Lima Corporate
Orthopaedic motion

MUELLER CEMENTED CUPS & **ACETABULAR** PLATES

SURGICAL TECHNIQUE

MUELLER CEMENTED CUPS & ACETABULAR PLATES
Index

Limacorporate S.p.A., as manufacturer of prosthesis device, does not practice medicine. This surgical technique brochure has been developed in consultation with an experienced surgeon team and provides the surgeon with general guidance when implanting Mueller Cemented Cups + Acetabular Plates. Proper surgical procedures and techniques are necessarily the responsibility of the medical professional. Each surgeon must evaluate the appropriateness of the surgical technique used based on personal medical training, experience and clinical evaluation of each individual patient. For further information about our products, please visit our web site at ***www.limacorporate.com***

MUELLER CEMENTED CUPS & ACETABULAR PLATES
Indications, Contraindications and Risk Factors

INDICATIONS

Mueller Cemented cups are indicated for use in total arthroplasty for reduction or relief of pain and/or improved hip function in skeletally mature patients with the following conditions:

- advanced articular destruction generated by primary degenerative or post-traumatic arthrosis or rheumatoid arthritis;
- avascular necrosis of the femoral head or fracture of the femoral neck;
- congenital or acquired deformity;
- failures of previous operations, like osteosynthesis, articular reconstruction, arthrodesis, hemi-arthroplasty or total arthroplasty.

Acetabular plates are indicated for use with Mueller Cemented cups in following cases:

- revision of previous implants in presence of insufficient trophism or serious altered bone structures;
- congenital dysplasias;
- in general, in any case providing the use of cement for fixing the cup with reconstruction of acetabular seat.

CONTRAINDICATIONS

The following contraindications are applicable to Mueller Cemented cups and Acetabular plates:

- acute or chronic infections, local or systemic infections;
- serious muscular, neurological or vascular diseases affecting the concerned limb;
- any concomitant disease and dependence that might affect the implanted prosthesis;
- allergy to material;
- metal-on-metal systems: patients with renal impairment.

Additionally, the following contraindication is applicable to Acetabular plates:

- massive bone destruction or poor bone quality not allowing a proper Acetabular plate fixation, which could compromise implant's stability.

RISK FACTORS

With good preoperative planning, careful surgical technique the biological and mechanical result should be at least as good as that obtained from established systems currently in use. The following risk factors may result in poor results with this prosthesis:

- severe bone deformity;
- local bone tumours;
- systemic disease and metabolic disorders;
- patient's history of infections or falls;
- drug addiction and/or drug, alcohol or medicine abuse;
- overweight;
- heavy physical activities, associated with frequent shocks, in which the prosthesis can be excessively overloaded (i.e. physical labor, heavy work, sport competitions, etc);
- errors of operative technique.

Warnings. *LimaCorporate products should be implanted only by surgeons familiar with the joint replacement procedures described in the specific surgical techniques.*

Note. *on use of Mueller Cemented cup in combination with Acetabular plate: the Mueller Cemented cup size must be at least 4mm smaller than the size of Acetabular plates to allow a proper cement filling.*

PRE-OPERATIVE PLANNING

IMPORTANT: *Pre-operative planning provides useful information for information for the correct placement of the implant but does not necessarily indicate the appropriate cup size. The correct cup size must be determined during surgery.*

To achieve the best results, pre-operative planning using special templates (with specific magnification) is always advisable.

Note. *Specific % magnification can be provided upon request.*

It's suggest to do AP radiograph with adequate contrast. The templates show both the profile of the cup and the centre of rotation of the femoral head.
Instead of conventional templates, a digital version compatible with most surgical planning software is also available.

Figure 1

Reamer Handle

Figure 2

Figure 3

Figure 4

Figure 5

ACETABULAR EXPOSURE

Prior to acetabular reaming, the acetabular site should be directly visible regardless the surgical approach chosen.
Remove former implants, if any.
Soft tissues and osteophytes that may restrict the acetabular site visibility should be removed in order to clearly view the entire acetabular socket, thus verify presence of possible cavitary and/or segmental defects. If there are any bone defects, fix the bone graft before reaming the acetabulum.

ACETABULAR REAMING

Prepare the site of the cotyloid with the usual acetabulum reamer *(Fig. 1)*.
Start reaming by choosing a reamer with an appropriate diameter. A reamer with a smaller diameter than the acetabulum's – which is defined by means of transparencies – is to be preferred.

