

Specification Guide

ADLER[®] Trauma Instrumentation



Table of Contents

D.H.S Basic Instrument Set	3
Basic Instrument Set	5
Small Fragment Instrument Set	7
Mini Fragment Instrument Set	10
General Instrument Set	13
Wire Instrument Set	15
E0204.00 Plate Set , Auto Compression Hole - ADLER°	17
E0203.00 Large Screw Set Hex Slot - ADLER°	18
CHS / DCS Implant Set (ADLER° Implants)	20
Large Cannulated Screw Implant Set (ADLER° Implants).....	21
Large Cannulated Screw Instrument Set- ADLER°	23
Precautions to be taken before usage of Implants	25

D.H.S Basic Instrument Set



Code No	Description	Qty - Set Content
D0106.1301	Aluminium Case, long, blue (for DHS Instrument/ DHS Implant/ Zeta Implant Set)	1
D0107.2105	S.S Tray 1 for DHS Instrument Set	1
D0107.2106	S.S Tray 2 for DHS Instrument Set	1
D1201.00	Guide Wire (2.5mm X 230mm Length), ADLER®	10
D1212.135	C.H.S. Angle Guide (Q.C.) 135 Deg., ADLER®	1
D1204.00	Direct Measuring Device, ADLER®	1
D1208.00	C.H.S. Wrench, ADLER®	1
D1203.01	C.H.S. T Handle With Q.C., ADLER®	1
D1205.04	C.H.S. Tri-Action Reamer Q.C. for 38mm Barrel length, ADLER®	1
D1212.00	Impactor For C.H.S..Plates, ADLER®	1
D1206.01	C.H.S./D.C.S.Tap with Q.C. 12.5mm, ADLER®	1
D1207.00	Centering Sleeve For Tap, ADLER®	1
D1209.00	Centering Sleeve for Wrench, ADLER®	1
D1210.00	Coupling Screw, ADLER®	1
D1211.00	Guide Shaft, ADLER®	1
D1210.01	Coupling Screw For Removal, ADLER®	1
Optional - DHS/DCS Instruments		
D1212.095	D.C.S Angle Guide, ADLER®	1
D1205.0503	DHS Reamer, for DHS plates with short barrel (for Use with Inner Drill of Standard DHS Triple Reamer, complete), ADLER®	1
D1205.06	DCS Triple Reamer, complete, for DCS plates, ADLER®	1
D1212.015	Adjustable Angle Guide 135-150 Deg., ADLER®	1

D.H.S Basic Instruments

D1201.00
Guide Wire
(2.5mm X 230mm Length)

Not illustrated

D1212.135
C.H.S. Angle Guide (Q.C.)
135 Deg.

Not illustrated

D1204.00
Direct Measuring Device



D1208.00
C.H.S. Wrench



D1203.01
C.H.S. 'T' Handle With Q.C.



D1205.04
C.H.S. Tri-Action Reamer Q.C.
for 38mm Barrel length,



D1212.00
Impactor For C.H.S. Plates



D1206.01
C.H.S./D.C.S. Tap with Q.C. 12.5mm



D1207.00
Centering Sleeve For Tap



D1209.00
Centering Sleeve for Wrench



D1210.00
Coupling Screw, ADLER®



D1211.00
Guide Shaft



D1210.01
Coupling Screw For Removal



D.H.S/DCS Instruments - Optional

D1212.095
D.C.S Angle Guide

Not illustrated

D1212.015
Adjustable Angle Guide
135-150 Deg.



D1205.0503
DHS Reamer, for DHS plates
with short barrel
(for use with Inner Drill of Standard
DHS Triple Reamer, complete)



D1205.06
DCS Triple Reamer, complete,
for DCS plates



Basic Instrument Set



Code No	Description	Qty - Set Content
D0106.1201	Aluminium Case, long, yellow (for Basic/Small/Mini Fragment/ Tub ExFix and Large Screw Set)	1
D0107.2107	S.S Tray for Basic Set Instruments (German pattern)	1
D0107.2108	S.S Tray, separated for Instruments (German pattern)	1
D0211.32	Drill Bit Q.C ADLER° - Ø3.2mm, Length 145mm	3
D0211.45	Drill Bit Q.C ADLER° - Ø4.5mm, Length 145mm	2
D0202.451	Countersink, ADLER°, Large, length 180mm	1
D0204.02	T-handle Q.C, ADLER°, Length 80mm	1
D0213.45	Tap Q.C ADLER° - Ø4.5mm, Length 130mm	2
D0213.65	Tap Q.C ADLER° - Ø6.5mm, Length 130mm	1
D0227.4532	Double Drill Sleeve, ADLER°, 4.5mm/3.2mm	1
D0228.4532	Insert Drill Sleeve, ADLER°, 4.5mm/3.2mm, length 80mm	1
D0227.6532	Double Drill Sleeve, ADLER°, 6.5mm/3.2mm	1
D0216.352	Hex Screwdriver fibre handle, 3.5 a/f, length 270mm with groove for holding sleeve, for large bone screws	1
D0216.351	Hex. Screwdriver Q.C, ADLER° 3.5 A/F	1
D0216.353	Holding Sleeve, ADLER°, large, length 120mm	1
D0207.0311	Depth Gauge, ADLER° for large screws	1
D0207.041	Sharp Hook, ADLER° length 155mm	1
C0503.01	Tension Device, ADLER°, Articulated	1
G1002.011	Combination Wrench, ADLER°, 11mm, length 140mm	1
D0205.1321	Load & Neutral Drill Guide, ADLER°, 4.5mm	1
D0305.1221	Template for contouring plates Large DCP/LCDCP, ADLER° - 7 H x 120mm	1
D0305.1231	Template for contouring plates Large DCP/LCDCP, ADLER° - 9 H x 155mm	1
D0305.1241	Template for contouring plates Large DCP/LCDCP, ADLER° - 12 H x 210mm	1

