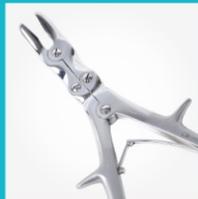


# Orthopaedic Instruments

Products Catalogue



DEDICATED TO BEING  
YOUR PREFERRED  
ORTHOPAEDIC COMPANY  
SINCE 1993.

FDA Approved | CE | ISO 13485 : 2016



Together with the surgeons,  
we are driven to make  
healthcare better.

## PREFACE

It's a moment of great pride for us to present the 2021 edition of Basic Catalogue for Orthopaedics Instruments. This edition brings and demonstrates most comprehensive range of surgical instruments required in Orthopaedics surgery. We have been trying hard since 1993 to offer high quality instruments at affordable price. We have taken all the efforts to continually improve the quality of Instrument while keeping the cost in control.

The conformity to ISO Standards by having the 'ISO 13485:2016 & CE' Certification is a big mile stone which reflects our commitment and dedications towards the word "QUALITY" . The internationally acclaimed use of raw materials, standardized forging - skilled handcrafted - polishing process & packaging in most hygienic conditions enrich our instruments to "PERFECTION" . We keep proper check and measure all the little details count in making the instrument fit for repeated surgical procedures. we aim at making the instrument most vital part of your surgery because We believe that the quality of the instruments makes the perfect "Core of Surgery"

## “ The Most Comprehensive Range of Orthopaedics Instruments ”

**GUARANTEE :** "Ortho Max" Guarantees the quality for all its Instruments. Any item which is found to be defective because of material or poor craftsmanship will be repaired or replaced free of cost.

This Guarantee does not cover products which become defective by misuse or accidental damage.

**2021 Edition**

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# CERTIFICATE

| evaluate | assess | certify |



assessors of quality

Certificate No. MD-QMS/91/R//1430

This is to certify that

## Ortho Max Mfg. Co. Pvt. Ltd.

Corporate Office : A/204-211, The Atlantic, Opp. SRP Group IX, Makarpura,  
Vadodara – 390 010, Gujarat, India

(a list of certified workplaces is contained in Annexure which is inseparable part of this Certificate)

has been found to conform to the requirements of  
Medical Devices - Quality Management System Standard

## ISO 13485:2016

This certificate is valid for the following scope :

**Design, Development, Manufacture and Sales of :**

- > Orthopaedic Implants : Bone Plates, Bone Screws, Nails, Pins and Wires,  
Hip and Spinal Implants
- > Cranio-Maxillofacial Implants : Bone Plates, Bone Screws, Pins and Wires and  
Customized Implants

Initial Certification : 30/09/2020  
Valid until : 29/09/2023



Authorised Signatory

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Issuing Authority: Zenith Quality Assessors Pvt. Ltd.  
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Vishan Nagar, Pune – 411 014, Maharashtra, India  
www.zenith-worldwide.com

CIASMDQMS16-MS06(2)0420 (CI.6.2)

## Drill Bits



Reference	Size
409.100	1 mm X 2.5"
409.150	1.5 mm X 3"
409.200	2 mm X 3"
552.205	2 mm X 5"
552.226	2.2 mm X 6"
552.255	2.5 mm X 5"
552.275	2.7 mm X 5"
552.325	3.2 mm X 5"

Reference	Size
552.278	2.7 mm X 8"
552.328	3.2 mm X 8"
552.408	4 mm X 8"
552.458	4.5 mm X 8"
552.2710	2.7 mm X 10"
552.3210	3.2 mm X 10"
552.410	4 mm X 10"
552.4510	4.5 mm X 10"

## Drill Bits with Coupling End



Reference	Size
553.255	2.5 mm X 5"
553.275	2.7 mm X 5"
553.325	3.2 mm X 5"
553.278	2.7 mm X 8"
553.328	3.2 mm X 8"
553.408	4 mm X 8"
553.458	4.5 mm X 8"

## Drill & Tap Sleeve Double Ended



Reference	Size
558.350	2.7 X 3.5 mm
558.450	3.2 X 4.5 mm

## Drill Sleeve for D.C.P : Centric & Eccentric



Reference	Size
559.350	2.7 X 3.5 mm
559.450	3.2 X 4.5 mm

## Depth Gauge



Reference	Size
561.235	For 3.5 mm
561.245	For 4.5 mm

## Drill / Screw / Wire Gauge Scale



Reference	Size
459.001	6"

## Multiple Dia. Gauge



Reference	Size
562.115	1 to 15 mm

## Counter Sink



Reference	Size
564.350	For 3.5 mm dia. Screw
564.450	For 4.5 mm dia. Screw

## S. S. Scale Simple



Reference	Size
563.006	6" Long
563.012	12" Long

## Bone Tap



Reference	Size
565.3514	3.5 mm (14TPI)
565.3520	3.5 mm (20TPI)
565.4514	4.5 mm (14TPI)

## Quick Coupling Screw Driver Set of Five

- a. Cannulated 4 mm
- b. Cannulated 6.5 mm
- c. Ordinary 8 mm
- d. Hexagonal 3.5 mm
- e. Hexagonal 4.5 mm



