



TUNGSTEN CARBIDE
INSTRUMENTS



CATALOGUE

SOUTH INDIA SURGICAL CO. LTD.



LIGATURE

Delicate Scissors,
Sharp & Sharp
110mm

TCS 210 - Straight

TCS 211 - Curved

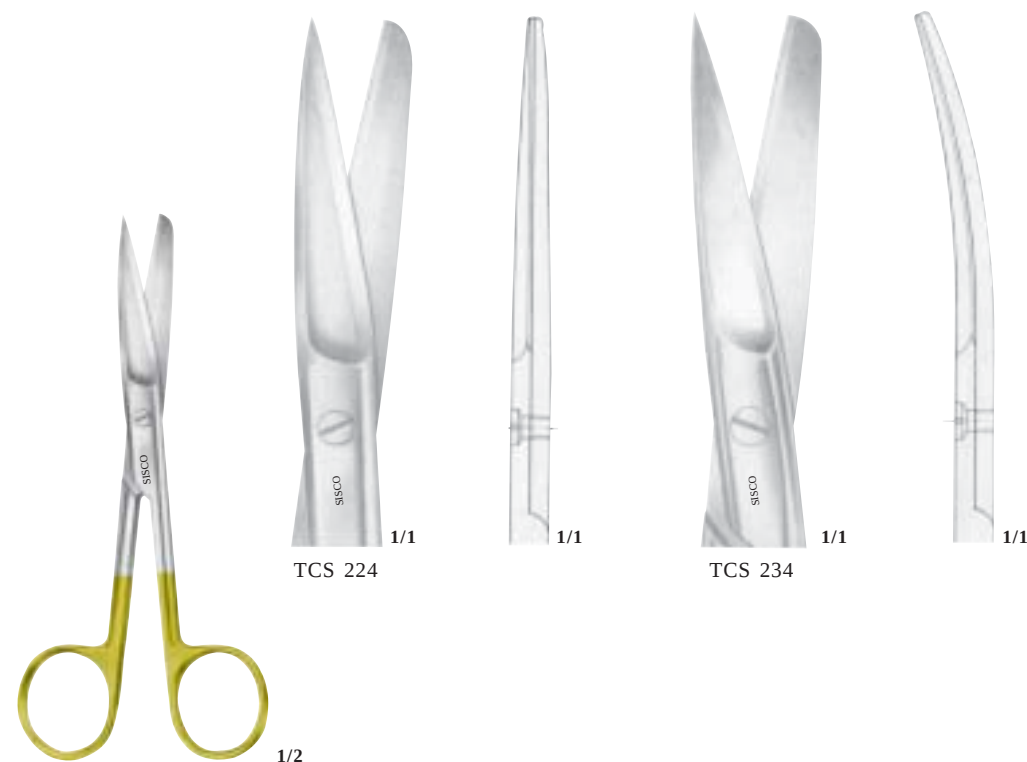


DISSECTING

Surgical Scissors
115mm

TCS 256 - Straight

TCS 257 - Curved



SURGICAL

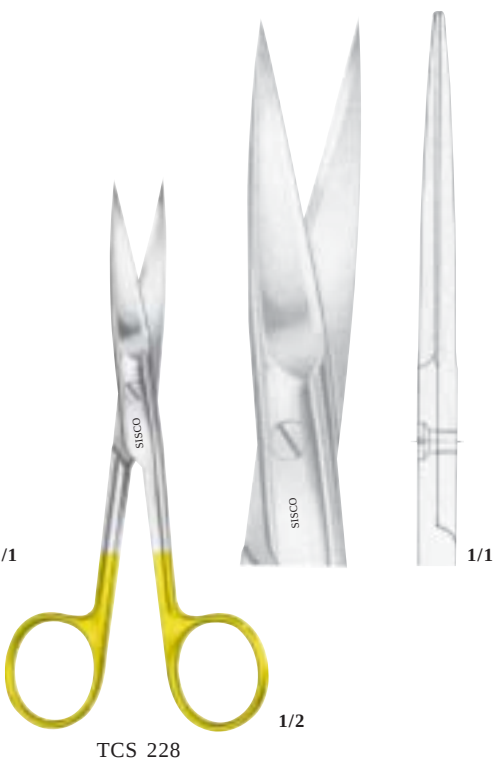
Scissors
Sharp & Blunt
145mm

TCS 224 - Straight

TCS 234 - Curved



SURGICAL
Scissors
Blunt x Blunt,Curved
145mm
TCS 231



SURGICAL
Scissors
Sharp x Sharp,Straight
145mm
TCS 228

LEXER
Dissecting Scissors
Narrow,Curved
165mm
TCS 283



MAYO- LEXER
Dissecting Scissors,
Curved
165mm
TCS 284

Scissors



MAYO

Dissecting Scissors
140 mm

TCS 250 - Straight

TCS 251 - Curved

MAYO

Dissecting Scissors
170 mm

TCS 252 - Straight

TCS 253 - Curved

BABY METZENBAUM

Fine Dissecting Scissors
145 mm

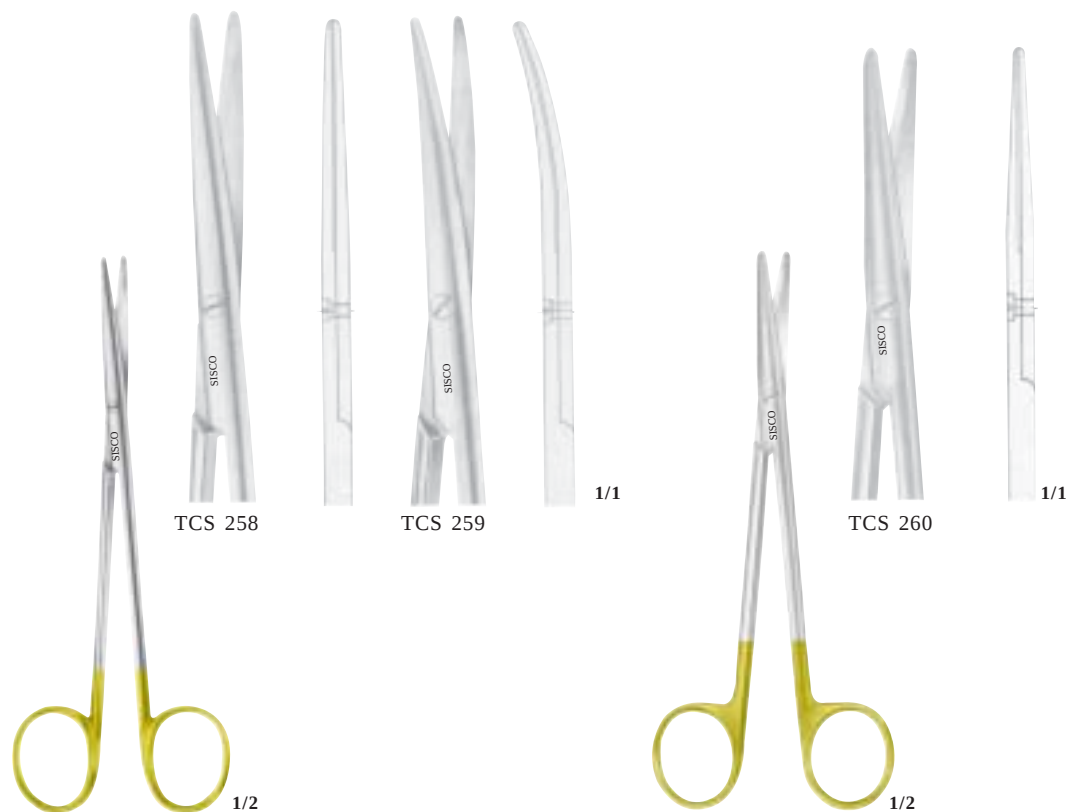
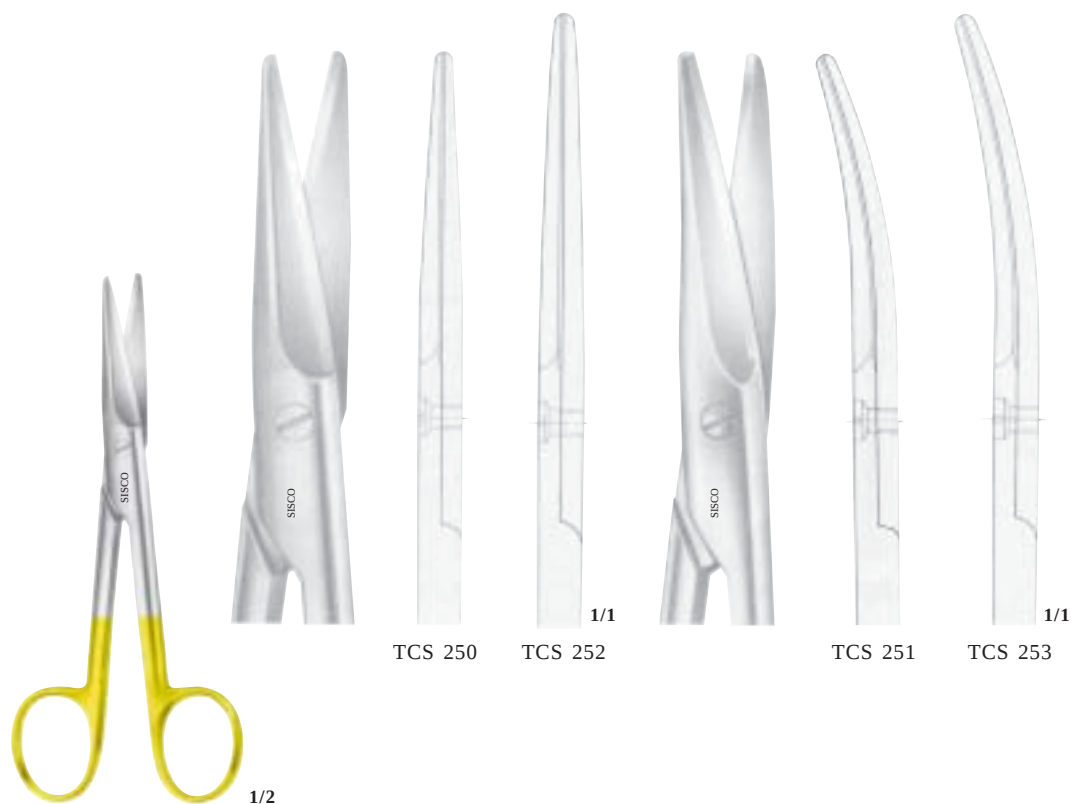
TCS 258 - Straight