Basic Instruments

D0211.32

Drill Bit Q.C ADLER°
 Ø3.2mm, Length 145mm



D0211.45

Drill Bit Q.C ADLER°
 Ø4.5mm, Length 145mm



D0202.451

Countersink, ADLER°, Large,
 length 180mm



D0204.02

T-handle Q.C, ADLER°,
 Length 80mm



D0213.45

Tap Q.C ADLER°
 Ø4.5mm, Length 130mm



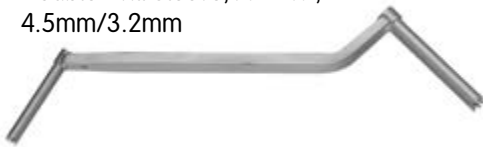
D0213.65

Tap Q.C ADLER°
 Ø6.5mm, Length 130mm



D0227.4532

Double Drill Sleeve, ADLER°,
 4.5mm/3.2mm



D0228.4532

Insert Drill Sleeve, ADLER°,
 4.5mm/3.2mm, length 80mm



D0227.6532

Double Drill Sleeve, ADLER°,
 6.5mm/3.2mm



D0216.352

Hex Screwdriver fibre handle,
 3.5 a/f, length 270mm with groove
 for holding sleeve, for large bone screws



D0216.353

Holding Sleeve, ADLER°, large,
 length 120mm



D0216.351

Hex. Screwdriver Q.C, ADLER° 3.5 A/F



D0207.0311

Depth Gauge, ADLER°
 for large screws



D0207.041

Sharp Hook, ADLER°
 length 155mm



C0503.01

Tension Device,
 ADLER°, Articulated



G1002.011

Combination Wrench,
 ADLER°, 11mm,
 length 140mm



D0205.1321

Load & Neutral Drill Guide, ADLER°, 4.5mm



D0305.1221

Template for contouring plates Large DCP/LCDCP,
 ADLER° - 7 H x 120mm

D0305.1231

Template for contouring plates Large DCP/LCDCP,
 ADLER° - 9 H x 155mm

D0305.1241

Template for contouring plates Large DCP/LCDCP,
 ADLER° - 12 H x 210mm



Small Fragment Instrument Set



Code No	Description	Qty - Set Content
D0106.1201	Aluminium Case, long, yellow (for Basic/Small/Mini Fragment/ Tub ExFix and Large Screw Set)	1
D0107.2108	S.S Tray, separated for Instruments (German pattern)	1
D0107.2301	S.S Tray for Small Fragment Implants (German pattern)	1
D0211.25	Drill Bit Q.C 'ADLER' - Ø2.5mm, Length 110mm	2
D0211.35	Drill Bit Q.C 'ADLER' - Ø3.5mm, Length 110mm	2
D0202.201	Small Countersink, ADLER°, Tip 2.0mm	1
D0213.35	Tap Q.C 'ADLER' - Ø3.5mm X 1.25mm Pitch, Length 110mm	2
D0213.351	Tap for Small Cancellous Bone Screws, ADLER°	2
D0204.02	T-handle Q.C, Length 80mm, ADLER°	1
D0227.3525	Double Drill Sleeve 3.5mm/2.5mm, ADLER°	1
D0228.3525	Insert Drill Sleeve 3.5/2.5mm, ADLER°	1
D0216.251	Hex Screwdriver Q.C. 2.5 a/f, ADLER°	1
D0216.252	Hex Screwdriver with fibre handle, 2.5 a/f, for use with Holding Sleeve, for Small bone screws, ADLER° (includes Holding Sleeve D0216.253)	1
D0216.253	Holding Sleeve, length 80mm for Hex Screwdriver, Small, ADLER°	1
D0207.0211	Depth Gauge for Small Screws, ADLER°	1
D0207.041	Sharp Hook, length 155mm, ADLER°	1
D0305.01	Clips For Plates, ADLER°	2
D0207.051	Screw Forceps, ADLER°	1
D0205.1251	Load & Neutral Drill Guide, 3.5mm, ADLER°	1
D0304.0121	Bending Iron For Small Plates, Slits 4.5/2.5, ADLER°	1
D0304.0131	Bending Iron For Small Plates, Slits 2.5/4.5, ADLER°	1
D0304.0211	Bending Pliers For Finger Plates, ADLER°	1
D0305.1311	Template for contouring plates Small DCP/LCDCP - 5 H x 63mm - 7 holes, ADLER°	1
D0305.1321	Template for contouring plates Small DCP/LCDCP - 7 H x 87mm - 9 holes, ADLER°	1
C1102.01	Wire Bending Pliers, length 155mm, ADLER°	1
D0304.0111	Bending Iron for Kirschner Wires 1.25 to 2.5mm Dia., length 120mm, ADLER°	1
D0803.132	Reduction Forceps with points, wide, length 132mm, ratchet lock, ADLER°	1
D0804.1301	Reduction Forceps with points, length 130mm, ADLER°	1
D0803.1401	Reduction Forceps, serrated, length 140mm, ratchet lock, ADLER°	1
D0802.1901	Bone Holding Forceps, Self-centering, length 190mm, speed-lock	1
D0901.021	Retractor, Small, 8mm wide, short, Narrow Tip, length 160mm	2
D0902.10	Periosteal Elevator, round edge, 6mm wide, length 200mm	1
D0901.041	Retractor, 15mm wide, length 160mm	2

Small Fragment Instruments

D0211.25

Drill Bit Q.C ADLER° -
Ø2.5mm, Length 110mm



D0211.35

Drill Bit Q.C ADLER° -
Ø3.5mm, Length 110mm



D0202.201

Small Countersink, ADLER°,
Tip 2.0mm



D0213.35

Tap Q.C ADLER° - Ø3.5mm X 1.25mm Pitch,
Length 110mm



D0213.351

Tap for Small Cancellous
Bone Screws, ADLER°



D0204.02

T-handle Q.C,
Length 80mm, ADLER°



D0227.3525

Double Drill Sleeve
3.5mm/2.5mm, ADLER°

Not illustrated

D0228.3525

Insert Drill Sleeve 3.5/2.5mm, ADLER°



D0216.251

Hex Screwdriver Q.C. 2.5 a/f, ADLER°



D0216.252

Hex Screwdriver with fibre handle,
2.5 a/f, for use with Holding Sleeve, for
Small bone screws, ADLER° (includes
Holding Sleeve D0216.253)