Reference
568.001

## Hexagonal Screw Driver



Reference	Size
569.135	3.5 mm
569.145	4.5 mm

## Hexagonal Screw Driver with Quick Coupling Sleeve



Reference	Size
570.350	3.5 mm
570.450	4.5 mm

## Plate Bender in Pair



Reference	Size
571.001	Small
571.002	Big

**Universal Bone Drill**



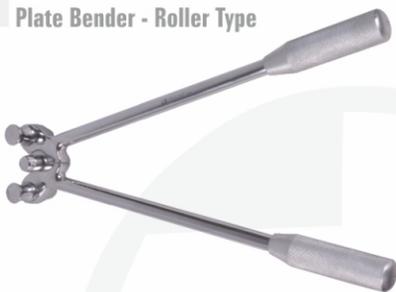
Reference
573.001

**Mini Bone Drill**



Reference
260.002

**Plate Bender - Roller Type**



Reference
574.001

**Reconstruction Plate Bender - Modified**



Reference
575.001

**Hollow Mill - Set of 4**



Reference
577.001

**Broken Screw Removal Forceps**



Reference	Size
578.001	For 3.5 & 4.5 mm

**Damaged Screw Head Removal T Handle**



Reference	Size
578.101	For 3.5 mm
578.102	For 4.5 mm
578.103	For 2.7 mm

**Articulated Tension Device (ATD)**



Reference
910.001

**Socket Wrench for ATD**



Reference
911.001

**Murphy Skid**



Reference
579.001

**Head Extractor - Judet**



Reference
581.001

**A. M. Rasp with Rod**



Reference	Size
580.001	Serrated
580.002	Narrow

**A. M. Prosthesis Gauge**



Reference	Size
582.009	Set of 9

**Nylon Faced Impactor**



Reference
583.001

**A. M. P. Extractor Hook**



Reference
584.001

**Hollow/ Box Chisel**



Reference
585.001

**Femoral Step Reamer**



Reference	Size
587.001	Small
587.002	Big

**Container For A. M. Prosthesis Set**



Reference
935.001

Quick Coupling 'T' Handle



Reference  
591.001

DHS Triple Reamer with Coupling End



Reference	Size
592.001	Standard
594.001	Short

DHS Tap with Coupling End



Reference  
593.001

DHS Triple Reamer for Electric Reaming Handpiece



\* optional

Reference  
599.001

Centering Sleeve

For Tap



For Wrench (Spanner)



Reference	Size
596.001	For Tap
596.002	For Wrench (Spanner)

Angle Guide with Coupling End



Reference	Size
595.1095	95°
595.1135	135°

Angle Guide Adjustable



\* optional

Reference  
605.001

## DHS Wrench (Spanner) Extractor with Coupler



Reference	Size
597.002	Long

## Barrel Punch - Nylon Faced



Reference
607.001

## Tube Guide Cannulated



Reference
602.002

## Guide Wire - Threaded



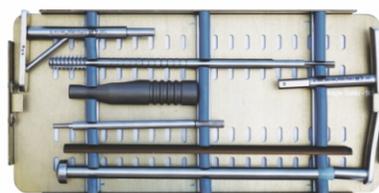
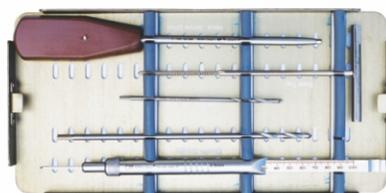
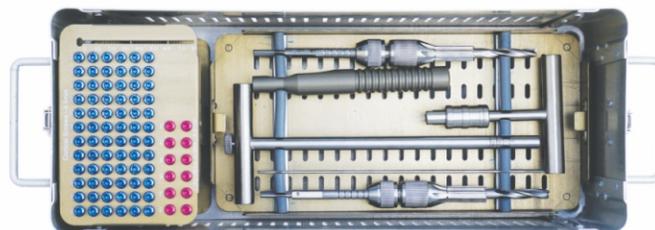
Reference	Size
606.259	2.5 mm X 9"

## Direct Measuring Device



Reference
608.001

## Container for DHS Implants & Instrument Set



• Contents are for illustration only

Reference
797.001

### C. C. Drill Bit



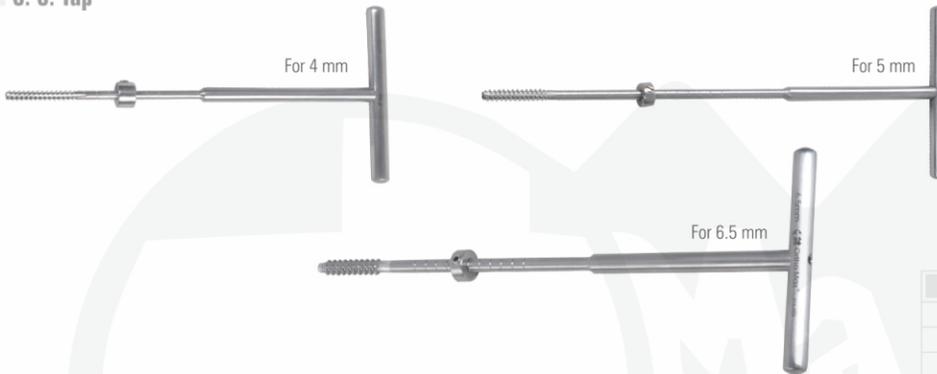
Reference	Size
620.400	3.2 mm dia. for 4 mm
620.500	4 mm dia. for 5 mm
615.650	4.5 mm dia. for 6.5 mm

