acumed®

Bone Graft Harvesting System 2

Surgical Technique

a Colson Medical | Marmon | Berkshire Hathaway Company

Acumed® is a global leader of innovative orthopaedic and medical solutions.

We are dedicated to developing products, service methods, and approaches that improve patient care.

Acumed® Bone Graft Harvesting System 2

The Acumed Bone Graft Harvesting System 2 facilitates safe, rapid harvest of morselized autogenous cancellous graft from various sites in the body, including the calcaneus, distal tibia, iliac crest, and distal radius through a small skin incision.

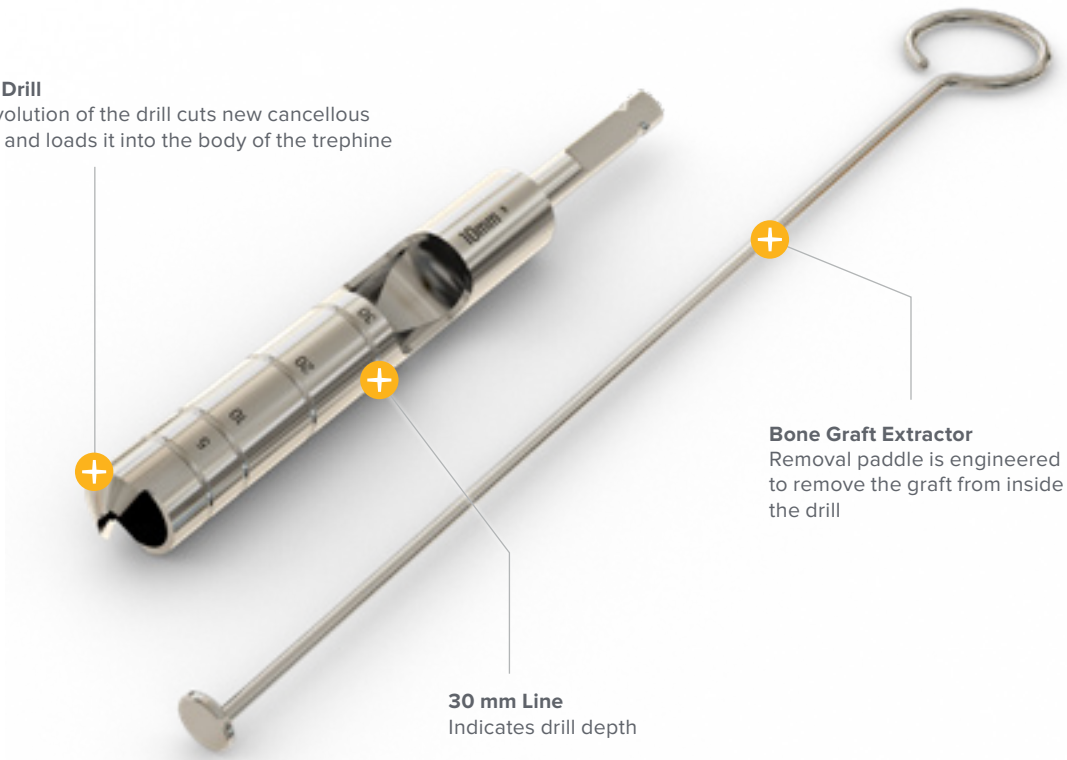
This compact system is designed to be easy to use and includes five trephines with corresponding extruder paddle.

Indications for Use:
These instruments harvest cancellous bone material from various sites in the body and are used in conjunction with another surgical procedure such as bone grafting.

	Definitions
Warning	Indicates critical information about a potential serious outcome to the patient or the user.
Caution	Indicates instructions that must be followed in order to ensure the proper use of the device.
Note	Indicates information requiring special attention.

Table of Contents

System Features



Cutting Drill
Each revolution of the drill cuts new cancellous material and loads it into the body of the trephine

Bone Graft Extractor
Removal paddle is engineered to remove the graft from inside the drill

30 mm Line
Indicates drill depth

6 mm BGH System 2 Kit
(46-0034-S)

7 mm BGH System 2 Kit
(46-0035-S)

8 mm BGH System 2 Kit
(46-0036-S)

10 mm BGH System 2 Kit
(46-0037-S)

12 mm BGH System 2 Kit
(46-0038-S)

Description	Volume (per pass) (up to 30 mm line)
6 mm BGH System 2 Kit	0.5 cc
7 mm BGH System 2 Kit	0.7 cc
8 mm BGH System 2 Kit	1.0 cc
10 mm BGH System 2 Kit	1.7 cc
12 mm BGH System 2 Kit	2.6 cc

Anterior Ilium Crest Surgical Technique

Figure 1

1 Incision and Dissection

Entry point is through a 2 cm incision located over the iliac crest, at least 3 cm posterior to the anterior superior iliac crest (ASIS). The lateral femoral cutaneous nerve is usually located within the inguinal ligament or within 2 cm dorsolateral to the ASIS in most adults.[1] However, the nerve may take a different course over the crest up to 5 cm dorsolateral to the ASIS.