D0216.253

Holding Sleeve, length 80mm for Hex
Screwdriver, Small, ADLER°



D0207.0211

Depth Gauge for Small Screws, ADLER°



D0207.041

Sharp Hook,
length 155mm, ADLER°



D0305.01

Clips For Plates, ADLER°

Not illustrated

D0207.051

Screw Forceps, ADLER°



D0205.1251

Load & Neutral Drill Guide, 3.5mm,
ADLER°



D0304.0131

Bending Iron For Small Plates, Slits
2.5/4.5, ADLER°



D0304.0121

Bending Iron For Small Plates,
Slits 4.5/2.5, ADLER°



D0304.0211

Bending Pliers For Finger Plates, ADLER°



Small Fragment Instruments-Contd.

D0305.1311

Template for contouring plates
Small DCP/LCDCP
5 H x 63mm - 7 holes, ADLER°



D0305.1321

Template for contouring plates
Small DCP/LCDCP
7 H x 87mm - 9 holes, ADLER°



D304.024

Wire Bending Pliers,
length 155mm, ADLER°



D0304.0111

Bending Iron for Kirschner Wires
1.25 to 2.5mm Dia., length 120mm, ADLER°



D0803.132

Reduction Forceps with points, wide,
length 132mm, ratchet lock, ADLER°



D0804.1301

Reduction Forceps with points,
length 130mm, ADLER°



D0803.1401

Reduction Forceps, serrated,
length 140mm, ratchet lock, ADLER°



D0802.1901

Bone Holding Forceps, Self-centering,
length 190mm, speed-lock



D0901.021

Retractor, Small, 8mm wide, short,
Narrow Tip, length 160mm



D0901.041

Retractor, 15mm wide, length 160mm



D0902.10

Periosteal Elevator, round edge,
6mm wide, length 200mm



Mini Fragment Instrument Set



Code No	Description	Qty - Set Content
D0106.1201	Aluminium Case, long, yellow (for Basic/Small/Mini Fragment/Tub ExFix and Large Screw Set)	1
D0107.2302	S.S Tray for Mini Fragment Implants (German pattern)	1
D0107.2108	S.S Tray, separated for Instruments (German pattern)	1
D0211.11	Drill Bit Q.C. 1.1mm, ADLER'	2
D0211.15	Drill Bit Q.C. 1.5mm, ADLER'	2
D0211.20	Drill Bit Q.C. 2.0MM, ADLER'	2
D0211.27	Drill Bit Q.C. 2.7MM, ADLER'	2
D0202.271	Countersink Shaft 2.7, length 62mm, ADLER'	1
D0202.151	Countersink Shaft 1.5/2.0, length 52mm, ADLER'	1
D0204.03	Handle with Mini Quick Coupling, ADLER'	1
D0213.15	Tap Q.C. 1.5mm, ADLER'	2
D0213.20	Tap Q.C. 2.0mm, ADLER'	2
D0213.27	Tap Q.C. - 2.7mm, ADLER'	2
D0204.04	Handle with Quick Coupling, ADLER'	1
D0227.1511	Double Drill Sleeve 1.5/1.1mm, Adler	1
D0227.2015	Double Drill Sleeve 2.0/1.5mm, ADLER'	1
D0227.2720	Double Drill Sleeve 2.7/2.0mm, ADLER'	1
D0216.251	Hex Screwdriver Q.C. 2.5 a/f, ADLER'	1
D0216.252	Hex Screwdriver with fibre handle, 2.5 a/f, for use with Holding Sleeve, for Small bone screws, ADLER'	1
D0216.253	Holding Sleeve, length 80mm for Hex Screwdriver, Small, ADLER'	1
D0216.151	Screwdriver Shaft hexagonal, with holding sleeve (for 1.1/1.5mm screws), ADLER'	1
D0207.0211	Depth Gauge for Small Screws, ADLER'	1
D0207.012	Depth Gauge for Mini Screws, ADLER'	1
D0207.041	Sharp Hook, length 155mm, ADLER'	1
D0305.01	Clips For Plates, ADLER'	6
D0207.051	Screw Forceps, ADLER'	1
D0304.0112	Bending Iron For Mini/Small Plates, ADLER'	1
D0304.0211	Bending Pliers For Finger Plates, ADLER'	1
D0304.024	Wire Bending Plier, length 155mm, ADLER'	1
D0304.025	Wire cutter, short, length 175mm, ADLER'	1
D0304.0111	Bending Iron for Kirschner Wires 1.25 to 2.5mm Dia., length 120mm, ADLER'	1
D0804.1301	Reduction Forceps with points, length 130mm, ADLER'	1
D0803.132	Reduction Forceps with points, wide, length 132mm, ratchet lock, ADLER'	1
D0801.011	Holding forceps for small plate, length 135mm, ADLER'	1
D0901.022	Retractor, small, 6mm wide, short, narrow tip, length 160mm, ADLER'	1
D0901.021	Retractor, Small, 8mm wide, short, Narrow Tip, length 160mm	1
D0902.12	Periosteal Elevator, straight edge, 3mm wide, length 200mm, ADLER'	1
D0901.041	Retractor, 15mm wide, length 160mm	2