### Direct Measuring Device



Reference
608.003

### C. C. Tap



Reference	Size
621.400	For 4 mm
621.500	5 mm
616.650	6.5 mm

### C. C. Screw Driver



Reference	Size
622.400	For 4 mm
617.650	For 5/6.5 mm

### Container for Implants & Instrument for C. C. Screw



Reference	Size
797.004	4 mm
797.005	6.5 mm

### Parallel Guide with Spokes



Reference	Size
624.400	For 4 mm
619.650	For 6.5 mm

### Guide Wire Threaded



Reference	Size
623.129	1.2 mm X 9"
623.159	1.5 mm X 9"
618.189	1.8 mm X 9"

## Square Nail Reamers



Reference	Size
631.200	2 mm
631.250	2.5 mm
631.300	3 mm
631.350	3.5 mm
631.400	4 mm
631.450	4.5 mm
631.500	5 mm

## Nail Extractor / Plier



Reference  
804.006

## Rush Nail Impactor / Bender



Reference  
635.001

## Square Nail Punch



Reference	Size
632.001	Straight
632.002	Angled

## Straight Bone Awl with Eye



Reference  
638.001

## Cobbler Awl - Set of 3



Reference  
636.003

## Bone Awl for R/U



Reference	Size
637.001	Trocar Point-Straight
637.002	Tapered

## Extractor Hook for 'K' Nails



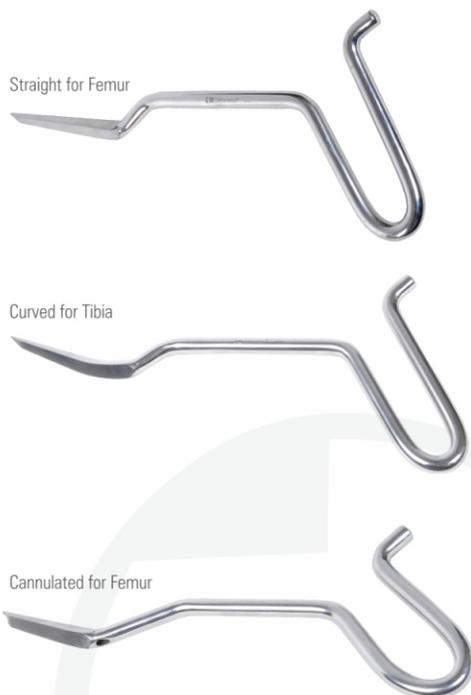
Reference  
648.001

## Tissue Protector



Reference  
649.001

## Bone Awl - Diamond Pointed



Reference	Size
639.001	Straight for Femur
639.002	Curved for Tibia
639.003	Cannulated for Femur

## Intramedullary Reamer for Femur - Solid



Reference	Size
642.106	6 mm
642.107	7 mm
642.108	8 mm
642.109	9 mm
642.110	10 mm
642.111	11 mm
642.112	12 mm

## Intramedullary Reamer for Femur - Cannulated



Reference	Size
643.108	8 mm
643.109	9 mm
643.110	10 mm
643.111	11 mm
643.112	12 mm
643.113	13 mm

\* 2.5 mm Cannulation  
\* 450 mm Long

## Intramedullary Reamer for Humerus - Cannulated



\* 1.5 mm Cannulation  
\* 300 mm Long

Reference	Size
644.006	6 mm
644.007	7 mm
644.008	8 mm

## Intramedullary Nail Extractor Rod



Reference  
647.001

## Intramedullary Nail Extractor Head



Reference  
647.002

## Slotted Hammer



Reference  
928.001

**'K' Wire Bender / Plier**



Reference  
650.001

**Wire Twister - Aesculap Type**



Reference  
651.001

**Wire Tightner with Two Pegs - Rocket Type**



Reference  
652.001

**'K' Wire Bender / Cutter / Plier - 3 in 1**



Reference	Size
453.001	Small
453.002	Big

**Wire Passer - Fiber Handle**



Reference	Size
653.001	Small
653.002	Medium
653.003	Big

**'K' Wire Introducer**



Reference	Size
445.001	For 1 mm to 2 mm

**Multi Purpose Extractor / Plier with vise grip**



Reference  
654.001

**Waston Jone's 'T' Handle**



For 2.5 mm Guide Wire

Reference  
655.001

**'T' Handle with S. S. Chuck & Key**



0 - 6 mm Capacity

Reference  
656.001

**S. S. Chuck & Key Only**



Reference  
656.002

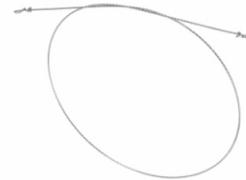
'T' Handle for Schanz Screw



For 3.5 mm X 4.5 mm

Reference
657.001

Gigli Saw Wire



Reference
435.001

Gigli Saw Guide



Reference
437.001

Gigli Saw Handle in Pair



Reference
436.001

K. Wire Container - S.S.



Reference	Size
425.106	6"
425.109	9"
425.112	12"

