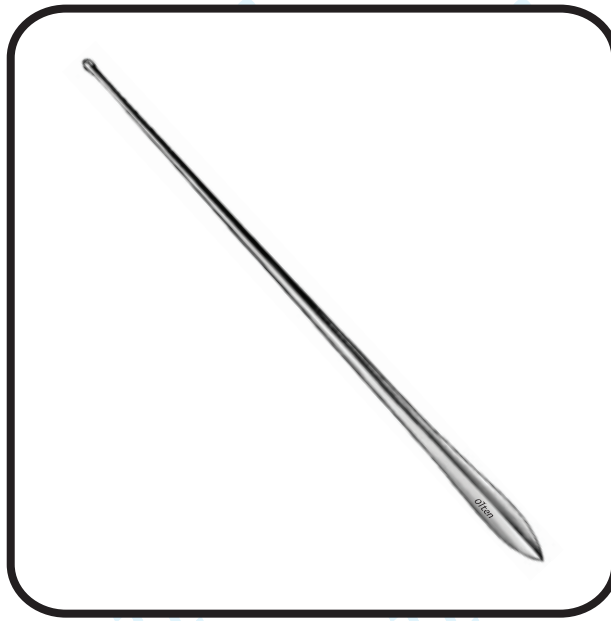




PROBES

FO-1801- to -FO-1872

Oltten
Instruments



GENERAL INSTRUMENTS

PROBES

Probe, Ear Probe, Myrtle Leaf Probe

Olten
Instruments



REF #	SIZE cm	SIZE in	Ø Dia
FO-1801	11.5 cm	4½"	2 mm
FO-1802	13.0 cm	5"	2 mm
FO-1803	14.5 cm	5¾"	2 mm
FO-1804	16.0 cm	6¼"	2 mm
FO-1805	18.0 cm	7"	2 mm
FO-1806	20.0 cm	8"	2 mm
FO-1807	25.0 cm	9¾"	2 mm
FO-1808	30.0 cm	11¾"	2 mm

Standard
Probe



REF #	SIZE cm	SIZE in	Ø Dia
FO-1809	11.5 cm	4½"	1 mm
FO-1810	13.0 cm	5"	1 mm
FO-1811	14.5 cm	5¾"	1 mm
FO-1812	16.0 cm	6¼"	1 mm
FO-1813	18.0 cm	7"	1 mm
FO-1814	20.0 cm	8"	1 mm
FO-1815	25.0 cm	9¾"	1 mm
FO-1816	30.0 cm	11¾"	1 mm

Standard
Probe



REF #	SIZE cm	SIZE in	Ø Dia
FO-1817	13.0 cm	5"	2.5 mm
FO-1818	14.5 cm	5¾"	2.5 mm
FO-1819	16.0 cm	6¼"	2.5 mm
FO-1820	18.0 cm	7"	2.5 mm
FO-1821	20.0 cm	8"	2.5 mm
FO-1822	25.0 cm	9¾"	2.5 mm

Standard
Probe



REF #	SIZE cm	SIZE in	Ø Dia
FO-1823	13.0 cm	5"	2 mm
FO-1824	14.5 cm	5¾"	2 mm
FO-1825	16.0 cm	6¼"	2 mm

with eye

Standard
Probe



REF #	SIZE cm	SIZE in	Ø Dia
FO-1826	10.5 cm	4¼"	1 mm

Stacke
Ear Probe



REF #	SIZE cm	SIZE in	Ø Dia
FO-1827	13.0 cm	5"	2 mm
FO-1828	14.5 cm	5¾"	2 mm
FO-1829	16.0 cm	6¼"	2 mm
FO-1830	18.0 cm	7"	2 mm
FO-1831	20.0 cm	8"	2 mm
FO-1832	25.0 cm	9¾"	2 mm

Standard
Myrtle Leaf Probe



REF #	SIZE cm	SIZE in
FO-1833	13.0 cm	5"
FO-1834	14.0 cm	5½"
FO-1835	16.0 cm	6¼"

Standard
Probe



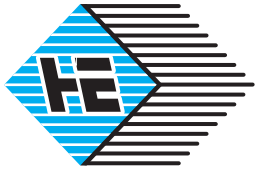
REF #	SIZE cm	SIZE in
FO-1836	13.0 cm	5"
FO-1837	14.5 cm	5¾"
FO-1838	16.0 cm	6¼"

Standard
Probe



REF #	SIZE cm	SIZE in
FO-1839	14.5 cm	5¾"

Doyen
Probe



GENERAL INSTRUMENTS

PROBES

Probe, Fistula Probe, Ring Stripper, Cotton Applicator

olten
Instruments



REF #	SIZE cm	SIZE in
FO-1840	16.0 cm	6 1/4"

Nelaton
Probe



REF #	SIZE cm	SIZE in
FO-1841	16.5 cm	6 1/2"

Lockhart-Mummery
Fistula Probe



REF #	SIZE cm	SIZE in
FO-1842	16.5 cm	6 1/2"

Lockhart-Mummery
Fistula Probe



REF #	SIZE cm	SIZE in
FO-1843	16.5 cm	6 1/2"

Lockhart-Mummery
Fistula Probe



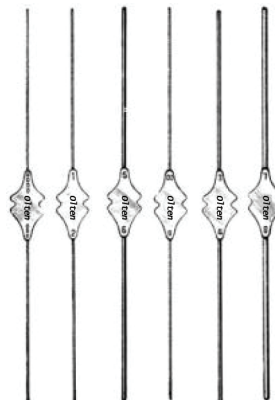
REF #	SIZE cm	SIZE in
FO-1844	16.5 cm	6 1/2"

Lockhart-Mummery
Fistula Probe



Williams Lacrimal
Probes

REF #	SIZE cm	SIZE in	SHAPE
FO-1845	12.7 cm	5"	0000-000
FO-1846	12.7 cm	5"	00-0
FO-1847	12.7 cm	5"	1-2
FO-1848	12.7 cm	5"	3-4
FO-1849	12.7 cm	5"	5-6
FO-1850	12.7 cm	5"	7-8



Bowman Lacrimal
Probes

REF #	SIZE cm	SIZE in	SHAPE
FO-1851	12.7 cm	5"	0000-000
FO-1852	12.7 cm	5"	00-0
FO-1853	12.7 cm	5"	1-2
FO-1854	12.7 cm	5"	3-4
FO-1855	12.7 cm	5"	5-6
FO-1856	12.7 cm	5"	7-8



Vollmar
Ring Stripper

REF #	SIZE cm	SIZE in	Ø Dia
FO-1857	50.0 cm	19 3/4"	2 mm
FO-1858	50.0 cm	19 3/4"	3 mm
FO-1859	50.0 cm	19 3/4"	4 mm
FO-1860	50.0 cm	19 3/4"	6 mm
FO-1861	50.0 cm	19 3/4"	7 mm
FO-1862	50.0 cm	19 3/4"	8.5 mm
FO-1863	50.0 cm	19 3/4"	10 mm
FO-1864	50.0 cm	19 3/4"	12 mm
FO-1865	50.0 cm	19 3/4"	14 mm



Vollmar
Handle for Vollmar Ring Stripper

REF #	SIZE cm	SIZE in
FO-1866	11.5 cm	4 1/2"



Standard
Cotton Applicator

REF #	SIZE cm	SIZE in	Ø Dia
FO-1867	12.0 cm	4 3/4"	1.2 mm
FO-1868	14.0 cm	5 1/2"	1.2 mm
FO-1869	16.0 cm	6 1/4"	1.2 mm



Farrell
Cotton Applicator

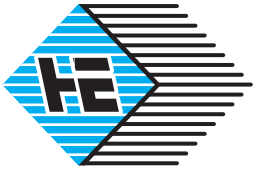
REF #	SIZE cm	SIZE in	Ø Dia
FO-1870	12.0 cm	4 3/4"	0.9 mm
FO-1871	14.0 cm	5 1/2"	0.9 mm
FO-1872	16.0 cm	6 1/4"	1.1 mm



DIAGNOSTICS

GO-1915 - to - GO-1937

otten
Instruments



DIAGNOSTICS INSTRUMENTS
DIAGNOSTICS
Percussion Hammer, Pin Wheel, Caliper

Olten
Instruments



REF # SIZE cm SIZE in
GO-1915 18.5 cm 7 1/4"

with needle
and brush

Buck
Percussion Hammer



REF # SIZE cm SIZE in
GO-1916 20.0 cm 8"

with needle
and brush
telescope handle

Buck
Percussion Hammer



REF # SIZE cm SIZE in
GO-1917 20.0 cm 8"

Dejerine
Percussion Hammer



REF # SIZE cm SIZE in
GO-1918 21.0 cm 8 1/4"

with needle

Dejerine
Percussion Hammer



REF # SIZE cm SIZE in
GO-1919 20.0 cm 8"

Taylor Mod. USA
Percussion Hammer



REF # SIZE cm SIZE in
GO-1920 19.0 cm 7 1/2"

Taylor Hammer
Percussion Hammer



REF # SIZE cm SIZE in
GO-1921 23.0 cm 9"

Taylor Hammer
Percussion Hammer



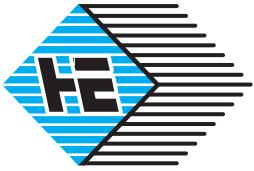
REF # SIZE cm SIZE in
GO-1922 18.0 cm 7"

Wartenberg
Pinwheel



REF # SIZE cm SIZE in
GO-1923 10.5 cm 4"

Jameson
Caliper



DIAGNOSTICS INSTRUMENTS

DIAGNOSTICS

Stethoscope, Oscopes, Ophthalmoscopes, Diagnostic Sets

olten
Instruments



REF # GO-1930
- 01 Battery Handle

REF # GO-1931
- 01 Ophthalmoscope Head



Ophthalmoscope
In Leather Pouch
REF # GO-1924



REF # GO-1930
- 01 Battery Handle

REF # GO-1932
- 01 Otoscope Head
with 03 Specula



Otoscope
In Leather Pouch
REF # GO-1925



REF # GO-1930
- 01 Battery Handle

REF # GO-1931
- 01 Ophthalmoscope Head

REF # GO-1932
- 01 Otoscope Head
with 03 Specula



Otoscope/Ophthalmoscope
In Hard Case
REF # GO-1926



Diagnostic Set
In Hard Case
REF # GO-1927

REF # GO-1930
- 01 Battery Handle
REF # GO-1931
- 01 Ophthalmoscope Head

REF # GO-1932
- 01 Otoscope Head with 03 Specula

REF # GO-1933
- 01 Nose Speculum

REF # GO-1934
- 01 Spatula

REF # GO-1935
- 01 Laryngeal Tube

REF # GO-1936
- 01 Mouth Mirror # 4

REF # GO-1937
- 01 Mouth Mirror # 5



Pinard
Stethoscope (Wood)

REF #	SIZE cm	SIZE in
GO-1928	18.0 cm	7"



Pinard
Stethoscope

REF #	SIZE cm	SIZE in
GO-1929	10.5 cm	4"



TROCARS, CANNULAS SUCTION TUBES

HO-1980 - to - HO-2084

Olten
Instruments



GENERAL INSTRUMENTS

TROCARS, SUCTION TUBES, CANNULAS

Trocar, Antrum Trocar, Suction Cannula, Micro Suction Tube

Olten
Instruments



Standard
Trocar

REF # SIZE cm SIZE in
HO-1980 14.0 cm 5½"

04 Trocar tips
ø 1,7 mm
ø 3.0 mm
ø 4.5 mm
ø 6.0 mm



Nelson
Trocar

REF # SIZE cm SIZE in SHAPE
HO-1981 20.0 cm 8" ø 7.5 mm
HO-1982 20.0 cm 8" ø 9.5 mm
HO-1983 20.0 cm 8" ø 11.0 mm



Lichtwitz
Antrum Trocar

REF # SIZE cm SIZE in SHAPE
HO-1984 18.5 cm 7¼" ø 1.8 mm



Adson
Suction Cannula

REF # SIZE cm SIZE in SHAPE
HO-1985 20.0 cm 8" ø 4.0 mm



Frazier
Suction Cannula

REF # SIZE cm SIZE in SHAPE
HO-1986 24.0 cm 9½" ø 3.3 mm



Frazier
Suction Cannula

REF # SIZE cm SIZE in SHAPE
HO-1987 19.5 cm 7¾" ø 2.0 mm
HO-1988 19.5 cm 7¾" ø 2.3 mm
HO-1989 19.5 cm 7¾" ø 2.6 mm
HO-1990 19.5 cm 7¾" ø 3.0 mm
HO-1991 19.5 cm 7¾" ø 3.3 mm
HO-1992 19.5 cm 7¾" ø 3.6 mm
HO-1993 19.5 cm 7¾" ø 4.0 mm



Poppen
Suction Cannula

REF # SIZE cm SIZE in SHAPE
HO-1994 18.0 cm 7" ø 2.0 mm
HO-1995 18.0 cm 7" ø 3.3 mm
HO-1996 18.0 cm 7" ø 4.0 mm



Wullstein
Micro Suction Tube

REF # SIZE cm SIZE in
HO-1997 14.0 cm 5½"

Complete with handle and
3 micro suction tubes
ø 2.0 mm
ø 3.3 mm
ø 4.0 mm



Baron-Schuknecht
Micro Suction Tube (with finger cut-off)

REF # SIZE cm SIZE in
HO-1998 14.0 cm 5½"

working length 75 mm
Complete with
3 micro suction tubes
ø 1.0 mm
ø 1.5 mm
ø 2.0 mm



GENERAL INSTRUMENTS

TROCARS, SUCTION TUBES, CANNULAS

Suction Tube

Olten
Instruments



REF #	SHAPE
HO-1999	Fig.1
HO-2000	Fig.2
HO-2001	Fig.3

Fig.1 = ø 3.0 mm (length 110 mm)
Fig.2 = ø 3.5 mm (length 110 mm)
Fig.3 = ø 4.5 mm (length 130 mm)



REF #	SIZE cm	SIZE in	SHAPE
HO-2002	21.5 cm	8½"	Fig.1
HO-2003	21.5 cm	8½"	Fig.2
HO-2004	21.5 cm	8½"	Fig.3
HO-2005	21.5 cm	8½"	Fig.4

Fig.1 = ø 1.5 mm (length 150 mm)
Fig.2 = ø 2.0 mm (length 150 mm)
Fig.3 = ø 2.5 mm (length 150 mm)
Fig.4 = ø 3.5 mm (length 150 mm)



REF #	SIZE cm	SIZE in
HO-2006	31.0 cm	12¼"

complete with
suction tip
and connector



REF #	SIZE cm	SIZE in
HO-2007	31.0 cm	12¼"

complete with handle, suction tip,
tube connector and 4 tubes



REF #	SIZE cm	SIZE in	SHAPE
HO-2008	22.0 cm	8¾"	ø 10 mm



REF #	SIZE cm	SIZE in	SHAPE
HO-2009	22.5 cm	8¾"	ø 8 mm



REF #	SIZE cm	SIZE in	SHAPE
HO-2010	36.0 cm	14¼"	ø 8 mm



REF #	SIZE cm	SIZE in	SHAPE
HO-2011	31.0 cm	12¼"	ø 10 mm



REF #	SIZE cm	SIZE in	SHAPE
HO-2012	31.0 cm	12¼"	ø 7 mm



GENERAL INSTRUMENTS
TROCARS, SUCTION TUBES, CANNULAS
Suction Tube, Guide Needle

olten
Instruments



Cooley
Suction Tube

REF # SIZE cm SIZE in
HO-2013 36.0 cm 14 1/4"

ø 8.0 mm



Nuboer
Suction Tube

REF # SIZE cm SIZE in
HO-2014 21.0 cm 8 1/2"

ø 6.0 mm
round opening



Nuboer
Suction Tube

REF # SIZE cm SIZE in
HO-2015 21.0 cm 8 1/2"

ø 6.0 mm
oval opening



Coupland
Suction Tube

REF # SIZE cm SIZE in SHAPE
HO-2016 09.0 cm 3 1/2" Fig.1
HO-2017 09.0 cm 3 1/2" Fig.2
HO-2018 09.0 cm 3 1/2" Fig.3
HO-2019 09.0 cm 3 1/2" Fig.4
HO-2020 17.0 cm 6 3/4" Fig.5

Fig.1 = ø 1.5 mm (tip)
Fig.2 = ø 2.0 mm (tip)
Fig.3 = ø 2.5 mm (tip)
Fig.4 = ø 3.5 mm (tip)
Fig.5 = Handle only



Byrd
Suction Tube

REF # SIZE cm SIZE in SHAPE
HO-2021 21.5 cm 8 1/2" Fig.1
HO-2022 21.5 cm 8 1/2" Fig.2
HO-2023 21.5 cm 8 1/2" Fig.3

Fig.1 = ø 1.5 mm
Fig.2 = ø 2.5 mm
Fig.3 = ø 3.5 mm



Cogswell
Suction Tube (with finger cut-off)

REF # SIZE cm SIZE in
HO-2024 24.5 cm 9 3/4"

ø 2.0 mm



Redon
Guide Needle

REF # SIZE cm SIZE in SHAPE
HO-2025 19.5 cm 7 3/4" ø 2.6 mm
HO-2026 19.5 cm 7 3/4" ø 3.3 mm
HO-2027 19.5 cm 7 3/4" ø 4.0 mm
HO-2028 19.5 cm 7 3/4" ø 4.6 mm
HO-2029 19.5 cm 7 3/4" ø 5.3 mm
HO-2030 19.5 cm 7 3/4" ø 6.0 mm

Slightly curved
knife tip, threaded end



Redon
Guide Needle

REF # SIZE cm SIZE in SHAPE
HO-2031 14.5 cm 5 3/4" ø 2.6 mm
HO-2032 14.5 cm 5 3/4" ø 3.3 mm
HO-2033 14.5 cm 5 3/4" ø 4.0 mm
HO-2034 14.5 cm 5 3/4" ø 4.6 mm
HO-2035 14.5 cm 5 3/4" ø 5.3 mm
HO-2036 14.5 cm 5 3/4" ø 6.0 mm

Fully curved
knife tip, threaded end



Redon
Guide Needle

REF # SIZE cm SIZE in SHAPE
HO-2037 19.5 cm 7 3/4" ø 2.6 mm
HO-2038 19.5 cm 7 3/4" ø 3.3 mm
HO-2039 19.5 cm 7 3/4" ø 4.0 mm
HO-2040 19.5 cm 7 3/4" ø 4.6 mm
HO-2041 19.5 cm 7 3/4" ø 5.3 mm
HO-2042 19.5 cm 7 3/4" ø 6.0 mm

Slightly curved
lancet tip, threaded end



GENERAL INSTRUMENTS

TROCARS, SUCTION TUBES, CANNULAS
(Lumber Puncture, Pudendus Anesthesia, Tonsil & Insuffiation)
Needle, Vein Cannula,

olten
Instruments



REF # SIZE cm SIZE in
HO-2043 15.0 cm 6"

ø 2.0 x 100 mm

Verres
Insufflation Cannula



REF # SIZE cm SIZE in
HO-2044 17.0 cm 6¾"

ø 2.0 x 120 mm

Verres
Insufflation Cannula



REF # SIZE cm SIZE in
HO-2045 18.0 cm 7"

complete
cannula with needle

Standard
Pudendus Anaesthesia Needle



REF #	SIZE cm	SIZE in	SHAPE
HO-2046	10.5 cm	4"	Fig.1
HO-2047	15.0 cm	6"	Fig.2

Fig.1 = ø 1.20 x 80 mm
Fig.2 = ø 1.50 x 80 mm

Standard
Vein Cannula



REF # SHAPE

HO-2048	Fig.1
HO-2049	Fig.2
HO-2050	Fig.3
HO-2051	Fig.4
HO-2052	Fig.5
HO-2053	Fig.6
HO-2054	Fig.7

Fig.1 = ø 1.20 x 76 mm (18 G)
Fig.2 = ø 1.20 x 89 mm (18 G)
Fig.3 = ø 1.00 x 76 mm (19 G)
Fig.4 = ø 1.00 x 89 mm (19 G)
Fig.5 = ø 0.70 x 76 mm (22 G)
Fig.6 = ø 0.70 x 50 mm (22 G)
Fig.7 = ø 0.70 x 89 mm (22 G)

Quinke
Lumbar Puncture Needle



REF # SHAPE

HO-2055	Fig.1
HO-2056	Fig.2
HO-2057	Fig.3

Fig.1 = ø 1.20 x 76 mm (18 G)
Fig.2 = ø 1.40 x 76 mm (17 G)
Fig.3 = ø 1.60 x 76 mm (16 G)

Tuohy
Lumbar Puncture Needle



REF # HO-2058

Standard
Tonsil Needle



REF # HO-2059

Standard
Tonsil Needle



REF # HO-2060

Standard
Tonsil Needle



GENERAL INSTRUMENTS

TROCARS, SUCTION TUBES, CANNULAS

Vessel Irrigation Cannula, Heparin Flushing Needle,
Liver Puncture Needle, Connector

Olten
Instruments

REF #	SIZE cm	SIZE in	SHAPE
HO-2061	06.0 cm	2 1/4"	Fig.1
HO-2062	06.0 cm	2 1/4"	Fig.2
HO-2063	06.0 cm	2 1/4"	Fig.3
HO-2064	06.0 cm	2 1/4"	Fig.4
HO-2065	06.0 cm	2 1/4"	Fig.5



Vollmar
Vessel Irrigation Cannula

Fig.1 = ø 1.5 mm
Fig.2 = ø 2.0 mm
Fig.3 = ø 2.5 mm
Fig.4 = ø 3.0 mm
Fig.5 = ø 4.0 mm

REF #	SIZE cm	SIZE in	SHAPE
HO-2066	15.0 cm	6"	Fig.1
HO-2067	15.0 cm	6"	Fig.2
HO-2068	15.0 cm	6"	Fig.3
HO-2069	15.0 cm	6"	Fig.4



Schmid
Vessel Irrigation Cannula

Fig.1 = ø 3.0 mm
Fig.2 = ø 4.0 mm
Fig.3 = ø 5.0 mm
Fig.4 = ø 6.0 mm

REF #	SIZE cm	SIZE in
HO-2070	06.5 cm	2 1/2"

button-ended



Mock
Heparin Flushing Needle

REF #	SHAPE
HO-2071	Fig.1
HO-2072	Fig.2
HO-2073	Fig.3
HO-2074	Fig.4
HO-2075	Fig.5
HO-2076	Fig.6
HO-2077	Fig.7
HO-2078	Fig.8

with stopping probe

Fig.1 = ø 1.00 x 35 mm
Fig.2 = ø 1.00 x 70 mm
Fig.3 = ø 1.20 x 70 mm
Fig.4 = ø 1.20 x 100 mm
Fig.5 = ø 1.40 x 70 mm
Fig.6 = ø 1.40 x 100 mm
Fig.7 = ø 1.60 x 70 mm
Fig.8 = ø 1.80 x 100 mm