Mini Fragment Instruments

D0211.11

Drill Bit Q.C. 1.1mm, ADLER°

D0211.15

Drill Bit Q.C. 1.5mm, ADLER°

D0211.20

Drill Bit Q.C. 2.0mm, ADLER°

D0211.27

Drill Bit Q.C. 2.7mm, ADLER°



D0202.271

Countersink Shaft 2.7, length 62mm, ADLER°



D0202.151

Countersink Shaft 1.5/2.0, length 52mm, ADLER°



D0204.03

Handle with Mini Quick Coupling, ADLER°



D0213.15; D0213.20; D0213.27

Tap Q.C. 1.5mm, 2.0mm, 2.7mm, ADLER°



D0204.04

Handle with Quick Coupling, ADLER°



D0227.1511

Double Drill Sleeve 1.5/1.1mm, ADLER°



D0227.2015

Double Drill Sleeve 2.0/1.5mm, ADLER°



D0227.2720

Double Drill Sleeve 2.7/2.0mm, ADLER°



D0216.251

Hex Screwdriver Q.C. 2.5 a/f, ADLER°



D0216.252

Hex Screwdriver with fibre handle, 2.5 a/f, for use with Holding Sleeve, for Small bone screws, ADLER°



D0216.253

Holding Sleeve, length 80mm for Hex Screwdriver, Small, ADLER°



D0216.151

Screwdriver Shaft hexagonal, with holding sleeve (for 1.1/1.5mm screws), ADLER°



D0207.0211

Depth Gauge for Small Screws, ADLER°



D0207.012

Depth Gauge for Mini Screws, ADLER°



D0207.041

Sharp Hook, length 155mm, ADLER°



D0305.01

Clips For Plates, ADLER°

Not illustrated

Mini Fragment Instruments - Contd.

D0207.051

Screw Forceps, ADLER°



D0304.0112

Bending Iron For Mini/Small Plates, ADLER°



D0304.0211

Bending Pliers For Finger Plates, ADLER°



D0304.024

Wire Bending Plier, length 155mm, ADLER°



D0304.025

Wire cutter, short, length 175mm, ADLER°



D0304.0111

Bending Iron for Kirschner Wires 1.25 to 2.5mm Dia., length 120mm, ADLER°



D0804.1301

Reduction Forceps with points, length 130mm, ADLER°



D0803.132

Reduction Forceps with points, wide, length 132mm, ratchet lock, ADLER°



D0801.011

Holding forceps for small plate, length 135mm, ADLER°



D0901.022

Retractor, small, 6mm wide, short, narrow tip, length 160mm, ADLER°



D0901.021

Retractor, Small, 8mm wide, short, Narrow Tip, length 160mm



D0902.12

Periosteal Elevator, straight edge, 3mm wide, length 200mm, ADLER°



D0901.041

Retractor, 15mm wide, length 160mm



General Instrument Set



Code No	Description	Qty - Set Content
D0106.1401	Aluminium Case, long, silver (for General Inst/Wire Instrument Set)	1
D0107.2108	S.S Tray, separated for Instruments (German pattern)	1
D0107.2201	S.S Tray, Matt Finish, unpartitioned, ADLER°, German pattern	1
D0901.051	Retractor, 8mm wide, short narrow tip, length 220mm	2
D0901.061	Retractor, 18mm wide, short narrow tip, length 235mm	2
D0901.121	Retractor, 24mm wide, long and wide tip, length 270mm	1
D0902.09	Periosteal Elevator, curved shaft, 14mm wide, length 200mm	1
D0902.10	Periosteal Elevator, round edge, 6mm wide, length 200mm	1
D0902.11	Periosteal Elevator, straight shaft, 14mm wide, length 200mm	1
D0411.5001	Hammer 500g., length 230mm	1
C0402.00	Chisel Handle, length 185mm	1
C0402.101	Chisel Blade, 10mm wide, length 81mm, thickness 0.9mm	1
C0402.161	Chisel Blade, 16mm wide, length 81mm, thickness 0.9mm	1
C0402.251	Chisel Blade, 25mm wide, length 81mm, thickness 0.9mm	1
C1406.1002	Gouge, curved, for cancellous bone grafts, 10mm wide, length 250mm	1

General Instruments

D0901.051

Retractor, 8mm wide, short narrow tip, length 220mm



D0901.061

Retractor, 18mm wide, short narrow tip, length 235mm



D0901.121

Retractor, 24mm wide, long and wide tip, length 270mm



D0902.09

Periosteal Elevator, curved shaft, 14mm wide, length 200mm



D0902.10

Periosteal Elevator, round edge, 6mm wide, length 200mm



D0902.11

Periosteal Elevator, straight shaft, 14mm wide, length 200mm



D0411.5001

Hammer 500g., length 230mm



C0402.00

Chisel Handle, length 185mm



C0402.101

Chisel Blade, 10mm wide, length 81mm, thickness 0.9mm



C0402.161

Chisel Blade, 16mm wide, length 81mm, thickness 0.9mm



C0402.251

Chisel Blade, 25mm wide, length 81mm, thickness 0.9mm



C1406.1002

Gouge, curved, for cancellous bone grafts, 10mm wide, length 250mm



Wire Instrument Set



Code No	Description	Qty - Set Content
D0106.1401	Aluminium Case, long, silver (for General Inst/Wire Instrument Set)	1
D0107.2108	S.S Tray, separated for Instruments (German pattern)	2
D0211.20	Drill Bit 2.0mm dia, length 100/75mm for quick coupling, ADLER°	1
D0401.02	Triple Drill Guide, 2.0mm, with three holes, opposite side, one hole, ADLER°	1
C3719.045	Wire Passer, bending diameter 45mm, ADLER°	1
C3719.070	Wire Passer, bending diameter 70mm, ADLER°	1
C3717.01	Wire tightener, length 240mm, with handle and two pegs, ADLER°	1
D0801.02	Holding forceps for cerclage wires, length 170mm, ADLER°	2
D0304.024	Wire Bending Plier, length 155mm, ADLER°	1
D0304.04	Parallel Pliers, flat nosed, length 160mm, ADLER°	1
D0304.026	Wire Cutter, large, length 220mm, ADLER°	1
D0304.025	Wire cutter, short, length 175mm, ADLER°	1
D0304.0111	Bending Iron for Kirschner Wires 1.25 to 2.5mm Dia., length 120mm, ADLER°	1
C0402.251	Chisel Blade, 25mm wide, length 81mm, thickness 0.9mm	1
C1406.1002	Gouge, curved, for cancellous bone grafts, 10mm wide, length 250mm	1