INSTRUMENTS FOR PAEDIATRIC DHS

Paediatric Inner Reamer for Hip Screw



Reference	Size
610.001	7 mm

Paediatric Outer Reamer for Barrel



Reference
611.001

Paediatric DHS Wrench (Spanner)/ Extractor with Coupler



Reference
613.001

Paediatric DHS Tap



Reference
612.001

Paediatric Barrel Punch - Nylon Faced



Reference
614.001

**Awl for Elastic Nails**



Reference  
804.003

**Insertor for Elastic Nail**



0.4 mm Capacity

Reference  
804.001

**Beveled Tamp**



Reference  
804.007

**Standard Tamp**



Reference	Size
804.008	2/2.5 mm
804.009	3/3.5 mm
804.010	4 mm

**Locking Plier for Elastic Nail**



Reference  
804.006

**Slotted Hammer**



Reference  
628.001

**Hammer**



Reference	Size
744.003	Big

**Extractor Rod**



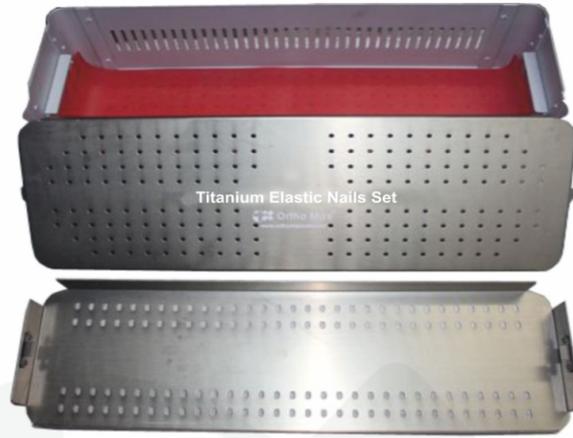
Reference  
804.002

**F Tool**



Reference  
804.005

Container for Titanium Elastic Nails Set



Reference  
935.001

INSTRUMENTS FOR HERBERT SCREW

Cannulated Screw Driver



Reference  
622.400

Container for Herbert Set



Reference  
797.006

Herbert Screw Tap - Cannulated



Reference	Size
668.350	3.5 mm
668.450	4.5 mm

# INSTRUMENTS FOR HERBERT SCREW



**Herbert Direct Measuring Device**



Reference
608.002

**Herbert Screw Drill Bit - Cannulated**



Reference
669.001

**Herbert Guide Wire**



Reference	Size
670.001	1 mm

# INSTRUMENTS FOR SPINAL SURGERY

**Capner Gouge**



Reference	Size
671.005	5 mm
671.010	10 mm
671.015	15 mm
671.020	20 mm

**Cobb's Spinal Elevator**



Reference	Size
672.005	5 mm
672.010	10 mm
672.015	15 mm
672.020	20 mm

**Disc Punch**

Straight



Upward



Downward



Reference	Size
673.02S	Straight-2 mm
673.03S	Straight-3 mm
673.04S	Straight-4 mm
673.05S	Straight-5 mm
673.02U	Upward-2 mm
673.03U	Upward-3 mm

Reference	Size
673.04U	Upward-4 mm
673.05U	Upward-5 mm
673.02D	Downward-2 mm
673.03D	Downward-3 mm
673.04D	Downward-4 mm
673.05D	Downward-5 mm

**Kerrison / Laminectomy Punch-45°**



Reference	Size
675.452U	Upward-2 mm
675.453U	Upward-3 mm
675.454U	Upward-4 mm
675.455U	Upward-5 mm
675.456U	Upward-6 mm

Reference	Size
675.452D	Downward-2 mm
675.453D	Downward-3 mm
675.454D	Downward-4 mm
675.455D	Downward-5 mm
675.456D	Downward-6 mm

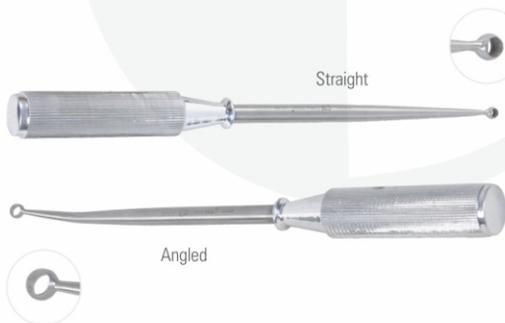
**Kerrison / Laminectomy Punch - 90°**



Reference	Size
675.902U	Upward-2 mm
675.903U	Upward-3 mm
675.904U	Upward-4 mm
675.905U	Upward-5 mm
675.906U	Upward-6 mm

Reference	Size
675.902D	Downward-2 mm
675.903D	Downward-3 mm
675.904D	Downward-4 mm
675.905D	Downward-5 mm
675.906D	Downward-6 mm

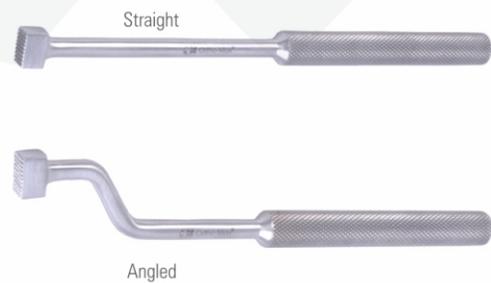
**Ring Currettes**



Reference	Size
676.103	Straight-3 mm Ring
676.105	5 mm Ring

Reference	Size
676.203	Curved -3 mm Ring
676.205	5 mm Ring

**Bone Graft Punch**



Reference	Size
680.001	Straight
680.002	Angled

**Bone Scoop (Volkman) Double Ended**



Reference	Size
677.001	Small
677.002	Medium
677.003	Big

## Bone Scoop with Fibre Handle - Long



Reference	Size
678.004	4 mm
678.006	6 mm
678.008	8 mm
678.010	10 mm

## Self Retaining Mastoid Retractor



Reference	Size
309.004	4"
309.005	5"
309.006	6"
309.008	8"