To engage the reamer with the reamer handle *(fig. 2)*:
1. Push the handle locking guide downward *(Fig. 3)*
2. Insert the reamer and turn it by ¼ counter-clockwise *(Fig. 3)*
3. Release the locking guide *(Fig. 4)*.

Insert the reamer into the acetabulum maintaining, as far as possible, an abduction axis of approx. 45°and an anteversion axis of 15°. Move the reamer holder in a clockwise direction *(Fig. 5)*.

To remove the reamer pull the handle locking guide, turn the reamer clockwise and remove it.
Shift gradually to reamers with larger diameters to obtain an even spherical bone surface.

Note. *The amount of interference fit should be determined intra-operatively based upon the patient's bone quality.*

Multi Purpose Handle

Beater - Positioner - Aligner

Figure 6

Figure 7

Figure 8

Multi Purpose Handle

Figure 9

Figure 10

TESTING AND INSERTING THE CUP

Once the acetabular site's preparation phase has been completed, screw trial cup the size of the last reamer used onto the multipurpose handle or the positioner *(Fig. 6)*. Use the wide openings available to ensure even contact along the acetabular rim *(Fig. 7)*.

Select the cup size to allow being in place a proper cement mantle thickness. Prepare the surgical cement and position it into the acetabulum.

Note. *Follow the LimaCorporate Bone Cement Surgical Technique to prepare the plug seat and cementing procedure as well as use of cementing kit (i.e. cartridge kit, pressurization kit, femoral swabs and cartridge gun).*

Note. *LimaCorporate supplies cementation and pressurisation kits together with femoral swabs, for an optimal and efficient cementation technique.*

Note. *Use the LimaCorporate cementing kit only.*

Manually insert the cup and press it into the cement bed, taking care to protect the polyethylene articular surface *(Fig. 8)*.

Use the cup impactor *(Figs. 9-10)*, which has the same diameter as the head to be used, to apply pressure on the cup until cement polymerisation is complete. *(Fig. 11)*

Cemented Cup Impactor

Figure 11

Acetabular Reamer

Figure 12

Reamer Handle

Figure 13

Figure 14

Figure 15

Figure 16

ACETABULAR REAMING

Follow the steps described into the Surgical Technique "Mueller cemented cups" for Acetabular Exposure and Acetabular reaming.
Prepare the site of the cotyloid with the usual acetabulum reamer. *(Fig. 12).*

To engage the reamer with the reamer handle *(fig. 13)*:
1. Push the handle locking guide downward *(Fig. 3)*
2. Insert the reamer and turn it by ¼ counter-clockwise *(Fig. 3)*
3. Release the locking guide *(Fig. 4)*.

Insert the reamer into the acetabulum maintaining, as far as possible, an abduction axis of approx. 45° and an anteversion axis of 15°. Move the reamer holder in a clockwise direction *(Fig. 16)*.

To remove the reamer pull the handle locking guide, turn the reamer clockwise and remove it.

Shift gradually to reamers with larger diameters to obtain an even spherical bone surface.

Note. *Since the reamer is spherical, it can be rotated around any axis while in use to improve bone site preparation. Anyhow avoid anteroposterior or lateromedial traverse movements that could produce a non spherical acetabular conformation.*

Single use acetabular cup

Figure 17

Figure 18

Figure 19

TESTING AND INSERTING THE ACETABULAR PLATE

Once the acetabular site's preparation phase has been completed, screw a trial cup the size of the last reamer used onto the multipurpose handle or the positioner. Use the wide openings available to ensure even contact along the acetabular rim.
The Acetabular Plate implanted has the same nominal diameter as the last reamer used.

At this point position the template cage *(Fig. 17)*, having the same size as the cage to be implanted, inside the acetabular cavity.
Deform the wings and the caudal hook to suit acetabular morphology *(Figs. 18-19)*.

Handle for winglet modelling

Figure 20

Figure 21

Figure 22

Figure 23

Remove the acetabular plate from the sterile package, choosing the same size as the last reamer used. Screw the multipurpose handle onto the acetabular plate's polar hole. Reproduce the template cup shape by folding the wings of the acetabular plate to be implanted with the handle for winglet modeling *(Fig. 20)*

Note. *Since the reamer pay attention not to deform the wings repeatedly to avoid them from strain hardening and, subsequently, breaking (Figs. 21-22).*

Enlarge the caudal hook to avoid over binding the system, which could cause strain breakage.