TCS 259 - Curved

METZENBAUM

Dissecting Scissors
Straight
145 mm

TCS 260



Scissors



METZENBAUM
Dissecting Scissors
180 mm

TCS 270 - Straight
TCS 271 - Curved

METZENBAUM
Dissecting Scissors
200 mm

TCS 274 - Straight
TCS 275 - Curved

METZENBAUM
Dissecting Scissors
230 mm

TCS 276 - Straight
TCS 277 - Curved

NELSON-METZENBAUM
Dissecting Scissors
Curved

TCS 279 - 260mm
TCS 281 - 280mm
TCS 282 - 285mm

TOENNIS - ADSON
Dissecting Scissors
175 mm
TCS 273





DEBAKEY

Vascular Scissors

220 mm

TCS 245



TCS 245

NELSON - METZENBAUM

(Mc Indoe)

Dissecting Scissors

230 mm

TCS 266 - Straight

TCS 267 - Curved



TCS
266

TCS
267

TCS
289

NELSON - METZENBAUM

(Mc Indoe)

Dissecting Scissors

300 mm

TCS 289 - Curved



METZENBAUM
Dissecting Scissors
Curved
Broad blade ends
230 mm
TCS 287



WERTHEIAM
Dissecting Scissors
Curved
230 mm
TCS 293



SIMS
Uterine Scissors
Curved
TCS 290 - 200 mm
TCS 291 - 230 mm



HYSTERECTOMY

Scissors
Slightly Curved
255 mm

TCS 550



TCS 550



TCS 551

HYSTERECTOMY

Scissors
Strongly Curved
250 mm

TCS 551



TCS 550

1/1

1/2



TCS 551

1/1



WIRE CUTTING SCISSORS

One blade serrated
120 mm

TCS 552



NEEDLE HOLDER WITH SCISSORS

With smooth jaws
(One blade fine serrated)
125 mm

TNH 127



HEGAR - OLSEN

Needle holder with scissors
(One blade fine serrated)
145 mm

TNH 128



HEGAR - OLSEN

Needle holder with scissors
(One blade fine serrated)