Menghini
Liver Puncture Needle

REF #	SHAPE
HO-2079	Fig.1
HO-2080	Fig.2

for controlled liver
blind puncture

Fig.1 = ø 1.40 x 168 mm
Fig.2 = ø 1.80 x 168 mm



Menghini
Liver Puncture Needle



REF # HO-2081
LLA female = RC male

Standard
Connector



REF # HO-2082
RC female = LA male

Standard
Connector



REF # HO-2083
LLA male for 6 mm

Standard
Connector



REF # HO-2084
LLA Female for 3/16"

Standard
Connector



SUTURE

IO-2135 - to - IO-2375

Olten
Instruments



GENERAL INSTRUMENTS

SUTURE

Needle Holder, Micro Needle Holder

Olten
Instruments



Kalt
Needle Holder

REF #	SIZE cm	SIZE in	SHAPE
IO-2135	13.5 cm	5 1/4"	str



Barraquer-Troutman
Micro Needle Holder

REF #	SIZE cm	SIZE in	SHAPE
IO-2136	10.0 cm	4"	str
IO-2137	10.5 cm	4"	cvd



Arruga
Micro Needle Holder

REF #	SIZE cm	SIZE in	SHAPE
IO-2138	13.5 cm	5 1/4"	str
IO-2139	13.5 cm	5 1/4"	cvd



Barraquer-Troutman
Micro Needle Holder

REF #	SIZE cm	SIZE in	SHAPE
IO-2140	10.5 cm	4"	str
IO-2141	10.5 cm	4"	cvd
without lock			
IO-2142	10.5 cm	4"	str
IO-2143	10.5 cm	4"	cvd
with lock			



Barraquer
Micro Needle Holder

REF #	SIZE cm	SIZE in	SHAPE
IO-2144	11.5 cm	4 1/2"	cvd
IO-2145	13.5 cm	5 1/4"	cvd
IO-2146	14.0 cm	5 1/2"	cvd
with lock			



Barraquer
Micro Needle Holder

REF #	SIZE cm	SIZE in	SHAPE
IO-2147	13.5 cm	5 1/4"	cvd

With out lock



Castroviejo-Fino
Micro Needle Holder

REF #	SIZE cm	SIZE in	SHAPE
IO-2148	13.0 cm	5"	str
IO-2149	13.0 cm	5"	cvd



Castroviejo-Fino
Micro Needle Holder

REF #	SIZE cm	SIZE in	SHAPE
IO-2150	13.0 cm	5"	str

very delicate jaw
with lock



Castroviejo-Fino
Micro Needle Holder

REF #	SIZE cm	SIZE in	SHAPE
IO-2151	13.0 cm	5"	cvd

very delicate jaw
with lock



GENERAL INSTRUMENTS

SUTURE

Micro Needle Holder, Needle Holder

Olten
Instruments



REF #	SIZE cm	SIZE in	SHAPE
IO-2152	14.0 cm	5½"	cvd

Castroviejo
Micro Needle Holder



REF #	SIZE cm	SIZE in	SHAPE
IO-2153	14.0 cm	5½"	str
IO-2154	14.0 cm	5½"	cvd

Castroviejo
Micro Needle Holder



REF #	SIZE cm	SIZE in	SHAPE
IO-2155	14.0 cm	5½"	str
IO-2156	14.0 cm	5½"	cvd

with lock

Castroviejo
Micro Needle Holder



REF #	SIZE cm	SIZE in	SHAPE
IO-2157	16.0 cm	6¼"	str
IO-2158	16.0 cm	6¼"	cvd

delicate

Arruga
Needle Holder



REF #	SIZE cm	SIZE in	SHAPE
IO-2159	12.0 cm	4½"	str
IO-2160	13.0 cm	5¼"	str
IO-2161	12.0 cm	4½"	cvd
IO-2162	13.0 cm	5¼"	cvd

Castroviejo
Micro Needle Holder



REF #	SIZE cm	SIZE in	SHAPE
IO-2163	15.0 cm	6"	str
IO-2164	20.0 cm	8"	str

Crile-wood
Needle Holder



REF #	SIZE cm	SIZE in	SHAPE
IO-2165	12.0 cm	4¾"	str
one fenestrated jaw			
IO-2166	13.0 cm	5"	str
jaw with longitudinal serration			

Derf
Needle Holder



REF #	SIZE cm	SIZE in	SHAPE
IO-2167	12.5 cm	5"	str
grooved jaw			

Collier
Needle Holder



REF #	SIZE cm	SIZE in	SHAPE
IO-2168	13.0 cm	5"	str
smooth jaw			

Webster
Needle Holder



GENERAL INSTRUMENTS

SUTURE Needle Holder

Olten
Instruments



Halsey
Needle Holder

REF #	SIZE cm	SIZE in	SHAPE
IO-2169	13.5 cm	5½"	str

smooth jaw



Neivert
Needle Holder

REF #	SIZE cm	SIZE in	SHAPE
IO-2170	12.5 cm	5"	str

smooth jaw,
with special groove



Hegar-Baumgartner
Needle Holder

REF #	SIZE cm	SIZE in	SHAPE
IO-2171	14.0 cm	5½"	str

cross serrated jaw



Brown
Needle Holder

REF #	SIZE cm	SIZE in	SHAPE
IO-2172	13.0 cm	5"	str
IO-2173	18.0 cm	7"	str

heavy pattern
diagonally serrated jaw



Crile-Murray
Needle Holder

REF #	SIZE cm	SIZE in	SHAPE
IO-2174	15.0 cm	6"	str

slender pattern
cross serrated jaw



Crile-Wood
Needle Holder

REF #	SIZE cm	SIZE in	SHAPE
IO-2175	15.0 cm	6"	str

cross serrated
one grooved jaw



Adson
Needle Holder

REF #	SIZE cm	SIZE in	SHAPE
IO-2176	18.0 cm	7"	str

one fenestrated jaw



Metzenbaum
Needle Holder

REF #	SIZE cm	SIZE in	SHAPE
IO-2177	18.5 cm	7¼"	str

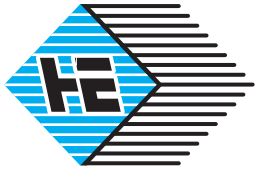
one grooved and
fenestrated jaw



M. G. Hospital
Needle Holder

REF #	SIZE cm	SIZE in	SHAPE
IO-2178	17.5 cm	6¾"	str

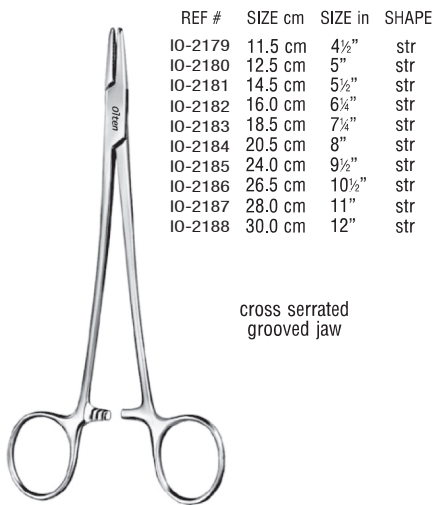
heavy pattern
grooved jaw



GENERAL INSTRUMENTS

SUTURE Needle Holder

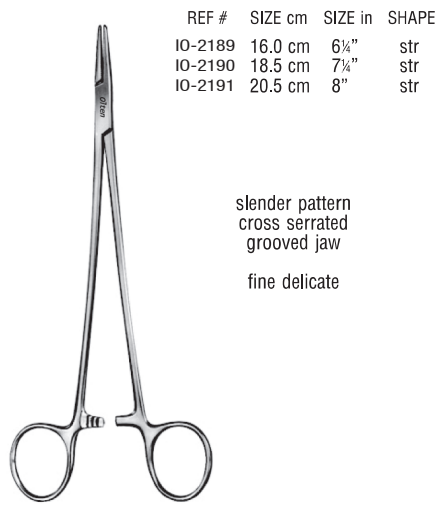
olten
Instruments



Mayo-Hegar
Needle Holder

REF #	SIZE cm	SIZE in	SHAPE
IO-2179	11.5 cm	4½"	str
IO-2180	12.5 cm	5"	str
IO-2181	14.5 cm	5½"	str
IO-2182	16.0 cm	6¼"	str
IO-2183	18.5 cm	7¼"	str
IO-2184	20.5 cm	8"	str
IO-2185	24.0 cm	9½"	str
IO-2186	26.5 cm	10½"	str
IO-2187	28.0 cm	11"	str
IO-2188	30.0 cm	12"	str

cross serrated
grooved jaw

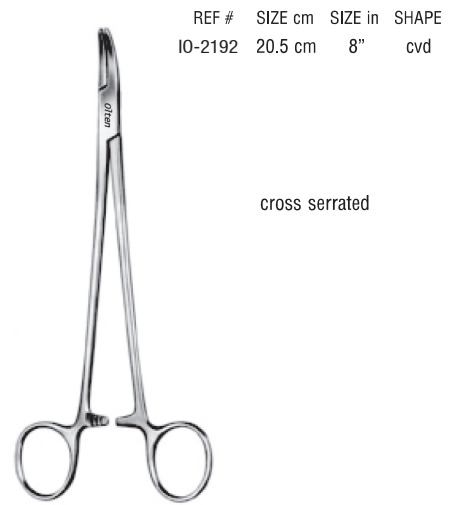


Mayo-Hegar
Needle Holder

REF #	SIZE cm	SIZE in	SHAPE
IO-2189	16.0 cm	6¼"	str
IO-2190	18.5 cm	7¼"	str
IO-2191	20.5 cm	8"	str

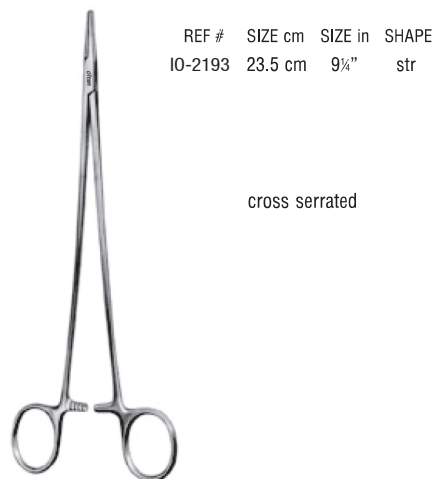
slender pattern
cross serrated
grooved jaw

fine delicate



Heaney
Needle Holder

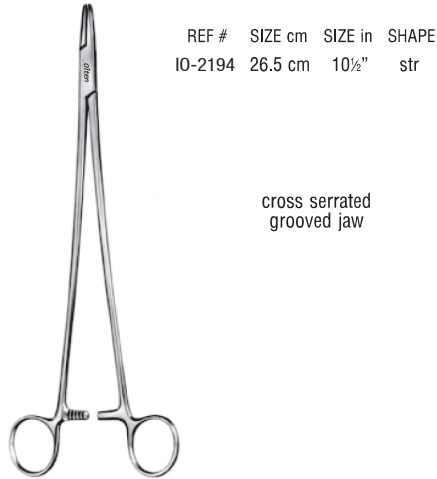
cross serrated



Jamison
Needle Holder

REF #	SIZE cm	SIZE in	SHAPE
IO-2193	23.5 cm	9¼"	str

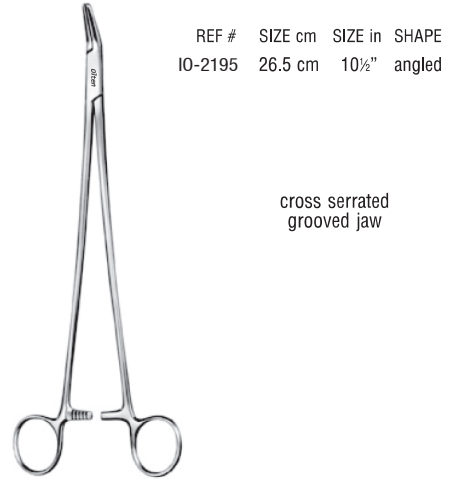
cross serrated



Masson
Needle Holder

REF #	SIZE cm	SIZE in	SHAPE
IO-2194	26.5 cm	10½"	str

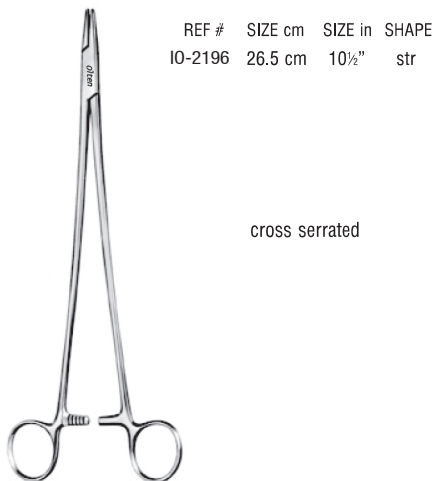
cross serrated
grooved jaw



Finocchio
Needle Holder

REF #	SIZE cm	SIZE in	SHAPE
IO-2195	26.5 cm	10½"	angled

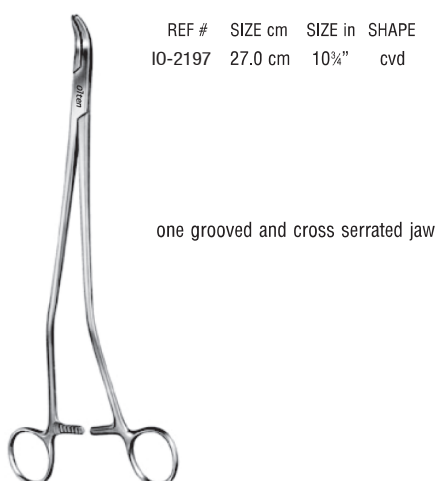
cross serrated
grooved jaw



Wangensteen
Needle Holder

REF #	SIZE cm	SIZE in	SHAPE
IO-2196	26.5 cm	10½"	str

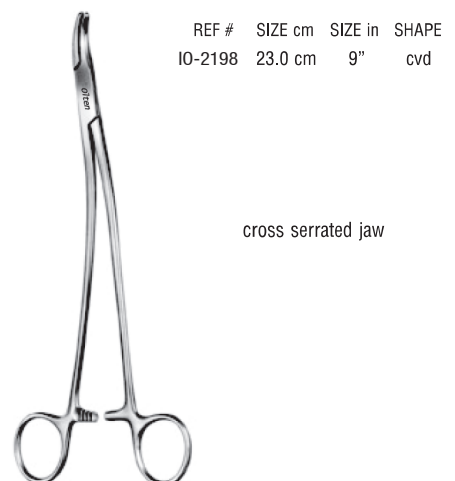
cross serrated



Johnson
Needle Holder

REF #	SIZE cm	SIZE in	SHAPE
IO-2197	27.0 cm	10¾"	cvd

one grooved and cross serrated jaw



Stratte
Needle Holder

REF #	SIZE cm	SIZE in	SHAPE
IO-2198	23.0 cm	9"	cvd

cross serrated jaw



GENERAL INSTRUMENTS

SUTURE

Needle Holder, Micro Needle Holder

Olten
Instruments



Olsen-Hegar
Needle Holder

REF #	SIZE cm	SIZE in	SHAPE
IO-2199	14.0 cm	5½"	str
IO-2200	19.0 cm	7½"	str

cross serrated jaw



Gillies
Needle Holder

REF #	SIZE cm	SIZE in	SHAPE
IO-2201	16.0 cm	6¼"	cvd

one fenestrated jaw
cross serrated



Crile
Needle Holder

REF #	SIZE cm	SIZE in	SHAPE
IO-2202	15.0 cm	6"	str

one grooved jaw
cross serrated



Mathieu
Needle Holder

REF #	SIZE cm	SIZE in	SHAPE
IO-2203	14.0 cm	5½"	str
IO-2204	17.0 cm	6¾"	str
IO-2205	20.0 cm	8"	str

cross serrated jaw



Mathieu
Needle Holder

REF #	SIZE cm	SIZE in	SHAPE
IO-2206	14.0 cm	5½"	str
IO-2207	16.5 cm	6½"	str

slender pattern
cross serrated jaw



Toennis
Needle Holder

REF #	SIZE cm	SIZE in	SHAPE
IO-2208	18.5 cm	7¼"	str

cross serrated jaw



Lichtenberg
Needle Holder

REF #	SIZE cm	SIZE in	SHAPE
IO-2209	20.0 cm	8"	str

cross serrated jaw



Standard
Micro Needle Holder

REF #	SIZE cm	SIZE in	SHAPE
IO-2210	16.0 cm	6½"	cvd

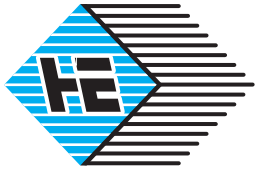
smooth jaw



Standard
Micro Needle Holder

REF #	SIZE cm	SIZE in	SHAPE
IO-2211	19.0 cm	7½"	str
IO-2212	23.0 cm	9"	str
IO-2213	28.5 cm	11¼"	str
IO-2214	19.0 cm	7½"	cvd
IO-2215	23.0 cm	9"	cvd
IO-2216	28.5 cm	11¼"	cvd

smooth jaw



GENERAL INSTRUMENTS
SUTURE
Needle Holder, Micro Needle Holder

**Tungsten Carbide
 Inserted (TC)**



REF #	SIZE cm	SIZE in	SHAPE
IO-2217	15.0 cm	6"	str
IO-2218	18.0 cm	7"	str
IO-2219	21.0 cm	8¼"	str
IO-2220	23.0 cm	9"	str
IO-2221	15.0 cm	6"	cvd
IO-2222	18.0 cm	7"	cvd
IO-2223	21.0 cm	8¼"	cvd
IO-2224	23.0 cm	9"	cvd

without lock

REF #	SIZE cm	SIZE in	SHAPE
IO-2225	15.0 cm	6"	str
IO-2226	18.0 cm	7"	str
IO-2227	21.0 cm	8¼"	str
IO-2228	23.0 cm	9"	str
IO-2229	15.0 cm	6"	cvd
IO-2230	18.0 cm	7"	cvd
IO-2231	21.0 cm	8¼"	cvd
IO-2232	23.0 cm	9"	cvd

with lock

Standard
Micro Needle Holder



REF #	SIZE cm	SIZE in	SHAPE
IO-2233	18.0 cm	7"	str
IO-2234	21.0 cm	8¼"	str

double action
 with lock

Gregory
Micro Needle Holder



REF #	SIZE cm	SIZE in	SHAPE
IO-2235	18.0 cm	7"	str

smooth jaw

Hepp-Scheidel
Micro Needle Holder



REF #	SIZE cm	SIZE in	SHAPE
IO-2236	13.0 cm	5"	str
IO-2237	15.0 cm	6"	str

mini profile

Webster
Needle Holder



REF #	SIZE cm	SIZE in	SHAPE
IO-2238	18.0 cm	7"	str

micro profile
 with lock

JABOMA
Micro Needle Holder



REF #	SIZE cm	SIZE in	SHAPE
IO-2239	14.5 cm	5½"	str
IO-2240	14.5 cm	5½"	cvd

smooth jaw

REF #	SIZE cm	SIZE in	SHAPE
IO-2241	14.5 cm	5¾"	str
IO-2242	14.5 cm	5¾"	cvd

Micro profile

REF #	SIZE cm	SIZE in	SHAPE
IO-2243	18.0 cm	7"	str
IO-2244	18.0 cm	7"	cvd

micro profile

REF #	SIZE cm	SIZE in	SHAPE
IO-2245	21.5 cm	8½"	str
IO-2246	21.5 cm	8½"	cvd

micro profile

Castroviejo
Micro Needle Holder (with lock)



REF #	SIZE cm	SIZE in	SHAPE
IO-2247	16.0 cm	6¼"	str
IO-2248	16.0 cm	6¼"	cvd

mini profile

Arruga
Needle Holder



REF #	SIZE cm	SIZE in	SHAPE
IO-2249	12.5 cm	5"	str

smooth jaw
 with lock

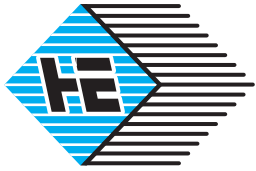
Castroviejo
Micro Needle Holder



REF #	SIZE cm	SIZE in	SHAPE
IO-2250	13.0 cm	5"	cvd

smooth jaw
 with lock

Barraquer
Micro Needle Holder



GENERAL INSTRUMENTS

SUTURE

Micro Needle Holder, Needle Holder

**Tungsten Carbide
Inserted (TC)**

**Olten
Instruments**



Barraquer
Micro Needle Holder

REF #	SIZE cm	SIZE in	SHAPE
IO-2251	13.0 cm	5"	cvd smooth jaw



Webster
Needle Holder

REF #	SIZE cm	SIZE in	SHAPE
IO-2252	13.0 cm	5"	str smooth jaw



Kilner
Needle Holder

REF #	SIZE cm	SIZE in	SHAPE
IO-2253	13.0 cm	5"	str mini profile



Derf
Needle Holder

REF #	SIZE cm	SIZE in	SHAPE
IO-2254	12.0 cm	4¾"	str mini profile



Hegar-Baumgartner
Needle Holder

REF #	SIZE cm	SIZE in	SHAPE
IO-2255	13.0 cm	5"	str
IO-2256	14.5 cm	5½"	str mini profile



Halsey
Needle Holder

REF #	SIZE cm	SIZE in	SHAPE
IO-2257	13.0 cm	5"	str
IO-2258	12.0 cm	4¾"	str smooth jaw



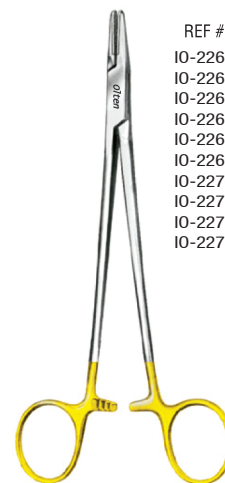
Crile-Wood
Needle Holder

REF #	SIZE cm	SIZE in	SHAPE
IO-2259	15.0 cm	6"	str
IO-2260	20.5 cm	8"	str mini profile



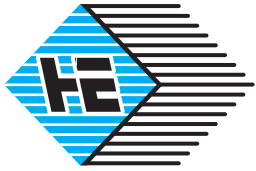
Sarot
Needle Holder

REF #	SIZE cm	SIZE in	SHAPE
IO-2261	18.0 cm	7"	str
IO-2262	20.0 cm	8"	str
IO-2263	26.0 cm	10"	str normal profile



Mayo-Hegar
Needle Holder

REF #	SIZE cm	SIZE in	SHAPE
IO-2264	11.5 cm	4½"	str
IO-2265	12.5 cm	5"	str
IO-2266	14.0 cm	5½"	str
IO-2267	16.0 cm	6¼"	str
IO-2268	18.0 cm	7"	str
IO-2269	20.0 cm	8"	str
IO-2270	24.0 cm	9½"	str
IO-2271	26.0 cm	10¼"	str
IO-2272	28.0 cm	11"	str
IO-2273	30.0 cm	12"	str normal profile