Wire Instruments

D0211.20

Drill Bit 2.0mm dia, length 100/75mm for quick coupling, ADLER°



D0401.02

Triple Drill Guide, 2.0mm, with three holes, opposite side, one hole, ADLER°



C3719.045

Wire Passer, bending diameter 45mm, ADLER°



C3719.070

Wire Passer, bending diameter 70mm, ADLER°



C3717.01

Wire tightener, length 240mm, with handle and two pegs, ADLER°



D0801.02

Holding forceps for cerclage wires, length 170mm, ADLER°



D0304.024

Wire Bending Plier, length 155mm, ADLER°



D0304.04

Parallel Pliers, flat nosed, length 160mm, ADLER°



D0304.026

Wire Cutter, large, length 220mm, ADLER°



D0304.025

Wire cutter, short, length 175mm, ADLER°



D0304.0111

Bending Iron for Kirschner Wires 1.25 to 2.5mm Dia., length 120mm, ADLER°



C0402.251

Chisel Blade, 25mm wide, length 81mm, thickness 0.9mm



C1406.1002

Gouge, curved, for cancellous bone grafts, 10mm wide, length 250mm



E0204.00 Plate Set , Auto Compression Hole -ADLER[◊]



Code No	Description	Qty - Set Content
German pattern Case and Trays		
D0109.1501	Aluminium Case, Short, Yellow / Silver for (Large Fragment) Plates Set	1
D0107.2101	SS Tray Lower for (Large Fragment) Plates Set (German pattern)	1
D0107.2102	SS Tray Middle for (Large Fragment) Plates Set (German pattern)	1
D0107.2103	SS Tray Upper for (Large Fragment) Plates Set (German pattern)	1
Set Contents - Implants		
Semi Tubular Plates ADLER[◊]		
B0408.04	4 holes	1
B0408.05	5 holes	1
B0408.06	6 holes	1
B0408.07	7 holes	1
Narrow Plate 3.6mm Auto Compression holes ADLER[◊]		
B0409.06	6 holes	2
B0409.07	7 holes	2
B0409.08	8 holes	2
B0409.09	9 holes	2
B0409.10	10 holes	2
B0409.11	11 holes	1
B0409.12	12 holes	1
B0409.14	14 holes	1
Broad Plate 4.8mm Auto Compression holes ADLER[◊]		
B0410.08	8 holes	1
B0410.09	9 holes	1
B0410.10	10 holes	1
B0410.11	11 holes	1
B0410.12	12 holes	1
B0410.14	14 holes	1
B0410.16	16 holes	1
T' Plate - ADLER[◊]		
B0507.04	4 holes	1
B0507.06	6 holes	1
B0507.08	8 holes	1
B0508.04	T' Buttress Plate 4 holes - ADLER [◊]	1
L' Buttress Plate - ADLER[◊]		
B0510.041	4 holes Left	1
B0510.042	4 holes Right	1

E0203.00 Large Screw Set Hex Slot - ADLER[◇]



Code No	Description	Qty - Set Content
German pattern Case and Trays		
D0106.1201	Aluminium Case, long, yellow (for Basic/Small/Mini Fragment/Tub ExFix and Large Screw Set)	1
D0107.2104	Stainless Steel Tray for Screws in Screw Set (German pattern)	1
D0108.0101	Plastic Tray for Screws in Screw Set (German pattern)	1
Set Contents - Implants		
Cortex Screw, Adler 4.5mm Dia Hex Slot		
B0112.014	14mm	7
B0112.016	16mm	8
B0112.018	18mm	8
B0112.020	20mm	8
B0112.022	22mm	8
B0112.024	24mm	8
B0112.026	26mm	8
B0112.028	28mm	8
B0112.030	30mm	16
B0112.032	32mm	12
B0112.034	34mm	12
B0112.036	36mm	12
B0112.038	38mm	12
B0112.040	40mm	12
B0112.042	42mm	6
B0112.044	44mm	12
B0112.046	46mm	6
B0112.048	48mm	6
B0112.052	52mm	6
B0112.056	56mm	6
B0112.060	60mm	5
B0112.064	64mm	4
B0112.068	68mm	4

E0203.00 Large Screw Set Hex Slot - ADLER[®] - Contd.

Code No	Description	Qty - Set Content
Malleolar Screw, ADLER[®] 4.5mm Hex		
B0120.025	25mm	2
B0120.030	30mm	2
B0120.035	35mm	2
B0120.040	40mm	2
B0120.045	45mm	2
B0120.050	50mm	2
B0120.055	55mm	2
B0120.060	60mm	2
B0120.065	65mm	3
B0120.070	70mm	3
Cancellous Screw, ADLER[®] 6.5mm Dia Hex Slot Thrd Len 16mm		
B0114.030	30mm	2
B0114.035	35mm	2
B0114.040	40mm	2
B0114.045	45mm	2
B0114.050	50mm	2
B0114.055	55mm	2
B0114.060	60mm	2
B0114.065	65mm	3
B0114.070	70mm	3
B0114.075	75mm	3
B0114.080	80mm	3
B0114.085	85mm	3
B0114.090	90mm	3
B0114.095	95mm	3
B0114.100	100mm	3
B0114.105	105mm	3
B0114.110	110mm	3
Cancellous Screw, ADLER[®] 6.5mm Dia Hex Slot Thrd Len 32mm		
B0116.045	45mm	4
B0116.050	50mm	4
B0116.055	55mm	4
B0116.060	60mm	4
B0116.065	65mm	3
B0116.070	70mm	3
B0116.080	80mm	3
B0116.090	90mm	3
Cancellous Screw, ADLER[®] 6.5mm Dia Hex Slot Fully Threaded		
B0118.025	25mm	6
B0118.030	30mm	4
B0118.035	35mm	4
B0118.040	40mm	4
B1105.01	Washer 13.0mm dia for Large Cancellous Bone Screw ADLER [®]	6