165 mm

TNH 124



Scissors & Wire Twisters



GILLIES

Needle holder with scissors
(One blade fine serrated)
160 mm

TNH 465



WIRE TWISTER

Ligature forceps
150 mm

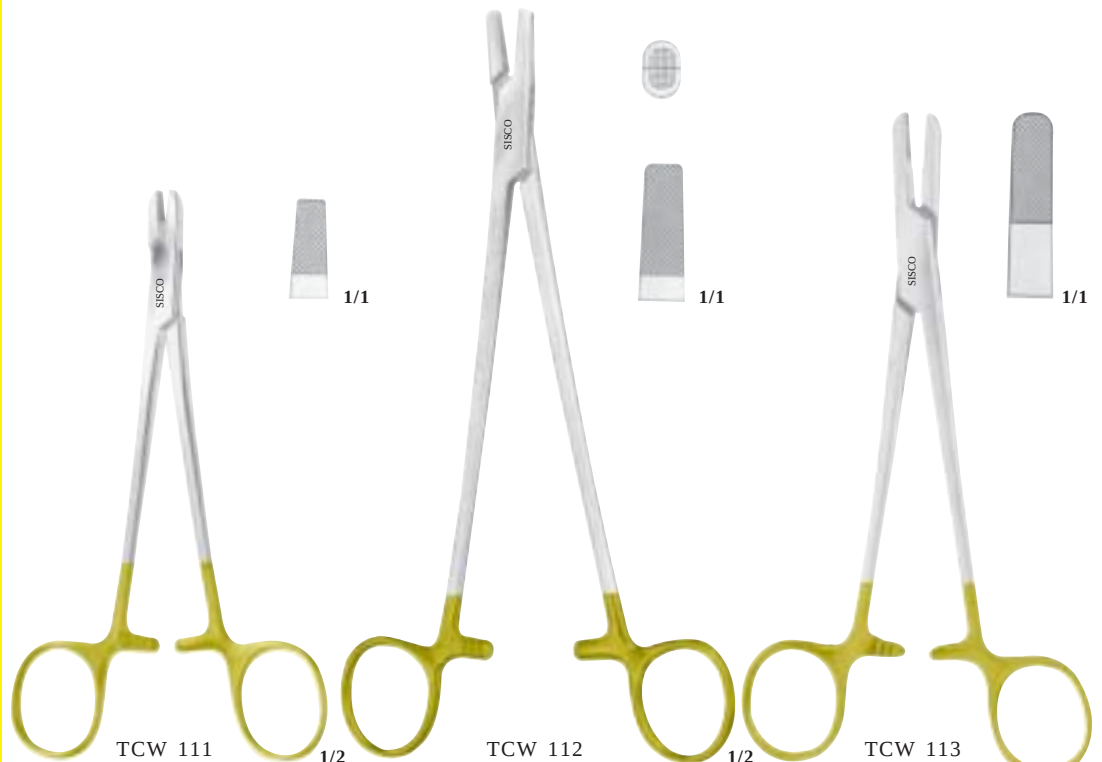
TCW 110



WIRE TWISTER

Ligature forceps
150 mm

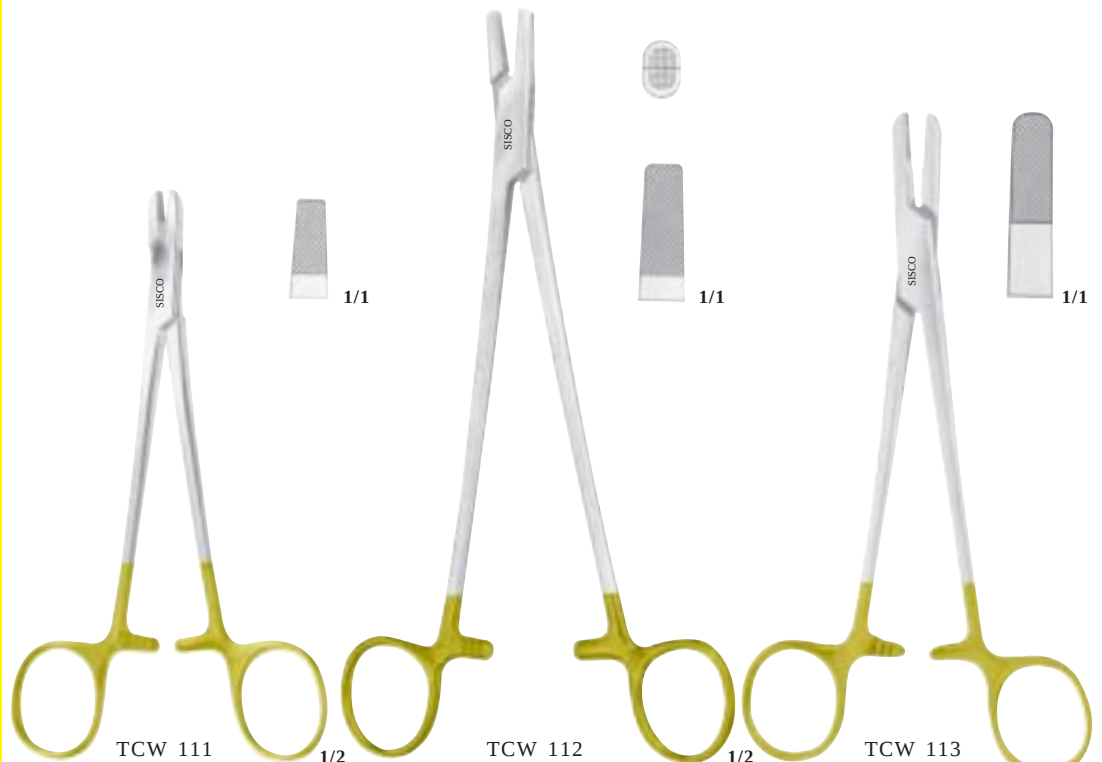
TCW 111



BAUMGARTNER

Wire twister
Ligature forceps
200 mm

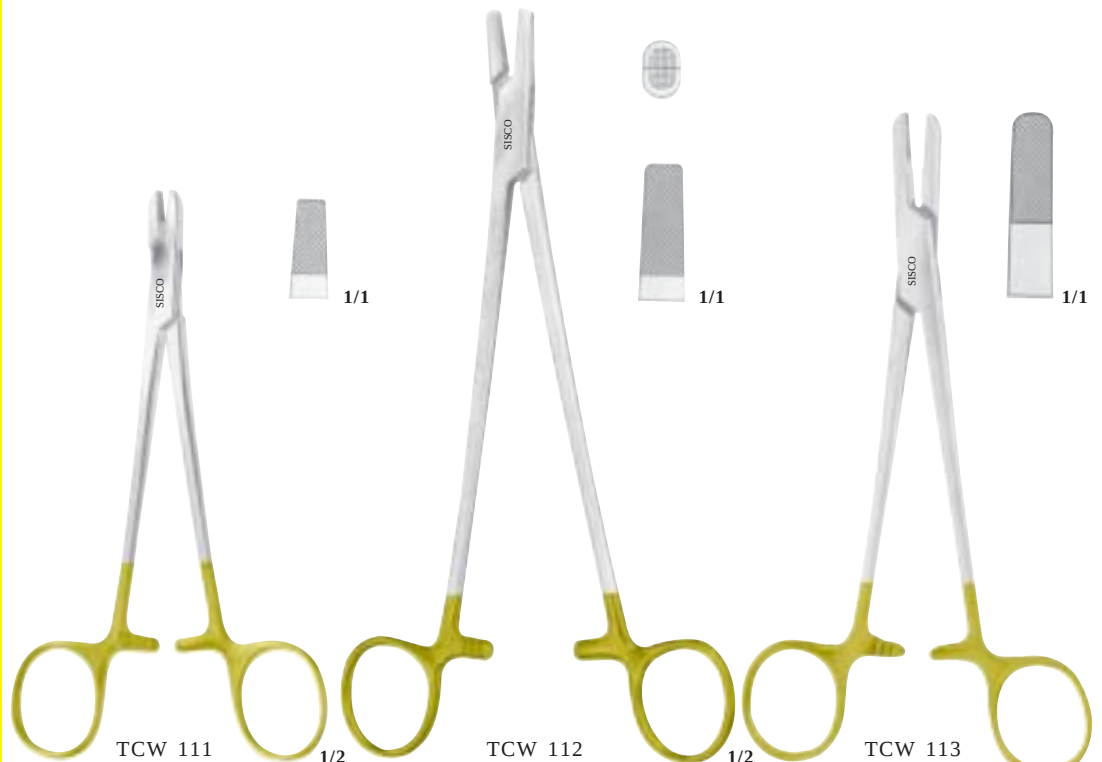
TCW 112



WIRE TWISTER

Ligature forceps
175 mm

TCW 113





Dissecting Forceps

ADSON
Dissecting Forceps
120 mm

TDF 151



1/2



1/1

TDF 151



1/2



TDF 154



1/1

TDF 156

FINE
Dissecting Forceps

TDF 154 - 145 mm

TDF 156 - 180 mm

FINE
Dissecting Forceps

TDF 157 - 200 mm

TDF 159 - 250 mm



1/2



TDF 157



1/1

TDF 159



1/2



1/1

TDF 158

FINE
Dissecting Forceps
230 mm

TDF 158



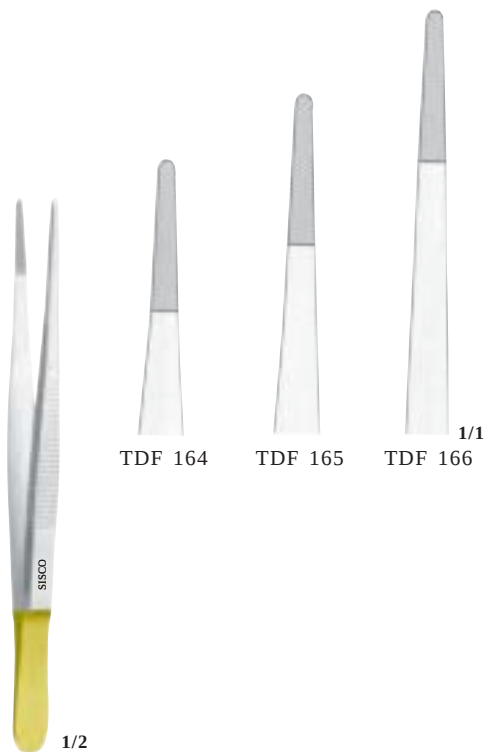
STANDARD

Dissecting Forceps

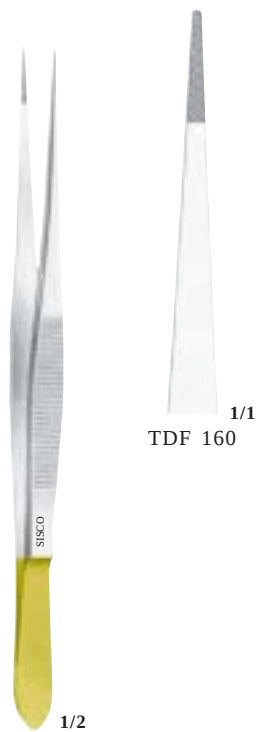
TDF 164 - 145 mm

TDF 165 - 200 mm

TDF 166 - 250 mm



Dissecting Forceps



CUSHING

Dissecting Forceps
180 mm

TDF 160

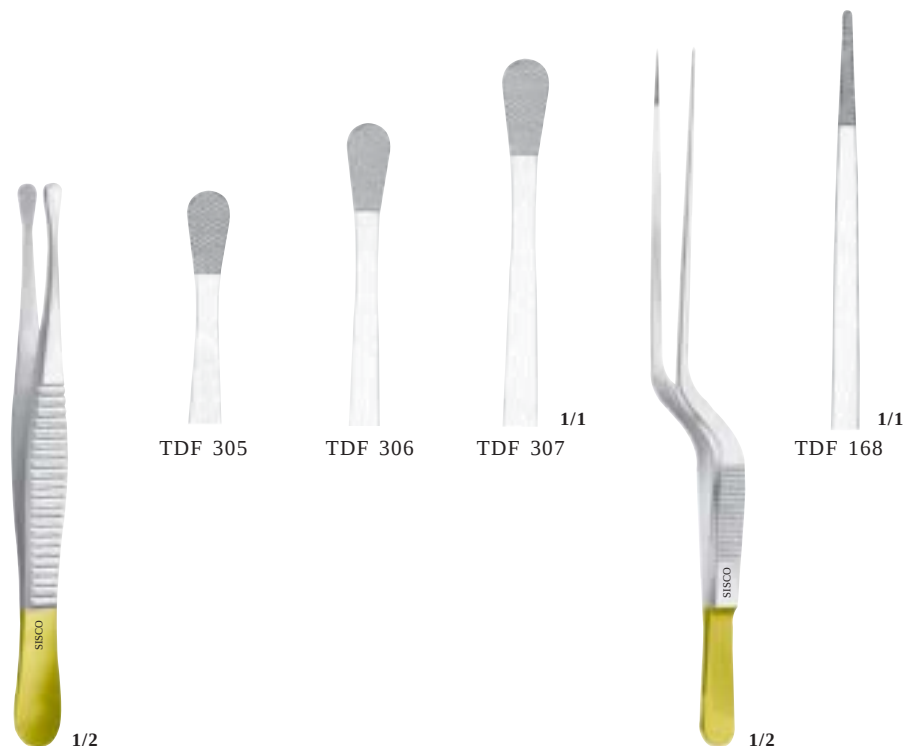
WANGENSTEEN

Dissecting Forceps

TDF 305 - 150 mm

TDF 306 - 230 mm

TDF 307 - 255 mm



GRUENWALD

Dissecting Forceps
185 mm

TDF 168

Dissecting Forceps

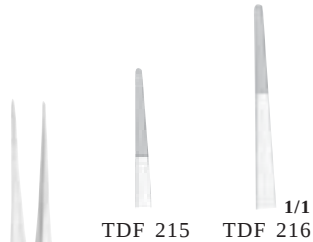


SEMKEN

Delicate Dissecting Forceps

TDF 215 - 125 mm

TDF 216 - 150 mm



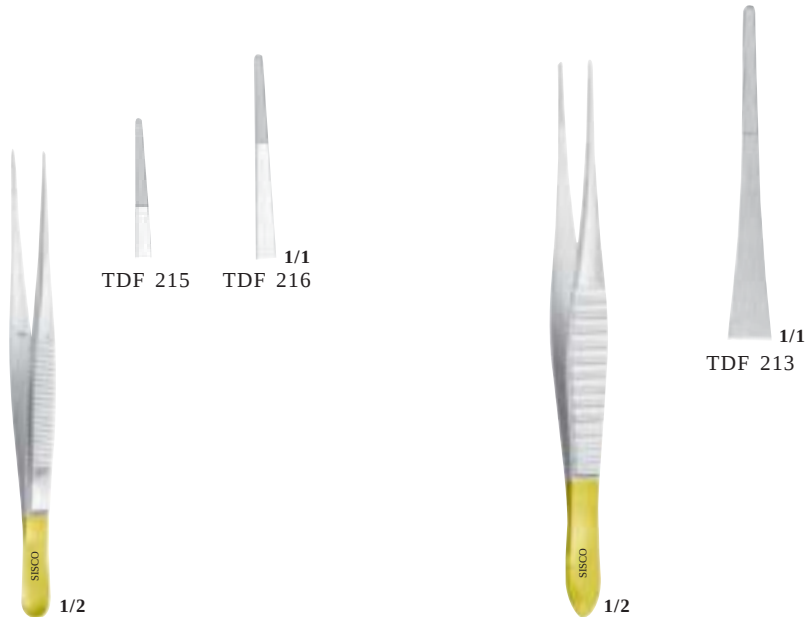