Apply pressure on the cage after filling any bone gap with a bone graft *(Fig. 23)*. Strike the placer axially by inserting the cage stably, ensuring that the caudal hook is correctly housed in the foramen obturatoris.
Check that the cup has adequately sunk into the acetabular site and test the implant's primary stability by applying gentle lever stress on the various planes with the placer rod. Unscrew both placer and adaptor to ensure that there is contact between the cup and the bottom of the acetabulum through the bores present. If necessary, screw the rod on once again and press the cup further.

Figure 24

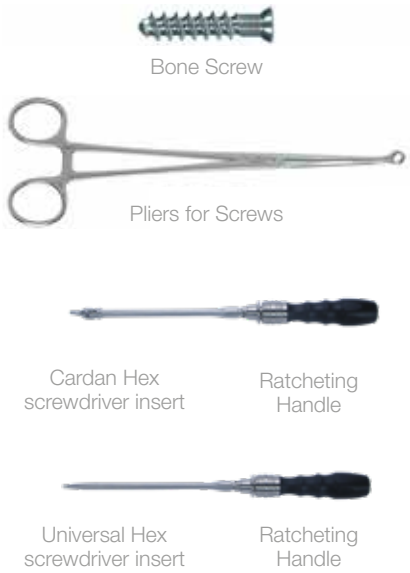

Figure 25

BONE SCREW FIXATION

Prepare the holes required to fix the cranial wings with the helix drills and the drill guide *(Fig. 24)*.

Before inserting the screw, place the drill guide on the selected acetabular plate's hole and drill the bone. Use the number of screws that will guarantee correct mechanical stability. All holes can be used as long as there is an adequate bone stock to anchor the screws. To optimise cranial wing fixation, first link the proximal holes and then the distal ones.

Figure 26

Figure 27

Figure 28

Figure 29

Take each spongious screw with the special pincer *(Fig. 25)* and start screwing with the screwdrivers *(Fig. 26)*.

When the screw proceeds stably into the site, remove the pincers without locking it completely. Repeat the procedure for every screw you wish to insert *(Fig. 27)*.

Perform final locking when all screws required have been inserted *(Fig. 28)*.

If the screws fitted into the cranial wings do not suffice to ensure correct primary stability, part of the holess inside the cage can be used to insert the spongious screws *(Figs. 27-28)*.

If the screws fitted into the cranial wings do not suffice to ensure correct primary stability, part of the holess inside the cage can be used to insert the spongious screws *(Figs. 26-28)*.

The internal holes have the primary function of allowing cement infiltration into the acetabular bone or into the bone graft.

After fixing the cage and checking its stability *(Fig. 29)*, cement the polyethylene cup by following the operating technique adopted for cemented cups.

Note. *(on use of Cemented cup in combination with Acetabular plate) the Cemented cup size must be at least 4mm smaller than the size of Acetabular plates to allow a proper cement filling.*

EXTRACTION

Break the polyethylene-cement interface br drilling fully threaded cortical screws. Repeat this procedure until the cup starts to lift from the cement and becomes loose enough to be extracted.

