



PART OF THE *Johnson & Johnson* FAMILY OF COMPANIES

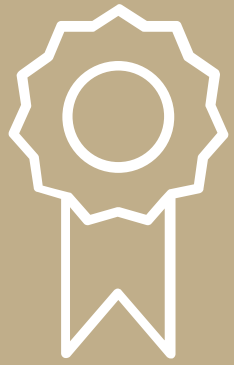
RIAMAGINE AUTOGRAFTING, REAMING, AND INFECTION CONTROL.



RIA 2 Reamer
Irrigator
Aspirator

Don't just imagine. *RIAMAGINE.*





PROVIDES THE
**GOLD
STANDARD
GRAFT**

FOR BETTER CLINICAL
OUTCOMES^{1,2}

RIAMAGINE AUTOGRAFTING

HIGH-QUALITY,
HIGH-QUANTITY
AUTOGRAFT, AND
BETTER OUTCOMES



Up to 90 cc of graft³ with
an incision size as small as 2 cm⁴



Lower total complication rate:
6.0% vs 19.4% from iliac crest bone
graft (ICBG) harvesting⁵



Greater level of gene expression
associated with vascular, skeletal,
and hematopoietic tissue vs ICBG⁶



**73% lower donor site mean
pain scores than ICBG³**

RIAMAGINE REAMING

LOWER EMBOLIZATION,
LOWER REAMING RISK,
AND EFFECTIVE
TISSUE DEBRIDEMENT



Effective method for removal
of infected bone tissue⁷



Efficient reaming with sharp
front-cutting reamer heads³



Reaming with irrigation and aspiration
for reduced heterotopic ossification, fat
embolization, and thermal necrosis^{5,8-11}





RIA 2

Reamer
Irrigator
Aspirator

Don't just imagine. **RIAMAGINE.**

Technology with **OVER 10 YEARS** of clinical usage and **OVER 100 PUBLISHED PEER-REVIEWED ARTICLES**

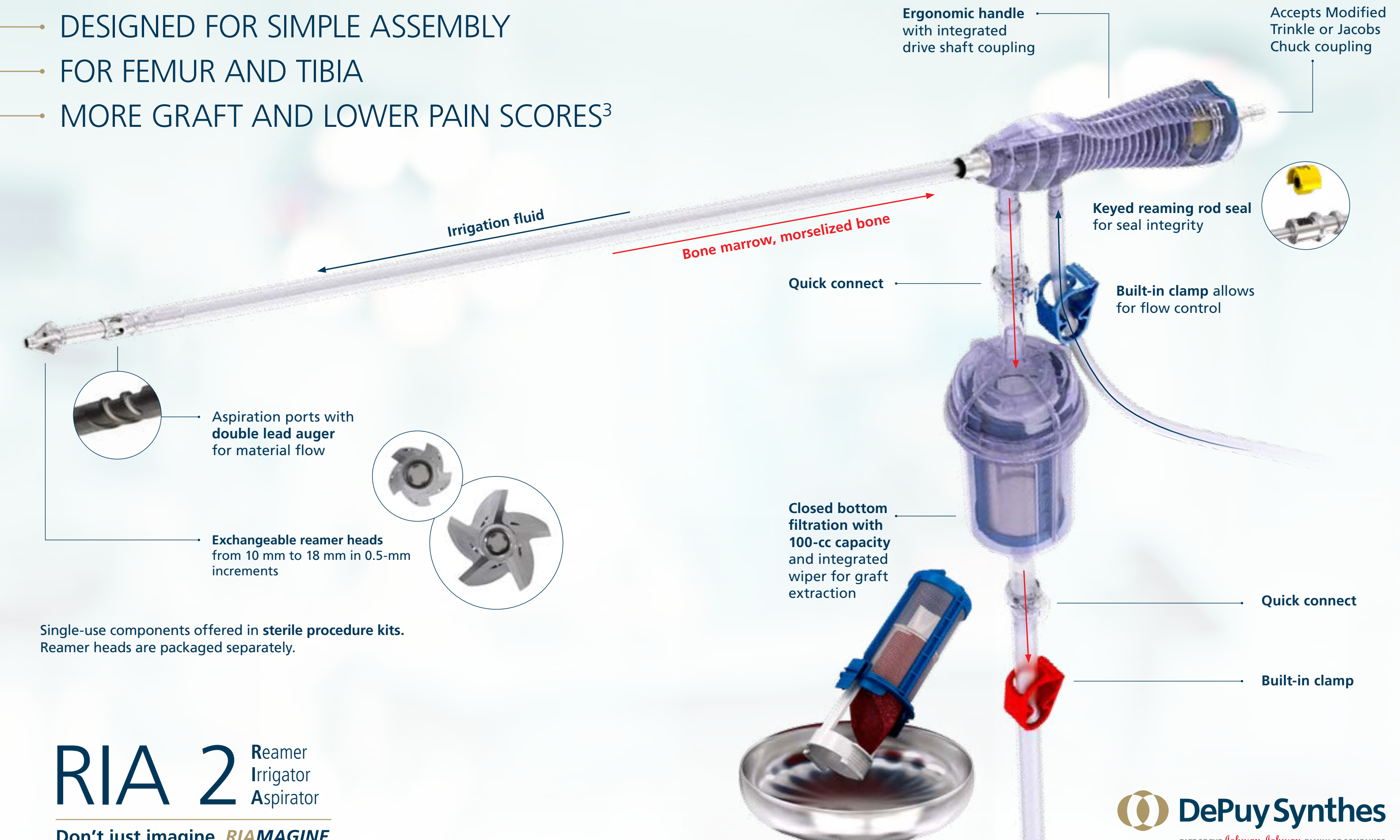
EFFECTIVE, EFFICIENT bone harvesting system^{12,13}

IMPROVED SAFETY PROFILE compared to standard reamer

RIA 2 IS THE ADVANCED, NEXT-GENERATION RIA TECHNOLOGY

- Simplifies assembly and handling
- Enables smaller canal reaming
- Improves setup efficiency

- DESIGNED FOR SIMPLE ASSEMBLY
- FOR FEMUR AND TIBIA
- MORE GRAFT AND LOWER PAIN SCORES³



Single-use components offered in **sterile procedure kits**. Reamer heads are packaged separately.