TDF 215

TDF 216

GILLIES

Delicate Dissecting Forceps
150 mm

TDF 213



TDF 213

MC INDOE

Delicate Dissecting Forceps
150 mm

TDF 245



TDF 245

ASH

Suture Forceps
(Cushion Shaped Tip
ensures a save and gentle
Grasping of the tread)
200 mm

TDF 180

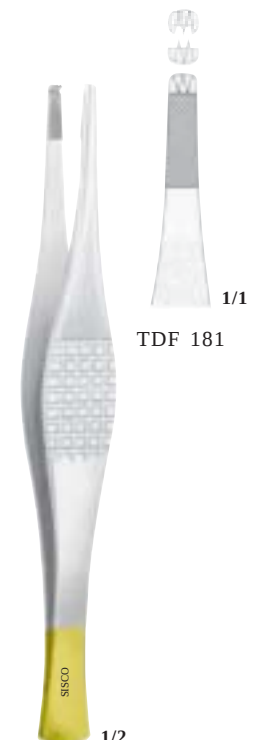


TDF 180

FERRIS - SMITH

Dissecting Forceps
175 mm

TDF 181



TDF 181



Needle Holders

CASTROVIEJO

Needle holder with catch
with smooth jaws
145 mm

TNH 001



CASTROVIEJO

Needle holder with catch
145 mm

TNH 002



WACHTEL

Needle holder with catch
170 mm

TNH 003



CASTROVIEJO

Needle holder with catch
180 mm

TNH 004



CASTROVIEJO

Needle holder with catch
215 mm

TNH 005



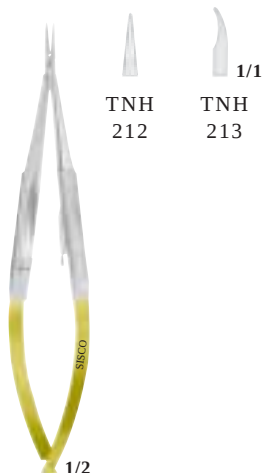


BARRAQUER

Needle holder
with catch
120 mm

TNH 212 - Straight

TNH 213 - Curved



JACOBSON

Needle holder
without catch
185 mm

TNH 618



CASTROVIEJO

Needle holder
without catch
185 mm

TNH 246 - Straight

TNH 247 - Curved



YASARGIL

Needle holder
without catch
200 mm

TNH 612 - Straight

TNH 613 - Curved



YASARGIL

Needle holder
without catch
225 mm

TNH 622 - Straight

TNH 623 - Curved





DERF
Needle holder
115 mm

TNH 812

HALSEY
Needle holder
with smooth jaws
120 mm

TNH 010

MASING
Needle holder
one ring angled
130 mm

TNH 009

CONVERSE
Needle holder
130 mm

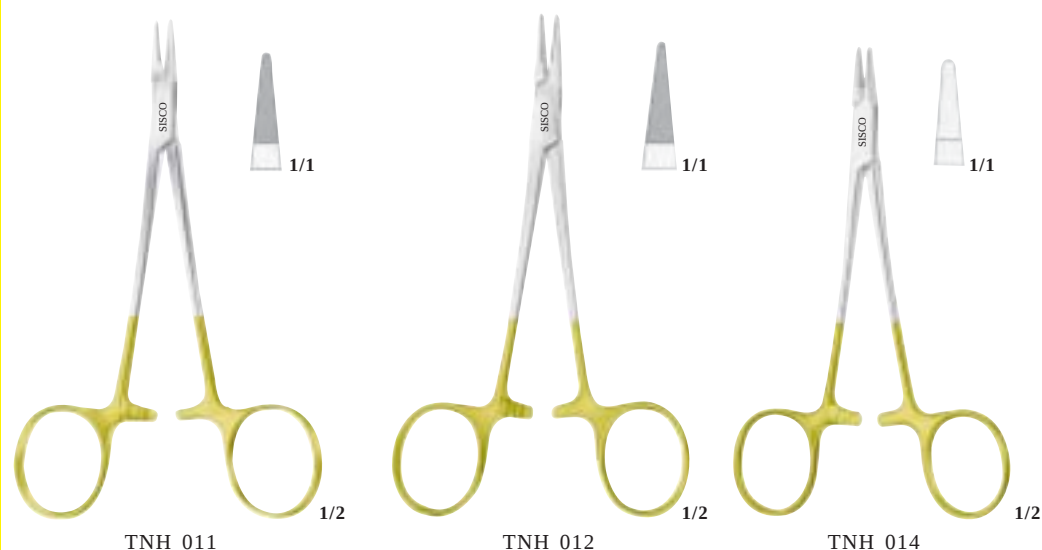
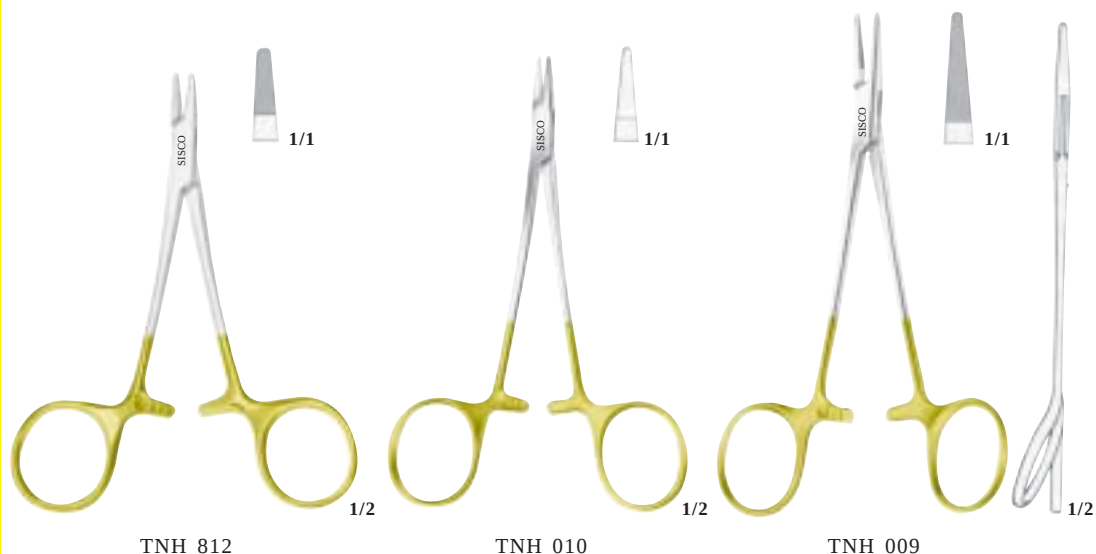
TNH 011