MUELLER CEMENTED CUPS & ACETABULAR PLATES
Instrument Set

9055.24.000 Acetabular Cup “Half-Cross” Reamer Set A-O

Ref.	CODE	DESCRIPTION	Qty.
A24	9057.20.810	Straight Reamer Handle A-O connetction	2
B24	9057.20.942	Half Cross Acetabular Reamer Dia. 42	1
B24	9057.20.943	Half Cross Acetabular Reamer Dia. 43	1
B24	9057.20.944	Half Cross Acetabular Reamer Dia. 44	1
B24	9057.20.945	Half Cross Acetabular Reamer Dia. 45	1
B24	9057.20.946	Half Cross Acetabular Reamer Dia. 46	1
B24	9057.20.947	Half Cross Acetabular Reamer Dia. 47	1
B24	9057.20.948	Half Cross Acetabular Reamer Dia. 48	1
B24	9057.20.949	Half Cross Acetabular Reamer Dia. 49	1
B24	9057.20.950	Half Cross Acetabular Reamer Dia. 50	1
B24	9057.20.951	Half Cross Acetabular Reamer Dia. 51	1
B24	9057.20.952	Half Cross Acetabular Reamer Dia. 52	1
B24	9057.20.953	Half Cross Acetabular Reamer Dia. 53	1
B24	9057.20.954	Half Cross Acetabular Reamer Dia. 54	1
B24	9057.20.955	Half Cross Acetabular Reamer Dia. 55	1
B24	9057.20.956	Half Cross Acetabular Reamer Dia. 56	1
B24	9057.20.957	Half Cross Acetabular Reamer Dia. 57	1
B24	9057.20.958	Half Cross Acetabular Reamer Dia. 58	1
B24	9057.20.959	Half Cross Acetabular Reamer Dia. 59	1
B24	9057.20.960	Half Cross Acetabular Reamer Dia. 60	1
B24	9057.20.961	Half Cross Acetabular Reamer Dia. 61	1
B24	9057.20.962	Half Cross Acetabular Reamer Dia. 62	1
B24	9057.20.963	Half Cross Acetabular Reamer Dia. 63	1
B24	9057.20.964	Half Cross Acetabular Reamer Dia. 64	1
B24	9057.20.965	Half Cross Acetabular Reamer Dia. 65	1
B24	9057.20.966	Half Cross Acetabular Reamer Dia. 66	1
C24	9055.28.400	Multipurpose Handle	1
D24	9056.10.010	Impactor for Cemented Cups Dia. 28 mm	1
D24	9056.10.020	Impactor for Cemented Cups Dia. 32 mm	1
E24	9057.20.300	Liner Impactor for Dia. 28 mm Heads	1
E24	9057.20.310	Liner Impactor for Dia. 32 mm Heads	1
E24	9057.20.320	Liner Impactor for Dia. 36 mm Heads	1
E24	9057.20.330	Liner Impactor for Dia. 40 mm Heads	1
F24	9055.28.442	Trial Cup D. 42 mm	1
F24	9055.28.444	Trial Cup D. 44 mm	1
F24	9055.28.446	Trial Cup D. 46 mm	1
F24	9055.28.448	Trial Cup D. 48 mm	1
F24	9055.28.450	Trial Cup D. 50 mm	1
F24	9055.28.452	Trial Cup D. 52 mm	1
F24	9055.28.454	Trial Cup D. 54 mm	1
F24	9055.28.456	Trial Cup D. 56 mm	1
F24	9055.28.458	Trial Cup D. 58 mm	1
F24	9055.28.460	Trial Cup D. 60 mm	1
F24	9055.28.462	Trial Cup D. 62 mm	1
F24	9055.28.464	Trial Cup D. 64 mm	1
F24	9055.28.466	Trial Cup D. 66 mm	1
G24	9057.20.555	Beater-Positioner-Aligner	1
H24	9058.85.090	Ceramic Liner Positioner	2
I24	9058.85.110	Joint for Ceramic Liner Positioner	1
L24	9058.85.210	Liner Positioner SMALL Dia. 32 mm	1
L24	9058.85.220	Liner Positioner MEDIUM-LA RGE Dia. 36 mm	1
L24	9058.85.230	Liner Positioner LARGE Dia. 40 mm	1
M24	9095.10.225	Hexagonal Screwdriver	1
	9055.24.990	Instrument Tray	1