GENERAL INSTRUMENTS
SUTURE
Needle Holder

**Tungsten Carbide
Inserted (TC)**

**Olten
Instruments**



Heaney
Needle Holder

REF #	SIZE cm	SIZE in	SHAPE
IO-2274	20.0 cm	8"	cvd
IO-2275	24.0 cm	9½"	cvd
IO-2276	26.0 cm	10¼"	cvd normal profile



DeBakey
Needle Holder

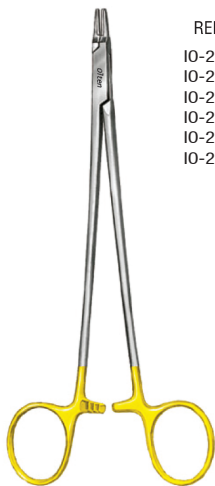
REF #	SIZE cm	SIZE in	SHAPE
IO-2277	18.0 cm	7"	str
IO-2278	20.0 cm	8"	str
IO-2279	23.0 cm	9"	str
IO-2280	26.0 cm	10¼"	str
IO-2281	31.0 cm	12¼"	str

delicate pattern
mini profile



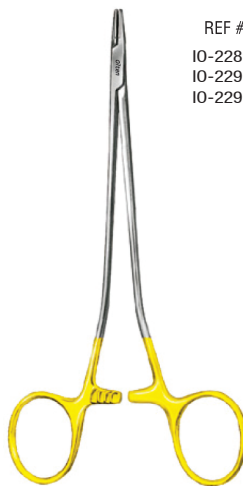
Masson
Needle Holder

REF #	SIZE cm	SIZE in	SHAPE
IO-2282	26.5 cm	10½"	str normal profile



Ryder
Needle Holder

REF #	SIZE cm	SIZE in	SHAPE
IO-2283	12.5 cm	5"	str
IO-2284	15.0 cm	6"	str
IO-2285	18.0 cm	7"	str
IO-2286	20.0 cm	8"	str
IO-2287	23.0 cm	9"	str
IO-2288	26.0 cm	10¼"	str mini profile



Needle Holder

REF #	SIZE cm	SIZE in	SHAPE
IO-2289	15.0 cm	6"	str
IO-2290	17.0 cm	6¾"	str
IO-2291	20.0 cm	8"	str

elastic type
mini profile



Finochietto
Needle Holder

REF #	SIZE cm	SIZE in	SHAPE
IO-2292	26.5 cm	10½"	angled normal profile



Ryder-Vascular
Needle Holder

REF #	SIZE cm	SIZE in	SHAPE
IO-2293	12.5 cm	5"	str
IO-2294	15.5 cm	6"	str
IO-2295	17.5 cm	7"	str
IO-2296	20.0 cm	8"	str
IO-2297	22.5 cm	8¾"	str
IO-2298	26.0 cm	10¼"	str slender pattern micro profile



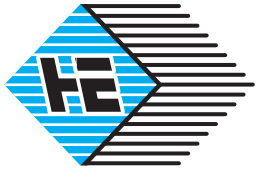
Wangenstein
Needle Holder

REF #	SIZE cm	SIZE in	SHAPE
IO-2299	27.0 cm	10¾"	str normal profile



Hegar-Vascular
Needle Holder

REF #	SIZE cm	SIZE in	SHAPE
IO-2300	14.0 cm	5½"	str
IO-2301	18.5 cm	7¼"	str
IO-2302	20.5 cm	8"	str
IO-2303	23.0 cm	9"	str micro profile



GENERAL INSTRUMENTS

SUTURE Needle Holder

Tungsten Carbide
Inserted (TC)

Olten
Instruments



Bozemann
Needle Holder

REF #	SIZE cm	SIZE in	SHAPE
IO-2304	20.5 cm	8"	str
IO-2305	24.0 cm	9½"	str
IO-2306	26.5 cm	10½"	str
IO-2307	29.0 cm	11½"	str
normal profile			



Hegar
Needle Holder

REF #	SIZE cm	SIZE in	SHAPE
IO-2308	20.0 cm	8"	str
IO-2309	23.5 cm	9¼"	str
normal profile			



Stratte
Needle Holder

REF #	SIZE cm	SIZE in	SHAPE
IO-2310	23.0 cm	9"	cvd
heavy pattern normal profile			
IO-2311	23.0 cm	9"	cvd
delicate pattern normal profile			



Microvascular
Needle Holder

REF #	SIZE cm	SIZE in	SHAPE
IO-2312	14.0 cm	5½"	str
IO-2313	17.5 cm	7"	str
IO-2314	20.0 cm	8"	str
IO-2315	28.5 cm	11¼"	str
slender pattern micro profile			



Needle Holder

REF #	SIZE cm	SIZE in	SHAPE
IO-2316	14.0 cm	5½"	str
IO-2317	16.0 cm	6¼"	str
IO-2318	17.5 cm	7"	str
IO-2319	20.0 cm	8"	str
slender pattern smooth jaw			



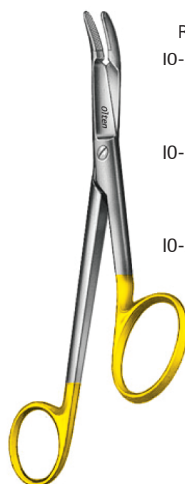
Needle Holder

REF #	SIZE cm	SIZE in	SHAPE
IO-2320	14.0 cm	5½"	str
IO-2321	16.0 cm	6¼"	str
IO-2322	17.5 cm	7"	str
IO-2323	20.0 cm	8"	str
slender pattern micro profile			



Olsen-Hegar
Needle Holder

REF #	SIZE cm	SIZE in	SHAPE
IO-2324	14.5 cm	5¾"	str
IO-2325	17.0 cm	6¾"	str
IO-2326	19.0 cm	7½"	str
normal profile			



Foster-Gillies
Needle Holder

REF #	SIZE cm	SIZE in	SHAPE
IO-2327	11.0 cm	4¼"	str
smooth jaw			
IO-2328	15.0 cm	6"	angled
mini profile			
IO-2329	16.0 cm	6¼"	cvd
normal profile			



Mathieu
Needle Holder

REF #	SIZE cm	SIZE in	SHAPE
IO-2330	14.0 cm	5½"	str
IO-2331	17.0 cm	6¾"	str
IO-2332	20.0 cm	8"	str
normal profile			



GENERAL INSTRUMENTS

SUTURE Needle Holder

Tungsten Carbide Inserted (TC)

Olten
Instruments



Mathieu
Needle Holder

REF #	SIZE cm	SIZE in	SHAPE
IO-2333	14.0 cm	5½"	str
IO-2334	17.0 cm	6¾"	str
IO-2335	20.0 cm	8"	str
normal profile			



Mathieu
Needle Holder

REF #	SIZE cm	SIZE in	SHAPE
IO-2336	17.0 cm	6¾"	str
IO-2337	20.0 cm	8"	str
IO-2338	23.0 cm	9"	str
with interior ratchet normal profile			



Toennis
Needle Holder

REF #	SIZE cm	SIZE in	SHAPE
IO-2339	18.5 cm	7¼"	str
normal profile			



Langenbeck
Needle Holder

REF #	SIZE cm	SIZE in	SHAPE
IO-2340	18.0 cm	7"	str
IO-2341	20.5 cm	8"	str
IO-2342	23.0 cm	9"	str
normal profile			



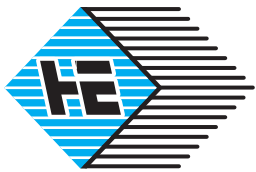
Lichtenberg
Needle Holder

REF #	SIZE cm	SIZE in	SHAPE
IO-2343	20.0 cm	8"	str
lightweight model normal profile			



Zweifel
Needle Holder

REF #	SIZE cm	SIZE in	SHAPE
IO-2344	20.5 cm	8"	str
IO-2345	23.0 cm	9"	str
with hinged ratchet normal profile			



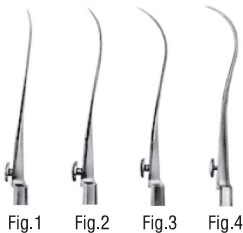
GENERAL INSTRUMENTS

SUTURE

Reverdin Needle, Ligature Needle



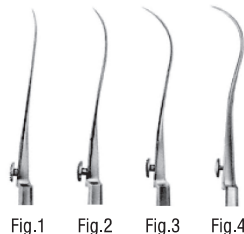
REF #	SIZE cm	SIZE in	SHAPE
IO-2346	14.0 cm	5½"	Fig.1
IO-2347	14.0 cm	5½"	Fig.2
IO-2348	14.0 cm	5½"	Fig.3
IO-2349	14.0 cm	5½"	Fig.4



Reverdin
Reverdin Needle (small)



REF #	SIZE cm	SIZE in	SHAPE
IO-2350	19.5 cm	7¾"	Fig.1
IO-2351	19.5 cm	7¾"	Fig.2
IO-2352	19.5 cm	7¾"	Fig.3
IO-2353	19.5 cm	7¾"	Fig.4



Reverdin
Reverdin Needle (medium)



REF #	SIZE cm	SIZE in	SHAPE
IO-2354	23.0 cm	9"	Fig.1
IO-2355	23.0 cm	9"	Fig.2
IO-2356	23.0 cm	9"	Fig.3
IO-2357	23.0 cm	9"	Fig.4



Reverdin
Reverdin Needle (long)



Blunt



Sharp

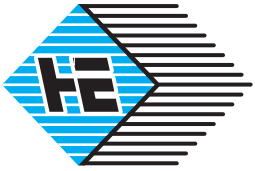
Deschamps
Ligature Needle



Deschamps
Ligature Needle

REF #	SIZE cm	SIZE in	SHAPE
IO-2358	25.0 cm	10"	Left / Sharp
IO-2359	25.0 cm	10"	Left / Blunt
IO-2360	28.0 cm	11"	Left / Sharp
IO-2361	28.0 cm	11"	Left / Blunt

REF #	SIZE cm	SIZE in	SHAPE
IO-2362	25.0 cm	10"	Right / Sharp
IO-2363	25.0 cm	10"	Right / Blunt
IO-2364	28.0 cm	11"	Right / Sharp
IO-2365	28.0 cm	11"	Right / Blunt



GENERAL INSTRUMENTS
SUTURE
Needle Holder, Ligature Needle



Young
Needle Holder

REF #	SIZE cm	SIZE in
IO-2366	24.5 cm	9 3/4"

Needle



Fig.1
REF # IO-2367



Fig.2
REF # IO-2368



Fig.3
REF # IO-2369



Schmieden-Dick
Ligature Needle

REF #	SIZE cm	SIZE in
IO-2370	29.0 cm	12"

malleable



Schmieden
Ligature Needle

REF #	SIZE cm	SIZE in
IO-2371	24.0 cm	9 1/2"



Standard
Ligature Needle

REF #	SIZE cm	SIZE in
IO-2372	20.5 cm	8"

malleable



Cooper
Ligature Needle

REF #	SIZE cm	SIZE in
IO-2373	18.5 cm	7 1/2"



Kronecker
Ligature Needle

REF #	SIZE cm	SIZE in	SHAPE
IO-2374	12.5 cm	5"	left hand
IO-2375	12.5 cm	5"	right hand

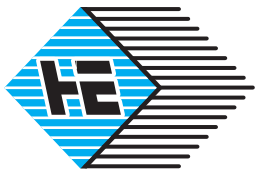
delicate pattern



DRESSING

JO-2425 - to - JO-2451

Oltten
Instruments



GENERAL INSTRUMENTS

DRESSING

Bandage Scissors, Plaster Shears, Plaster Scissors

Olten
Instruments



Lorenz
Bandage Scissors

REF #	SIZE cm	SIZE in
JO-2425	23.0 cm	9"



Lister
Bandage Scissors

REF #	SIZE cm	SIZE in
JO-2426	14.0 cm	5½"
JO-2427	16.0 cm	6¼"
JO-2428	18.5 cm	7¼"
JO-2429	20.0 cm	8"



Bergmann
Plaster Shears

REF #	SIZE cm	SIZE in
JO-2430	23.5 cm	9¼"



Esmarch
Plaster Shears

REF #	SIZE cm	SIZE in
JO-2431	20.0 cm	8"

heavy pattern
short blades



Standard
Bandage Scissors

REF #	SIZE cm	SIZE in
JO-2432	16.0 cm	6½"
JO-2433	19.0 cm	7½"

black plastic rings
autoclavable



Bruns
Plaster Scissors

REF #	SIZE cm	SIZE in
JO-2434	24.0 cm	9½"

one serrated cutting edge



Stille
Plaster Shears

REF #	SIZE cm	SIZE in
JO-2435	23.0 cm	9"
JO-2436	26.0 cm	10¼"
JO-2437	35.5 cm	14"



Lister
Bandage Scissors

REF #	SIZE cm	SIZE in
JO-2438	14.0 cm	5½"
JO-2439	16.0 cm	6¼"
JO-2440	18.0 cm	7"

**Tungsten Carbide
Inserted (TC)**



Bruns
Plaster Scissors

REF #	SIZE cm	SIZE in
JO-2441	24.0 cm	9½"

**Tungsten Carbide
Inserted (TC)**



GENERAL INSTRUMENTS

DRESSING

Plaster Knife, Plaster Saw, Plaster Spreader, Plaster Breakers

Olten
Instruments



REF #	SIZE cm	SIZE in
JO-2442	20.0 cm	8"

with wooden handle

Hopkins
Plaster Knife



REF #	SIZE cm	SIZE in
JO-2443	18.0 cm	7"

Esmarch
Plaster Knife



REF #	SIZE cm	SIZE in
JO-2444	18.0 cm	7"

Reiner
Plaster Knife



REF #	SIZE cm	SIZE in
JO-2445	21.0 cm	8¼"

with wooden handle

Plaster Knife



REF #	SIZE cm	SIZE in
JO-2446	15.5 cm	6"

Engel
Plaster Saw



REF #	SIZE cm	SIZE in
JO-2447	48.0 cm	19"

Hermann
Plaster Spreader



REF #	SIZE cm	SIZE in
JO-2448	28.0 cm	11"

Hennig
Plaster Spreader



REF #	SIZE cm	SIZE in
JO-2449	23.0 cm	9"

MOD.U.S.A
Plaster Spreader



REF #	SIZE cm	SIZE in
JO-2450	18.0 cm	7"
JO-2451	26.5 cm	10½"

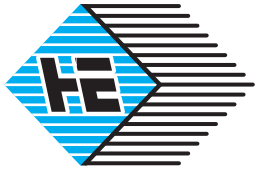
Wolff
Plaster Breaker



BONE SURGERY AND IMPLANTS

KO-2501 - to - KO-4248

Olten
Instruments



ORTHOPEDIC INSTRUMENTS

BONE SURGERY

Burr, Pointed Cutter, Flat Burr, Trephine, Bone Holding Clamp,
Traction Bar

Olten
Instruments



REF #	Ø SIZE mm
KO-2501	8.0 mm
KO-2502	10.0 mm

conical, fine spacing

Standard
Burr



REF #	Ø SIZE mm
KO-2503	12.0 mm
KO-2504	15.0 mm
KO-2505	1.5 mm
KO-2506	1.8 mm
KO-2507	2.0 mm
KO-2508	2.2 mm
KO-2509	2.5 mm
KO-2510	2.8 mm
KO-2511	3.0 mm
KO-2512	3.2 mm
KO-2513	3.5 mm
KO-2514	4.0 mm
KO-2515	5.0 mm

cylindrical, coarse spacing

Doyen
Burr



REF #	Ø SIZE mm
KO-2516	8.0 mm
KO-2517	10.0 mm
KO-2518	12.0 mm

oval, coarse spacing

Albee
Burr



REF #	Ø SIZE mm
KO-2519	7.0 mm

Albee
Pointed Cutter



REF #	Ø SIZE mm
KO-2520	13.0 mm

oval, coarse spacing

Borchardt
Burr



REF #	SIZE cm	SIZE in
KO-2521	12.0 cm	4 3/4"
KO-2522	18.5 cm	7 1/4"
KO-2523	20.0 cm	8"

4-Prong
Moveable

Lowman-Hoglund
Bone Holding Clamp



REF #	Ø SIZE mm
KO-2524	8.0 mm

short borchardt shaft

Toti
Trephine



Gerster-Lowman
Bone Holding Clamp

REF #	SIZE cm	SIZE in	SHAPE
KO-2525	9.0 cm	3 1/2"	3 Prong
KO-2526	11.5 cm	4 1/2"	3 Prong
KO-2527	14.0 cm	5 1/2"	3 Prong
KO-2528	16.0 cm	6 1/4"	3 Prong
KO-2529	18.0 cm	7"	3 Prong
KO-2530	20.0 cm	8"	3 Prong
KO-2531	22.0 cm	8 3/4"	3 Prong



REF #
KO-2532

Gerster
Traction Bar



ORTHOPEDIC INSTRUMENTS

BONE SURGERY

Wire Twisting Forceps, Flat Nose Plier, Wise Grip

Olten
Instruments



Standard
Wire Twisting Forceps

REF #	SIZE cm	SIZE in	SHAPE
KO-2533	15.5 cm	6"	str
KO-2534	18.0 cm	7"	str

**Tungsten Carbide
Inserted (TC)**



Standard
Wire Twisting Forceps

REF #	SIZE cm	SIZE in	SHAPE
KO-2535	15.5 cm	6"	str
KO-2536	18.0 cm	7"	str

**Tungsten Carbide
Inserted (TC)**



Standard
Wire Twisting Forceps

REF #	SIZE cm	SIZE in	SHAPE
KO-2537	15.5 cm	6"	str

**Tungsten Carbide
Inserted (TC)**



Standard
Wire Twisting Forceps

REF #	SIZE cm	SIZE in	SHAPE
KO-2538	20.0 cm	8"	str

**Tungsten Carbide
Inserted (TC)**



Standard
Wire Twisting Forceps

REF #	SIZE cm	SIZE in	SHAPE
KO-2539	15.5 cm	6"	cvd

**Tungsten Carbide
Inserted (TC)**



Corwin
Combi-Wire Twisting Forceps

REF #	SIZE cm	SIZE in	SHAPE
KO-2540	18.5 cm	7 1/4"	str

**Tungsten Carbide
Inserted (TC)**



Standard
Flat Nose Plier

REF #	SIZE cm	SIZE in
KO-2541	18.5 cm	7 1/4"

parallel grip



Double Action
Wire Twisting Forceps

REF #	SIZE cm	SIZE in
KO-2542	11.5 cm	4 1/2"



Standard
Vise Grip

REF #	SIZE cm	SIZE in
KO-2543	18.0 cm	7"
KO-2544	20.0 cm	8"



ORTHOPEDIC INSTRUMENTS

BONE SURGERY Flat Nose Plier

olten
Instruments



REF #	SIZE cm	SIZE in	SHAPE
KO-2545	15.0 cm	6"	str

Standard
Combi-Flat Nose Plier



REF #	SIZE cm	SIZE in
KO-2546	18.0 cm	7"

parallel grip

Standard
Flat Nose Plier



REF #	SIZE cm	SIZE in	SHAPE
KO-2547	18.0 cm	7"	Fig.1
KO-2548	18.0 cm	7"	Fig.2

Fig.1
4.5 mm
Fig.2
7.0 mm

parallel grip

Standard
Flat Nose Plier



REF #	SIZE cm	SIZE in	SHAPE
KO-2549	18.0 cm	7"	Fig.1
KO-2550	18.0 cm	7"	Fig.2
KO-2551	18.0 cm	7"	Fig.3

**Tungsten Carbide
Inserted (TC)**

Fig.1
2.0 mm

Fig.2
4.5 mm

Fig.3
7.0 mm

parallel grip

Standard
Flat Nose Plier



REF #	SIZE cm	SIZE in
KO-2552	13.5 cm	5 1/4"

Standard
Flat Nose Plier



REF #	SIZE cm	SIZE in
KO-2553	18.0 cm	7"

Standard
Round / Flat Nose Plier



REF #	SIZE cm	SIZE in
KO-2554	16.0 cm	6 1/4"

with
longitudinal groove

Hackstock
Flat Nose Plier



REF #	SIZE cm	SIZE in	SHAPE
KO-2555	17.0 cm	6 3/4"	Fig.1
KO-2556	17.0 cm	6 3/4"	Fig.2

Fig.1
cross serration
without groove

Fig.2
cross serration
with crosswise groove

Standard
Flat Nose Plier



REF #	SIZE cm	SIZE in
KO-2557	19.5 cm	7 3/4"

Standard
Flat Nose Plier, pointed



ORTHOPEDIC INSTRUMENTS

BONE SURGERY

Wire Cutting Pliers, Wire Guide

**Tungsten Carbide
Inserted (TC)**

**Olten
Instruments**



REF # SIZE cm SIZE in
KO-2558 16.0 cm 6¼"

for soft wires
up to
Ø 2.4 mm

for hard wires
up to
Ø 1.8 mm

**Standard
Wire Cutting Pliers**



REF # SIZE cm SIZE in
KO-2559 16.0 cm 6¼"

for soft wires
up to
Ø 2.2 mm

for hard wires
up to
Ø 2.0 mm

**Diamant
Wire Cutter, front action**



REF # SIZE cm SIZE in
KO-2560 17.5 cm 7"

for hard wires
up to
Ø 2.2 mm

**Gigant-Compact
Wire Cutting Pliers**



REF # SIZE cm SIZE in
KO-2561 23.0 cm 9"

for hard wires
up to
Ø 3.0 mm

**Gigant-Compact
Wire Cutting Pliers**



REF # SIZE cm SIZE in
KO-2562 17.0 cm 6¾"

for soft wires
up to
Ø 2.0 mm

for hard wires
up to
Ø 1.7 mm

**Gigant-Compact
Wire Cutting Pliers**



REF # SIZE cm SIZE in
KO-2563 23.5 cm 9¼"

for soft wires
up to
Ø 2.8 mm

for hard wires
up to
Ø 2.2 mm

**Gigant-Compact
Wire Cutting Pliers**



REF # SIZE cm SIZE in
KO-2564 15.0 cm 6"
KO-2565 22.0 cm 8¾"

for soft wires
up to
Ø 2.0 mm

for hard wires
up to
Ø 1.2 mm

**Standard
Wire Cutting Pliers**



REF # SIZE cm SIZE in
KO-2566 17.5 cm 7"

for soft wires
up to
Ø 2.0 mm

for hard wires
up to
Ø 1.5 mm

**Standard
Wire Cutting Pliers**



REF # SIZE cm SIZE in
KO-2567 47.0 cm 18½"

for wires
up to
Ø 6.0 mm

**Standard
Wire / Pin Cutting Pliers**



ORTHOPEDIC INSTRUMENTS

BONE SURGERY

Wire Tightener Extension Pin, Extension Bow, Wire Strainer,
Wrench, Wire Guide

Olten
Instruments



Demel
Wire Guide

REF #	SIZE cm	SIZE in
KO-2568	31.0 cm	12 $\frac{1}{4}$ "
KO-2569	29.0 cm	11 $\frac{1}{2}$ "
KO-2570	28.0 cm	11"