HALSEY
Needle holder
130 mm

TNH 012

WEBSTER
Needle holder
with smooth jaws
125 mm

TNH 014





KILNER

Needle Holder
135 mm

TNH 018

BAUMGARTNER

Needle Holder
145 mm

TNH 015

BABY-CRILE WOOD

Needle Holder
150 mm

TNH 013

HEANEY

Needle Holder
Curved on flat
200 mm

TNH 411

CRILE WOOD

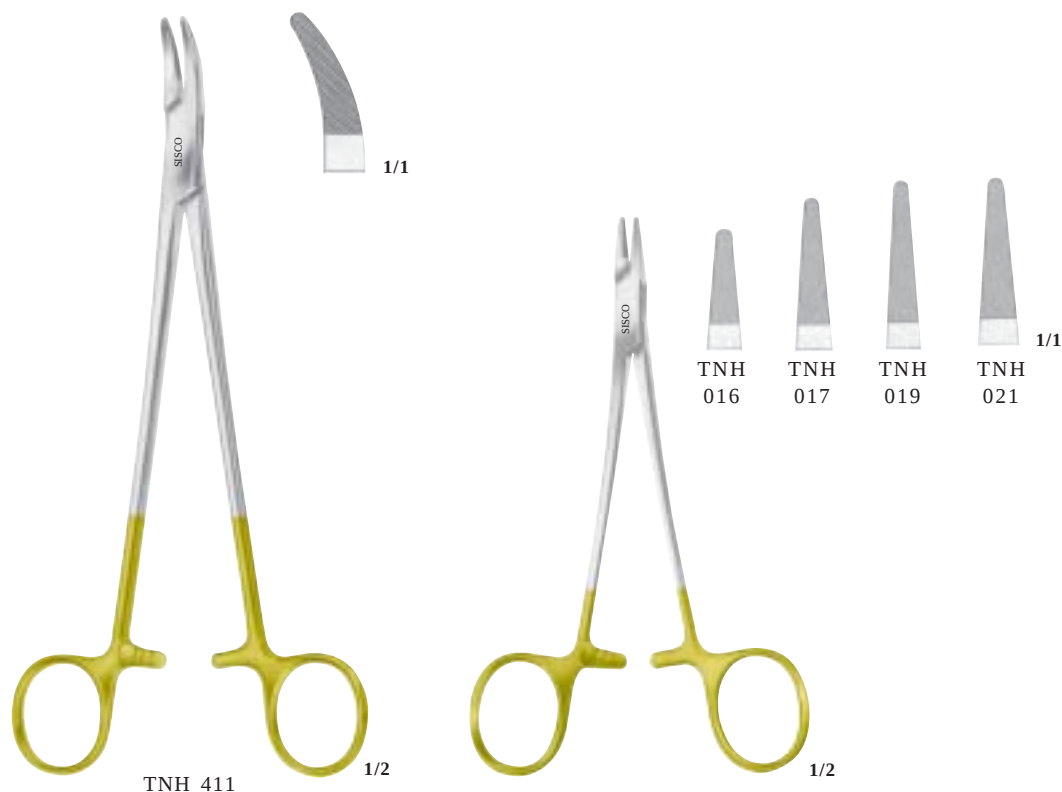
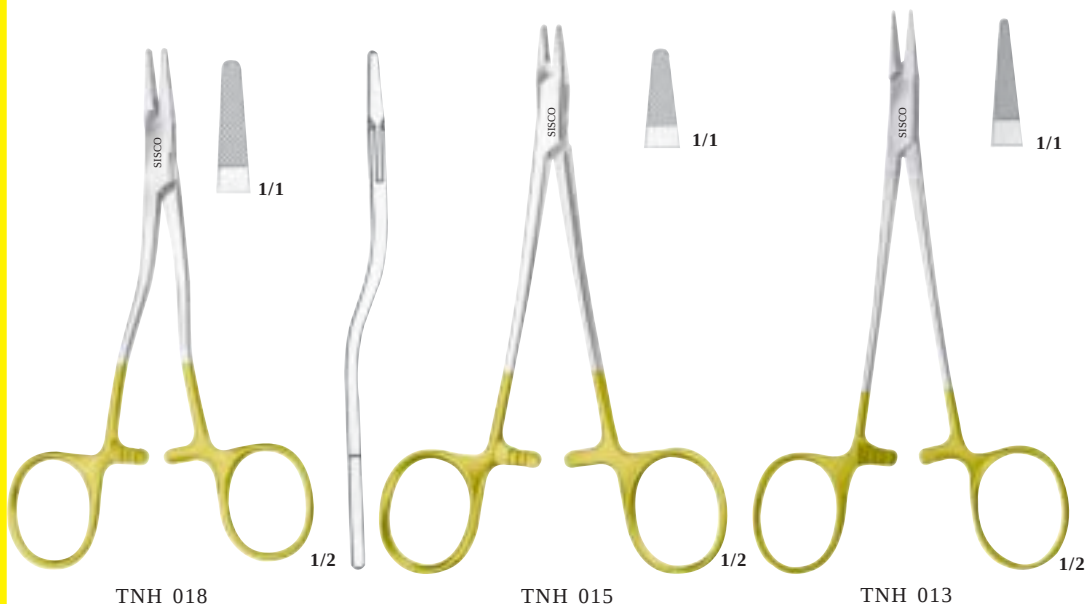
Needle Holder