9055.25.000 Acetabular Cup “Half-Cross” Reamer Set Zimmer Hall

Ref.	CODE	DESCRIPTION	Qty.
A25	9057.20.814	Straight Reamer Handle Zimmer-Hall Connection	2
B25	9057.20.942	Half Cross Acetabular Reamer Dia. 42	1
B25	9057.20.943	Half Cross Acetabular Reamer Dia. 43	1
B25	9057.20.944	Half Cross Acetabular Reamer Dia. 44	1
B25	9057.20.945	Half Cross Acetabular Reamer Dia. 45	1
B25	9057.20.946	Half Cross Acetabular Reamer Dia. 46	1
B25	9057.20.947	Half Cross Acetabular Reamer Dia. 47	1
B25	9057.20.948	Half Cross Acetabular Reamer Dia. 48	1
B25	9057.20.949	Half Cross Acetabular Reamer Dia. 49	1
B25	9057.20.950	Half Cross Acetabular Reamer Dia. 50	1
B25	9057.20.951	Half Cross Acetabular Reamer Dia. 51	1
B25	9057.20.952	Half Cross Acetabular Reamer Dia. 52	1
B25	9057.20.953	Half Cross Acetabular Reamer Dia. 53	1
B25	9057.20.954	Half Cross Acetabular Reamer Dia. 54	1
B25	9057.20.955	Half Cross Acetabular Reamer Dia. 55	1
B25	9057.20.956	Half Cross Acetabular Reamer Dia. 56	1
B25	9057.20.957	Half Cross Acetabular Reamer Dia. 57	1
B25	9057.20.958	Half Cross Acetabular Reamer Dia. 58	1
B25	9057.20.959	Half Cross Acetabular Reamer Dia. 59	1
B25	9057.20.960	Half Cross Acetabular Reamer Dia. 60	1
B25	9057.20.961	Half Cross Acetabular Reamer Dia. 61	1
B25	9057.20.962	Half Cross Acetabular Reamer Dia. 62	1
B25	9057.20.963	Half Cross Acetabular Reamer Dia. 63	1
B25	9057.20.964	Half Cross Acetabular Reamer Dia. 64	1
B25	9057.20.965	Half Cross Acetabular Reamer Dia. 65	1
B25	9057.20.966	Half Cross Acetabular Reamer Dia. 66	1
C25	9055.28.400	Multipurpose Handle	1
D25	9056.10.010	Impactor for Cemented Cups Dia. 28mm	1
D25	9056.10.020	Impactor for Cemented Cups Dia. 32mm	1
E25	9057.20.300	Liner Impactor for Dia. 28mm Heads	1
E25	9057.20.310	Liner Impactor for Dia. 32mm Heads	1
E25	9057.20.320	Liner Impactor for Dia. 36mm Heads	1
E25	9057.20.330	Liner Impactor for Dia. 40mm Heads	1
F25	9055.28.442	Trial Cup D. 42 mm	1
F25	9055.28.444	Trial Cup D. 44 mm	1
F25	9055.28.446	Trial Cup D. 46 mm	1
F25	9055.28.448	Trial Cup D. 48 mm	1
F25	9055.28.450	Trial Cup D. 50 mm	1
F25	9055.28.452	Trial Cup D. 52 mm	1
F25	9055.28.454	Trial Cup D. 54 mm	1
F25	9055.28.456	Trial Cup D. 56 mm	1
F25	9055.28.458	Trial Cup D. 58 mm	1
F25	9055.28.460	Trial Cup D. 60 mm	1
F25	9055.28.462	Trial Cup D. 62 mm	1
F25	9055.28.464	Trial Cup D. 64 mm	1
F25	9055.28.466	Trial Cup D. 66 mm	1
G25	9057.20.555	Beater-Positioner-Aligner	1
H25	9058.85.090	Ceramic Liner Positioner	2
I25	9058.85.110	Joint for Ceramic Liner Positioner	1
L25	9058.85.210	Liner Positioner SMALL Dia. 32 mm	1
L25	9058.85.220	Liner Positioner MEDIUM-LARGE Dia. 36 mm	1
L25	9058.85.230	Liner Positioner LARGE Dia. 40 mm	1
M25	9095.10.225	Hexagonal Screwdriver	1
	9055.25.990	Instrument Tray	1