CHS / DCS Implant Set (ADLER[◊] Implants)



Code No	Description	Qty - Set Content
German pattern Case and Trays		
D0106.1301	Aluminium Case, long, blue (for DHS Instrument/DHS Implant Set/Zeta Implant Set/ Large Cannulated Implant Set/Large Cannulated Inst Set)	1
D0107.2109	S.S Tray for CHS/DCS Barrel Plates	1
D0107.2110	S.S Tray for CHS/DCS Lag Screws	1
Set Contents - Implants		
C.H.S Lag Screws		
B0714.050	C.H.S. Lag Screw 50mm	1
B0714.055	C.H.S. Lag Screw 55mm	1
B0714.060	C.H.S. Lag Screw 60mm	2
B0714.065	C.H.S. Lag Screw 65mm	2
B0714.070	C.H.S. Lag Screw 70mm	2
B0714.075	C.H.S. Lag Screw 75mm	2
B0714.080	C.H.S. Lag Screw 80mm	2
B0714.085	C.H.S. Lag Screw 85mm	2
B0714.090	C.H.S. Lag Screw 90mm	1
B0714.095	C.H.S. Lag Screw 95mm	1
B0714.100	C.H.S. Lag Screw 100mm	1
B0714.105	C.H.S. Lag Screw 105mm	1
B0714.110	C.H.S. Lag Screw 110mm	1
Compression Screws		
B0715.01	C.H.S. Compression Screw Hex. Slot, Len 36mm	6
C.H.S Plates - 135 deg / 150 deg		
B0723.1354	C.H.S. Barrel Plate, 38mm Barrel, 19mm Width, 135°, 4 Round Holes	2
B0723.1355	C.H.S. Barrel Plate, 38mm Barrel, 19mm Width, 135°, 5 Round Holes	2
B0723.1356	C.H.S. Barrel Plate, 38mm Barrel, 19mm Width, 135°, 6 Round Holes	2
B0723.1504	C.H.S. Barrel Plate, 38mm Barrel, 19mm Width, 150°, 4 Round Holes	1
B0723.1505	C.H.S. Barrel Plate, 38mm Barrel, 19mm Width, 150°, 5 Round Holes	1
B0723.1506	C.H.S. Barrel Plate, 38mm Barrel, 19mm Width, 150°, 6 Round Holes	1
Condylar Screw Plates - 95 deg		
B0726.06	95° Condylar Screw Plate, Top Radius, 6 Auto Comp. Holes	2
B0726.08	95° Condylar Screw Plate, Top Radius, 8 Auto Comp. Holes	2
B0726.10	95° Condylar Screw Plate, Top Radius, 10 Auto Comp. Holes	2
B0726.12	95° Condylar Screw Plate, Top Radius, 12 Auto Comp. Holes	2

Large Cannulated Screw Implant Set (ADLER[®] Implants)



Code No	Description	Qty - Set Content
German pattern Case and Trays		
D0106.1301	Aluminium Case, long, blue (for DHS Instrument/DHS Implant Set/Zeta Implant Set/Large Cannulated Implant Set/Large Cannulated Inst Set)	1
D0107.2111	S.S Tray for Large Cannulated Screws	1
D0108.0102	Plastic Tray for Large Cannulated Screws	1
Set Contents - Implants		
7.0mm Cannulated Screws / 16mm thread		
B0122.030	Cannulated Cancellous Screw, ADLER [®] , Ø7.0mm, 16mm Thread, Hex. Slot, Length 30mm	2
B0122.035	Cannulated Cancellous Screw, ADLER [®] , Ø7.0mm, 16mm Thread, Hex. Slot, Length 35mm	2
B0122.040	Cannulated Cancellous Screw, ADLER [®] , Ø7.0mm, 16mm Thread, Hex. Slot, Length 40mm	2
B0122.045	Cannulated Cancellous Screw, ADLER [®] , Ø7.0mm, 16mm Thread, Hex. Slot, Length 45mm	2
B0122.050	Cannulated Cancellous Screw, ADLER [®] , Ø7.0mm, 16mm Thread, Hex. Slot, Length 50mm	2
B0122.055	Cannulated Cancellous Screw, ADLER [®] , Ø7.0mm, 16mm Thread, Hex. Slot, Length 55mm	2
B0122.060	Cannulated Cancellous Screw, ADLER [®] , Ø7.0mm, 16mm Thread, Hex. Slot, Length 60mm	2
B0122.065	Cannulated Cancellous Screw, ADLER [®] , Ø7.0mm, 16mm Thread, Hex. Slot, Length 65mm	4
B0122.070	Cannulated Cancellous Screw, ADLER [®] , Ø7.0mm, 16mm Thread, Hex. Slot, Length 70mm	4
B0122.075	Cannulated Cancellous Screw, ADLER [®] , Ø7.0mm, 16mm Thread, Hex. Slot, Length 75mm	4
B0122.080	Cannulated Cancellous Screw, ADLER [®] , Ø7.0mm, 16mm Thread, Hex. Slot, Length 80mm	4
B0122.085	Cannulated Cancellous Screw, ADLER [®] , Ø7.0mm, 16mm Thread, Hex. Slot, Length 85mm	4
B0122.090	Cannulated Cancellous Screw, ADLER [®] , Ø7.0mm, 16mm Thread, Hex. Slot, Length 90mm	4
B0122.095	Cannulated Cancellous Screw, ADLER [®] , Ø7.0mm, 16mm Thread, Hex. Slot, Length 95mm	2
B0122.100	Cannulated Cancellous Screw, ADLER [®] , Ø7.0mm, 16mm Thread, Hex. Slot, Length 100mm	2
7.0mm Cannulated Screws / 32mm thread		
B0124.045	Cannulated Cancellous Screw, ADLER [®] , Ø7.0mm, 32mm Thread, Hex. Slot, Length 45mm	2
B0124.050	Cannulated Cancellous Screw, ADLER [®] , Ø7.0mm, 32mm Thread, Hex. Slot, Length 50mm	2
B0124.055	Cannulated Cancellous Screw, ADLER [®] , Ø7.0mm, 32mm Thread, Hex. Slot, Length 55mm	2
B0124.060	Cannulated Cancellous Screw, ADLER [®] , Ø7.0mm, 32mm Thread, Hex. Slot, Length 60mm	2
B0124.065	Cannulated Cancellous Screw, ADLER [®] , Ø7.0mm, 32mm Thread, Hex. Slot, Length 65mm	2
B0124.070	Cannulated Cancellous Screw, ADLER [®] , Ø7.0mm, 32mm Thread, Hex. Slot, Length 70mm	2