RIA 2

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Irrigator
Aspirator

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ADVANCED FEATURES AND FUNCTION



ORDERING INFORMATION

STERILE PROCEDURE KITS

RIA 2 Bone Harvesting Kit
03.404.000S
520 mm, sterile

Bone Harvesting Kit Contents:

- Tube Assembly
- Reaming Rod Seal
- Irrigation and Aspiration Tubes
- Graft Filter

RIA 2 Reaming Kit
03.404.001S
520 mm, sterile

Reaming Kit Contents:

- Tube Assembly
- Reaming Rod Seal
- Irrigation and Aspiration Tubes



REAMER HEADS FOR RIA 2, STERILE

Size	Part No.	Size	Part No.
10.0 mm	03.404.016S	10.5 mm	03.404.017S
11.0 mm	03.404.018S	11.5 mm	03.404.019S
12.0 mm	03.404.020S	12.5 mm	03.404.021S
13.0 mm	03.404.022S	13.5 mm	03.404.023S
14.0 mm	03.404.024S	14.5 mm	03.404.025S
15.0 mm	03.404.026S	15.5 mm	03.404.027S
16.0 mm	03.404.028S	16.5 mm	03.404.029S
17.0 mm	03.404.030S	17.5 mm	03.404.031S
18.0 mm	03.404.032S		

RIA 2 INSTRUMENT SET

01.404.000



DePuy Synthes

PART OF THE **Johnson & Johnson** FAMILY OF COMPANIES

Manufactured or distributed by:
In United States:

Synthes USA, LLC
1101 Synthes Avenue
Monument, CO 80132

To order (USA): 800-523-0322
To order (Canada): 844-243-4321

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In Europe:



Synthes GmbH
Eimattstrasse 3
4436 Oberdorf
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Tel: +41 61 965 61 11
Fax: +41 61 965 66 00



To learn more about the RIA 2 system,
contact your DePuy Synthes Sales Consultant.

References: 1. Flierl MA, Smith WR, Mauffrey C, et al. Outcomes and complication rates of different bone grafting modalities in long bone fracture nonunions: a retrospective cohort study in 182 patients. *J Orthop Surg Res.* 2013;8:33. 2. Flecher X, Vivona J-P, Parratte S, Argenson J-NA. Can reamer-irrigator-aspirator replace the iliac autografting in diaphyseal long bones nonunion? American Academy of Orthopaedic Surgeons 2014 Annual Meeting; March 11-15, 2014; New Orleans, LA, USA. 3. Dawson J, Kiner D, Gardner W II, Swafford R, Nowotarski PJ. The reamer-irrigator-aspirator as a device for harvesting bone graft compared with iliac crest bone graft: union rates and complications. *J Orthop Trauma.* 2014;28(10):584-590. 4. Belthur MV, Conway JD, Jindal G, Ranade A, Herzenberg JE. Bone graft harvest using a new intramedullary system. *Clin Orthop Relat Res.* 2008;466(12):2973-2980. 5. Dimitriou R, Mataliotakis GI, Angoules AG, Kanakaris NK, Giannoudis PV. Complications following autologous bone graft harvesting from the iliac crest and using the RIA: a systematic review. *Injury.* 2011;42 Suppl 2:S3-S15. 6. Sagi HC, Young ML, Gerstenfeld L, Einhorn TA, Tornetta P. Qualitative and quantitative differences between bone graft obtained from the medullary canal (with a reamer/irrigator/aspirator) and the iliac crest of the same patient. *J Bone Joint Surg Am.* 2012;94(23):2128-2135. 7. Zalavras CG, Singh A, Patzakis MJ. Novel technique for medullary canal debridement in tibia and femur osteomyelitis. *Clin Orthop Relat Res.* 2007;461:31-34. 8. Higgins TF, Casey V, Bachus K. Cortical heat generation using an irrigating/aspirating single pass reaming vs. conventional stepwise reaming. *J Orthop Trauma.* 2007;21(3):192-197. 9. Furlong AJ, Giannoudis PV, Smith RM. Heterotopic ossification: a comparison between reamed and unreamed femoral nailing. *Injury.* 1997;28(1):9-14. 10. Hall JA, McKee MD, Vicente MR, et al. A prospective randomized trial investigating the effect of the reamer-irrigator-aspirator (RIA) on the volume of embolic load and respiratory functions during intramedullary nailing of femoral shaft fractures. Orthopedic Trauma Association 2013 Annual Meeting; October 9-12, 2013; Phoenix, AZ, USA. 11. Volgas DA, Burch T, Stannard JP, et al. Fat embolus in femur fractures; a comparison of two reaming systems. *Injury.* 2010;41 Suppl 2:S90-S93. 12. Kanakaris NK, Morell D, Gudipati S, Britten S, Giannoudis PV. Reaming Irrigator Aspirator system: early experience of its multipurpose use. *Injury.* 2011;42 Suppl 4:S28-S34. 13. Herscovici D II, Scaduto JM. Use of the reamer-irrigator-aspirator technique to obtain autograft for ankle and hindfoot arthrodesis. *J Bone Joint Surg Br.* 2012;94(1):75-79.