## Lamina Bone Spreader



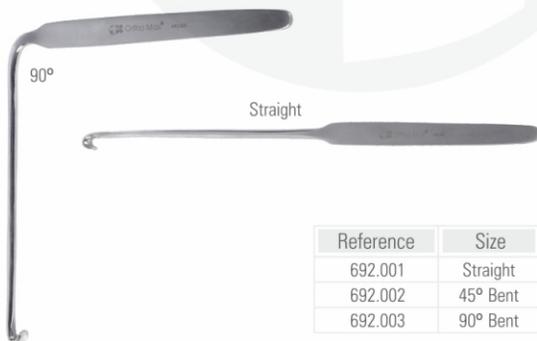
Reference	Size
686.001	Small
686.002	Medium
686.003	Big

## Laminectomy Retractor with Follow up Blades



Reference	Size
682.008	8"
682.010	10"
682.012	12"

## Nerve Root Retractor



Reference	Size
692.001	Straight
692.002	45° Bent
692.003	90° Bent

## McDonald Dissector - Double Ended



Reference
330.001

## Howarth Elevator Double Ended



Reference
693.001

## Dura Retractor / Elevator



Reference
691.001

## Dissector Probe



Reference	Size
344.001	Double Ended

**Bone Cutting Forceps - Double Action**



Reference	Size
365.D5S	Straight- 5 1/2"
365.D5C	Curved- 5 1/2"
365.D7S	Straight- 7 1/2"
365.D7C	Curved- 7 1/2"
365.D9S	Straight - 9 1/2"
365.D9C	Curved- 9 1/2"

**Bone Nibblers - Double Action**



Reference	Size
366.D5S	Straight - 5 1/2"
366.D5C	Curved - 5 1/2"
366.D7S	Straight - 7 1/2"
366.D7C	Curved - 7 1/2"
366.D9S	Straight - 9"
366.D9C	Curved - 9"

**Duckbill Rongeur - Double Action**



Reference
695.001

**Lacksell Rongeur - Double Action**



Reference
695.002

**Sargent Rongeur - Double Action Big**



Reference	Size
694.001	Straight
694.002	Curved

**Strong Bone Cutter - Double Action**



Reference	Size
367.001	Slightly Curved

# BONE CUTTERS & NIBBLERS



**Tudor Edward Bone Cutting Forceps**



Reference	Size
696.045	45° Angle

**Rib Cutter - Double Action - Big**



Reference
369.001

**Doyen's Rib Shear**



Reference
368.001

**Rib Raspatory**



Reference	Size
370.001	Right & Left in Pair

# BONE HOLDING FORCEPS & CLAMPS

**Self Centering Forceps**



Reference	Size
702.006	6"
702.008	8"
702.010	10"

**Finger Holding Forceps - Radiolucent**



Reference
703.001

**Reduction Forceps 'Serrated Jaws'**



Reference	Size
704.006	6"
704.008	8"
704.010	10"

**Bone Holding Forceps - Pointed**



Reference	Size
273.006	6"

Periarticular Reduction Forceps



Reference	Size
932.001	Medium
932.002	Large

Bone Holding Forceps with K Wire Hole



Reference	Size
704.106	6"
704.108	8"

Malleolar Forceps - Pointed



Reference	Size
705.005	5"
705.008	8"
705.010	10"

Patella Clamp Plain



Single Prong



Double Prongs

Reference	Size
706.001	Single Prong
706.002	Double Prong

Patella Clamp with Guard



Single Prong



Double Prongs

Reference	Size
706.004	Single Prong
706.005	Double Prong

# BONE HOLDING FORCEPS & CLAMPS



## Lowman Bone Clamp Double Jaw



Reference	Size
707.001	Small
707.002	Medium
707.003	Big

## Bone & Plate Holding Forceps - Modified



Reference	Size
709.001	6"
709.002	8"
709.003	10"

## Heygrove's Bone Holding Forceps



Reference	Size
713.108	8"
713.110	10"
713.112	12"

# BONE LEVERS, HOOKS & RETRACTORS

## Bone Lever for Radius / Ulna



Reference	Size
716.001	Plain
716.002	Serrated
716.003	Trethowan

## Bone Lever for Humerus / Tibia



Reference	Size
717.001	Plain
717.002	Serrated

## Hohman Retractor



Reference	Size
718.008	8 mm
718.010	10 mm
718.012	12 mm
718.015	15 mm
718.020	20 mm

Reference	Size
718.025	25 mm
718.030	30 mm
718.035	35 mm
718.045	45 mm
718.065	65 mm

## Kilner Skin Retractor ( Cat Paw ) - Double Ended



Reference	Size
294.001	Double Ended

## Bone Hook



Reference	Size
720.001	Small 3/4 x 10"
720.002	Medium 1" x 10"
720.003	Big 1 1/4" x 10"

