

stryker

Autograft optimization via
**Bone Mill+™ and
Bone Vac™ autologous
bone dust collector**

Golden
together



Whether you want uniformly milled bone, malleable bone paté or both, we can help you maximize periop collection of autograft. And with product features such as automated tissue removal and integration with common O.R. equipment, the process is quick, easy and hassle free.

Fusion solutions



Bone Mill+ System

- Redesigned power base, bone mill and new Prep+ disposable cartridge for automated tissue removal prior to milling
- Enhances autograft quality and quantity¹
- Streamlines workflow and reduces physical effort of manual processing and its potential for pain/injury
- Single-pass cutting action keeps bone exposure to heat minimal²
- Safe, easy access to residual bone
- Enhanced visibility and ease of use via numerous design refinements
- Base provides balanced, upright positioning; mill catch tray sits flat for mixing
- Base is reusable/autoclavable
- Three blade options (up to 3.2mm, 5.0mm and 8.0mm)
- Driven by CORE 2 Console which displays Prep+ timer, % power to blade and other settings

Optimize value

46% more* Prep+ bone yield compared to manual cleaning**¹

15% higher quality rating of soft tissue removal than manual*¹

140% increase in catch tray volume captures up to 120cc per milling; **3x more** than Midas Rex Mill^{2,3}

41 minutes saved in manual bone processing*¹

*Based on average results
**10 minute Bone Mill+ cycle vs 10 minutes of manual soft tissue removal

Bone Vac autologous bone dust collector

- 13cc capacity filter can be used multiple times during case
- Putty-like consistency enables efficient shaping and placement
- One push bone removal via integrated plunger; no inverting mesh baskets or scraping out loose bone dust
- Works with existing drill and standard suction tubing, tip and source
- No need to keep upright
- End caps maintain suction if filter is removed
- Disposable; no added cleaning/manpower

Optimize potential

Bone dust **cell viability** can withstand drill action and heat^{4,9}

Reflects **osteogenic, osteoinductive** and **osteoconductive** potential^{4,9}

Can contain viable **bone-forming cells** and **expression markers**^{4,9}

Exhibits **ALP activity, calcium deposition,** and more^{4,9}



Adding value to Bone Vac



Bone Vac is effective with fluted or cutting burs, but the 2Flute precision round bur has shown inspired results.

- Can positively impact bone dust size/surface area, cell count and cellular gene expression⁵
- Reduces chatter and increases precision⁹
- Enables rapid dissection with smooth performance⁹

Winning combination

To trial or learn more about Bone Mill+ and Bone Vac contact your Neurosurgical sales representative, call 800 253 3210, or visit neurosurgical.stryker.com and StrykerPoweringGold.com

1. Engineering Notebook Record_D0000220921
2. Stryker data on file
3. Engineering Notebook Record_D0000126492
4. Gao, R. et al. (2018) Human Spinal Bone Dust as a Potential Local Autograft. Spine, 43.4.
5. Roth, A. et al. (2017) Improved Autologous Cortical Bone Harvest and Viability With 2Flute Otologic Burs. The Laryngoscope.
6. Gupta, A. et al. (2009) Comparison of Osteogenic Potential of Calvarial Bone Dust, Bone Fragments, and Periosteum. The Journal of Craniofacial Surgery.
7. Shad, A. et al. (2005) Use of the Solis cage and local autologous bone graft for anterior cervical discectomy and fusion: early technical experience. Journal of Neurosurgery Spine.
8. Patel, V. et al. (2009) Histologic Evaluation of High Speed Burr Shavings Collected During Spinal Decompression Surgery. 9. Ichiyanagi, T. et al. (2010) Isolation of mesenchymal stem cells from bone marrow wastes of spinal fusion procedure (TLIF) for low back pain patients and preparation of bone dusts for transplantable autologous bone graft with a serum glue. BioScience Trends.

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