Loute
Wire Tightener

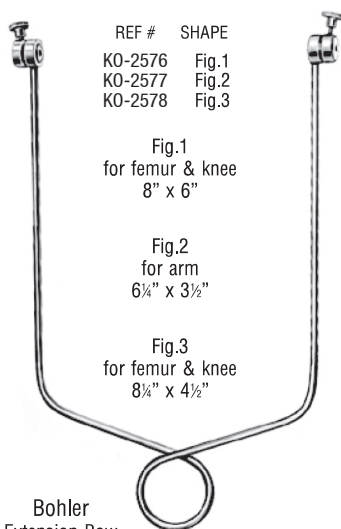
REF #	SIZE cm	SIZE in
KO-2571	21.0 cm	8 $\frac{1}{4}$ "



Steinmann
Extension Pin

REF #	SIZE cm	SIZE in
KO-2572	14.0 cm	5 $\frac{1}{2}$ "
KO-2573	16.0 cm	6 $\frac{1}{4}$ "
KO-2574	18.0 cm	7"
KO-2575	20.0 cm	8"

with trocar point



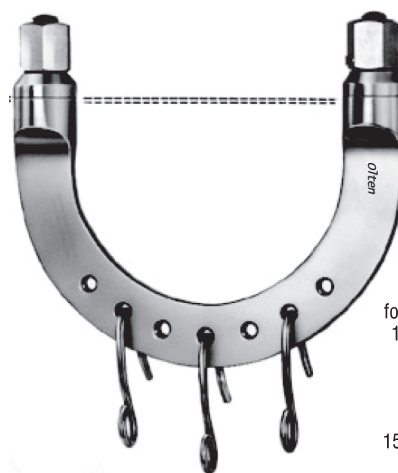
Bohler
Extension Bow

REF #	SHAPE
KO-2576	Fig.1
KO-2577	Fig.2
KO-2578	Fig.3

Fig.1
for femur & knee
8" x 6"

Fig.2
for arm
6 $\frac{1}{4}$ " x 3 $\frac{1}{2}$ "

Fig.3
for femur & knee
8 $\frac{1}{4}$ " x 4 $\frac{1}{2}$ "



Kirschner
Extension Bow

REF #	SHAPE
KO-2579	Fig.1
KO-2580	Fig.2
KO-2581	Fig.3
KO-2582	Fig.4
KO-2583	Fig.5

Fig.1
for children
95 x 70 mm

Fig.2
for wrist & ankle
105 x 105 mm

Fig.3
for elbow
120 x 120 mm

Fig.4
for knee
155 x 155 mm

Fig.5
for femur
200 x 155 mm



Kirschner
Extension Bow

REF #	SIZE cm	SIZE in	SHAPE
KO-2584	18.5 cm	7 $\frac{1}{4}$ "	Fig.1
KO-2585	26.5 cm	10 $\frac{1}{2}$ "	Fig.1

Fig.1
small pattern
0 - 40 mm

Fig.2
large pattern
35 - 200 mm



Standard
Wire Strainer

REF #	SIZE cm	SIZE in
KO-2586	18.5 cm	7 $\frac{1}{4}$ "



ORTHOPEDIC INSTRUMENTS

BONE SURGERY

Fixation Disc, Extension Bow, Traction Hooks, Hand Drill, Easy Driver, Keys
Handle with chuck

Olten
Instruments



Standard
Extension Bow

REF #	SHAPE
KO-2587	Fig.1
KO-2588	Fig.2

Fig.1
180 x 100 mm

Fig.2
270 x 160 mm



Standard
KO-2589
Handle with chuck



Standard
Handle with chuck

REF #	SIZE cm	SIZE in
KO-2590	14.0 cm	5½"



Bunell
KO-2591
Hand Drill



Ralk
KO-2592
Bone Drill



Universal
KO-2593
Bone Drill
W/out Lock



Universal
KO-2594
Bone Drill
with Lock



Moore
Bone Drill

REF #	SIZE cm	SIZE in
KO-2595	28.0 cm	11"



Hudson
KO-2597
Complete Set
Set of 7-Pcs

Hudson
KO-2596
Hand Drill Only



KO-2598
9mm



KO-2601
22mm



KO-2599
14mm



KO-2602



KO-2600
16mm



Cusing
10mm - KO-2603
14mm - KO-2604
16mm - KO-2605



ORTHOPEDIC INSTRUMENTS

BONE SURGERY

Wire Drill

o1ten
Instruments

LENGTH 60 mm	
REF #	Ø SIZE mm
KO-2606	1.0 mm
KO-2607	1.2 mm
KO-2608	1.4 mm
KO-2609	1.5 mm
KO-2610	1.6 mm
KO-2611	1.8 mm
KO-2612	2.0 mm
KO-2613	2.2 mm

LENGTH 120 mm	
REF #	Ø SIZE mm
KO-2614	1.0 mm
KO-2615	1.2 mm
KO-2616	1.4 mm
KO-2617	1.5 mm
KO-2618	1.6 mm
KO-2619	1.8 mm
KO-2620	2.0 mm
KO-2621	2.2 mm

LENGTH 140 mm	
REF #	Ø SIZE mm
KO-2622	1.0 mm
KO-2623	1.2 mm
KO-2624	1.4 mm
KO-2625	1.5 mm
KO-2626	1.6 mm
KO-2627	1.8 mm
KO-2628	2.0 mm
KO-2629	2.2 mm

LENGTH 160 mm	
REF #	Ø SIZE mm
KO-2630	1.0 mm
KO-2631	1.2 mm
KO-2632	1.4 mm
KO-2633	1.5 mm
KO-2634	1.6 mm
KO-2635	1.8 mm
KO-2636	2.0 mm
KO-2637	2.2 mm
KO-2638	2.5 mm

LENGTH 310 mm	
REF #	Ø SIZE mm
KO-2639	1.0 mm
KO-2640	1.2 mm
KO-2641	1.4 mm
KO-2642	1.5 mm
KO-2643	1.6 mm
KO-2644	1.8 mm
KO-2645	2.0 mm
KO-2646	2.2 mm
KO-2647	2.5 mm



trocar point

Kirschner
Wire Drill

flat end

LENGTH 60 mm	
REF #	Ø SIZE mm
KO-2648	1.0 mm
KO-2649	1.2 mm
KO-2650	1.4 mm
KO-2651	1.5 mm
KO-2652	1.6 mm
KO-2653	1.8 mm
KO-2654	2.0 mm
KO-2655	2.2 mm

LENGTH 120 mm	
REF #	Ø SIZE mm
KO-2656	1.0 mm
KO-2657	1.2 mm
KO-2658	1.4 mm
KO-2659	1.5 mm
KO-2660	1.6 mm
KO-2661	1.8 mm
KO-2662	2.0 mm
KO-2663	2.2 mm

LENGTH 140 mm	
REF #	Ø SIZE mm
KO-2664	1.0 mm
KO-2665	1.2 mm
KO-2666	1.4 mm
KO-2667	1.5 mm
KO-2668	1.6 mm
KO-2669	1.8 mm
KO-2670	2.0 mm
KO-2671	2.2 mm

LENGTH 160 mm	
REF #	Ø SIZE mm
KO-2672	1.0 mm
KO-2673	1.2 mm
KO-2674	1.4 mm
KO-2675	1.5 mm
KO-2676	1.6 mm
KO-2677	1.8 mm
KO-2678	2.0 mm
KO-2679	2.2 mm
KO-2680	2.5 mm

LENGTH 310 mm	
REF #	Ø SIZE mm
KO-2681	1.0 mm
KO-2682	1.2 mm
KO-2683	1.4 mm
KO-2684	1.5 mm
KO-2685	1.6 mm
KO-2686	1.8 mm
KO-2687	2.0 mm
KO-2688	2.2 mm
KO-2689	2.5 mm



trocar point

Kirschner
Wire Drill

round end

LENGTH 310 mm	
REF #	Ø SIZE mm
KO-2690	1.0 mm
KO-2691	1.2 mm
KO-2692	1.4 mm
KO-2693	1.5 mm
KO-2694	1.6 mm
KO-2695	1.8 mm
KO-2696	2.0 mm
KO-2697	2.2 mm
KO-2698	2.5 mm

LENGTH 100 mm	
REF #	Ø SIZE mm
KO-2699	1.0 mm
KO-2700	1.2 mm
KO-2701	1.4 mm
KO-2702	1.5 mm
KO-2703	1.6 mm
KO-2704	1.8 mm
KO-2705	2.0 mm
KO-2706	2.2 mm
KO-2707	2.5 mm



lancet point

flat end

Kirschner
Wire Drill



lancet point

round end

Kirschner
Wire Drill



BONE SURGERY

BONE SURGERY

Skull Breaker, Chisel, Gouge,

oltten
Instruments

REF # SIZE cm SIZE in
KO-2708 18.0 cm 7"



Virchow
Skull Breaker

REF # SIZE mm
KO-2709 02.0 mm
KO-2710 03.0 mm
KO-2711 04.0 mm
chisel



Buckley
16 cm / 6 1/4"

REF # SIZE mm
KO-2712 02.0 mm
KO-2713 03.0 mm
KO-2714 04.0 mm
gouge



Buckley
16 cm / 6 1/4"

REF # SIZE mm
KO-2715 3.0 mm
KO-2716 4.0 mm
KO-2717 5.0 mm
bone chisel



Stout
21 cm / 8 1/4"

REF # SIZE mm
KO-2718 04.0 mm
bone chisel



Standard
18 cm / 7"

REF # SIZE mm
KO-2719 04.0 mm
bone chisel



Standard
18 cm / 7"

REF # SIZE mm
KO-2720 04.0 mm
bone chisel



Standard
17 cm / 6 3/4"

REF # SIZE mm
KO-2721 04.0 mm
bone chisel



Standard
17 cm / 7"

double side

REF # SIZE mm SHAPE
KO-2722 04.0 mm str
KO-2723 04.0 mm cvd left
KO-2724 04.0 mm cvd right
bone chisel



Standard
17 cm / 6 3/4"

triangular shape



BONE SURGERY

BONE SURGERY

Chisel, Gouge, Osteotome

Olten
Instruments



REF # SIZE mm
KO-2725 03.0 mm
KO-2726 05.0 mm
bone chisel

Snyder-O.S.U.
16.5 cm / 6½"



REF # SIZE mm
KO-2727 07.0 mm
bone chisel

O.S.U.
17 cm / 6¾"



REF # SIZE mm
KO-2728 09.0 mm
bone chisel

double side

O.S.U.
17 cm / 6¾"



REF # SIZE mm
KO-2729 08.0 mm
KO-2730 10.0 mm
KO-2731 12.0 mm
KO-2732 14.0 mm
KO-2733 16.0 mm
osteotome

Standard
13.5 cm / 5¼"



REF # SIZE mm
KO-2734 08.0 mm
KO-2735 10.0 mm
KO-2736 12.0 mm
KO-2737 14.0 mm
KO-2738 16.0 mm
chisel

Standard
13.5 cm / 5¼"



REF # SIZE mm
KO-2739 08.0 mm
KO-2740 10.0 mm
KO-2741 12.0 mm
KO-2742 14.0 mm
KO-2743 16.0 mm
gouge

Standard
13.5 cm / 5¼"



REF # SIZE mm
KO-2744 02.0 mm
KO-2745 03.0 mm
KO-2746 04.0 mm
KO-2747 05.0 mm
KO-2748 06.0 mm
chisel
13.5 cm / 5¼"

Partsch

REF # SIZE mm
KO-2749 02.0 mm
KO-2750 03.0 mm
KO-2751 04.0 mm
KO-2752 05.0 mm
KO-2753 06.0 mm
chisel
17.5 cm / 6¾"



REF # SIZE mm
KO-2754 02.0 mm
KO-2755 03.0 mm
KO-2756 04.0 mm
KO-2757 05.0 mm
KO-2758 06.0 mm
gouge
13.5 cm / 5¼"

Partsch

REF # SIZE mm
KO-2759 02.0 mm
KO-2760 03.0 mm
KO-2761 04.0 mm
KO-2762 05.0 mm
KO-2763 06.0 mm
gouge
17.5 cm / 6¾"



REF # SIZE mm
KO-2764 04.0 mm
KO-2765 06.0 mm
KO-2766 08.0 mm
KO-2767 10.0 mm
KO-2768 12.0 mm
KO-2769 14.0 mm
chisel

Alexander
17.5 cm / 7"



BONE SURGERY

BONE SURGERY

Chisel, Gouge, Osteotome, Spongiosa Gouge

Olten
Instruments



Alexander
17.5 cm / 7"

REF #	SIZE mm
KO-2770	04.0 mm
KO-2771	06.0 mm
KO-2772	08.0 mm
KO-2773	10.0 mm
KO-2774	12.0 mm
KO-2775	14.0 mm

gouge



Stille
20.0 cm / 8"

REF #	SIZE mm
KO-2776	10.0 mm
KO-2777	15.0 mm
KO-2778	20.0 mm
KO-2779	25.0 mm

chisel



Stille
20.0 cm / 8"

REF #	SIZE mm
KO-2780	10.0 mm
KO-2781	15.0 mm
KO-2782	20.0 mm
KO-2783	25.0 mm

osteotome



Stille
20.0 cm / 8"

REF #	SIZE mm
KO-2784	10.0 mm
KO-2785	15.0 mm
KO-2786	20.0 mm
KO-2787	25.0 mm

gouge



Standard
13.5 cm / 5 1/4"

REF #	SIZE mm	SHAPE
KO-2788	25.0 mm	r = 50 mm
KO-2789	25.0 mm	r = 60 mm
KO-2790	25.0 mm	r = 70 mm

gouge blade

REF #	SIZE mm
KO-2791	05.0 mm
KO-2792	10.0 mm
KO-2793	16.0 mm
KO-2794	25.0 mm

chisel

REF #	SIZE mm
KO-2795	05.0 mm
KO-2796	10.0 mm
KO-2797	16.0 mm
KO-2798	25.0 mm

osteotome



Standard
Handle (only)

REF #	SIZE cm	SIZE in
KO-2799	18.5 cm	7 1/4"



Standard
Key (only)

REF #	SIZE cm	SIZE in
KO-2800	09.0 cm	3 1/2"



Lexer
25.0 cm / 10"

REF #	SIZE mm
KO-2801	05.0 mm
KO-2802	10.0 mm
KO-2803	15.0 mm

spongiosa
gouge

Str

wood handle



Lexer
25.0 cm / 10"

REF #	SIZE mm
KO-2804	05.0 mm
KO-2805	10.0 mm
KO-2806	15.0 mm

spongiosa
gouge

Cvd

wood handle



BONE SURGERY

BONE SURGERY

Chisel, Gouge, Osteotome,

Olten
Instruments



REF #	SIZE mm
KO-2807	04.0 mm
KO-2808	06.0 mm
KO-2809	08.0 mm
KO-2810	10.0 mm
KO-2811	12.0 mm

chisel

wood handle

Lexer, Mini
18.5 cm / 7¼"



REF #	SIZE mm
KO-2812	04.0 mm
KO-2813	06.0 mm
KO-2814	08.0 mm
KO-2815	10.0 mm
KO-2816	12.0 mm

gouge

wood handle

Lexer, Mini
18.5 cm / 7¼"



REF #	SIZE mm
KO-2817	07.0 mm
KO-2818	10.0 mm
KO-2819	15.0 mm
KO-2820	20.0 mm
KO-2821	25.0 mm
KO-2822	30.0 mm

osteotome

wood handle

Lexer
22.0 cm / 8¾"



REF #	SIZE mm
KO-2823	07.0 mm
KO-2824	10.0 mm
KO-2825	15.0 mm
KO-2826	20.0 mm
KO-2827	25.0 mm
KO-2828	30.0 mm

gouge

wood handle

Lexer
22.0 cm / 8¾"



REF #	SIZE mm	SHAPE
KO-2829	03.0 mm	Str
KO-2830	04.0 mm	Str
KO-2831	06.0 mm	Str
KO-2832	08.0 mm	Str
KO-2833	10.0 mm	Str
KO-2834	12.0 mm	Str
KO-2835	15.0 mm	Str

Lambotte, Mini
18.0 cm / 7"



REF #	SIZE mm	SHAPE
KO-2836	03.0 mm	Cvd
KO-2837	04.0 mm	Cvd
KO-2838	06.0 mm	Cvd
KO-2839	08.0 mm	Cvd
KO-2840	10.0 mm	Cvd
KO-2841	12.0 mm	Cvd
KO-2842	15.0 mm	Cvd

Lambotte, Mini
18.0 cm / 7"



REF #	SIZE mm	SHAPE
KO-2843	06.0 mm	Str
KO-2844	08.0 mm	Str
KO-2845	10.0 mm	Str
KO-2846	12.0 mm	Str
KO-2847	15.0 mm	Str
KO-2848	20.0 mm	Str
KO-2849	25.0 mm	Str
KO-2850	30.0 mm	Str
KO-2851	38.0 mm	Str
KO-2852	44.0 mm	Str
KO-2853	50.0 mm	Str

osteotome

Lambotte
23.0 cm / 9"



REF #	SIZE mm	SHAPE
KO-2854	06.0 mm	Cvd
KO-2855	08.0 mm	Cvd
KO-2856	10.0 mm	Cvd
KO-2857	12.0 mm	Cvd
KO-2858	15.0 mm	Cvd
KO-2859	20.0 mm	Cvd
KO-2860	25.0 mm	Cvd
KO-2861	30.0 mm	Cvd
KO-2862	38.0 mm	Cvd
KO-2863	44.0 mm	Cvd
KO-2864	50.0 mm	Cvd

osteotome

Lambotte
23.0 cm / 9"



REF #	SIZE mm	SHAPE
KO-2865	06.0 mm	Str
KO-2866	09.0 mm	Str
KO-2867	13.0 mm	Str
KO-2868	16.0 mm	Str
KO-2869	19.0 mm	Str
KO-2870	25.0 mm	Str
KO-2871	32.0 mm	Str

osteotome

Smith-Petersen
20.5 cm / 8"



BONE SURGERY
BONE SURGERY
Chisel, Gouge, Osteotome

Olten
Instruments



REF #	SIZE mm	SHAPE
KO-2872	06.0 mm	Cvd
KO-2873	09.0 mm	Cvd
KO-2874	13.0 mm	Cvd
KO-2875	16.0 mm	Cvd
KO-2876	19.0 mm	Cvd
KO-2877	25.0 mm	Cvd
KO-2878	32.0 mm	Cvd

osteotome

Smith-Petersen
20.5 cm / 8"



REF #	SIZE mm	SHAPE
KO-2879	09.0 mm	Str
KO-2880	14.0 mm	Str
KO-2881	19.0 mm	Str
KO-2882	25.0 mm	Str

gouge

Smith-Petersen
20.5 cm / 8"



REF #	SIZE mm	SHAPE
KO-2883	09.0 mm	Cvd
KO-2884	14.0 mm	Cvd
KO-2885	19.0 mm	Cvd
KO-2886	25.0 mm	Cvd

gouge

Smith-Petersen
20.5 cm / 8"



REF #	SIZE mm
KO-2887	03.0 mm
KO-2888	05.0 mm
KO-2889	06.0 mm
KO-2890	08.0 mm
KO-2891	09.0 mm

osteotome

Hoke
17.0 cm / 6¾"



REF #	SIZE mm
KO-2892	06.0 mm
KO-2893	13.0 mm
KO-2894	19.0 mm
KO-2895	25.0 mm
KO-2896	32.0 mm

osteotome

Hibbs
24.5 cm / 9¾"



REF #	SIZE mm
KO-2897	06.0 mm
KO-2898	13.0 mm
KO-2899	19.0 mm
KO-2900	25.0 mm
KO-2901	32.0 mm

chisel
Str

Hibbs
24.5 cm / 9¾"



REF #	SIZE mm
KO-2902	06.0 mm
KO-2903	13.0 mm
KO-2904	19.0 mm
KO-2905	25.0 mm
KO-2906	32.0 mm

osteotome
Cvd

Hibbs
24.5 cm / 9¾"



REF #	SIZE mm
KO-2907	06.0 mm
KO-2908	13.0 mm
KO-2909	19.0 mm
KO-2910	25.0 mm
KO-2911	32.0 mm

gouge

Hibbs
24.5 cm / 9¾"



REF #	SIZE mm
KO-2912	06.0 mm
KO-2913	13.0 mm
KO-2914	19.0 mm
KO-2915	25.0 mm
KO-2916	32.0 mm

gouge

Hibbs
24.5 cm / 9¾"



BONE SURGERY

BONE SURGERY

Bone Rasp, Bone Biopsy Instrument, Spongiosa Gouge,
Cancellous Bonegraft Mill

Olten
Instruments



REF #	SIZE cm	SIZE in
KO-2917	30.0 cm	11 3/4"

semi round

semi round

Putti
Bone Rasp



REF #	SIZE cm	SIZE in
KO-2919	27.0 cm	10 3/4"

Putti
Bone Rasp



REF #	SIZE cm	SIZE in
KO-2921	18.5 cm	7"

Vickers
Spongiosa Gouge



Champany-OSU
Bone Biopsy Instrument

REF #	SIZE cm	SIZE in
KO-2918	22.0 cm	8 3/4"



Champany
Bone Biopsy Instrument

REF #	SIZE cm	SIZE in
KO-2920	22.0 cm	8 3/4"



Champany
Cancellous Bonegraft Mill

REF #	SIZE cm	SIZE in
KO-2922	22.5 cm	8 3/4"



BONE SURGERY

BONE SURGERY
Tamper, Mallet

Olten
Instruments



Standard
Tamper

REF #	SIZE cm	SIZE in	SHAPE
KO-2923	15.5 cm	6"	Ø 2.0 mm
KO-2924	15.5 cm	6"	Ø 3.0 mm
KO-2925	15.5 cm	6"	Ø 4.0 mm
KO-2926	15.5 cm	6"	Ø 5.0 mm
KO-2927	15.5 cm	6"	Ø 6.0 mm
KO-2928	15.5 cm	6"	Ø 8.0 mm
KO-2929	15.5 cm	6"	Ø 10.0 mm



Williger
Mallet

REF #	SIZE cm	SIZE in	SHAPE
KO-2930	24.0 cm	9½"	Fig.1
KO-2931	24.0 cm	9½"	Fig.2
KO-2932	24.0 cm	9½"	Fig.3