## Right Angle Retractor Lengenback



Reference	Size
300.1030	Small 10mm X 30mm deep
300.1545	Small 15mm X 45mm deep
300.2060	Medium 20mm X 60mm deep
300.2575	Big 25mm X 75mm deep
300.3090	Extra Big 30mm X 90mm deep

## Periosteal Elevator Big



Reference	Size
721.001	Straight
721.002	Curved

## Gillies Skin Hook



Reference	Size
358.001	Flat Handle
358.002	Round Handle

Reference
334.001

## Bristow Periosteal Elevator



## Farabeuf Rugine



Reference	Size
722.001	Straight
722.002	Curved
722.003	Double Ended

## Double (McIndoe) Skin Hook



Reference
361.001

## Periosteal Elevator with Fibre Handle



Reference	Size
333.001	No. 1
333.002	No. 2
333.003	No. 3
333.004	No. 4

Reference	Size
333.005	No. 5
333.006	No. 6
333.007	No. 7
333.008	No. 8

## Tessior Osteotomes



Reference	Size	Reference	Size
372.S05	Straights 5mm	372.C05	Curved 5mm
372.S10	Straights 10mm	372.C10	Curved 10mm
372.S15	Straights 15mm	372.C15	Curved 15mm
372.S20	Straights 20mm	372.C20	Curved 20mm
372.S25	Straights 25mm	372.C25	Curved 25mm
372.S30	Straights 30mm	372.C30	Curved 30mm

## Osteotomes with Fibre Handle



Reference	Size
731.S05	Straights 5mm
731.S10	Straights 10mm
731.S15	Straights 15mm
731.S20	Straights 20mm
731.S25	Straights 25mm

Reference	Size
731.C05	Curved 5mm
731.C10	Curved 10mm
731.C15	Curved 15mm
731.C20	Curved 20mm
731.C25	Curved 25mm

## Gouge Stilli Type



Reference	Size
730.S05	Straights 5mm
730.S10	Straights 10mm
730.S15	Straights 15mm
730.S20	Straights 20mm
730.S25	Straights 25mm

Reference	Size
730.C05	Curved 5mm
730.C10	Curved 10mm
730.C15	Curved 15mm
730.C20	Curved 20mm
730.C25	Curved 25mm

## Bone Grafting Gouge with Fibre Handle



Reference	Size
732.S05	Straights 5mm
732.S10	Straights 10mm
732.S15	Straights 15mm
732.S20	Straights 20mm
732.S25	Straights 25mm

Reference	Size
732.C05	Curved 5mm
732.C10	Curved 10mm
732.C15	Curved 15mm
732.C20	Curved 20mm
732.C25	Curved 25mm

## Chisel Stilli Type



Reference	Size
729.005	5mm
729.010	10mm
729.015	15mm
729.020	20mm

## Fine Osteotomes



Reference	Size	Reference	Size
373.S02	Straights 2mm	373.C02	Curved 2mm
373.S03	Straights 3mm	373.C03	Curved 3mm
373.S04	Straights 4mm	373.C04	Curved 4mm
373.S05	Straights 5mm	373.C05	Curved 5mm
373.S06	Straights 6mm	373.C06	Curved 6mm
373.S08	Straights 8mm	373.C08	Curved 8mm
373.S10	Straights 10mm	373.C10	Curved 10mm
373.S12	Straights 12mm	373.C12	Curved 12mm

Plaster Saw



Reference	Size
733.001	Engle Type
733.002	Big Handle

Plaster Bender



Reference
736.001

Electric Plaster Cutting Saw with 2 Blades in a Bag



Reference
734.001

S. S. Blade for Electric Plaster Saw



Reference	Size
735.001	Small
735.002	Big

Plaster Scissors with Spring



Reference
737.001

Plaster Knife



Reference
739.001

Plaster Spreader Hennings



Reference
740.001

**Amputation Saw**



Reference
741.001

**Finger Saw**



Reference
441.001

**Bone File with Fiber Handle**



Reference
742.001

**Putti's Rasp - Double Ended**



Reference	Size
743.001	Double Ended

**Hammer**



Reference	Size
744.001	Small
744.002	Medium
744.003	Big
744.004	Extra Big

**Tendon Tunneling Forceps**



Reference	Size
432.08S	Fine Straight 8"
432.08C	Fine Curved 8"
432.10S	Fine Straight 10"
432.10C	Fine Curved 10"

**Bohler Stirrups**



Reference	Size
746.008	8"
746.010	10"
746.012	12"
746.016	16"
746.020	20"
746.024	24"

**Tendon Stripper**



Reference	Size
433.416	4mm x 16"
433.516	5mm x 16"
433.616	6mm x 16"

Crutch Field Tong



Reference	Size
749.006	Small 6"
749.008	Medium 8"
749.010	Big 10"

Universal Extractor Set for Nail with 6 Bolts



Reference
918.001

EXTERNAL FIXATORS

Aesculap Type Clamps

For Tibia / Femur



Pin x Rod Size : 4.5mm x 8mm

For Radius / Ulna



Pin x Rod Size : 3.5mm x 4mm

For Metacarples



Pin x Rod Size : 2.5mm x 4mm

Reference	Size
751.001	For Tibia / Femur
751.002	For Radius / Ulna
751.003	For Metacarples