TNH 016 - 145mm

TNH 017 - 180mm

TNH 019 - 200mm

TNH 021 - 305mm



Needle Holders



SAROT

Needle holder

TNH 020 - 175mm

TNH 023 - 260mm

MAYO - HEGAR

Needle holder

TNH 406 - 150mm

TNH 407 - 180mm

TNH 408 - 205mm

TNH 409 - 230mm

TNH 410 - 250mm

MAYO - HEGAR - SEELEY

Needle holder

TNH 022 - 200mm

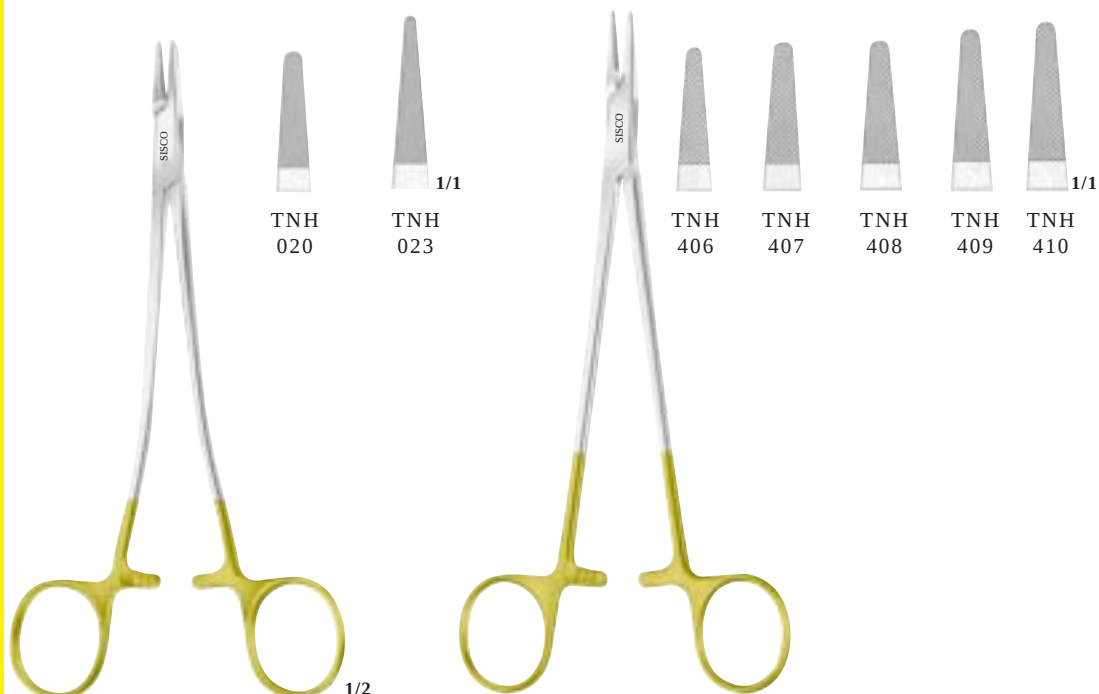
HEGAR

Needle holder

Heavy Pattern

TNH 418 - 205mm

TNH 419 - 230mm





Needle Holders

WANGENSTEEN

Needle Holder
275 mm

TNH 413



NAUNTON MORGAN

Needle Holder
260 mm

TNH 088



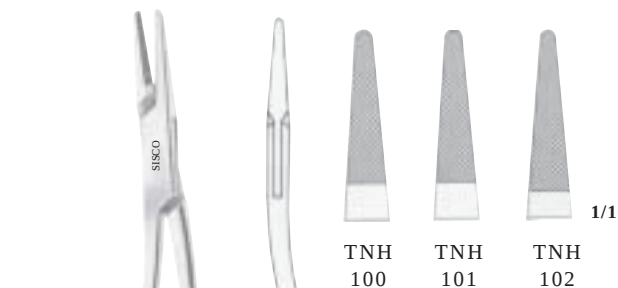
WERTHEIM

Needle Holder

TNH 100 - 200mm

TNH 101 - 240mm

TNH 102 - 300mm

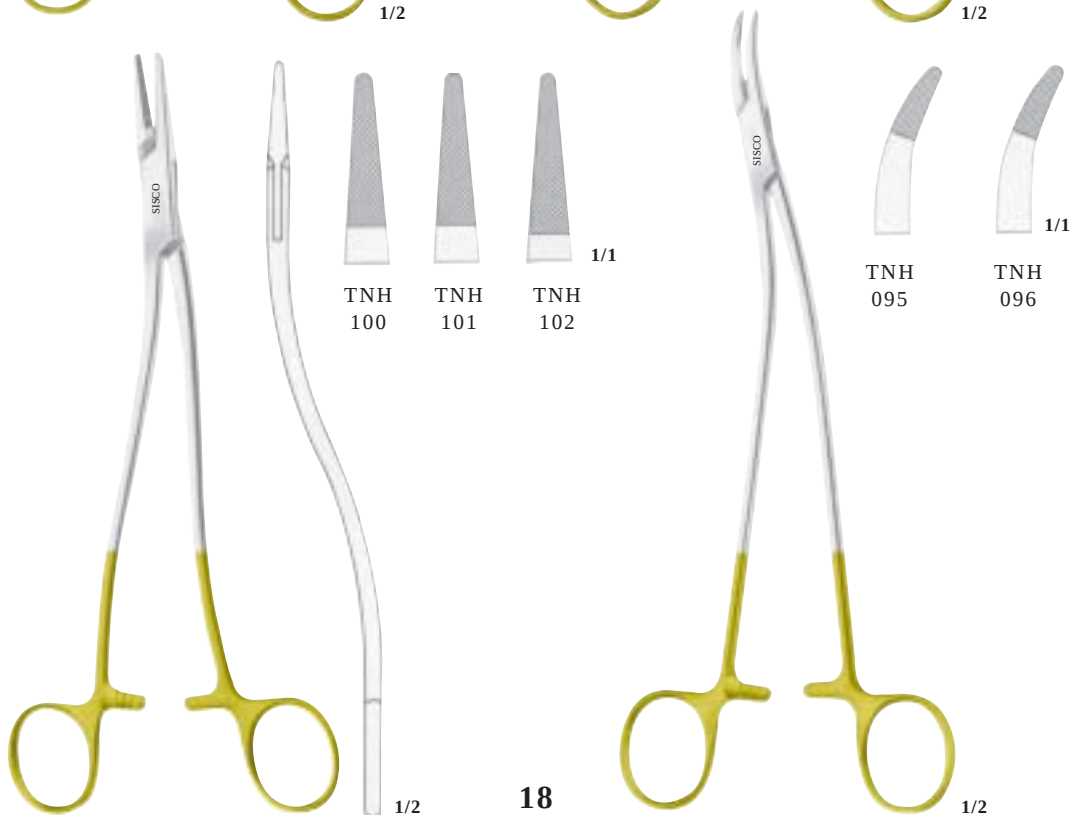


STRATTE

Needle Holder

TNH 095 - 210mm

TNH 096 - 230mm





Needle Holders

MASSON
Needle holder
265 mm

TNH 090



FINOCHIETTO
Needle holder
265 mm

TNH 412



SISCO
Needle holder
200 mm

TNH 184



RYDER
Needle holder
with smooth jaws
TNH 426P - 150mm
TNH 427P - 180mm
TNH 429P - 230mm