Fig.1
Ø 26 mm
300 g

Fig.2
Ø 28 mm
340 g

Fig.3
Ø 30 mm
400 g



Doyen
Mallet

REF #	SIZE cm	SIZE in	SHAPE
KO-2933	20.5 cm	8"	Fig.1
KO-2934	20.5 cm	8"	Fig.2
KO-2935	20.5 cm	8"	Fig.3

Fig.1
Ø 25 mm
120 g

Fig.2
Ø 30 mm
180 g

Fig.3
Ø 35 mm
260 g



Collin
Mallet

REF #	SIZE cm	SIZE in	SHAPE
KO-2936	20.0 cm	8"	Fig.1

Fig.1
Ø 30 mm
200 g



Lucae
Mallet

REF #	SIZE cm	SIZE in	SHAPE
KO-2937	19.5 cm	7¾"	Fig.1
KO-2938	19.5 cm	7¾"	Fig.2

Fig.1
Ø 19 mm
230 g

Fig.2
Ø 25 mm
260 g



Cottle
Mallet

REF #	SIZE cm	SIZE in	SHAPE
KO-2939	19.0 cm	7½"	Fig.1

Fig.1
Ø 30 mm
300 g
plane / convex



Williger
Mallet

REF #	SIZE cm	SIZE in	SHAPE
KO-2940	16.5 cm	6½"	Fig.1

Fig.1
Ø 20 mm
140 g



Standard
Mallet

REF #	SIZE cm	SIZE in	SHAPE
KO-2941	26.0 cm	10¼"	Fig.1

Fig.1
Ø 30 mm
510 g



Mead
Mallet

REF #	SIZE cm	SIZE in	SHAPE
KO-2942	19.0 cm	7½"	Fig.1

Fig.1
Ø 27 mm
320 g



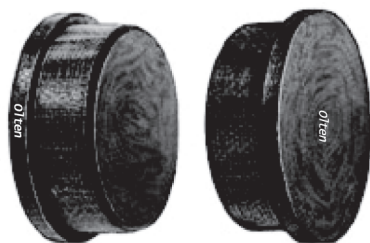
BONE SURGERY

BONE SURGERY

Mallet, Spare Facing Discs

Olten
Instruments

spare facings
pair



Standard
KO-2943
Spare Facings



Partsch
Mallet

REF #	SIZE cm	SIZE in	SHAPE
KO-2944	24.0 cm	9½"	Fig.1

Fig.1
Ø 22 mm
200 g



Standard
Mallet

REF #	SIZE cm	SIZE in	SHAPE
KO-2945	26.0 cm	10¼"	Fig.1
KO-2946	26.0 cm	10¼"	Fig.2

Fig.1
Ø 42 mm
400 g
lead filled
Fig.2
Ø 42 mm
250 g
without lead



Standard
Mallet

REF #	SIZE cm	SIZE in	SHAPE
KO-2947	26.0 cm	10¼"	Fig.1

Fig.1
Ø 42 mm
400 g
lead filled



Standard
Mallet

REF #	SIZE cm	SIZE in	SHAPE
KO-2948	26.5 cm	10½"	Fig.1

Fig.1
Ø 30 mm
675 g
plane (nylon) / convex (stell)



Standard
Mallet

REF #	SIZE cm	SIZE in	SHAPE
KO-2949	26.0 cm	10¼"	Fig.1

Fig.1
Ø 42 / 30 mm
530 g



Standard
Mallet

REF #	SIZE cm	SIZE in	SHAPE
KO-2950	24.0 cm	9½"	Fig.1

Fig.1
Ø 30 mm
480 g

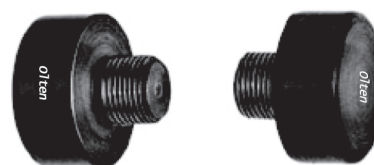


Standard
Mallet

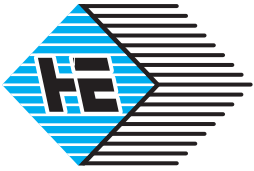
REF #	SIZE cm	SIZE in	SHAPE
KO-2951	24.0 cm	9½"	Fig.1

Fig.1
Ø 37 mm
370 g

Spare Facings
pair



Standard
KO-2952
Spare Facings



BONE SURGERY
BONE SURGERY
Mallet, Spare Facing Disc

oltten
Instruments



REF #	SIZE cm	SIZE in	SHAPE
KO-2953	22.0 cm	8 3/4"	Fig.1

Fig.1
Ø 30 mm
125 g

Standard
Mallet



REF #	SIZE cm	SIZE in	SHAPE
KO-2954	26.5 cm	10 1/2"	Fig.1

Fig.1
Ø 30 mm
450 g

Standard
Mallet



REF #	SIZE cm	SIZE in	SHAPE
KO-2955	19.0 cm	7 1/2"	Fig.1

Fig.1
Ø 25 mm
300 g

Vickers
Mallet



REF #	SIZE cm	SIZE in	SHAPE
KO-2956	26.5 cm	10 1/2"	Fig.1

Fig.1
Ø 50 mm
900 g

Standard
Mallet



REF #	SIZE cm	SIZE in	SHAPE
KO-2957	19.0 cm	7 1/2"	Fig.1

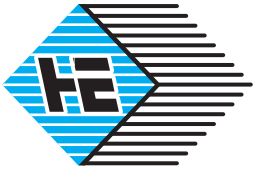
Fig.1
for ulnar head
prosthesis
plastic handle

Herbert
Mallet

REF #
KO-2958
Spare Facings
pair



Vickers
Spare Facings

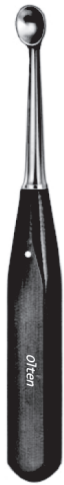


BONE SURGERY

BONE SURGERY

Bone Curette

oltten
Instruments



Volkman
Bone Curette

REF #	SIZE cm	SIZE in	SHAPE
KO-2959	18.5 cm	7 1/4"	Fig.0000
KO-2960	18.5 cm	7 1/4"	Fig.000
KO-2961	18.5 cm	7 1/4"	Fig.00
KO-2962	18.5 cm	7 1/4"	Fig.0
KO-2963	18.5 cm	7 1/4"	Fig.1
KO-2964	18.5 cm	7 1/4"	Fig.2
KO-2965	18.5 cm	7 1/4"	Fig.3
KO-2966	18.5 cm	7 1/4"	Fig.4
KO-2967	18.5 cm	7 1/4"	Fig.5
KO-2968	18.5 cm	7 1/4"	Fig.6

oval shape
Fiber Handle



Volkman
Bone Curette

REF #	SIZE cm	SIZE in	SHAPE
KO-2969	27.5 cm	10 3/4"	Fig.0
KO-2970	27.5 cm	10 3/4"	Fig.1
KO-2971	27.5 cm	10 3/4"	Fig.2
KO-2972	27.5 cm	10 3/4"	Fig.3
KO-2973	27.5 cm	10 3/4"	Fig.4

oval shape
Fiber Handle



Schede
Bone Curette

REF #	SIZE cm	SIZE in	SHAPE
KO-2974	17.0 cm	6 3/4"	Fig.000
KO-2975	17.0 cm	6 3/4"	Fig.00
KO-2976	17.0 cm	6 3/4"	Fig.0
KO-2977	17.0 cm	6 3/4"	Fig.1
KO-2978	17.0 cm	6 3/4"	Fig.2
KO-2979	17.0 cm	6 3/4"	Fig.3
KO-2980	17.0 cm	6 3/4"	Fig.4

oval shape



Volkman
Bone Curette

REF #	SIZE cm	SIZE in	SHAPE
KO-2981	17.0 cm	6 3/4"	Fig.0000
KO-2982	17.0 cm	6 3/4"	Fig.000
KO-2983	17.0 cm	6 3/4"	Fig.00
KO-2984	17.0 cm	6 3/4"	Fig.0
KO-2985	17.0 cm	6 3/4"	Fig.1
KO-2986	17.0 cm	6 3/4"	Fig.2
KO-2987	17.0 cm	6 3/4"	Fig.3
KO-2988	17.0 cm	6 3/4"	Fig.4
KO-2989	17.0 cm	6 3/4"	Fig.5
KO-2990	17.0 cm	6 3/4"	Fig.6

oval shape



Bruns
Bone Curette

REF #	SIZE cm	SIZE in	SHAPE
KO-2991	17.0 cm	6 3/4"	Fig.0000
KO-2992	17.0 cm	6 3/4"	Fig.000
KO-2993	17.0 cm	6 3/4"	Fig.00
KO-2994	17.0 cm	6 3/4"	Fig.0
KO-2995	17.0 cm	6 3/4"	Fig.1
KO-2996	17.0 cm	6 3/4"	Fig.2
KO-2997	17.0 cm	6 3/4"	Fig.3
KO-2998	17.0 cm	6 3/4"	Fig.4
KO-2999	17.0 cm	6 3/4"	Fig.5
KO-3000	17.0 cm	6 3/4"	Fig.6

round shape



Spratt
Bone Curette

REF #	SIZE cm	SIZE in	SHAPE
KO-3001	17.0 cm	6 3/4"	Fig.0000
KO-3002	17.0 cm	6 3/4"	Fig.000
KO-3003	17.0 cm	6 3/4"	Fig.00
KO-3004	17.0 cm	6 3/4"	Fig.0
KO-3005	17.0 cm	6 3/4"	Fig.1
KO-3006	17.0 cm	6 3/4"	Fig.2
KO-3007	17.0 cm	6 3/4"	Fig.3
KO-3008	17.0 cm	6 3/4"	Fig.4
KO-3009	17.0 cm	6 3/4"	Fig.5

oval shape



Bruns
Bone Curette

REF #	SIZE cm	SIZE in	SHAPE
KO-3010	23.0 cm	9"	Fig.0000
KO-3011	23.0 cm	9"	Fig.000
KO-3012	23.0 cm	9"	Fig.00
KO-3013	23.0 cm	9"	Fig.0
KO-3014	23.0 cm	9"	Fig.1
KO-3015	23.0 cm	9"	Fig.2
KO-3016	23.0 cm	9"	Fig.3
KO-3017	23.0 cm	9"	Fig.4
KO-3018	23.0 cm	9"	Fig.5

oval shape



Scoville
Bone Curette

REF #	SIZE cm	SIZE in	SHAPE
KO-3019	25.0 cm	9 3/4"	Fig. 1
KO-3020	25.0 cm	9 3/4"	Fig. 2
KO-3021	25.0 cm	9 3/4"	Fig. 3

Fig.1
straight

Fig.2
curved downwards

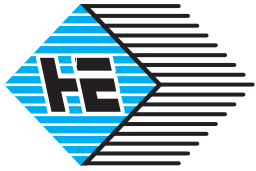
Fig.3
curved upwards



Simon
Bone Curette

REF #	SIZE cm	SIZE in	SHAPE
KO-3022	25.0 cm	9 3/4"	Fig.1
KO-3023	25.0 cm	9 3/4"	Fig.2
KO-3024	25.0 cm	9 3/4"	Fig.3
KO-3025	25.0 cm	9 3/4"	Fig.4
KO-3026	25.0 cm	9 3/4"	Fig.5
KO-3027	25.0 cm	9 3/4"	Fig.6

oval shape



BONE SURGERY

BONE SURGERY Bone Curette

Olten
Instruments



Modell USA
Bone Curette

REF #	SIZE cm	SIZE in	SHAPE
KO-3028	16.0 cm	6 1/4"	Fig.1
KO-3029	16.0 cm	6 1/4"	Fig.2
KO-3030	16.0 cm	6 1/4"	Fig.3
KO-3031	16.0 cm	6 1/4"	Fig.4
KO-3032	16.0 cm	6 1/4"	Fig.5
KO-3033	16.0 cm	6 1/4"	Fig.6

oval shape



Modell USA
Bone Curette

REF #	SIZE cm	SIZE in	SHAPE
KO-3034	16.0 cm	6 1/4"	Fig.1
KO-3035	16.0 cm	6 1/4"	Fig.2
KO-3036	16.0 cm	6 1/4"	Fig.3
KO-3037	16.0 cm	6 1/4"	Fig.4
KO-3038	16.0 cm	6 1/4"	Fig.5
KO-3039	16.0 cm	6 1/4"	Fig.6

oval shape



Modell USA
Bone Curette

REF #	SIZE cm	SIZE in	SHAPE
KO-3040	16.0 cm	6 1/4"	Fig.1
KO-3041	16.0 cm	6 1/4"	Fig.2
KO-3042	16.0 cm	6 1/4"	Fig.3
KO-3043	16.0 cm	6 1/4"	Fig.4
KO-3044	16.0 cm	6 1/4"	Fig.5
KO-3045	16.0 cm	6 1/4"	Fig.6

oval shape



Halle
Bone Curette

REF #	SIZE cm	SIZE in	SHAPE
KO-3046	21.0 cm	8 1/4"	Fig.1
KO-3047	21.0 cm	8 1/4"	Fig.2
KO-3048	21.0 cm	8 1/4"	Fig.3

oval shape
malleable shaft



Volkman
Bone Curette (double-ended)

REF #	SIZE cm	SIZE in
KO-3049	12.5 cm	5"
KO-3050	14.5 cm	5 3/4"
KO-3051	17.0 cm	6 3/4"



Volkman
Bone Curette (double-ended)

REF #	SIZE cm	SIZE in
KO-3052	13.0 cm	5"
KO-3053	16.0 cm	6 1/4"
KO-3054	20.0 cm	8"

round / oval



Standard
Bone Curette (double-ended)

REF #	SIZE cm	SIZE in
KO-3055	21.0 cm	8 1/4"

round / oval



Williger
Bone Curette (double-ended)

REF #	SIZE cm	SIZE in	SHAPE
KO-3056	13.5 cm	5 1/4"	Fig.1
KO-3057	13.5 cm	5 1/4"	Fig.2
KO-3058	13.5 cm	5 1/4"	Fig.3

Fig.1
00 / 0
oval shape

Fig.2
0 / 1
oval shape

Fig.3
1 / 2
oval shape



Standard
Bone Curette (double-ended)

REF #	SIZE cm	SIZE in	SHAPE
KO-3059	17.0 cm	6 3/4"	Fig.1
KO-3060	17.0 cm	6 3/4"	Fig.2
KO-3061	17.0 cm	6 3/4"	Fig.3

Fig.1
00 / 00
oval shape

Fig.2
0 / 0
oval shape

Fig.3
1 / 1
oval shape



BONE SURGERY

BONE SURGERY

Bone Curette, Periosteal Elevator

Oiten
Instruments



REF #	SIZE cm	SIZE in	SHAPE
KO-3062	18.5 cm	7 1/4"	Fig.1
KO-3063	18.5 cm	7 1/4"	Fig.2
KO-3064	18.5 cm	7 1/4"	Fig.3

Fig.1
1 R / L

Fig.2
2 R / L

Fig.3
3 R / L

Hemingway
Bone Curette (double-ended)



REF #	SIZE cm	SIZE in	SHAPE
KO-3065	18.0 cm	7"	Fig.1
KO-3066	18.0 cm	7"	Fig.2
KO-3067	18.0 cm	7"	Fig.3

Fig.1
1 R / L

Fig.2
2 R / L

Fig.3
3 R / L

Hemingway
Bone Curette (double-ended)



REF #	SIZE cm	SIZE in	SHAPE
KO-3068	18.5 cm	7 1/4"	Fig.1
KO-3069	18.5 cm	7 1/4"	Fig.2
KO-3070	18.5 cm	7 1/4"	Fig.3

Fig.1
00 / 00

Fig.2
0 / 0

Fig.3
1 / 1

Hemingway
Bone Curette (double-ended)



REF #	SIZE cm	SIZE in
KO-3071	18.0 cm	7"

Standard
Bone Curette (double-ended)



REF #	SIZE cm	SIZE in	SHAPE
KO-3072	18.0 cm	7"	Fig.1
KO-3073	18.0 cm	7"	Fig.2
KO-3074	18.0 cm	7"	Fig.3
KO-3075	18.0 cm	7"	Fig.4

Fig.1
1 R / L

Fig.2
2 R / L

Fig.3
3 R / L

Fig.4
4 R / L

Lucas
Bone Curette (double-ended)



REF #	SIZE cm	SIZE in	SHAPE
KO-3076	17.0 cm	6 3/4"	Fig.1
KO-3077	17.0 cm	6 3/4"	Fig.2
KO-3078	17.0 cm	6 3/4"	Fig.3
KO-3079	17.0 cm	6 3/4"	Fig.4

Miller-Colburn
Bone Curette (double-ended)



REF #	SIZE cm	SIZE in	SHAPE
KO-3080	17.0 cm	6 3/4"	Fig.1
KO-3081	17.0 cm	6 3/4"	Fig.2
KO-3082	17.0 cm	6 3/4"	Fig.3
KO-3083	18.0 cm	7"	Fig.4
KO-3084	18.0 cm	7"	Fig.5
KO-3085	19.0 cm	7 1/2"	Fig.6

Fig.6
round handle
double ended

Molt
Bone Curette



REF #	SIZE cm	SIZE in	SHAPE
KO-3086	19.0 cm	7 1/2"	Fig.1
KO-3087	19.0 cm	7 1/2"	Fig.2
KO-3088	18.5 cm	7 1/4"	Fig.3
KO-3089	18.0 cm	7"	Fig.4

Fig.1
16 mm
round edge

Fig.2
16 mm
flat edge

Fig.3
12 mm
angled 75

Fig.4
12 mm
angled 90

Langenbeck
Periosteal Elevator



REF #	SIZE cm	SIZE in	SHAPE
KO-3090	16.0 cm	6 1/4"	7 mm
KO-3091	18.5 cm	7 1/4"	15 mm
KO-3092	19.0 cm	7 1/2"	20 mm

Langenbeck
Periosteal Elevator



BONE SURGERY
BONE SURGERY
Periosteal Elevator

Olten
Instruments



REF #	SIZE cm	SIZE in	SHAPE
KO-3093	17.5 cm	7"	4 mm
KO-3094	17.5 cm	7"	5 mm
KO-3095	19.5 cm	7¾"	6 mm
KO-3096	19.5 cm	7¾"	7 mm

Langenbeck
Periosteal Elevator



REF #	SIZE cm	SIZE in
KO-3097	18.5 cm	7¼"

Langenbeck
Periosteal Elevator



REF #	SIZE cm	SIZE in
KO-3098	19.5 cm	7¾"

Langenbeck
Periosteal Elevator



REF #	SIZE cm	SIZE in	SHAPE
KO-3099	16.0 cm	6¼"	5 mm
KO-3100	16.0 cm	6¼"	6 mm
KO-3101	16.0 cm	6¼"	7 mm

delicate

Standard
Periosteal Elevator



REF #	SIZE cm	SIZE in	SHAPE
KO-3102	15.0 cm	6"	12.5 mm

Farabeuf
Periosteal Elevator



REF #	SIZE cm	SIZE in	SHAPE
KO-3103	15.0 cm	6"	12.5 mm

Farabeuf
Periosteal Elevator



REF #	SIZE cm	SIZE in	SHAPE
KO-3104	22.0 cm	8¾"	15 mm

Sedillot
Periosteal Elevator



REF #	SIZE cm	SIZE in	SHAPE
KO-3105	19.0 cm	7½"	14 mm

Standard
Periosteal Elevator



REF #	SIZE cm	SIZE in	SHAPE
KO-3106	19.0 cm	7½"	14 mm

Standard
Periosteal Elevator



BONE SURGERY
BONE SURGERY
Periosteal Elevator, Rib Raspatory

Olten
Instruments



REF # SIZE cm SIZE in SHAPE
KO-3107 18.0 cm 7" 6 mm

Standard
Periosteal Elevator



REF # SIZE cm SIZE in SHAPE
KO-3108 18.0 cm 7" 6 mm

Standard
Periosteal Elevator



REF # SIZE cm SIZE in SHAPE
KO-3109 12.5 cm 5" 5 mm

Williger
Periosteal Elevator



REF # SIZE cm SIZE in SHAPE
KO-3110 18.0 cm 7" 3 mm

Standard
Periosteal Elevator



REF # SIZE cm SIZE in SHAPE
KO-3111 17.0 cm 6¾" Fig.1
KO-3112 17.0 cm 6¾" Fig.2
KO-3113 16.0 cm 6¾" Fig.3
KO-3114 16.0 cm 6¾" Fig.4

Fig.1
long curved
4 mm

Fig.2
long curved
5 mm

Fig.3
slightly curved
7 mm

Fig.4
slightly curved
5 mm

Kahre-Williger
Periosteal Elevator



REF # SIZE cm SIZE in SHAPE
KO-3115 20.0 cm 8" 19 mm

Standard
Periosteal Elevator



REF # SIZE cm SIZE in SHAPE
KO-3116 17.0 cm 6¾" 6 mm
KO-3117 17.0 cm 6¾" 8 mm

Standard
Periosteal Elevator



REF # SIZE cm SIZE in SHAPE
KO-3118 17.5 cm 7" Fig.1
KO-3119 11.5 cm 4" Fig.2
KO-3120 13.0 cm 5" Fig.3
KO-3121 14.5 cm 5¾" Fig.4

Fig.1
right curved
for adults

Fig.2
left curved
for adults

Fig.3
right curved
for children

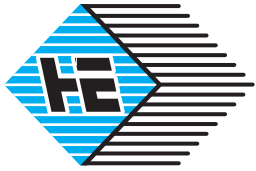
Fig.4
left curved
for children

Doyen
Rib Raspatory



REF # SIZE cm SIZE in
KO-3122 18.5 cm 7¼"

Standard
Periosteal Elevator (double-ended)



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BONE SURGERY

Periosteal Elevator, Bone File, Elevator

Oiten
Instruments



REF # SIZE cm SIZE in
KO-3123 18.0 cm 7"

Standard
Periosteal Elevator (double-ended)



Semb
Periosteal Elevator



Fig.1
12 mm



Fig.2
12 mm



Fig.3
13 mm



Fig.4
13 mm



Fig.5
15 mm

REF # SIZE cm SIZE in SHAPE
KO-3124 18.5 cm 7 1/4" Fig.1
KO-3125 21.5 cm 8 1/2" Fig.2
KO-3126 18.0 cm 7 1/4" Fig.3
KO-3127 21.5 cm 8 1/2" Fig.4
KO-3128 21.0 cm 8 1/4" Fig.5



Lambotte
Periosteal Elevator

REF # SIZE cm SIZE in SHAPE
KO-3129 21.5 cm 8 1/2" 10 mm
KO-3130 21.5 cm 8 1/2" 15 mm
KO-3131 21.5 cm 8 1/2" 20 mm
KO-3132 21.5 cm 8 1/2" 25 mm



Standard
Bone File

REF # SIZE cm SIZE in SHAPE
KO-3133 28.0 cm 11" 20 mm

semi round



Standard
Bone File

REF # SIZE cm SIZE in SHAPE
KO-3134 24.5 cm 9 3/4" 13 mm

semi round



Standard
Bone File

REF # SIZE cm SIZE in SHAPE
KO-3135 22.0 cm 8 3/4" 20 mm



Adson
Elevator

REF # SIZE cm SIZE in SHAPE
KO-3136 17.0 cm 6 3/4" Fig.1
KO-3137 17.0 cm 6 3/4" Fig.2
KO-3138 17.0 cm 6 3/4" Fig.3
KO-3139 17.0 cm 6 3/4" Fig.4