Universal Clamps

For Tibia / Femur Single Pin



Pin x Rod Size :  
4.5mm x 11mm

For Tibia / Femur Double Pin



Pin x Rod Size :  
4.5mm x 11mm

For Radius / Ulna



Pin x Rod Size :  
3.5mm x 4mm

For Metacarples



Pin x Rod Size :  
2.5mm x 4mm

Reference	Size
752.001	For T/F - Single Pin
752.002	For T/F - Double Pin
752.003	For Radius / Ulna
752.004	For Metacarples

## Rod to Rod / Tube to Tube Clamp

Aesculap Type



Rod Size : 8mm x 8mm

Universal



Rod Size : 11mm x 11mm

Reference	Size
755.001	Aesculap Type
755.002	Universal

## Metaphyseal Clamp / Transverse Clamp



Rod x Rod Size : 4.5mm x 11mm

Reference
758.001

## Tubular Rod 8mm dia ( for Aesculap Type Clamps )



Reference	Size
753.006	6", 8", 10", 12"
to	14", 16"
753.020	18", 20"

## Tubular Rod 11mm dia (for Universal Clamps)



Reference	Size
754.006	6", 8", 10", 12"
to	14", 16"
754.020	18", 20"

## External Fixator / Distractor for Finger - Single Rod



Reference	Size
759.103	1.5mm x 3"
759.104	2mm x 4"
759.105	2.5mm x 5"

## External Fixator / Distractor for Finger - Double Rod



Reference	Size
416.001	1.5mm x 3"
416.002	2mm x 4"
416.003	2.5mm x 5"

Trocar Sleeve - 3 in 1 with Handle



Reference	Size
764.235	3.5mm
764.245	4.5mm
764.265	6.5mm

Compression / Distraction Rod



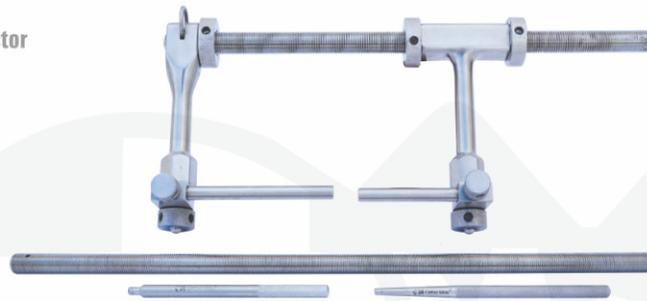
For Radius / Ulna



For Humerus / Tibia

Reference	Size
762.008	8"
762.010	10"

Femoral Large Distractor



- With extra long rod

Reference
766.001

LIMB RECONSTRUCTION SYSTEM (LRS)

LRS Rail Patti



Reference	Size
913.200	200 mm
913.250	250 mm
913.300	300 mm
913.400	400 mm

LRS Centre Clamp



Reference
914.001

LRS End Clamp



Reference
914.002

LRS Swivel Clamp



Reference
914.003

LRS Ball & Socket Clamp



Reference
914.004

LRS 'T' Clamp



Reference
914.005

## LRS CD Unit



Reference	Size
915.001	Small
915.002	Medium
915.003	Large

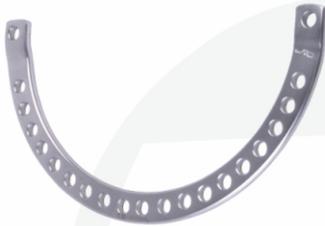
## Allen Key for LRS



Reference
915.004

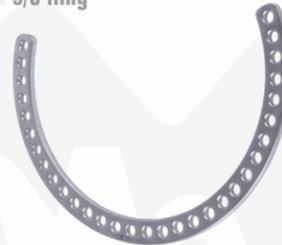
# ILIZAROV EXTERNAL FIXATOR SYSTEM

## Half Ring



Reference	Size
767.080	80 mm
767.100	100 mm
767.120	120 mm
767.140	140 mm
767.150	150 mm
767.160	160 mm
767.180	180 mm
767.200	200 mm

## 5/8 Ring



Reference	Size
768.160	160 mm
768.180	180 mm

## Italian Femoral Arches



Reference	Size
770.002	Large

## Threaded Rods



Reference	Size
771.002	50mm(2")
771.003	70mm(3")
771.004	100mm(4")
771.005	125mm(5")
771.006	150mm(6")
771.007	175mm(7")

Reference	Size
771.008	200mm(8")
771.010	250mm(10")
771.012	300mm(12")
771.014	350mm(14")
771.016	400mm(16")

## Threaded Socket



Reference	Size
773.020	20 mm
773.030	30 mm
773.040	40 mm
773.060	60 mm

## Connection Nut



Reference
774.001

## Connection Bolt



Reference
775.001

## Washer

Simple with Cut



Serrated



Conical Couple



Reference	Size
779.001	Simple with Cut
779.002	Serrated
779.003	Conical Couple

## Wire Fixation Bolt

Centric Hole



Eccentric Hole



Reference	Size
776.001	Centric
776.002	Eccentric

## Tension Wire



Trocar Point



Bayonet Point

Reference	Size
777.137	1.8 mm x 37
777.147	47 cm

Reference	Size
777.237	1.8 mm x 37
777.247	47 cm

## Olive Wire



Reference	Size
778.180	1.8 mm

## Spiral ( Twisted ) Plates



Reference	Size
782.002	2 Holes
782.003	3 Holes
782.004	4 Holes

## Extension Post

Male

Female



Reference	Size
780.102	2 Holes
780.103	3 Holes
780.104	4 Holes
780.105	5 Holes
780.106	6 Holes