Needle Holders



RYDER

Needle holder

TNH 425 - 130mm

TNH 426 - 150mm

TNH 427 - 175mm

TNH 428 - 200mm

TNH 429 - 230mm

TNH 430 - 250mm

RYDER

Needle holder
very delicate

TNH 435 - 135mm

TNH 436 - 155mm

TNH 437 - 175mm

TNH 438 - 210mm

S - SHAPED

Needle holder
Curved
215mm

TNH 082

HELLBERG/KUPKA

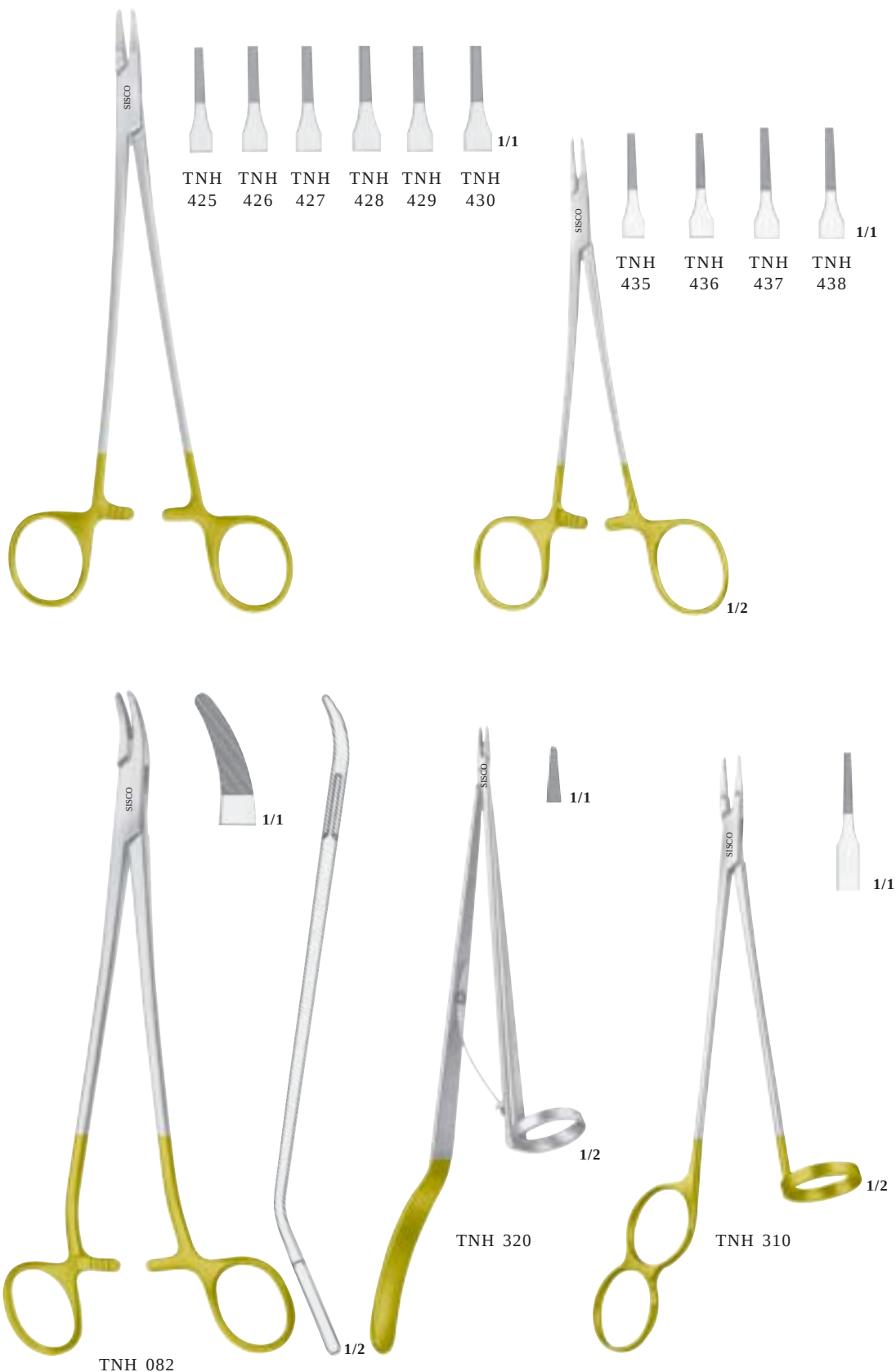
Needle holder
210 mm

TNH 320

REIN/KUPKA

Needle holder
190 mm

TNH 310





Needle Holders

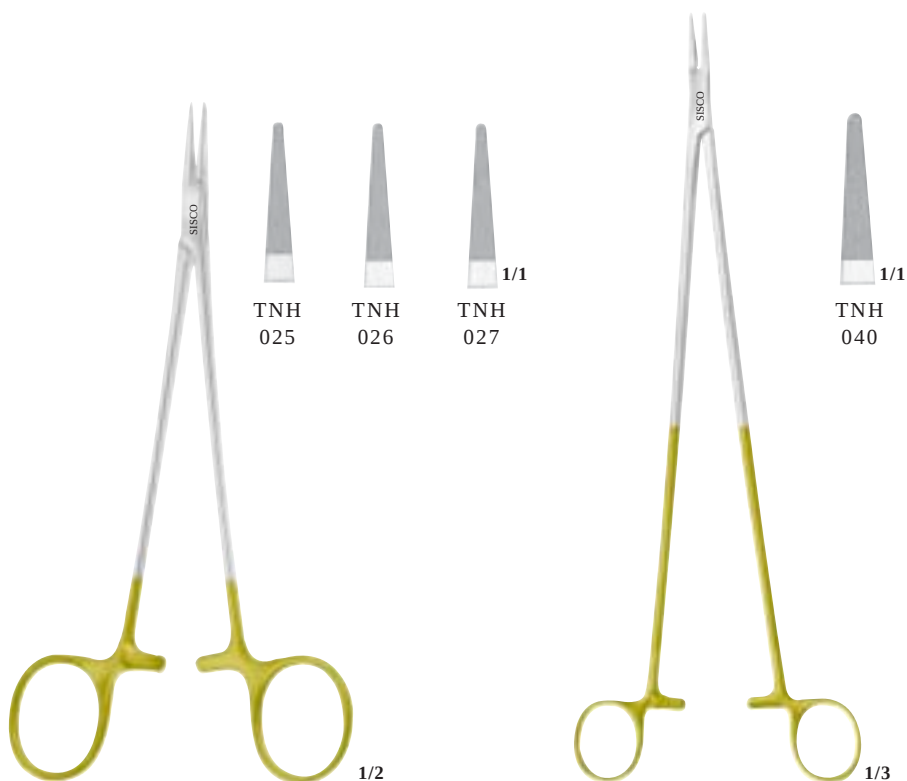
DEBAKEY

Needle holders
Very delicate

TNH 025 - 180mm

TNH 026 - 200mm

TNH 027 - 230mm



DEBAKEY

Needle holders
Slender Pattern

TNH 040 - 305mm

DEBAKEY

Needle holders
Standard

TNH 456 - 150mm

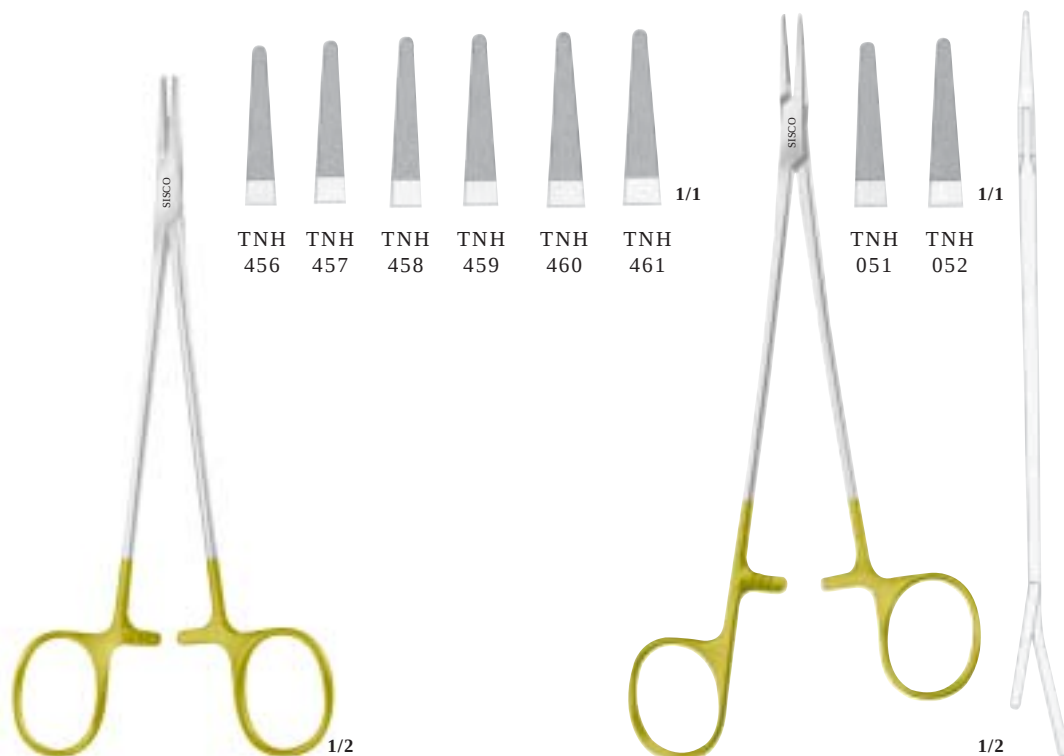
TNH 457 - 180mm

TNH 458 - 200mm

TNH 459 - 230mm

TNH 460 - 250mm

TNH 461 - 305mm



DEBAKEY

Needle holders
One extended handle
and curved rings ensure
optimum grip

TNH 051 - 195mm

TNH 052 - 245mm



Needle Holders

TONNIS
Needle Holder
elastic pattern
180 mm

TNH 183



TNH 183



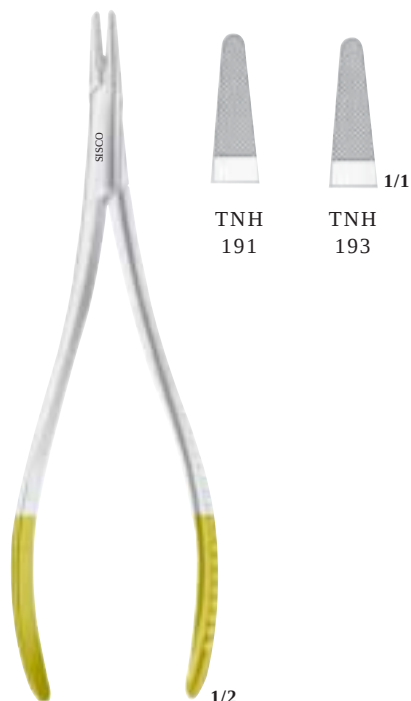
TNH 185

AXHAUSEN
Needle Holder
185 mm

TNH 185



TNH 186



TNH
191

TNH
193

TONNIS
Needle Holder
elastic pattern
180 mm

TNH 186

LANGENBECK
Needle Holder
TNH 191 - 180 mm
TNH 193 - 200 mm

Needle Holders



LICHTENBERG

Needle holder
elastic pattern
195 mm

TNH 132



LICHTENBERG

Needle Holder-screw joint
with long neck

TNH 165 - 205 mm

TNH 166 - 260 mm

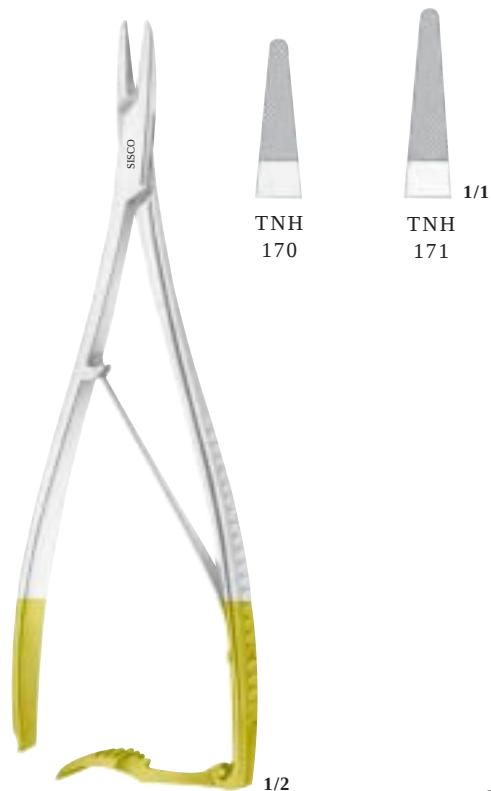


ZWEIFEL

Needle holder

TNH 170 - 200 mm

TNH 171 - 230 mm



ZWEIFEL

Needle holder
heavy pattern for
sternum suture
200 mm

TNH 172





Needle Holders

MATHIEU

Needle Holder
heavy pattern

TNH 156 - 200mm

TNH 158 - 245mm



HOSEL

Needle Holder-screw joint
with long neck
260 mm

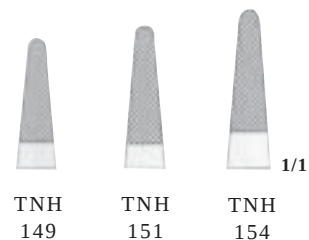
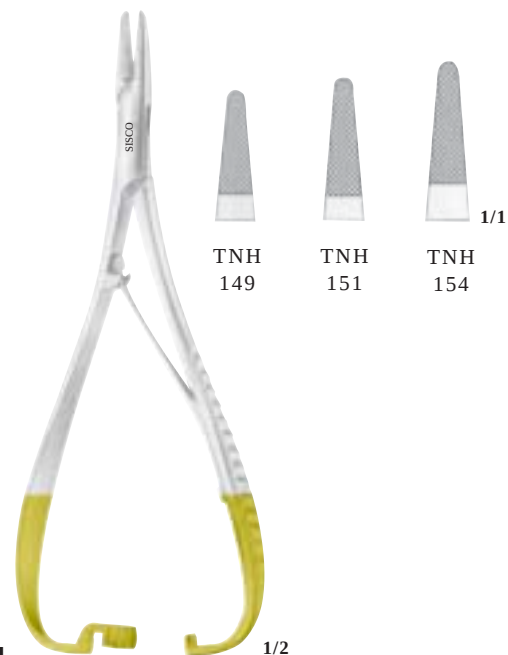
TNH 168

LANGENBECK

Needle Holder

TNH 196 - 200mm

TNH 198 - 240mm



MATHIEU - STANDARD

Needle Holder

TNH 149 - 140 mm

TNH 151 - 170 mm

TNH 154 - 200 mm

Wire Cutting Pliers



WIRE CUTTING PLIER

For soft wire up to
0.9mm diam.
170 mm

TCW 149

WIRE CUTTING PLIER

For soft wire up to 2.0mm diam.
For hard wire up to 1.5mm diam.
145 mm

TCW 150

REILL

Wire cutting plier

For soft wire up to 2.0mm diam.
For hard wire up to 1.6mm diam.
175 mm

TCW 159

WIRE CUTTING PLIER

For soft wire up to 1.5mm diam.
For hard wire up to 1.0mm diam.
145 mm

TCW 520



TCW 149



TCW 150



TCW 159



TCW 520

Wire Cutting Pliers



WIRE CUTTING PLIER

For soft wire up to 3.5mm diam.
For hard wire up to 2.0mm diam.
220mm

TCW 152



DUROTIP

Wire Cutting Plier
with carbide cutting edges
For soft wire up to 2.0mm diam.
For hard wire up to 1.6mm diam.
240mm

TCW 162





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TNH 185	22	TNH 623	14
TNH 186	22	TNH 812	15
TNH 191	22		
TNH 193	22		
TNH 196	24		
TNH 198	24		
TNH 212	14		
TNH 213	14		
TNH 246	14		
TNH 247	14		
TNH 310	20		
TNH 320	20		
TNH 406	17		
TNH 407	17		
TNH 408	17		
TNH 409	17		
TNH 410	17		
TNH 411	16		
TNH 412	19		
TNH 413	18		
TNH 418	17		



Contact Corrosion
caused due to preparation
on brass rack



Discolouration caused
due to impurities in
water vapour / steam

Fretting Corrosion
caused due to insufficient
treatment with
LUBRICATING oil



11 - Conditions for Sterilisation

- Do not overload instruments trays with more than 10 Kgs.
- Do not mix old instruments with new instruments.
- Micro and delicate instruments should be placed in secure containers.

12 - Sterilisation

- If all necessary steps prior to sterilisation have been followed - PROCEED.
- Use demineralised water if possible / Quality of water / steam is very important.
- Excessive silicates in water cause blackening of instruments.
- Excessive chlorides can set in corrosion in instruments (level of chlorides should be less than 120mg / l equiv to 200mg / l of nacl).