Fig.1
flat edge
straight

Fig.2
round edge
curved

Fig.3
round edge
straight
semi sharp

Fig.4
round edge
curved
semi sharp



Miller-Colburn
Bone File

REF # SIZE cm SIZE in
KO-3140 18.0 cm 7"

downwards cutting



BONE SURGERY
BONE SURGERY
Bone File, Alveotomy File, Elevator

Olten
Instruments



REF # SIZE cm SIZE in
KO-3141 18.0 cm 7"

cross cut

Miller-Colburn
Bone File



REF # SIZE cm SIZE in
KO-3142 19.0 cm 7½"

downwards cut

**Tungsten Carbide
Inserted (TC)**

Miller
Alveotomy File



REF # SIZE cm SIZE in
KO-3143 19.0 cm 7½"

cross cut

**Tungsten Carbide
Inserted (TC)**

Miller
Alveotomy File



REF #	SIZE cm	SIZE in	SHAPE
KO-3144	19.5 cm	7¾"	8 mm
KO-3145	19.5 cm	7¾"	10 mm

Langenbeck
Elevator



REF #	SIZE cm	SIZE in	SHAPE
KO-3146	17.0 cm	6¾"	5 mm
KO-3147	17.0 cm	6¾"	7 mm
KO-3148	20.0 cm	8"	8 mm
KO-3149	20.0 cm	8"	10 mm

Langenbeck
Elevator



REF # SIZE cm SIZE in
KO-3150 17.0 cm 6¾"

Vickers
Dissector



REF # SIZE cm SIZE in SHAPE
KO-3151 17.0 cm 6¾" 7 mm

Williger
Elevator



REF # SIZE cm SIZE in SHAPE
KO-3152 16.0 cm 6¼" 5.5 mm

Williger
Elevator



BONE SURGERY

BONE SURGERY

Elevator, Micro Elevator, Phalangeal Elevator, Dissector,
Bone Lever

Olten
Instruments



REF #	SIZE cm	SIZE in
KO-3153	17.0 cm	6¾"

extremely lightweight

Standard
Elevator



REF #	SIZE cm	SIZE in
KO-3154	16.0 cm	6¼"

Standard
Micro Elevator



REF #	SIZE cm	SIZE in
KO-3155	16.0 cm	6¼"

Standard
Phalangeal Elevator



REF #	SIZE cm	SIZE in
KO-3156	21.0 cm	8¼"

Alderdyce
Dissector (double-ended)



REF #	SIZE cm	SIZE in
KO-3157	18.5 cm	7¼"

McDonald
Dissector (double-ended)



REF #	SIZE cm	SIZE in
KO-3158	16.0 cm	6¼"

Standard
Bone Lever



REF #	SIZE cm	SIZE in	SHAPE
KO-3159	16.0 cm	6¼"	6 mm
KO-3160	16.0 cm	6¼"	8 mm

Hohmann, mini
Bone Lever



REF #	SIZE cm	SIZE in	SHAPE
KO-3161	22.0 cm	8¾"	8 mm

narrow tip

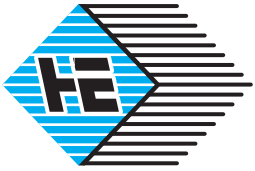
Hohmann
Bone Lever



REF #	SIZE cm	SIZE in	SHAPE
KO-3162	23.5 cm	9¼"	18 mm

narrow tip

Hohman
Bone Lever



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Bone Lever, Knee Retractor

Olten
Instruments



REF # SIZE cm SIZE in SHAPE
KO-3163 23.5 cm 9 3/4" 43 mm

narrow tip

Hohmann
Bone Lever



REF # SIZE cm SIZE in SHAPE
KO-3164 25.0 cm 9 3/4" 70 mm

narrow tip

Hohmann
Bone Lever



REF # SIZE cm SIZE in SHAPE
KO-3165 23.5 cm 9 3/4" 43 mm

narrow tip

Hohmann
Bone Lever



REF # SIZE cm SIZE in SHAPE
KO-3166 25.5 cm 10" 22 mm

wide tip

Hohmann
Bone Lever



REF # SIZE cm SIZE in SHAPE
KO-3167 29.0 cm 11 1/2" 35 mm

wide tip

Hohmann
Bone Lever



REF # SIZE cm SIZE in SHAPE
KO-3168 27.5 cm 10 3/4" 24 mm

wide round tip

Hohmann
Bone Lever



REF # SIZE cm SIZE in SHAPE
KO-3169 25.0 cm 9 3/4" 22 mm

wide tip with groove

Hohmann
Bone Lever



REF # SIZE cm SIZE in SHAPE
KO-3170 24.0 cm 9 1/2" 45 mm
KO-3171 23.5 cm 9 1/4" 65 mm

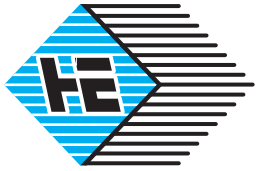
Bennett
Bone Lever



REF # SIZE cm SIZE in
KO-3172 26.5 cm 10 1/2"

blunt

Blount
Knee Retractor



BONE SURGERY

BONE SURGERY

Knee Retractor, Spinal Retractor, Meniscus Knife,
Tendon Stripper

Oiten
Instruments



REF #	SIZE cm	SIZE in
KO-3173	26.5 cm	10½"

Blount
Knee Retractor



REF #	SIZE cm	SIZE in
KO-3174	17.5 cm	7"

Blount
Knee Retractor



REF #	SIZE cm	SIZE in	SHAPE
KO-3175	16.0 cm	6¼"	Fig.1
KO-3176	16.0 cm	6¼"	Fig.2

Fig.1
75 x 30 mm
pointed end

Fig.2
100 x 30 mm
pointed end

Taylor
Spinal Retractor



REF #	SIZE cm	SIZE in	SHAPE
KO-3177	17.5 cm	7"	str
KO-3178	17.5 cm	7"	cvd left
KO-3179	17.5 cm	7"	cvd right

Smillie
Meniscus Knife



REF #	SIZE cm	SIZE in	SHAPE
KO-3180	18.0 cm	7"	cvd

Standard
Meniscus Knife



REF #	SIZE cm	SIZE in	SHAPE
KO-3181	22.0 cm	8¾"	cvd left
KO-3182	22.0 cm	8¾"	cvd right

Neff
Meniscus Knife



REF #	SIZE cm	SIZE in
KO-3183	21.0 cm	8¼"

Salenius
Meniscus Knife



REF #	SIZE cm	SIZE in
KO-3184	21.0 cm	8¼"

Salenius
Meniscus Knife



REF #	SIZE cm	SIZE in	ø SIZE
KO-3185	15.0 cm	6"	2 mm
KO-3186	15.0 cm	6"	3 mm
KO-3187	15.0 cm	6"	4 mm
KO-3188	15.0 cm	6"	6 mm
KO-3189	15.0 cm	6"	8 mm

Bunnell
Tendon Stripper



BONE SURGERY

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Tendon Stripper, Tendon Passing Instrument
Tendon Holding Forceps, Tendon Tunneling Forceps

Olten
Instruments



REF #	SIZE cm	SIZE in	SHAPE
KO-3190	23.0 cm	9"	4 mm
KO-3191	23.0 cm	9"	4.5 mm
KO-3192	23.0 cm	9"	5.5 mm

flexible shaft

Standard
Tendon Stripper



REF #	SIZE cm	SIZE in
KO-3193	33.5 cm	13 1/4"

Standard
Tendon Passing Instrument



REF #	SIZE cm	SIZE in
KO-3194	31.0 cm	12 1/4"

blunt

Fischer
Tendon Stripper



REF #	SIZE cm	SIZE in
KO-3195	28.5 cm	11 1/4"

Standard
Tendon Stripper



REF #	SIZE cm	SIZE in
KO-3196	23.0 cm	9"

malleable

Bunnell
Tendon Passer



REF #	SIZE cm	SIZE in
KO-3197	16.0 cm	6 1/4"

Steinmann
Tendon Holding Forceps



REF #	SIZE cm	SIZE in	SHAPE
KO-3198	15.0 cm	6"	1x2 teeth
KO-3199	19.0 cm	7 1/2"	1x2 teeth
KO-3200	24.0 cm	9 1/2"	1x2 teeth

Brand
Tendon Tunneling Forceps



REF #	SIZE cm	SIZE in	SHAPE
KO-3201	21.0 cm	8 1/4"	str
KO-3202	21.0 cm	8 1/4"	cvd

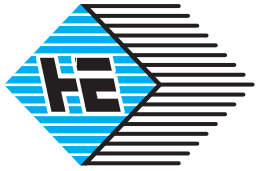
1x2 teeth

Standard
Tendon Tunneling Forceps



REF #	SIZE cm	SIZE in
KO-3203	11.5 cm	4 1/2"

Standard
Tendon Holding Forceps



BONE SURGERY

BONE SURGERY

Tendon Holding Forceps, Tendon Interlacing Forceps,
Bone Holding Forceps, Cartilage Seizing Forceps

Olten
Instruments

REF # SIZE cm SIZE in
KO-3204 23.0 cm 9"



Carroll
Tendon Holding Forceps

REF # SIZE cm SIZE in SHAPE
KO-3205 21.0 cm 8¼" 1x2 teeth



Kleinert-Kutz
Tendon Holding Forceps

REF # SIZE cm SIZE in SHAPE
KO-3206 15.5 cm 6" pointed



Standard
Tendon Interlacing Forceps

REF # SIZE cm SIZE in SHAPE
KO-3207 15.0 cm 6" pointed



Standard
Tendon Interlacing Forceps

REF # SIZE cm SIZE in
KO-3208 14.0 cm 5½"



Standard
Bone Holding Forceps

REF # SIZE cm SIZE in SHAPE
KO-3209 20.5 cm 8" str



Bircher-Ganske
Cartilage Seizing Forceps

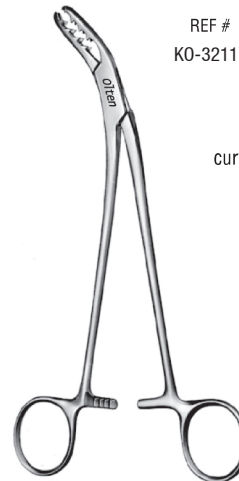
REF # SIZE cm SIZE in
KO-3210 20.5 cm 8"



Bircher-Ganske
Cartilage Seizing Forceps

curved upwards

REF # SIZE cm SIZE in
KO-3211 20.0 cm 8"



Bircher-Ganske
Cartilage Seizing Forceps

curved sideways



BONE SURGERY

BONE SURGERY

Cartilage Seizing Forceps, Reposition Forceps,
Bone Holding Forceps

Olten
Instruments



REF # SIZE cm SIZE in
KO-3212 18.5 cm 7 1/4"

angled sideways

Dingmann
Cartilage Seizing Forceps



REF # SIZE cm SIZE in
KO-3213 18.5 cm 7 1/4"

Cartilage
Seizing Forceps



REF # SIZE cm SIZE in
KO-3214 13.5 cm 5 1/4"

long ratchet
pointed

Standard
Reposition Forceps



REF # SIZE cm SIZE in
KO-3215 18.5 cm 7 1/4"

Lewin
Bone Holding Forceps



REF # SIZE cm SIZE in
KO-3216 14.0 cm 5 1/2"

Standard
Bone Holding Forceps



REF # SIZE cm SIZE in
KO-3217 13.5 cm 5 1/4"

long ratchet
pointed

Standard
Reposition Forceps



REF # SIZE cm SIZE in
KO-3218 21.0 cm 8 1/4"

Langenbeck
Bone Holding Forceps



REF # SIZE cm SIZE in
KO-3219 21.0 cm 8 1/4"

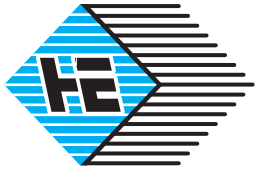
Fergusson
Bone Holding Forceps

heavy pattern



REF # SIZE cm SIZE in
KO-3220 18.0 cm 7"

Frosch
Bone Holding Forceps



BONE SURGERY

BONE SURGERY

Bone Holding Forceps, Reposition Forceps,

Olten
Instruments



Standard
Bone Holding Forceps

REF #	SIZE cm	SIZE in
KO-3221	20.0 cm	8"



Standard
Reposition Forceps

REF #	SIZE cm	SIZE in
KO-3222	16.0 cm	6¼"
KO-3223	22.0 cm	8¾"

with thread fixation



Kern
Bone Holding Forceps

REF #	SIZE cm	SIZE in
KO-3224	14.0 cm	5½"
KO-3225	15.0 cm	6"
KO-3226	17.0 cm	6¾"
KO-3227	18.5 cm	7¼"
KO-3228	21.0 cm	8¼"
KO-3229	24.0 cm	9½"
KO-3230	33.0 cm	13"



Semb
Bone Holding Forceps

REF #	SIZE cm	SIZE in
KO-3231	19.0 cm	7½"

curved sidewards



Farabeuf
Bone Holding Forceps

REF #	SIZE cm	SIZE in
KO-3232	23.0 cm	9"
KO-3233	26.0 cm	10¼"



Farabeuf
Bone Holding Forceps

REF #	SIZE cm	SIZE in
KO-3234	26.0 cm	10¼"



Lambotte
Bone Holding Forceps

REF #	SIZE cm	SIZE in
KO-3235	22.0 cm	8¾"
KO-3236	27.0 cm	10¾"
KO-3237	30.5 cm	12"

one flexible jaw



Ulrich
Bone Holding Forceps

REF #	SIZE cm	SIZE in
KO-3238	23.0 cm	9"
KO-3239	25.0 cm	9¾"
KO-3240	28.0 cm	11"

with thread fixation



Ulrich
Bone Holding Forceps

REF #	SIZE cm	SIZE in
KO-3241	22.0 cm	8¾"
KO-3242	24.0 cm	9½"
KO-3243	27.0 cm	10¾"

with thread fixation



BONE SURGERY

BONE SURGERY

Bone Holding Forceps, Amputation Retractor

oltten
Instruments

REF #	SIZE cm	SIZE in	SHAPE
KO-3244	15.0 cm	6"	2.5 mm
KO-3245	19.0 cm	7½"	6.5 mm
KO-3246	24.0 cm	9½"	9.5 mm
KO-3247	26.0 cm	10¼"	10.0 mm
KO-3248	28.0 cm	11"	11.0 mm



Standard
Bone Holding Forceps

self centering
with thread fixation



Lane
Bone Holding Forceps

REF #	SIZE cm	SIZE in
KO-3249	33.0 cm	13"



Verbrugge
Bone Holding Forceps

REF #	SIZE cm	SIZE in	SHAPE
KO-3250	25.0 cm	9¾"	9.5 mm
KO-3251	26.0 cm	10¼"	10.5 mm
KO-3252	27.0 cm	10¾"	12.0 mm



Verbrugge
Bone Holding Forceps

REF #	SIZE cm	SIZE in	SHAPE
KO-3253	17.5 cm	7"	5 mm



Percy
KO-3254
Amputation Retractor



Stellbrink
Bone Rongeur

REF #	SIZE cm	SIZE in	SHAPE
KO-3255	17.5 cm	7"	Fig.1
KO-3256	16.5 cm	6½"	Fig.2

Fig.1
slightly curved
2 mm tip

Fig.2
more curved
2 mm tip



Friedmann
Bone Rongeur

REF #	SIZE cm	SIZE in	SHAPE
KO-3257	12.5 cm	5"	cvd



Friedmann
Bone Rongeur

REF #	SIZE cm	SIZE in	SHAPE
KO-3258	14.0 cm	5½"	cvd



Friedmann-Vickers
Bone Rongeur

REF #	SIZE cm	SIZE in	SHAPE
KO-3259	13.5 cm	5¼"	cvd



BONE SURGERY

BONE SURGERY Bone Rongeur

Olten
Instruments



Cleveland
Bone Rongeur

REF #	SIZE cm	SIZE in	SHAPE
KO-3260	13.5 cm	5 1/4"	cvd



Cleveland
Bone Rongeur

REF #	SIZE cm	SIZE in	SHAPE
KO-3261	16.5 cm	6 1/2"	cvd



Mead
Bone Rongeur

REF #	SIZE cm	SIZE in	SHAPE
KO-3262	16.5 cm	6 1/2"	cvd



Bone Rongeur

REF #	SIZE cm	SIZE in	SHAPE
KO-3263	17.0 cm	6 3/4"	cvd



Jansen
Bone Rongeur

REF #	SIZE cm	SIZE in	SHAPE
KO-3264	18.0 cm	7"	str



Jansen
Bone Rongeur

REF #	SIZE cm	SIZE in	SHAPE
KO-3265	18.0 cm	7"	cvd



Lempert
Bone Rongeur

REF #	SIZE cm	SIZE in	SHAPE
KO-3266	19.0 cm	7 1/2"	str



Blumenthal
Bone Rongeur

REF #	SIZE cm	SIZE in	SHAPE
KO-3267	15.0 cm	6"	Fig.1
KO-3268	15.0 cm	6"	Fig.2
KO-3269	14.5 cm	5 1/2"	Fig.3

Fig.1
slightly curved

Fig.2
curved

Fig.3
curved 90°



Luer
Bone Rongeur

REF #	SIZE cm	SIZE in	SHAPE
KO-3270	18.5 cm	7 1/4"	str
KO-3271	18.5 cm	7 1/4"	cvd



BONE SURGERY

BONE SURGERY Bone Rongeur

Olten
Instruments



REF #	SIZE cm	SIZE in	SHAPE
KO-3272	14.5 cm	5¾"	Fig.1
KO-3273	14.5 cm	5¾"	Fig.2
KO-3274	14.5 cm	5¾"	Fig.3

Fig.1
slightly curved

Fig.2
more curved

Fig.3
more curved
heavy

Luer
Bone Rongeur



REF #	SIZE cm	SIZE in	SHAPE
KO-3275	15.5 cm	6"	str
KO-3276	15.5 cm	6"	cvd

Bohler
Bone Rongeur



REF #	SIZE cm	SIZE in	SHAPE
KO-3277	18.0 cm	7"	cvd

Beyer
Bone Rongeur



REF #	SIZE cm	SIZE in	SHAPE
KO-3278	18.0 cm	7"	cvd

Zaufal-Jansen
Bone Rongeur



REF #	SIZE cm	SIZE in	SHAPE
KO-3279	18.0 cm	7"	cvd

Mayfield
Bone Rongeur



REF #	SIZE cm	SIZE in	SHAPE
KO-3280	20.5 cm	8"	cvd

Marquard
Bone Rongeur



REF #	SIZE cm	SIZE in	SHAPE
KO-3281	19.0 cm	7½"	cvd

Ruskin
Bone Rongeur



REF #	SIZE cm	SIZE in	SHAPE
KO-3282	24.0 cm	9½"	cvd

Ruskin
Bone Rongeur



REF #	SIZE cm	SIZE in	SHAPE
KO-3283	23.5 cm	9¼"	cvd

Semb
Bone Rongeur



BONE SURGERY

BONE SURGERY Bone Rongeur

Olten
Instruments



Stille
Bone Rongeur

REF #	SIZE cm	SIZE in
KO-3284	23.5 cm	9"



Echlin
Bone Rongeur

REF #	SIZE cm	SIZE in	SHAPE
KO-3285	23.0 cm	9"	Fig.1
KO-3286	23.0 cm	9"	Fig.2
KO-3287	23.0 cm	9"	Fig.3

Fig.1
2.0 mm

Fig.2
2.5 mm

Fig.3
3.5 mm



Stille-Ruskin
Bone Rongeur

REF #	SIZE cm	SIZE in	SHAPE
KO-3288	23.5 cm	9"	cvd



Leksell-Stille
Bone Rongeur

REF #	SIZE cm	SIZE in	SHAPE
KO-3289	24.5 cm	9¾"	Fig.1
KO-3290	24.5 cm	9¾"	Fig.2

Fig.1
3.5 mm

Fig.2
6.0 mm



Frykholm
Bone Rongeur

REF #	SIZE cm	SIZE in
KO-3291	24.0 cm	9½"



Stille-Luer
Bone Rongeur

REF #	SIZE cm	SIZE in	SHAPE
KO-3292	22.5 cm	8¾"	str
KO-3293	22.0 cm	8¾"	cvd



Stille-Luer
Bone Rongeur

REF #	SIZE cm	SIZE in	SHAPE
KO-3294	23.0 cm	9"	str
KO-3295	26.5 cm	10½"	str
KO-3296	23.0 cm	9"	cvd
KO-3297	26.5 cm	10½"	cvd



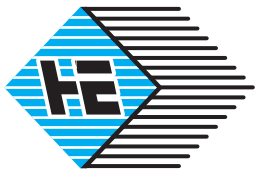
Sauerbruch
Bone Rongeur

REF #	SIZE cm	SIZE in
KO-3298	31.0 cm	12¼"



Markwalder
Bone Nipper

REF #	SIZE cm	SIZE in
KO-3299	20.0 cm	8"



BONE SURGERY

BONE SURGERY

Bone Nipper, Bone Cutting Forceps

Olten
Instruments



Cottle-Kazanjian
Bone Cutting Forceps

REF #	SIZE cm	SIZE in	SHAPE
KO-3300	19.0 cm	7½"	STR
KO-3301	19.0 cm	7½"	CVD



Liston
Bone Cutting Forceps

REF #	SIZE cm	SIZE in	SHAPE
KO-3302	14.0 cm	5½"	STR
KO-3303	17.0 cm	6¾"	STR
KO-3304	19.0 cm	7½"	STR
KO-3305	20.0 cm	8"	STR
KO-3306	22.0 cm	8¾"	STR



Liston
Bone Cutting Forceps

REF #	SIZE cm	SIZE in	SHAPE
KO-3307	14.0 cm	5½"	CVD
KO-3308	17.0 cm	6¾"	CVD
KO-3309	19.0 cm	7½"	CVD
KO-3310	20.0 cm	8"	CVD
KO-3311	22.0 cm	8¾"	CVD



Cleveland
Bone Cutting Forceps

REF #	SIZE cm	SIZE in
KO-3312	17.0 cm	6¾"



Cleveland
Bone Cutting Forceps

REF #	SIZE cm	SIZE in
KO-3313	14.5 cm	5¾"



Bohler
Bone Cutting Forceps

REF #	SIZE cm	SIZE in
KO-3314	14.5 cm	5¾"



Bohler
Bone Cutting Forceps

REF #	SIZE cm	SIZE in
KO-3315	14.5 cm	5¾"