After incising the skin and subcutaneous layers, sharply incise the white fascial confluence of the gluteal/tensor and abdominal musculate over the iliac crest and the periosteum. Use a periosteal elevator to perform a limited subperiosteal dissection over the crest. Then introduce small Hohmann-type retractors to facilitate exposure and help identify the center of the crest. Use an elevator or retractors to probe the orientation of the ilium, so that the trephine can be accurately directed between the inner and outer tables of the ilium.

Figure 2

2 Instrument Assembly and Autologous Bone Graft Harvest

Attach the appropriate size trephine to power via AO Quick Connect. Beginning at low speed, drill the trephine into the desired entry point until the device fully engages the bone (Figure 2). The morsel size can be varied by the drill speed and rate of insertion. Advance the trephine to the laser-etched ring on the instrument and then withdraw the instrument from the bone.

Anterior Ilium Crest Surgical Technique [continued]

Figure 3

3 Removal of Bone Graft From Harvester

Use the Graft Removal Paddle Assembly inserted in the pointed end of the trephine to expel the graft from the expulsion port on the side of the trephine.

Note: Additional graft may be harvested through the same entrance hole in the iliac crest by redirecting the trephine in a radial pattern from the original hole.

Figure 4

Figure 5

4 Backfill Harvest Site (Optional)

Exposure of bleeding surface from a large void left behind may lead to hematoma. If desired, a bone void filler can be used to backfill the graft harvest site.

Ordering Information

Sterile

Instrumentation

1	6 mm BGH System 2 Kit	46-0034-S
2	7 mm BGH System 2 Kit	46-0035-S
3	8 mm BGH System 2 Kit	46-0036-S
4	10 mm BGH System 2 Kit	46-0037-S
5	12 mm BGH System 2 Kit	46-0038-S

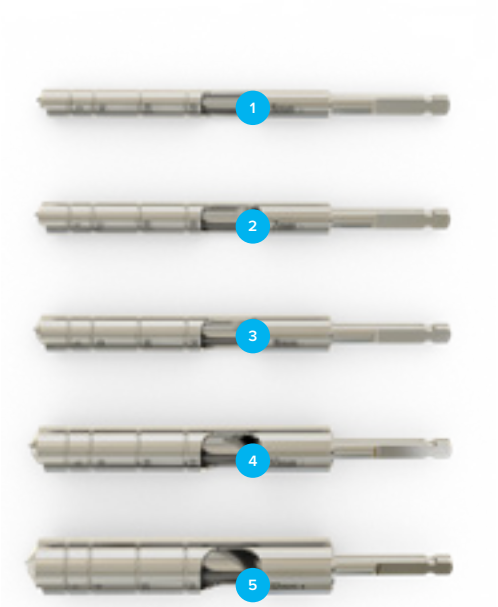
Note: Each trephine is individually sterile packed with corresponding extruder paddle.

Components

Instrumentation

Graft Removal Paddle Assembly	BG-8060
6 mm Graft Removal Paddle Assembly	BG-8064

Note: To learn more about the full line of Acumed innovative surgical solutions, please contact your authorized Acumed distributor, call 888.627.9957, or visit www.acumed.net.



References

1. Missiuna PC, Gandhi HS, Farrokhyar F, Harnett BE, Dore EMG, Roberts B. Anatomically safe and minimally invasive transcrestal technique for procurement of autogenous cancellous bone graft from the mid-iliac crest. *Can J Surg.* 2011; 54(5):327–332. doi: 10.1503/cjs.028010

www.acumed.net

Acumed USA Campus
5885 NE Cornelius Pass Road
Hillsboro, OR 97124
+1.888.627.9957

OsteoMed USA Campus
3885 Arapaho Road
Addison, TX 75001
+1.800.456.7779

Acumed Iberica Campus
C. Proción, 1
Edificio Oficor
28023 Madrid, Spain
+34.913.51.63.57

BIO00-07-A | Effective: 2023/09 |