45	4.0	DCC30-xx DCT30-xx DCC35-12D-xx DCT35-12D-xx	HA-DC3-N	2.38	3
				HA-DC3	2.38	3.5
				HA-DC3-W	2.38	4
				TC-DC3-1	2.35	3.4
				SIB-DC3-40C1.5	2.35	4.1
				SIB-DC3-40C3		
				SIB-DC3-45C3	2.35	4.5
				SIB-DC3-45C5		
				TIBS-DC3-C1.5	2.35	3.85
				TIBS-DC3-C3		
				CAB-DC3	2.35	4.4
				PA-DC3	2.35	3.0
				MC-DC3	2.86	4.8
I-BM-DC4-50	3.00	5.0	DCC35xx DCT35xx DCC40xx DCC40-12D-xx DCT40xx DCT40-12D-xx DCC50-12D-xx DCT50-12D-xx	HA-DC4-N	2.88	4
				HA-DC4	2.88	4.5
				HA-DC4-W	2.88	5.5
				TC-DC4-1	2.86	4.1
				SIB-DC4-43C1.5	2.86	4.3
				SIB-DC4-43C3		
				SIB-DC4-48C3	2.86	4.8
				SIB-DC4-48C5		
				TIBS-DC4-C1.5	2.86	3.85
				TIBS-DC4-C3		
				TIB-DC4	2.86	4.5
				TIB-DC4-C1.5		
				TIB-DC4-C3		
				CAB-DC4	2.86	4.6
				ASC-DC4	2.86	4.35
				PA-DC4	2.86	3.5
				MC-DC4	2.88	4.8
I-BM-DC5-65	4.00	6.5	DCC50-xx DCT50-xx	HA-DC5	3.93	5.5
				HA-DC5-W	3.93	6.5
				TC-DC5-1	3.91	4.5
				SIB-DC5-55C1.5	3.91	5.5
				SIB-DC5-55C3	3.91	
				SIB-DC5-65C3	3.91	6.5
				SIB-DC5-65C5		
				TIB-DC5	3.91	5
				TIB-DC5-C1.5		
				TIB-DC5-C3		
				CAB-DC5	3.91	4.6
				PA-DC5	3.91	4.5
				MC-DC5	3.93	6

Compatibility and Additional Information

Internal Hex/ PROVATA

Bone Mill	Bone Mill Minimum Ø (mm)	Bone Mill Maximum Ø (mm)	Compatible Implants	Compatible Abutments	Abutment Ø at Implant Platform	Abutment Ø at Prosthetic Platform
I-BM-3M-45 I-BM-3M-50	3.0 3.0	4.5 5.0	MSC-PRO30xx MSC-PRO12D3xx	HA-3M-35	2.94	4.35
				HA-3M-45	2.94	4.5
				TC-3M	3	3.5
				SIB-3M-40C1.5	3	4.1
				SIB-3M-40C3		
				SIB-3M-45C3	3	4.5
				SIB-3M-45C5		
				TIBS-3M-C1.5	3	3.85
				TIBS-3M-C3		
				ASC-3M	3	4
				PA-3EM-S	3	3
				MC-3M	2.94	4.8
I-BM-M-45 I-BM-M-55	3.75 4.5	4.5 5.5	IM-T37-xx MSC-PRO40-xx MSC-PRO12Dxx MSC-PRO406xx IM-T42-xx IM-T42-12D-xx MSC-PRO50-xx MSC-PRO12Dxx IM-T50-xx MSC-PROMAX6-xx	Standard Abutments		
				HA-M-37	3.61	3.7
				HA-M-45	3.61	4.5
				HA-M-55	3.61	5.5
				TC-M	3.61	4
				SIB-M-43C1.5	3.61	4.3
				SIB-M-43C3		
				SIB-M-48C3	3.61	4.8
				SIB-M-48C5		
				TIB-M	3.61	4.5
				TIB-M-C1.5		
				TIB-M-C3	3.61	4.6
				CAB-M		
				ASC-M	3.61	4.4
				PA-EM-S	3.61	3.61
				MC-M	3.61	4.8
				Platform Matched Abutments		
				HA-M-P45	4.5	6
				SIB-M-PM-48C1.5	4.5	4.8
				SIB-M-PM-48C3		
				SIB-M-PM-55C3	4.5	5.5
				SIB-M-PM-55C5		
				TIB-M-P45	4.5	5
				CAB-M-P45	4.5	4.6
				PA-EM-SP45	4.5	4.5

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