Large Cannulated Screw Implant Set (ADLER[◊] Implants)- Contd.

Code No	Description	Qty - Set Content
B0124.075	Cannulated Cancellous Screw, ADLER [◊] , Ø7.0mm, 32mm Thread, Hex. Slot, Length 75mm	2
B0124.080	Cannulated Cancellous Screw, ADLER [◊] , Ø7.0mm, 32mm Thread, Hex. Slot, Length 80mm	2
B0124.085	Cannulated Cancellous Screw, ADLER [◊] , Ø7.0mm, 32mm Thread, Hex. Slot, Length 85mm	2
B0124.090	Cannulated Cancellous Screw, ADLER [◊] , Ø7.0mm, 32mm Thread, Hex. Slot, Length 90mm	2
B0124.095	Cannulated Cancellous Screw, ADLER [◊] , Ø7.0mm, 32mm Thread, Hex. Slot, Length 95mm	2
B0124.100	Cannulated Cancellous Screw, ADLER [◊] , Ø7.0mm, 32mm Thread, Hex. Slot, Length 100mm	2
7.0mm Cannulated Screws / full thread		
B0130.060	Cannulated Cancellous Screw, ADLER [◊] , Ø7.0mm, Fully Threaded, Hex. Slot, Length 60mm	2
B0130.065	Cannulated Cancellous Screw, ADLER [◊] , Ø7.0mm, Fully Threaded, Hex. Slot, Length 65mm	2
B0130.070	Cannulated Cancellous Screw, ADLER [◊] , Ø7.0mm, Fully Threaded, Hex. Slot, Length 70mm	2
B0130.075	Cannulated Cancellous Screw, ADLER [◊] , Ø7.0mm, Fully Threaded, Hex. Slot, Length 75mm	2
B0130.080	Cannulated Cancellous Screw, ADLER [◊] , Ø7.0mm, Fully Threaded, Hex. Slot, Length 80mm	2
B0130.085	Cannulated Cancellous Screw, ADLER [◊] , Ø7.0mm, Fully Threaded, Hex. Slot, Length 85mm	2
B0130.090	Cannulated Cancellous Screw, ADLER [◊] , Ø7.0mm, Fully Threaded, Hex. Slot, Length 90mm	2
B0130.095	Cannulated Cancellous Screw, ADLER [◊] , Ø7.0mm, Fully Threaded, Hex. Slot, Length 95mm	2
B0130.100	Cannulated Cancellous Screw, ADLER [◊] , Ø7.0mm, Fully Threaded, Hex. Slot, Length 100mm	2

Large Cannulated Screw Instrument Set- ADLER[◊]



Code No	Description	Qty - Set Content
German pattern Case and Trays		
D0106.1301	Aluminium Case, long, blue (for DHS Instrument/DHS Implant Set/Zeta Implant Set/Large Cannulated Implant Set/Large Cannulated Inst Set)	1
D0107.2112	S.S Tray 1 for Large Cannulated Instrument Set	1
D0107.2113	S.S Tray 2 for Large Cannulated Instrument Set	1
Contents-Instruments		
Cannulated Insts - Basic Set		
D1002.4521	Cannulated Drill Bit, ADLER [◊] Swiss-made dia 4.5mm/2.1mm, 230mm length	1
D1003.70	Cannulated Tap, Adler Swiss-made dia 7mm, 230mm length	1
D1004.01	Cannulated Hex Screwdriver, ADLER [◊] Swiss-made, length 230mm for 7mm Cannulated Screws	1
D1005.00	Direct Measuring Device for 7mm Cannulated Screws	1
D1006.00	Parallel Wire Guide	1
D1001.2023	Guide Wire 2.0mm with threaded tip, 230mm length	5
Cannulated Insts - Optional		
D0211.20	Drill bit Q.C, ADLER [◊] Swiss-made, 2.0mm, length 100mm	1
D0215.4532	Double Drill Sleeve 4.5/3.2	1
Cannulated Insts - Optional, for Percutaneous Insertion		
D1007.45	Parallel Drill Guide 4.5mm	1
D1008.01	Trocar 2.0mm	1
D1009.4520	Drill Sleeve 4.5/2.0	2
D1009.8045	Drill Sleeve 8.0/4.5	1
D1010.1108	Protection Sleeve 11.0/8.0	1

ADLER[◊] Large Cannulated Screw Instruments

Cannulated Insts - Basic Set

D1002.4521

Cannulated Drill Bit, ADLER[◊] Swiss-made dia 4.5mm/2.1mm, 230mm length



D1003.70

Cannulated Tap, ADLER[◊] Swiss-made dia 7mm, 230mm length



D1004.01

Cannulated Hex Screwdriver, ADLER[◊] Swiss-made, length 230mm for 7mm Cannulated Screws