MUELLER CEMENTED CUPS & ACETABULAR PLATES
Instrument Set

9055.26.000 Acetabular Cup “Half-Cross” Reamer Set Hudson

Ref.	CODE	DESCRIPTION	Qty.
A26	9057.20.820	Straight Reamer Handle Hudson Connection	2
B26	9057.20.942	Half Cross Acetabular Reamer Dia. 42	1
B26	9057.20.943	Half Cross Acetabular Reamer Dia. 43	1
B26	9057.20.944	Half Cross Acetabular Reamer Dia. 44	1
B26	9057.20.945	Half Cross Acetabular Reamer Dia. 45	1
B26	9057.20.946	Half Cross Acetabular Reamer Dia. 46	1
B26	9057.20.947	Half Cross Acetabular Reamer Dia. 47	1
B26	9057.20.948	Half Cross Acetabular Reamer Dia. 48	1
B26	9057.20.949	Half Cross Acetabular Reamer Dia. 49	1
B26	9057.20.950	Half Cross Acetabular Reamer Dia. 50	1
B26	9057.20.951	Half Cross Acetabular Reamer Dia. 51	1
B26	9057.20.952	Half Cross Acetabular Reamer Dia. 52	1
B26	9057.20.953	Half Cross Acetabular Reamer Dia. 53	1
B26	9057.20.954	Half Cross Acetabular Reamer Dia. 54	1
B26	9057.20.955	Half Cross Acetabular Reamer Dia. 55	1
B26	9057.20.956	Half Cross Acetabular Reamer Dia. 56	1
B26	9057.20.957	Half Cross Acetabular Reamer Dia. 57	1
B26	9057.20.958	Half Cross Acetabular Reamer Dia. 58	1
B26	9057.20.959	Half Cross Acetabular Reamer Dia. 59	1
B26	9057.20.960	Half Cross Acetabular Reamer Dia. 60	1
B26	9057.20.961	Half Cross Acetabular Reamer Dia. 61	1
B26	9057.20.962	Half Cross Acetabular Reamer Dia. 62	1
B26	9057.20.963	Half Cross Acetabular Reamer Dia. 63	1
B26	9057.20.964	Half Cross Acetabular Reamer Dia. 64	1
B26	9057.20.965	Half Cross Acetabular Reamer Dia. 65	1
B26	9057.20.966	Half Cross Acetabular Reamer Dia. 66	1
C26	9055.28.400	Multipurpose Handle	1
D26	9056.10.010	Impactor for Cemented Cups Dia. 28mm	1
D26	9056.10.020	Impactor for Cemented Cups Dia. 32mm	1
E26	9057.20.300	Liner Impactor for Dia. 28mm Heads	1
E26	9057.20.310	Liner Impactor for Dia. 32mm Heads	1
E26	9057.20.320	Liner Impactor for Dia. 36mm Heads	1
E26	9057.20.330	Liner Impactor for Dia. 40mm Heads	1
F26	9055.28.442	Trial Cup D. 42 mm	1
F26	9055.28.444	Trial Cup D. 44 mm	1
F26	9055.28.446	Trial Cup D. 46 mm	1
F26	9055.28.448	Trial Cup D. 48 mm	1
F26	9055.28.450	Trial Cup D. 50 mm	1
F26	9055.28.452	Trial Cup D. 52 mm	1
F26	9055.28.454	Trial Cup D. 54 mm	1
F26	9055.28.456	Trial Cup D. 56 mm	1
F26	9055.28.458	Trial Cup D. 58 mm	1
F26	9055.28.460	Trial Cup D. 60 mm	1
F26	9055.28.462	Trial Cup D. 62 mm	1
F26	9055.28.464	Trial Cup D. 64 mm	1
F26	9055.28.466	Trial Cup D. 66 mm	1
G26	9057.20.555	Beater-Positioner-Aligner	1
H26	9058.85.090	Ceramic Liner Positioner	2
I26	9058.85.110	Joint for Ceramic Liner Positioner	1
L26	9058.85.210	Liner Positioner SMALL Dia. 32 mm	1
L26	9058.85.220	Liner Positioner MEDIUM-LARGE Dia. 36 mm	1
L26	9058.85.230	Liner Positioner LARGE Dia. 40 mm	1
M26	9095.10.225	Hexagonal Screwdriver	1
	9055.26.990	Instrument Tray	1

9084.21.000 Set for Bone Screw

Ref.	CODE	DESCRIPTION	Qty.
A	9084.20.010	Flexible Drill Shaft	2
B	9084.20.100	SHORT Drill - Dia. 4.5mm Length 30mm	2
B	9084.20.110	LONG Drill - Dia. 4.5mm Length 50mm	2
C	9084.20.150	Drill Guide - Dia. 4.5mm	1
D	9084.20.305	Ratcheting Handle	1
E	9084.20.310	Cardan Hex Screwdriver Insert	1
F	9084.20.320	Universal Hex Screwdriver Insert	1
G	9084.20.400	Depth Gauge	1
H	9084.20.410	Curved Depth Gauge	1
I	9095.10.115	Screws Holding Forceps	1
	9084.21.950	Sterilizable Box	1

ADDITIONAL INSTRUMENTS

Ref.	CODE	DESCRIPTION	Qty.	
A	9632.74.010	single use acetabular cup - dia. 50 mm	1	■
A	9632.74.020	single use acetabular cup - dia. 54 mm	1	■
A	9632.74.030	single use acetabular cup - dia. 58 mm	1	■
A	9632.74.040	single use acetabular cup - dia. 62 mm	1	■
A	9632.74.050	single use acetabular cup - dia. 66 mm	1	■
B	9055.32.010	handle for winglet modelling	1	■
C	9055.28.400	multipurpose handle	1	■

Ref.	CODE	DESCRIPTION	Qty.	
	9056.10.015	I.D. 28 mm Protruded Cup Impactor	1	■
	9056.10.025	I.D. 32 mm Protruded Cup Impactor	1	■
	9056.10.035	I.D. 36 mm Protruded Cup Impactor	1	■