- Optimal loading of trays prevents formation of condensates.

10 - Maintenance of Instruments

- Periodically lubricate hinged / ratcheted instruments and instruments with joints, lubricating oil.
- Inspect edges of cutting instruments and sharpen if required. Inspect instruments with carbide tips for wear and tear. replace tips if required.
- Always maintain correct organisation of instruments in terms of size / old or new / large
- bulky instruments / micro delicate instruments.

9 - Care of Instruments

- Ensure all instruments are clean.
- Check functionality of individual instruments.
- Separate instruments which are not functioning correctly / show signs of corrosion / wear & tear.

8 - Drying

- Instruments should be dried immediately after rinsing / washing.
- Use of air pistol is recommended where ever possible.
- Use lint free paper / cloth to wipe.

7 - Washing

- Periodically test water for its chloride / silicate and mineral content.
- Use of enzyme based detergents is recommended and instructions for dilutions as recommended by the supplier should be followed. If powdered products are being used - particles should be dissolved.
- Final rinsing should be done in demineralised water.

RECOMMENDED PREVENTION OF CORROSION OF SURGERY INSTRUMENTS



Encrustations due to non
removal of organic
residues because of
improper / insufficient cleaning



Water Spots due to
high mineral content
in water



Crevice Corrosion caused
by destruction of natural
coating of steel due to
mechanical / chemical damage

caused
by
team



Breaking due to
Stress Corrosion
caused by chlorides



Spots resulting from
Improper
Pre - rinsing / washing

1 - Specifications for Buying

- Choise of material ! / Does it fit the requirements ?
- Certificate of quality from the manufacturer.
- Choice of surface finish.

2 - Storing of Instruments

- Avoid any corrosive fumes / chemicals in storage area.
- Avoid area of high moisture to store instruments
- Brand new instruments should be cleaned / protective caps removed.
- Appropriate RACKS/CONTAINERS should be used to store instruments.

Deposition due to
caustic solution
containing chlorides



3 - Usage

- Clean the instruments after every use.
- Avoid prolonged exposure to saline.
- Sterilise USED and UNUSED instruments.

4 - Preparation for Disinfection & Cleaning

- Check the correctnes of the delivery.
- Returning of instruments from OT:-
Dry instruments should be returned in dry condition.
Returning instruments in wet condition:-
Instruments should be immersed in non corrosive combined disinfecting cum cleaning solutions.
- All hinges / ratches of instruments should be released .Breakpart instruments should be dismantled.



Effect of prolonged
immersion in physiological
saline

6 - Pre - Disinfection

- Use cold water only. Water over 45°C leads to coagulation of proteins and causes cleaning problems.
- Epidemic Hygiene Aspect - disinfection first followed by cleaning.
General Hygiene Aspect - first cleaning followed by disinfection.
- Follow exposure times / dilution parameters / concentration levels as recommended by the manufacturer for optimal cleaning / disinfection. pH value of 4.5 to 9.5 is recommended for cleaning and disinfection solutions.
- Ultrasonic cleaners may be used in case of stubborn stains / encrustations.

5 - Re Using Instuments

- Dismantle and immediately immerse USED and SOLIED instruments, completely in a predisinfection bath.
- Use containers which are hermetically sealed during the process of thermal disinfection and cleaning. It is done at 93°C for approx 10 min. For heat sensitive metarial chemo thermal disinfection is done at 60°C for approx 10 min.
- Open the containers at 60°C or lower

ed due to
passive
e to
estruction



Pitting due to Chlorides



Encrustation of
blood due to improper
washing / rinsing

ATIONS FOR F CORROSION NSTRUMENTS