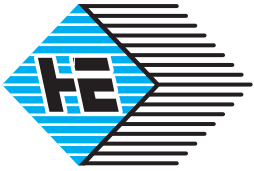
Cleveland
Bone Cutting Forceps

REF #	SIZE cm	SIZE in
KO-3316	16.0 cm	6¼"



Ruskin-Liston
Bone Cutting Forceps

REF #	SIZE cm	SIZE in	SHAPE
KO-3317	18.0 cm	7"	str
KO-3318	18.0 cm	7"	cvd



BONE SURGERY

BONE SURGERY

Bone Cutting Forceps, Lead Hand, Hand Restrainer, Feldheim, Finger Nail Drill

Olten
Instruments



REF #	SIZE cm	SIZE in
KO-3319	26.5 cm	10½"

Stille-Liston
Bone Cutting Forceps



REF #	SIZE cm	SIZE in	SHAPE
KO-3320	23.5 cm	9¼"	STR
KO-3321	26.5 cm	10½"	STR

Stille-Liston
Bone Cutting Forceps



REF #	SIZE cm	SIZE in	SHAPE
KO-3322	23.5 cm	9¼"	CVD
KO-3323	26.5 cm	10½"	CVD

Stille-Liston
Bone Cutting Forceps



REF #	SIZE cm	SIZE in
KO-3324	26.5 cm	10½"

Liston-Key
Bone Cutting Forceps



REF #	SIZE cm	SIZE in
KO-3325	24.0 cm	9½"

Semb
Bone Cutting Forceps



REF #	SIZE cm	SIZE in
KO-3326	27 cm	10 ½"
KO-3327	30 cm	12"

Charriere Saw



Charriere Saw

REF #	SIZE cm	SIZE in
KO-3328	35 cm	14"



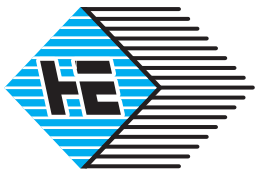
Satterlee Saw

REF #	SIZE cm	SIZE in
KO-3329	31 cm	12 ¼"



Ideal
Finger Nail Drill

REF #	SIZE cm	SIZE in	SHAPE
KO-3330	10.0 cm	4"	str



BONE SURGERY

BONE SURGERY

Finger Ring Saw, Nail Extracting Forceps, Spare Saw Blade

Olten
Instruments



REF #	SIZE cm	SIZE in
KO-3331	17.0 cm	6¾"

Finger Ring Saw



REF #	SIZE cm	SIZE in
KO-3332	16.0 cm	6¼"

Walton
Finger Ring Saw



Standard
KO-3333
Spare Saw Blade



REF #	SIZE cm	SIZE in
KO-3334	15.0 cm	6"

Penner
Nail Extracting Forceps



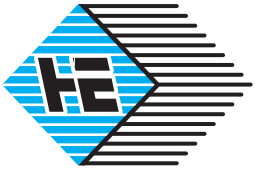
REF #	SIZE cm	SIZE in
KO-3335	17.0 cm	6¾"

Standard
Finger Ring Saw



REF #	SIZE cm	SIZE in
KO-3336	14.0 cm	5½"

Radolf
Nail Extracting Forceps



BONE SURGERY

BONE SURGERY

Head Extractor, Bone Skid, Chisel, Bone Rasp, Instrumentation Set

Olten
Instruments



REF #
KO-3337

Femoral Head Extractor



REF #
KO-3338

Prosthesis Extractor



REF #
KO-3339

Murphy Lane
Bone Skid



REF #
KO-3340

Mortising Chisel



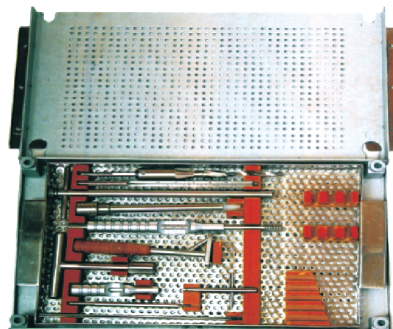
REF #
KO-3341

Moore
Rasp For Standard Stem



REF #
KO-3342

Moore
Rasp For Narrow Stem



REF #
KO-3343

DHS Instrumentation Set



BONE SURGERY

BONE SURGERY

Press, Screw Driver, Handle, Prosthesis Driver, Instrumentation Sets

o1ten
Instruments

REF #
KO-3344

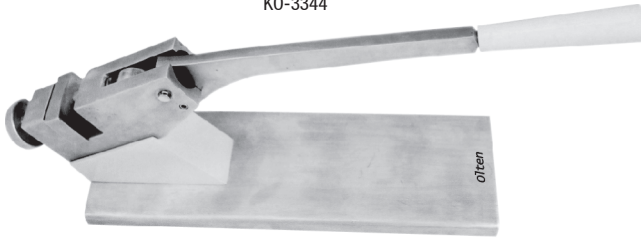


Plate Bending Press

REF #
KO-3345
for screw 2.7 mm, 3.5 mm

REF #
KO-3346
for screw 4.5 mm, 6.5 mm



Screw Driver

REF # SIZE cm SIZE in
KO-3347 16.0 cm 6 1/4"

For Shanks upto
Ø 6.35 mm



Drilling Chuck, Cannulated

REF #
KO-3348
Prosthesis Driver

REF #
KO-3349
Head Only



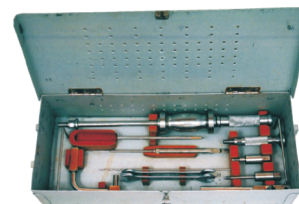
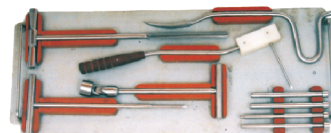
Prosthesis Driver

REF #
KO-3350



Angled Blade Plate Instrumentation Set With Box

REF #
KO-3351



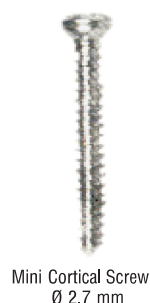
Interlocking Nail Instrumentation Set



BONE SURGERY

BONE SURGERY

Cortical Screw, Cancellous Screw



REF #	SIZE
KO-3352-06	6 mm
KO-3353-08	8 mm
KO-3354-10	10 mm
KO-3355-12	12 mm
KO-3356-14	14 mm
KO-3357-16	16 mm
KO-3358-18	18 mm
KO-3359-20	20 mm
KO-3360-22	22 mm
KO-3361-24	24 mm
KO-3362-26	26 mm
KO-3363-28	28 mm
KO-3364-30	30 mm



FINE THREAD		STANDARD THREAD	
REF #	SIZE	REF #	SIZE
KO-3365-10-F	10 mm	KO-3386-10-S	10 mm
KO-3366-12-F	12 mm	KO-3387-12-S	12 mm
KO-3367-14-F	14 mm	KO-3388-14-S	14 mm
KO-3368-16-F	16 mm	KO-3389-16-S	16 mm
KO-3369-18-F	18 mm	KO-3390-18-S	18 mm
KO-3370-20-F	20 mm	KO-3391-20-S	20 mm
KO-3371-22-F	22 mm	KO-3392-22-S	22 mm
KO-3372-24-F	24 mm	KO-3393-24-S	24 mm
KO-3373-26-F	26 mm	KO-3394-26-S	26 mm
KO-3374-28-F	28 mm	KO-3395-28-S	28 mm
KO-3375-30-F	30 mm	KO-3396-30-S	30 mm
KO-3376-32-F	32 mm	KO-3397-32-S	32 mm
KO-3377-34-F	34 mm	KO-3398-34-S	34 mm
KO-3378-36-F	36 mm	KO-3399-36-S	36 mm
KO-3379-38-F	38 mm	KO-3400-38-S	38 mm
KO-3380-40-F	40 mm	KO-3401-40-S	40 mm
KO-3381-42-F	42 mm	KO-3402-42-S	42 mm
KO-3382-44-F	44 mm	KO-3403-44-S	44 mm
KO-3383-46-F	46 mm	KO-3404-46-S	46 mm
KO-3384-48-F	48 mm	KO-3405-48-S	48 mm
KO-3385-50-F	50 mm	KO-3406-50-S	50 mm



REF #	SIZE	REF #	SIZE
KO-3407-12	12 mm	KO-3422-42	42 mm
KO-3408-14	14 mm	KO-3423-44	44 mm
KO-3409-16	16 mm	KO-3424-46	46 mm
KO-3410-18	18 mm	KO-3425-48	48 mm
KO-3411-20	20 mm	KO-3426-50	50 mm
KO-3412-22	22 mm	KO-3427-52	52 mm
KO-3413-24	24 mm	KO-3428-54	54 mm
KO-3414-26	26 mm	KO-3429-56	56 mm
KO-3415-28	28 mm	KO-3430-58	58 mm
KO-3416-30	30 mm	KO-3431-60	60 mm
KO-3417-32	32 mm	KO-3432-62	62 mm
KO-3418-34	34 mm	KO-3433-64	64 mm
KO-3419-36	36 mm	KO-3434-66	66 mm
KO-3420-38	38 mm	KO-3435-68	68 mm
KO-3421-40	40 mm	KO-3436-70	70 mm



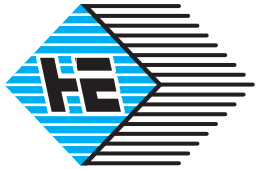
REF #	SIZE
KO-3437-10	10 mm
KO-3438-12	12 mm
KO-3439-14	14 mm
KO-3440-16	16 mm
KO-3441-18	18 mm
KO-3442-20	20 mm
KO-3443-22	22 mm
KO-3444-24	24 mm
KO-3445-26	26 mm
KO-3446-28	28 mm
KO-3447-30	30 mm
KO-3448-35	35 mm
KO-3449-40	40 mm
KO-3450-45	45 mm
KO-3451-50	50 mm
KO-3452-55	55 mm
KO-3453-60	60 mm



REF #	SIZE
KO-3454-10	10 mm
KO-3455-12	12 mm
KO-3456-14	14 mm
KO-3457-16	16 mm
KO-3458-18	18 mm
KO-3459-20	20 mm
KO-3460-22	22 mm
KO-3461-24	24 mm
KO-3462-26	26 mm
KO-3463-28	28 mm
KO-3464-30	30 mm
KO-3465-35	35 mm
KO-3466-40	40 mm
KO-3467-45	45 mm
KO-3468-50	50 mm
KO-3469-55	55 mm
KO-3470-60	60 mm



REF #	SIZE
KO-3471-25	25 mm
KO-3472-30	30 mm
KO-3473-35	35 mm
KO-3474-40	40 mm
KO-3475-45	45 mm
KO-3476-50	50 mm
KO-3477-55	55 mm
KO-3478-60	60 mm
KO-3479-65	65 mm
KO-3480-70	70 mm
KO-3481-75	75 mm
KO-3482-80	80 mm
KO-3483-85	85 mm
KO-3484-90	90 mm
KO-3485-95	95 mm
KO-3486-100	100 mm
KO-3487-105	105 mm
KO-3488-110	110 mm



BONE SURGERY

BONE SURGERY

Cancellous , Cannulated Cancellous, Malleolar Screw

olten
Instruments



Cancellous Screw
Ø 6.5 mm
32 MM THREAD

REF #	SIZE
KO-3489-35	35 mm
KO-3490-40	40 mm
KO-3491-45	45 mm
KO-3492-50	50 mm
KO-3493-55	55 mm
KO-3494-60	60 mm
KO-3495-65	65 mm
KO-3496-70	70 mm
KO-3497-75	75 mm
KO-3498-80	80 mm
KO-3499-85	85 mm
KO-3500-90	90 mm
KO-3501-95	95 mm
KO-3502-100	100 mm
KO-3503-105	105 mm
KO-3504-110	110 mm



Cancellous Screw
Ø 6.5 mm
FULL THREAD

REF #	SIZE
KO-3505-25	25 mm
KO-3506-30	30 mm
KO-3507-35	35 mm
KO-3508-40	40 mm
KO-3509-45	45 mm
KO-3510-50	50 mm
KO-3511-55	55 mm
KO-3512-60	60 mm
KO-3513-65	65 mm
KO-3514-70	70 mm
KO-3515-75	75 mm
KO-3516-80	80 mm
KO-3517-85	85 mm
KO-3518-90	90 mm
KO-3519-95	95 mm
KO-3520-100	100 mm
KO-3521-105	105 mm
KO-3522-110	110 mm



Cannulated Cancellous Screw
Ø 6.5 mm
32MM THREAD

REF #	SIZE
KO-3523-50	50 mm
KO-3524-55	55 mm
KO-3525-60	60 mm
KO-3526-65	65 mm
KO-3527-70	70 mm
KO-3528-75	75 mm
KO-3529-80	80 mm
KO-3530-85	85 mm
KO-3531-90	90 mm
KO-3532-95	95 mm
KO-3533-100	100 mm
KO-3534-105	105 mm
KO-3535-110	110 mm
KO-3536-115	115 mm
KO-3537-120	120 mm



Cannulated Cancellous Screw
Ø 6.5 mm
16MM THREAD

REF #	SIZE
KO-3538-50	50 mm
KO-3539-55	55 mm
KO-3540-60	60 mm
KO-3541-65	65 mm
KO-3542-70	70 mm
KO-3543-75	75 mm
KO-3544-80	80 mm
KO-3545-85	85 mm
KO-3546-90	90 mm
KO-3547-95	95 mm
KO-3548-100	100 mm
KO-3549-105	105 mm
KO-3550-110	110 mm
KO-3551-115	115 mm
KO-3552-120	120 mm



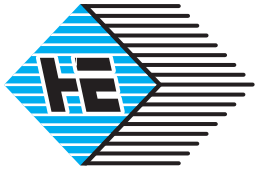
Malleolar Screw
Ø 4.5 mm

REF #	SIZE
KO-3553-25	25 mm
KO-3554-30	30 mm
KO-3555-35	35 mm
KO-3556-40	40 mm
KO-3557-45	45 mm
KO-3558-50	50 mm
KO-3559-55	55 mm
KO-3560-60	60 mm
KO-3561-65	65 mm
KO-3562-70	70 mm



Asnis Screw Cannulated

REF #	SIZE
KO-3563-65	65 mm
KO-3564-70	70 mm
KO-3565-75	75 mm
KO-3566-80	80 mm
KO-3567-85	85 mm
KO-3568-90	90 mm
KO-3569-95	95 mm
KO-3570-100	100 mm
KO-3571-105	105 mm
KO-3572-110	110 mm



BONE SURGERY

BONE SURGERY Bone Plate

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Instruments



Mini DCP Plate

REF #	SHAPE
KO-3573-02	2-HOLES
KO-3574-03	3-HOLES
KO-3575-04	4-HOLES
KO-3576-05	5-HOLES
KO-3577-06	6-HOLES
KO-3578-07	7-HOLES
KO-3579-08	8-HOLES
KO-3580-09	9-HOLES
KO-3581-10	10-HOLES



DCP Small Plate

REF #	SHAPE
KO-3582-02	2-HOLES
KO-3583-03	3-HOLES
KO-3584-04	4-HOLES
KO-3585-05	5-HOLES
KO-3586-06	6-HOLES
KO-3587-07	7-HOLES
KO-3588-08	8-HOLES
KO-3589-09	9-HOLES
KO-3590-10	10-HOLES
KO-3591-11	11-HOLES
KO-3592-12	12-HOLES
KO-3593-13	13-HOLES
KO-3594-14	14-HOLES
KO-3595-15	15-HOLES
KO-3596-16	16-HOLES



DCP Narrow Plate

REF #	SHAPE
KO-3597-04	4-HOLES
KO-3598-05	5-HOLES
KO-3599-06	6-HOLES
KO-3600-07	7-HOLES
KO-3601-08	8-HOLES
KO-3602-09	9-HOLES
KO-3603-10	10-HOLES
KO-3604-11	11-HOLES
KO-3605-12	12-HOLES
KO-3606-13	13-HOLES
KO-3607-14	14-HOLES
KO-3608-15	15-HOLES
KO-3609-16	16-HOLES
KO-3610-17	17-HOLES
KO-3611-18	18-HOLES
KO-3612-19	19-HOLES
KO-3613-20	20-HOLES



DCP Broad Plate

REF #	SHAPE
KO-3614-04	4-HOLES
KO-3615-05	5-HOLES
KO-3616-06	6-HOLES
KO-3617-07	7-HOLES
KO-3618-08	8-HOLES
KO-3619-09	9-HOLES
KO-3620-10	10-HOLES
KO-3621-11	11-HOLES
KO-3622-12	12-HOLES
KO-3623-13	13-HOLES
KO-3624-14	14-HOLES
KO-3625-15	15-HOLES
KO-3626-16	16-HOLES
KO-3627-17	17-HOLES
KO-3628-18	18-HOLES
KO-3629-19	19-HOLES
KO-3630-20	20-HOLES



1/3 Tabular Plate

REF #	SHAPE
KO-3631-04	4-HOLES
KO-3632-05	5-HOLES
KO-3633-06	6-HOLES
KO-3634-07	7-HOLES
KO-3635-08	8-HOLES
KO-3636-09	9-HOLES
KO-3637-10	10-HOLES
KO-3638-11	11-HOLES
KO-3639-12	12-HOLES



1/2 Tabular Plate

REF #	SHAPE
KO-3640-04	4-HOLES
KO-3641-05	5-HOLES
KO-3642-06	6-HOLES
KO-3643-07	7-HOLES
KO-3644-08	8-HOLES
KO-3645-09	9-HOLES
KO-3646-10	10-HOLES
KO-3647-11	11-HOLES
KO-3648-12	12-HOLES



BONE SURGERY

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Bone Plate

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Instruments



REF #	SHAPE
KO-3649-05	5-HOLES
KO-3650-06	6-HOLES
KO-3651-07	7-HOLES
KO-3652-08	8-HOLES
KO-3653-09	9-HOLES
KO-3654-10	10-HOLES
KO-3655-11	11-HOLES
KO-3656-12	12-HOLES

Reconstruction Plate
3.5 mm



REF #	SHAPE
KO-3657-05	5-HOLES
KO-3658-06	6-HOLES
KO-3659-07	7-HOLES
KO-3660-08	8-HOLES
KO-3661-09	9-HOLES
KO-3662-10	10-HOLES
KO-3663-11	11-HOLES
KO-3664-12	12-HOLES

Reconstruction Plate



REF #	SHAPE
KO-3665-03	3-HOLES
KO-3666-04	4-HOLES
KO-3667-05	5-HOLES
KO-3668-06	6-HOLES
KO-3669-07	7-HOLES
KO-3670-08	8-HOLES

Mini T-Plate



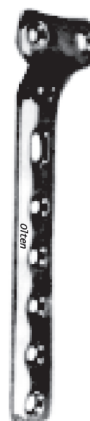
REF #	SHAPE
KO-3671-03	3-HOLES
KO-3672-04	4-HOLES
KO-3673-05	5-HOLES
KO-3674-06	6-HOLES
KO-3675-07	7-HOLES
KO-3676-08	8-HOLES
KO-3677-09	9-HOLES
KO-3678-10	10-HOLES
KO-3679-11	11-HOLES
KO-3680-12	12-HOLES

T-Plate



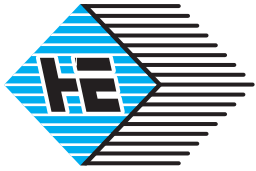
REF #	SHAPE
KO-3681-03	3-HOLES
KO-3682-04	4-HOLES
KO-3683-05	5-HOLES
KO-3684-06	6-HOLES
KO-3685-07	7-HOLES
KO-3686-08	8-HOLES
KO-3687-09	9-HOLES
KO-3688-10	10-HOLES
KO-3689-11	11-HOLES
KO-3690-12	12-HOLES

T-Plate 4.5mm



REF #	SHAPE
KO-3691-04	4-HOLES
KO-3692-05	5-HOLES
KO-3693-06	6-HOLES
KO-3694-07	7-HOLES
KO-3695-08	8-HOLES
KO-3696-09	9-HOLES
KO-3697-10	10-HOLES
KO-3698-11	11-HOLES
KO-3699-12	12-HOLES
KO-3700-13	13-HOLES
KO-3701-14	14-HOLES

T-Buttress Plate



BONE SURGERY

BONE SURGERY

Bone Plate

oltten
Instruments

Left

Right



L-Buttress Plate

REF #	SHAPE	REF #	SHAPE
KO-3702-03	3-HOLES/Left	KO-3714-03	3-HOLES/Right
KO-3703-04	4-HOLES/Left	KO-3715-04	4-HOLES/Right
KO-3704-05	5-HOLES/Left	KO-3716-05	5-HOLES/Right
KO-3705-06	6-HOLES/Left	KO-3717-06	6-HOLES/Right
KO-3706-07	7-HOLES/Left	KO-3718-07	7-HOLES/Right
KO-3707-08	8-HOLES/Left	KO-3719-08	8-HOLES/Right
KO-3708-09	9-HOLES/Left	KO-3720-09	9-HOLES/Right
KO-3709-10	10-HOLES/Left	KO-3721-10	10-HOLES/Right
KO-3710-11	11-HOLES/Left	KO-3722-11	11-HOLES/Right
KO-3711-12	12-HOLES/Left	KO-3723-12	12-HOLES/Right
KO-3712-13	13-HOLES/Left	KO-3724-13	13-HOLES/Right
KO-3713-14	14-HOLES/Left	KO-3725-14	14-HOLES/Right



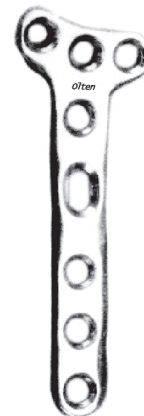
Angled Blade
Plate 130°

REF #	SHAPE
KO-3726-05	5-HOLES
KO-3727-06	6-HOLES
KO-3728-07	7-HOLES
KO-3729-08	8-HOLES
KO-3730-09	9-HOLES
KO-3731-10	10-HOLES
KO-3732-11	11-HOLES
KO-3733-12	12-HOLES
KO-3734-13	13-HOLES
KO-3735-14	14-HOLES
KO-3736-15	15-HOLES
KO-3737-16	16-HOLES
KO-3738-17	17-HOLES
KO-3739-18	18-HOLES



Cloverleaf Plate

REF #	SHAPE
KO-3740-05	5-HOLES
KO-3741-06	6-HOLES
KO-3742-07	7-HOLES
KO-3743-08	8-HOLES
KO-3744-09	9-HOLES
KO-3745-10	10-HOLES
KO-3746-11	11-HOLES
KO-3747-12	12-HOLES



Small T-Plate
Oblique Angle

REF #	SHAPE
KO-3748-03	3-HOLES/Left
KO-3749-04	4-HOLES/Left
KO-3750-05	5-HOLES/Left
KO-3751-06	6-HOLES/Left

REF #	SHAPE
KO-3752-03	3-HOLES/Right
KO-3753-04	4-HOLES/Right
KO-3754-05	5-HOLES/Right
KO-3755-06	6-HOLES/Right