D1005.00

Direct Measuring Device for 7mm Cannulated Screws



D1006.00

Parallel Wire Guide



D1001.2023

Guide Wire 2.0mm with threaded tip, 230mm length



Cannulated Insts - Optional

D0211.20

Drill bit Q.C, ADLER[◊] Swiss-made, 2.0mm, length 100mm



D0215.4532

Double Drill Sleeve 4.5/3.2



D1007.45

Parallel Drill Guide 4.5mm



Percutaneous Insertion

D1008.01

Trocar 2.0mm



D1009.4520

Drill Sleeve 4.5/2.0

D1009.8045

Drill Sleeve 8.0/4.5

D1010.1108

Protection Sleeve 11.0/8.0



PRECAUTIONS TO BE TAKEN BEFORE USAGE OF IMPLANTS

Surgical implants are internal aids to normal healing and are not intended to replace normal body structure. Since they also assist healing, full weight bearing is not indicated when the bone is incompletely healed.

Please note the following while using orthopaedic implants:

I PATIENT SELECTION

The following criteria need to be taken into account:

a) IMMUNOLOGICAL INTOLERANCE

Some patients may have immunological intolerance and foreign body sensitivity tests should be performed in such cases, where material sensitivity is suspected due to immunological intolerance of implanted devices.

b) DEGENERATIVE DISEASES

In cases where patients suffer from degenerative diseases, implanted devices may aggravate the degenerative disease and lead to a consequent decrease in the life of the implant. In such cases, implant surgery may be considered to be only a temporary relief.

c) MENTAL ILLNESS

Patients suffering from mental illnesses or schizophrenia may ignore the limitations and precautions related to implant surgery which may lead to failure of the implanted device and other associated complications.

d) ALCOHOL AND DRUG ADDICTION

Complications may arise out of implant failure in patients who are addicted to alcohol and/or drugs, as these patients in their state of stupor or during the state of withdrawal may ignore the necessary precautions following surgery.

e) OVERWEIGHT

Obese patients produce abnormal stresses leading to an increased load on the implant. Such abnormal loads create conditions which would result in failure of the implanted device.

f) ACTIVITY

Activities by the patient which may involve significant muscular strain of the operated area with an implanted device could lead to failure of the device.

II IMPLANT SELECTION

Selection of the proper size, shape and design of the implanted device is an important parameter for successful implant surgery. The size and shape of the human bone imposes limitations on the size and stress tolerance of implants during fracture management and reconstructive surgery.

III IMPLANT HANDLING

In cases where the plate should conform to the shape of the bone, this must be achieved only by accurate contouring of the plate with the requisite instruments. The technique of using the screws to bend the plate to shape on implantation is not advised as this leads to the screws being subjected instantly to a strong expelling force which could lead to the failure of the device.

Plates should be contoured by plate benders designed for this purpose.

Care should be taken that there are no scratches or distortions at the site of the screw hole, notches, sharp dents or reverse bends. These may cause defects of surface finish, result in improper bonding and may predispose the implanted device to failure.

IV UNSTABLE FIXATION

Plates even if bent and properly fixed may fatigue and break. Breakage may be due to unstable implant fixation or insufficient support.

If the screw is not properly centered as it is being tightened, there will be a tendency for the counter sink in the plate to force it to one side, thereby damaging the good threads already cut in the bone and producing a strain which will probably lead to necrosis and early loosening of the screw.

V IMPLANT REMOVAL

The surgeon must take the final decision on implant removal. It is recommended that the implant used as an aid for healing should be removed once its service is over, particularly in younger and more active patients.

VI POST OPERATIVE CARE

Patients must be made aware of the limitations of metallic implants and precautions to avoid unnecessary stress to the implant.

No partial weight bearing or non-weight bearing device can be expected to withstand the unsupported stresses of full weight bearing or excessive muscular activity when there is an ununited fracture.

Bony union is a must, and the patient must restrict his/her activities to assist in healing.

VII SECOND-HAND IMPLANTS

Every implant must be discarded after use and should never be reused. Used implants which appear undamaged may have internal and external defects. Even a thorough individual stress analysis of each part fails to reveal the accumulated stresses which develop within metals as a result of use within the body. Reuse of implants may lead ultimately to implant failure.

VIII INCOMPATIBLE IMPLANT COMBINATION

Implant components from one manufacturer should not be used with those of another. Implants from each manufacturer may have metal and design differences, so that use in conjunction with different devices could lead to inadequate fixation or corrosion of the implant due to generation of Peizo currents.

REFERENCES

- Bechtol, C.O., Ferguson, A.B., Jr. and Laing, P.G. : Metals and engineering in bone and joint surgery. Williams and Willins, Baltimore, 1959
Peterson, L.T.: Fixation on Bones by Plates and Screws, J. Bone & Joint Surgery, 29A:335
Cave, EF(Ed): Fractures and Other Injuries, The Year Book Publishers, Inc., Chicago 1958, Chapter 12
Martz, Carl D.: Bones-Metals-Surgeons. Journal Ind. St. Assn., 52:60
Bowden, F.P. Williamson, J.B.P. and Laing P.G.: The significance of Metallic Transfer in Orthopaedic Surgery. J. Bone & Joint Surg., 37B:676
Scales, J.T. : Internal Prosthesis: The problem in relation to materials, J. Bone & Joint Surg., 38B:754
Manual of Internal fixation by Prof. M.E., Muller, Prof. M. Allgower et al, 2ed.1979 AO/ASIF Instrumentation by F. Sequin et al 1981

Manufactured by
ADLERMEDIEQUIP PVT. LTD.
Sushrut House, Survey No. 288, Next to MIDC Hinjewadi Phase II,
At Mann, Tal. Mulshi, Pune 411 057, India. Tel: +91(0)2066520700
Fax: +91(0)2066520800 e-mail: adler-in.info@smith-nephew.com Internet: www.adlermediequip.com



CE 0434

° Trademark of Smith & Nephew