MUELLER CEMENTED CUPS & ACETABULAR PLATES
Product Codes

MUELLER STANDARD CUPS

UHMWPE		FOR HEADS DIA. 28	
	5618.50.005	Dia. 40 mm	■
	5618.50.008	Dia. 42 mm	■
	5618.50.010	Dia. 44 mm	
	5618.50.015	Dia. 46 mm	
	5618.50.020	Dia. 48 mm	
	5618.50.030	Dia. 50 mm	
	5618.50.040	Dia. 52 mm	
	5618.50.050	Dia. 54 mm	
	5618.50.055	Dia. 56 mm	
	5618.50.060	Dia. 58 mm	
		FOR HEADS DIA. 32	
	5615.50.010	Dia. 44 mm	
	5615.50.015	Dia. 46 mm	
	5615.50.020	Dia. 48 mm	
	5615.50.030	Dia. 50 mm	
	5615.50.040	Dia. 52 mm	
	5615.50.050	Dia. 54 mm	
	5615.50.055	Dia. 56 mm	
	5615.50.060	Dia. 58 mm	

■ Upon Request

MUELLER CEMENTED CUPS & ACETABULAR PLATES
Product Codes

MUELLER PROTRUDED CUPS

UHMWPE		FOR HEADS DIA. 28
	5620.50.010	44 mm
	5620.50.015	46 mm
	5620.50.020	48 mm
	5620.50.030	50 mm
	5620.50.040	52 mm
	5620.50.050	54 mm
	5620.50.055	56 mm
	5620.50.060	58 mm
		FOR HEADS DIA. 32
	5622.50.010	44 mm
	5622.50.015	46 mm
	5622.50.020	48 mm
	5622.50.030	50 mm
	5622.50.040	52 mm
	5622.50.050	54 mm
	5622.50.055	56 mm
	5622.50.060	58 mm
		FOR HEADS DIA. 36
	5626.50.010	48 mm
	5626.50.020	50 mm
	5626.50.030	52 mm
	5626.50.040	54 mm
	5626.50.050	56 mm
	5626.50.060	58 mm

■ Upon Request

MUELLER CEMENTED CUPS & ACETABULAR PLATES
Product Codes

ACETABULAR PLATES

Ti C.P.		STANDARD	
	7660.28.010	Dia. 50 mm	
	7660.28.020	Dia. 54 mm	
	7660.28.030	Dia. 58 mm	
	7660.28.040	Dia. 62 mm	
	7660.28.050	Dia. 66 mm	
		LONG	
	7660.28.110	Dia. 50 mm	■
	7660.28.120	Dia. 54 mm	■
	7660.28.130	Dia. 58 mm	■
	7660.28.140	Dia. 62 mm	■
	7660.28.150	Dia. 66 mm	■

BONE SCREWS

Ti6Al4V		DIA. 6.5 mm	
	8420.15.005	h. 15 mm	
	8420.15.010	h. 20 mm	
	8420.15.020	h. 25 mm	
	8420.15.030	h. 30 mm	
	8420.15.040	h. 35 mm	
	8420.15.050	h. 40 mm	
	8420.15.060	h. 45 mm	
	8420.15.070	h. 50 mm	
	8420.15.080	h. 55 mm	
	8420.15.090	h. 60 mm	
	8420.15.100	h. 65 mm	■
	8420.15.110	h. 70 mm	■
	8420.15.120	h. 75 mm	■
	8420.15.130	h. 80 mm	■
	8420.15.140	h. 85 mm	■
	8420.15.150	h. 90 mm	■

■ Upon Request

Lima Corporate
Orthopaedic motion

Limacorporate S.p.A.
Via Nazionale, 52
33038 Villanova di San Daniele del Friuli
Udine - Italy
T +39 0432 945511
F +39 0432 945512
info@limacorporate.com
limacorporate.com

Lima Implantes slu
Calle Asura n. 97
Madrid 28043
España

Lima France sas
1, Allée des Alisiers
Immeuble le Galilée
69500 Bron
France
T +33 4 87 25 84 30
F +33 4 42 04 17 25
info@limafrance.com

Lima O.I. doo
Ante Kovacica, 3
10000 Zagreb - Croatia
T +385 (0) 1 2361 740
F +385 (0) 1 2361 745
lima-oi@lima-oi.hr

Lima Switzerland sa
Birkenstrasse, 49
CH-6343 Rotkreuz - Zug
Switzerland
T +41 (0) 41 747 06 60
F +41 (0) 41 747 06 69
info@lima-switzerland.ch