Condylar Buttress Plate

Left
5 to 12 Holes

Right
5 to 12 Holes

REF #	SHAPE
KO-3756-05	5-HOLES/Left
KO-3757-06	6-HOLES/Left
KO-3758-07	7-HOLES/Left
KO-3759-08	8-HOLES/Left
KO-3760-09	9-HOLES/Left
KO-3761-10	10-HOLES/Left
KO-3762-11	11-HOLES/Left
KO-3763-12	12-HOLES/Left

REF #	SHAPE
KO-3764-05	5-HOLES/Right
KO-3765-06	6-HOLES/Right
KO-3766-07	7-HOLES/Right
KO-3767-08	8-HOLES/Right
KO-3768-09	9-HOLES/Right
KO-3769-10	10-HOLES/Right
KO-3770-11	11-HOLES/Right
KO-3771-12	12-HOLES/Right



Angled Blade
Plate 95°

REF #	SHAPE
KO-3772-05	5-HOLES
KO-3773-06	6-HOLES
KO-3774-07	7-HOLES
KO-3775-08	8-HOLES
KO-3776-09	9-HOLES
KO-3777-10	10-HOLES
KO-3778-11	11-HOLES
KO-3779-12	12-HOLES
KO-3780-13	13-HOLES
KO-3781-14	14-HOLES
KO-3782-15	15-HOLES
KO-3783-16	16-HOLES
KO-3784-17	17-HOLES
KO-3785-18	18-HOLES



BONE SURGERY

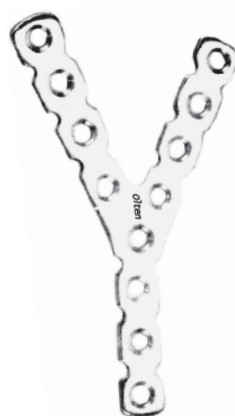
BONE SURGERY Bone Plate

Olten
Instruments



Cobra Plate

REF #	SHAPE
KO-3786-05	5-HOLES
KO-3787-06	6-HOLES
KO-3788-07	7-HOLES
KO-3789-08	8-HOLES
KO-3790-09	9-HOLES
KO-3791-10	10-HOLES
KO-3792-11	11-HOLES
KO-3793-12	12-HOLES



Y-Reconstruction Plate

REF #
KO-3794



Spoon Plate

REF #	SHAPE
KO-3795-05	5-HOLES
KO-3796-06	6-HOLES
KO-3797-07	7-HOLES
KO-3798-08	8-HOLES
KO-3799-09	9-HOLES
KO-3800-10	10-HOLES
KO-3801-11	11-HOLES
KO-3802-12	12-HOLES



DHS Barrel
Plate 135°

REF #	SHAPE
KO-3803-04	4-HOLES
KO-3804-05	5-HOLES
KO-3805-06	6-HOLES
KO-3806-07	7-HOLES
KO-3807-08	8-HOLES
KO-3808-09	9-HOLES
KO-3809-10	10-HOLES
KO-3810-11	11-HOLES
KO-3811-12	12-HOLES
KO-3812-13	13-HOLES
KO-3813-14	14-HOLES
KO-3814-15	15-HOLES
KO-3815-16	16-HOLES
KO-3816-17	17-HOLES
KO-3817-18	18-HOLES



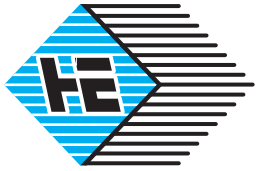
DCS Barrel
Plate 95°

REF #	SHAPE
KO-3818-04	4-HOLES
KO-3819-05	5-HOLES
KO-3820-06	6-HOLES
KO-3821-07	7-HOLES
KO-3822-08	8-HOLES
KO-3823-09	9-HOLES
KO-3824-10	10-HOLES
KO-3825-11	11-HOLES
KO-3826-12	12-HOLES
KO-3827-13	13-HOLES
KO-3828-14	14-HOLES
KO-3829-15	15-HOLES
KO-3830-16	16-HOLES
KO-3831-17	17-HOLES
KO-3832-18	18-HOLES



DHS Screw
With Compression Screw

REF #	SIZE
KO-3833-45	45 mm
KO-3834-50	50 mm
KO-3835-55	55 mm
KO-3836-60	60 mm
KO-3837-65	65 mm
KO-3838-70	70 mm
KO-3839-75	75 mm
KO-3840-80	80 mm
KO-3841-85	85 mm
KO-3842-90	90 mm
KO-3843-95	95 mm
KO-3844-100	100 mm
KO-3845-105	105 mm
KO-3846-110	110 mm
KO-3847-115	115 mm
KO-3848-120	120 mm



BONE SURGERY

BONE SURGERY

Hip Prosthesis

Oiten
Instruments



Austin Moore
Hip Prosthesis
150mm Stem

Standard Stem 150 mm

REF #	SIZE
KO-3849-37	37 mm
KO-3850-38	38 mm
KO-3851-39	39 mm
KO-3852-40	40 mm
KO-3853-41	41 mm
KO-3854-42	42 mm
KO-3855-43	43 mm
KO-3856-44	44 mm
KO-3857-45	45 mm
KO-3858-46	46 mm
KO-3859-47	47 mm
KO-3860-48	48 mm
KO-3861-49	49 mm
KO-3862-50	50 mm
KO-3863-51	51 mm
KO-3864-52	52 mm
KO-3865-53	53 mm
KO-3866-54	54 mm
KO-3867-55	55 mm
KO-3868-56	56 mm

Narrow Stem 150 mm

REF #	SIZE
KO-3869-37	37 mm
KO-3870-38	38 mm
KO-3871-39	39 mm
KO-3872-40	40 mm
KO-3873-41	41 mm
KO-3874-42	42 mm
KO-3875-43	43 mm
KO-3876-44	44 mm
KO-3877-45	45 mm
KO-3878-46	46 mm
KO-3879-47	47 mm
KO-3880-48	48 mm
KO-3881-49	49 mm
KO-3882-50	50 mm
KO-3883-51	51 mm
KO-3884-52	52 mm
KO-3885-53	53 mm
KO-3886-54	54 mm
KO-3887-55	55 mm
KO-3888-56	56 mm



Austin Moore
Hip Prosthesis
185mm Stem

Standard Stem 185 mm

REF #	SIZE
KO-3889-37	37 mm
KO-3890-38	38 mm
KO-3891-39	39 mm
KO-3892-40	40 mm
KO-3893-41	41 mm
KO-3894-42	42 mm
KO-3895-43	43 mm
KO-3896-44	44 mm
KO-3897-45	45 mm
KO-3898-46	46 mm
KO-3899-47	47 mm
KO-3900-48	48 mm
KO-3901-49	49 mm
KO-3902-50	50 mm
KO-3903-51	51 mm
KO-3904-52	52 mm
KO-3905-53	53 mm
KO-3906-54	54 mm
KO-3907-55	55 mm
KO-3908-56	56 mm

Narrow Stem 185 mm

REF #	SIZE
KO-3909-37	37 mm
KO-3910-38	38 mm
KO-3911-39	39 mm
KO-3912-40	40 mm
KO-3913-41	41 mm
KO-3914-42	42 mm
KO-3915-43	43 mm
KO-3916-44	44 mm
KO-3917-45	45 mm
KO-3918-46	46 mm
KO-3919-47	47 mm
KO-3920-48	48 mm
KO-3921-49	49 mm
KO-3922-50	50 mm
KO-3923-51	51 mm
KO-3924-52	52 mm
KO-3925-53	53 mm
KO-3926-54	54 mm
KO-3927-55	55 mm
KO-3928-56	56 mm



Austin Moore
Hip Prosthesis
205mm Stem

Standard Stem 205 mm

REF #	SIZE
KO-3929-37	37 mm
KO-3930-38	38 mm
KO-3931-39	39 mm
KO-3932-40	40 mm
KO-3933-41	41 mm
KO-3934-42	42 mm
KO-3935-43	43 mm
KO-3936-44	44 mm
KO-3937-45	45 mm
KO-3938-46	46 mm
KO-3939-47	47 mm
KO-3940-48	48 mm
KO-3941-49	49 mm
KO-3942-50	50 mm
KO-3943-51	51 mm
KO-3944-52	52 mm
KO-3945-53	53 mm
KO-3946-54	54 mm
KO-3947-55	55 mm
KO-3948-56	56 mm

Narrow Stem 205 mm

REF #	SIZE
KO-3949-37	37 mm
KO-3950-38	38 mm
KO-3951-39	39 mm
KO-3952-40	40 mm
KO-3953-41	41 mm
KO-3954-42	42 mm
KO-3955-43	43 mm
KO-3956-44	44 mm
KO-3957-45	45 mm
KO-3958-46	46 mm
KO-3959-47	47 mm
KO-3960-48	48 mm
KO-3961-49	49 mm
KO-3962-50	50 mm
KO-3963-51	51 mm
KO-3964-52	52 mm
KO-3965-53	53 mm
KO-3966-54	54 mm
KO-3967-55	55 mm
KO-3968-56	56 mm



Austin Moore
Hip Prosthesis
235mm Stem

Standard Stem 235 mm

REF #	SIZE
KO-3969-37	37 mm
KO-3970-38	38 mm
KO-3971-39	39 mm
KO-3972-40	40 mm
KO-3973-41	41 mm
KO-3974-42	42 mm
KO-3975-43	43 mm
KO-3976-44	44 mm
KO-3977-45	45 mm
KO-3978-46	46 mm
KO-3979-47	47 mm
KO-3980-48	48 mm
KO-3981-49	49 mm
KO-3982-50	50 mm
KO-3983-51	51 mm
KO-3984-52	52 mm
KO-3985-53	53 mm
KO-3986-54	54 mm
KO-3987-55	55 mm
KO-3988-56	56 mm

Narrow Stem 235 mm

REF #	SIZE
KO-3989-37	37 mm
KO-3990-38	38 mm
KO-3991-39	39 mm
KO-3992-40	40 mm
KO-3993-41	41 mm
KO-3994-42	42 mm
KO-3995-43	43 mm
KO-3996-44	44 mm
KO-3997-45	45 mm
KO-3998-46	46 mm
KO-3999-47	47 mm
KO-4000-48	48 mm
KO-4001-49	49 mm
KO-4002-50	50 mm
KO-4003-51	51 mm
KO-4004-52	52 mm
KO-4005-53	53 mm
KO-4006-54	54 mm
KO-4007-55	55 mm
KO-4008-56	56 mm



Austin Moore
Hip Prosthesis
305mm Stem

Standard Stem 305 mm

REF #	SIZE
KO-4009-37	37 mm
KO-4010-38	38 mm
KO-4011-39	39 mm
KO-4012-40	40 mm
KO-4013-41	41 mm
KO-4014-42	42 mm
KO-4015-43	43 mm
KO-4016-44	44 mm
KO-4017-45	45 mm
KO-4018-46	46 mm
KO-4019-47	47 mm
KO-4020-48	48 mm
KO-4021-49	49 mm
KO-4022-50	50 mm
KO-4023-51	51 mm
KO-4024-52	52 mm
KO-4025-53	53 mm
KO-4026-54	54 mm
KO-4027-55	55 mm
KO-4028-56	56 mm

Narrow Stem 305 mm

REF #	SIZE
KO-4029-37	37 mm
KO-4030-38	38 mm
KO-4031-39	39 mm
KO-4032-40	40 mm
KO-4033-41	41 mm
KO-4034-42	42 mm
KO-4035-43	43 mm
KO-4036-44	44 mm
KO-4037-45	45 mm
KO-4038-46	46 mm
KO-4039-47	47 mm
KO-4040-48	48 mm
KO-4041-49	49 mm
KO-4042-50	50 mm
KO-4043-51	51 mm
KO-4044-52	52 mm
KO-4045-53	53 mm
KO-4046-54	54 mm
KO-4047-55	55 mm
KO-4048-56	56 mm



Thompson
Hip Prosthesis

REF #	SIZE
KO-4049-38	38 mm
KO-4050-39	39 mm
KO-4051-40	40 mm
KO-4052-41	41 mm
KO-4053-42	42 mm
KO-4054-43	43 mm
KO-4055-44	44 mm
KO-4056-45	45 mm
KO-4057-46	46 mm
KO-4058-47	47 mm
KO-4059-48	48 mm
KO-4060-49	49 mm
KO-4061-50	50 mm
KO-4062-51	51 mm
KO-4063-52	52 mm
KO-4064-53	53 mm
KO-4065-54	54 mm



BONE SURGERY

BONE SURGERY

K-Wire, Drill Bit, Stamen Pin, Washer, Tap

oltten
Instruments



REF #	SIZE
KO-4066	Ø 1.0 mm
KO-4067	Ø 1.5 mm
KO-4068	Ø 2.0 mm
KO-4069	Ø 2.5 mm
KO-4070	Ø 3.0 mm

Single End

REF #	SIZE
KO-4071	Ø 1.0 mm
KO-4072	Ø 1.5 mm
KO-4073	Ø 2.0 mm
KO-4074	Ø 2.5 mm
KO-4075	Ø 3.0 mm

Double End

K-Wire
with out thread



REF #	SIZE
KO-4076	Ø 2.5 mm
KO-4077	Ø 3.0 mm

K-Wire
with thread



Drill Bit

REF #	SIZE	SHAPE
KO-4078	150 cm	Ø 1.5 mm
KO-4079	150 cm	Ø 2.0 mm
KO-4080	150 cm	Ø 2.5 mm
KO-4081	150 cm	Ø 2.7 mm
KO-4082	150 cm	Ø 3.0 mm
KO-4083	150 cm	Ø 3.5 mm
KO-4084	150 cm	Ø 4.0 mm
KO-4085	150 cm	Ø 4.5 mm



Stamen Pin

REF #	SIZE
KO-4086	Ø 3.0 mm
KO-4087	Ø 3.5 mm
KO-4088	Ø 4.0 mm
KO-4089	Ø 5.0 mm



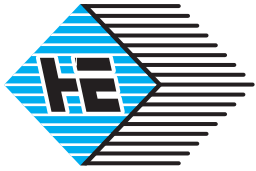
Washer

REF #	SIZE
KO-4090	4.0 mm
KO-4091	6.5 mm



Tap

REF #	SIZE
KO-4092	Ø 2.7 mm
KO-4093	Ø 3.5 mm
KO-4094	Ø 4.5 mm
KO-4095	Ø 7.0 mm



BONE SURGERY

BONE SURGERY

Interlocking Nail,K-Nail,Locking Screw,Cerclage Wire

olten
Instruments



K - Nail
Cloverleaf Medullary Nail
Double Slot

REF #	SIZE	SHAPE
KO-4096 -08	44 cm	Ø 8 mm
KO-4097 -09	44 cm	Ø 9 mm
KO-4098 -10	44 cm	Ø 10 mm
KO-4099 -11	44 cm	Ø 11 mm
KO-4100 -12	44 cm	Ø 12 mm
KO-4101 -13	44 cm	Ø 13 mm
KO-4102 -14	44 cm	Ø 14 mm

REF #	SIZE	SHAPE
KO-4103 -08	88 cm	Ø 8 mm
KO-4104 -09	88 cm	Ø 9 mm
KO-4105 -10	88 cm	Ø 10 mm
KO-4106 -11	88 cm	Ø 11 mm
KO-4107 -12	88 cm	Ø 12 mm
KO-4108 -13	88 cm	Ø 13 mm
KO-4109 -14	88 cm	Ø 14 mm



Morris
Femoral Interlocking Nail

Femoral		
REF #	SIZE	SHAPE
KO-4110-32	32 cm	Ø10 mm
KO-4111-34	34 cm	Ø10 mm
KO-4112-36	36 cm	Ø10 mm
KO-4113-38	38 cm	Ø10 mm
KO-4114-40	40 cm	Ø10 mm
KO-4115-42	42 cm	Ø10 mm
KO-4116-44	44 cm	Ø10 mm
KO-4117-46	46 cm	Ø10 mm
KO-4118-48	48 cm	Ø10 mm
KO-4119-50	50 cm	Ø10 mm

REF #	SIZE	SHAPE
KO-4120-32	32 cm	Ø11 mm
KO-4121-34	34 cm	Ø11 mm
KO-4122-36	36 cm	Ø11 mm
KO-4123-38	38 cm	Ø11 mm
KO-4124-40	40 cm	Ø11 mm
KO-4125-42	42 cm	Ø11 mm
KO-4126-44	44 cm	Ø11 mm
KO-4127-46	46 cm	Ø11 mm
KO-4128-48	48 cm	Ø11 mm
KO-4129-50	50 cm	Ø11 mm

REF #	SIZE	SHAPE
KO-4130-32	32 cm	Ø12 mm
KO-4131-34	34 cm	Ø12 mm
KO-4132-36	36 cm	Ø12 mm
KO-4133-38	38 cm	Ø12 mm
KO-4134-40	40 cm	Ø12 mm
KO-4135-42	42 cm	Ø12 mm
KO-4136-44	44 cm	Ø12 mm
KO-4137-46	46 cm	Ø12 mm
KO-4138-48	48 cm	Ø12 mm
KO-4139-50	50 cm	Ø12 mm

REF #	SIZE	SHAPE
KO-4140-36	36 cm	Ø13 mm
KO-4141-38	38 cm	Ø13 mm
KO-4142-40	40 cm	Ø13 mm
KO-4143-42	42 cm	Ø13 mm
KO-4144-44	44 cm	Ø13 mm
KO-4145-46	46 cm	Ø13 mm
KO-4146-48	48 cm	Ø13 mm
KO-4147-50	50 cm	Ø13 mm

REF #	SIZE	SHAPE
KO-4148-36	36 cm	Ø14 mm
KO-4149-38	38 cm	Ø14 mm
KO-4150-40	40 cm	Ø14 mm
KO-4151-42	42 cm	Ø14 mm
KO-4152-44	44 cm	Ø14 mm
KO-4153-46	46 cm	Ø14 mm
KO-4154-48	48 cm	Ø14 mm

REF #	SIZE	SHAPE
KO-4155-38	38 cm	Ø15 mm
KO-4156-40	40 cm	Ø15 mm
KO-4157-42	42 cm	Ø15 mm
KO-4158-44	44 cm	Ø15 mm
KO-4159-46	46 cm	Ø15 mm
KO-4160-48	48 cm	Ø15 mm

REF #	SIZE	SHAPE
KO-4161-38	38 cm	Ø16 mm
KO-4162-40	40 cm	Ø16 mm
KO-4163-42	42 cm	Ø16 mm
KO-4164-44	44 cm	Ø16 mm
KO-4165-46	46 cm	Ø16 mm
KO-4166-48	48 cm	Ø16 mm



Morris
Tibial Interlocking Nail

Tibial		
REF #	SIZE	SHAPE
KO-4167-28	28 cm	Ø 8 mm
KO-4168-30	30 cm	Ø 8 mm
KO-4169-32	32 cm	Ø 8 mm
KO-4170-34	34 cm	Ø 8 mm
KO-4171-36	36 cm	Ø 8 mm
KO-4172-38	38 cm	Ø 8 mm

REF #	SIZE	SHAPE
KO-4173-28	28 cm	Ø 9 mm
KO-4174-30	30 cm	Ø 9 mm
KO-4175-32	32 cm	Ø 9 mm
KO-4176-34	34 cm	Ø 9 mm
KO-4177-36	36 cm	Ø 9 mm
KO-4178-38	38 cm	Ø 9 mm

REF #	SIZE	SHAPE
KO-4179-28	28 cm	Ø 10 mm
KO-4180-30	30 cm	Ø 10 mm
KO-4181-32	32 cm	Ø 10 mm
KO-4182-34	34 cm	Ø 10 mm
KO-4183-36	36 cm	Ø 10 mm
KO-4184-38	38 cm	Ø 10 mm
KO-4185-40	40 cm	Ø 10 mm

REF #	SIZE	SHAPE
KO-4186-28	28 cm	Ø 11 mm
KO-4187-30	30 cm	Ø 11 mm
KO-4188-32	32 cm	Ø 11 mm
KO-4189-34	34 cm	Ø 11 mm
KO-4190-36	36 cm	Ø 11 mm
KO-4191-38	38 cm	Ø 11 mm
KO-4192-40	40 cm	Ø 11 mm
KO-4193-42	42 cm	Ø 11 mm

REF #	SIZE	SHAPE
KO-4194-28	28 cm	Ø 12 mm
KO-4195-30	30 cm	Ø 12 mm
KO-4196-32	32 cm	Ø 12 mm
KO-4197-34	34 cm	Ø 12 mm
KO-4198-36	36 cm	Ø 12 mm
KO-4199-38	38 cm	Ø 12 mm
KO-4200-40	40 cm	Ø 12 mm
KO-4201-42	42 cm	Ø 12 mm

REF #	SIZE	SHAPE
KO-4202-28	28 cm	Ø 13 mm
KO-4203-30	30 cm	Ø 13 mm
KO-4204-32	32 cm	Ø 13 mm
KO-4205-34	34 cm	Ø 13 mm
KO-4206-36	36 cm	Ø 13 mm
KO-4207-38	38 cm	Ø 13 mm

REF #	SIZE	SHAPE
KO-4208-30	30 cm	Ø 14 mm
KO-4209-32	32 cm	Ø 14 mm
KO-4210-34	34 cm	Ø 14 mm
KO-4211-36	36 cm	Ø 14 mm
KO-4212-38	38 cm	Ø 14 mm



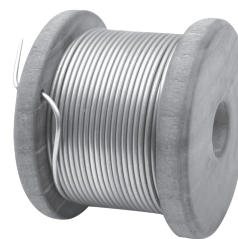
Locking Screw
For Tibial Nail
Ø 4.5 mm

REF #	SIZE
KO-4213-25	25 mm
KO-4214-30	30 mm
KO-4215-35	35 mm
KO-4216-40	40 mm
KO-4217-45	45 mm
KO-4218-50	50 mm
KO-4219-55	55 mm
KO-4220-60	60 mm



Locking Screw
For Femoral Nail
Ø 5.0 mm

REF #	SIZE
KO-4221-30	30 mm
KO-4222-35	35 mm
KO-4223-40	40 mm
KO-4224-45	45 mm
KO-4225-50	50 mm
KO-4226-55	55 mm
KO-4227-60	60 mm
KO-4228-65	65 mm
KO-4229-70	70 mm
KO-4230-75	75 mm
KO-4231-80	80 mm



Cerclage Wire

REF #	SIZE
KO-4232	14-gauge
KO-4233	15-gauge
KO-4234	16-gauge
KO-4235	17-gauge
KO-4236	18-gauge
KO-4237	19-gauge
KO-4238	20-gauge
KO-4239	21-gauge
KO-4240	22-gauge
KO-4241	23-gauge
KO-4242	24-gauge
KO-4243	25-gauge
KO-4244	26-gauge
KO-4245	27-gauge
KO-4246	28-gauge
KO-4247	29-gauge
KO-4248	30-gauge