Reference	Size
780.202	2 Holes
780.203	3 Holes
780.204	4 Holes
780.205	5 Holes
780.206	6 Holes

## Oblique Support



Reference
784.001

## Bushing



Reference
785.001

## Hinges

Male

Female



Reference	Size
781.001	Male
781.002	Female

## Square Nut with Marking



Reference
790.001

## Mono / Schanz Screw Clamp



Reference
786.001

## Wrencho Cube



Reference	Size
788.002	2 Hole
788.003	3 Hole
788.004	4 Hole
788.005	5 Hole
788.006	6 Hole

## Connection Plates



Reference	Size	Reference	Size
912.002	2 Hole	912.010	10 Hole
912.004	4 Hole	912.012	12 Hole
912.006	6 Hole	912.014	14 Hole
912.008	8 Hole	912.016	16 Hole

## Wrenches ( Spanner )



Reference	Size
791.001	Simple
792.002	Ring

## Wire Tensioner



Reference
793.001

## Dianamometric Tensioner



Reference
794.001

# INSTRUCTIONS FOR USE & MAINTENANCE OF INSTRUMENTS

## STORAGE

Surgical instruments should be stored in sterilizing trays of proper size lined with soft silicone mats. Instruments should not touch with each other. We recommend using protective tips made of soft silicone tubing of the proper size and thickness. Do not use rubber or plastic protective tips, which can melt during autoclaving and cause damage to instruments.

## INTENDED USE

The instruments shall be used for its' intended purpose only failing of which can lead to permanent damage or breakage of the instrument.

## INSPECTION

Handle the instruments with care and be sure to inspect every instrument at the end of your surgical day. Please conduct this inspection under a microscope or with magnification lens for fine instrument.

## CLEANING

**Manual Cleaning** – All the new instruments must be decontaminated, lubricated and sterilized prior to each use. Use a mild soap solution approved for surgical instruments with a soft brush or instrument wipe to clean instrument and remove stains. Never use abrasive powders or steel wool to remove stubborn stains—these can damage the super fine finish of an instrument and can actually help cause corrosion of stainless instruments. Use distilled and treated water to rinse instruments thoroughly then carefully dry them with a hot air blower or lint-free cloth.

**Ultrasonic Cleaning** - This is the best method of cleaning surgical instruments. Use only cleaning solutions approved for surgical instruments. Change the solution frequently, always use treated or distilled water. Heat water to 150° Fahrenheit (62 ° C) using an immersion heater, or in a separate stainless container, if your unit does not have an automatic built-in water heater. Be sure that you and your staff members are completely familiar with the manufacturer's instructions, which came with your ultrasonic cleaner. Instruments should never touch each other in the ultrasonic cleaner. After removing instruments from the ultrasonic cleaner, rinse the instruments under running water first, and then rinse again in clean demineralized water. Instruments should never be air dried in room temperature because this will cause corrosion on stainless instruments especially in knurled and laser engraved areas. This is why it is highly recommend using a hot air blower to thoroughly dry the instruments. Do not use acidic or alkaline solutions for cleaning because it removes the instruments' protective barrier of chromium oxide and can lead to corrosion, pitting or even breakage also.

## CAUTION

Keep the instruments out of touch of following solutions: Aqua Regia- Iodine – Ferric Chloride – Sulfuric Acid – Hydrochloride Acid. Any kind of corrosion will lead to rust on steel and rust particles can be transferred from one instruments to other. Therefore any corroding instrument should be removed from service to prevent the formation of rust to other instruments

## LUBRICATION

It is recommended to lubricate all moving parts after each cleaning. Use only silicone or Teflon lubricants which can hold up under autoclaving. Never use ordinary lubricants or cover up even the slightest corrosion with a lubricant

## STERILIZATION

Stainless Steel instruments can be sterilized via steam autoclaving, chemical disinfectants, ethylene oxide gas, or even dry hot air. Gas and dry chemical sterilization are the best methods for stainless steel instruments, but they take a lengthy time period to accomplish the desired result. The most practical method of sterilization is heat or steam, which require less time. However, these methods can be damaging to delicate stainless steel instruments and instruments with Fiber or Teflon handles. Take care when sterilizing your instruments. And, once again, be sure that you and your staff have read and fully understood the instructions supplied by the manufacturer of your particular sterilizer. It is advisable to sterilize the instruments in the open position or disassembled because steam will only sterilize the surface where it can touch directly. Kindly follow above instruction to enjoy long service life of the instruments.



■ **CORPORATE OFFICE**

A/204 - 211, THE ATLANTIC,  
Opp. SRP Group IX, Makarpura Road,  
Vadodara - 390 010, Guj. India

☎ +91 89800 15555  
+91 89800 25555

■ **MFG. UNIT & REGD. OFFICE**

C-1-B/886/4, G.I.D.C. Estate, Makarpura,  
Vadodara - 390 010, Guj. India

✉ info@orthomaxindia.net  
admin@orthomaxindia.net