Lima Japan kk
Shinjuku Center Building, 29th floor
1-25-1, Nishi-shinjuku, Shinjuku,
Tokyo 163-0629 - Japan
T +81 3 5322 1115
F +81 3 5322 1175

Lima CZ sro
Do Zahrádek I., 157/5
155 21 Praha 5 - Zličín
Czech Republic
T +420 222 720 011
F +420 222 723 568
info@limacz.cz

Lima Deutschland GmbH
Kapstadtring 10
22297 Hamburg - Germany
T +49 40 6378 4640
F +49 40 6378 4649
info@lima-deutschland.com

Lima Austria GmbH
Seestadtstrasse 27 / Top 6-7
1220 Wien - Austria
T +43 (1) 2712469
F +43 (1) 2712469101
office@lima-austria.at

Lima SK s.r.o.
Cesta na štadión 7
974 04 Banská Bystrica - Slovakia
T +421 484 161 126
F +421 484 161 138
info@lima-sk.sk

Lima Netherlands
Havenstraat 30
3115 HD Schiedam
The Netherlands
T +31 (0) 10 246 26 60
F +31 (0) 10 246 26 61
info@limanederland.nl
limanederland.nl

Lima Implantes Portugal S.U. Lda
Rua Olavo D'Eça Leal Nº6 Loja-1
1600-306 Lisboa - Portugal
T +35 121 727 233 7
F +35 121 296 119 2
lima@limaportugal.com

Lima Orthopaedics Australia Pty Ltd
Unit 1, 40 Ricketts Rd
Mt Waverley 3149
Victoria Australia
T +61 (03) 9550 0200
F +61 (03) 9543 4003
limaortho.com.au

Lima Orthopaedics New Zealand Ltd
20 Crummer Road
Auckland 1021
New Zealand
T +64 93606010
F +64 93606080

Lima Orthopaedics UK Limited
Unit 1, Campus 5
Third Avenue
Letchworth Garden City
Herts, SG6 2JF
United Kingdom
T +44 (0) 844 332 0661
F +44 (0) 844 332 0662

Lima USA Inc.
2001 NE Green Oaks Blvd., Suite 100
Arlington, TX 76006
T +1 817-385-0777
F +1 817-385-0377

Lima Sweden AB
Företagsallén 14 B
SE-184 40 ÅKERSBERGA
Sweden
T +46 8 544 103 80
F +46 8 540 862 68
www.linksweden.se

Lima Italy
Centro Direzionale Milanofiori
Strada 1 - Palazzo F9
20057 Assago - Milano - Italy
T +39 02 57791301

Lima Korea Co. Ltd
11 FL., Zero Bldg.
14 Teheran Road 84 GLL
Gangnam Gu, Seoul 135-845, South Korea
T +82 2 538 4212
F +82 2 538 0706

Lima do Brasil EIRELI
Al. Campinas, 728, second floor,
rooms 201, 202, 203 and 204,
Edifício Engenheiro Antonio Silva,
Zip Code 01404-001, in the City of São Paulo,
State of São Paulo
Brasil

Lima Belgium sprl
Chaussée de Wavre 504, bte 48
1390 Grez-Doiceau - Belgium
T +32 (0) 10 888 804
F +32 (0) 10 868 117
info@limabelgium.be

Lima Denmark ApS
Lyngebækgårds Allé 2
2990 Nivå - Denmark
T +45 45860028
F +45 4586 0068
mail@Lima-Denmark.dk

Lima Turkey Ortopedi A.S.
Serifali Mah. Hendem CD. Canan
Residence No: 54/C D:2 OFIS-A2,
34775 Umraniye / Istanbul
Turkey
T +90 (216) 693 1373
F +90 (216) 693 2212
info@lima-turkey.com.tr

Lima Orthopaedics South Africa
Northlands Deco Park, Stand 326
10 New Market street
Design Boulevard
Northriding
2189

Lima Polska Sp. z o.o.
Ul. Łopuszańska 95
02-457 Warszawa
Poland
T 0048 22 6312786
F 0048 22 6312604
biuro@limapolska.pl

励玛（北京）医疗器械有限公司
Lima (Beijing) Medical Devices Co., Ltd.
中国北京市朝阳区利泽中二路1号中辰大厦6层 616室
Room 616, 6/F Zhongchen Building, No.1 Lize Zhong 2 Road
Chaoyang District,
Beijing - PR China
limachinaoffice@limacorporate.com

This publication is not intended for distribution in the U.S.

Prescription use only: sold only on or by the order of a physician.

B.5615.23.010.1 032100

limacorporate.com