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INSTRUMENTS
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SkullFix™ Cranial Stabilization System & Halo Retractor System

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Skullfix
Cranial Stabilization System
& Halo Retractor System

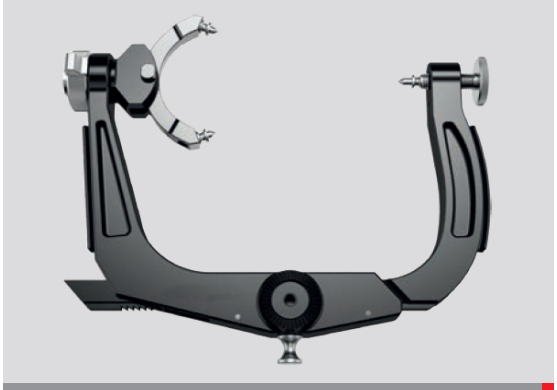


SkullFix™ Cranial Stabilization System

SURTEX
Skullfix
Cranial Stabilization System
& Halo Retractor System

More stability with high-grade materials

SkullFix™ Cranial Stabilization Systems are resistant to high forces thanks to using hard aluminum alloys. The system is designed for the ultimate stability in order to increase surgery efficiency. Spring loaded pins help determine the compression forces applied to the skull and this allows surgeons to perform more precise operations for adult and pediatric applications.



NS-030-53

Skull Clamp (Rigid)
3 Point rigid cranial fixation



SkullFix™ Cranial Stabilization System

Spring Loaded Pins

More precise operations with spring loaded pins.

Spring loaded pins are designed for the optimal compression of the skull during the fixation and for the less penetration of the pointed ends. It limits the pressure applied to the skull: between 9 kg (20 lb) and 27 kg (60 lb).

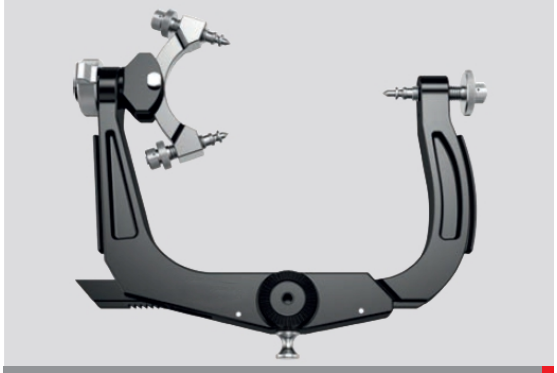
Pressure Indicator

The indicator on the back of the pins allows surgeons to control the amount of pressure applied to the skull.



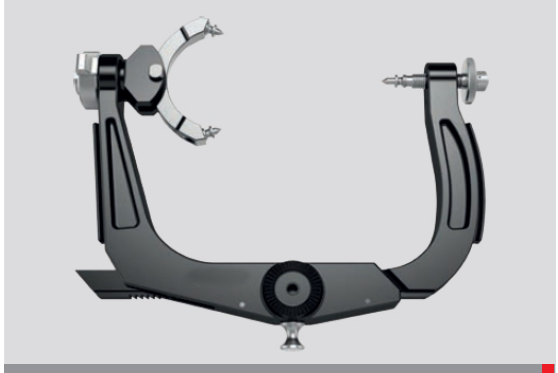
9,18,27 Kg / 20,40,60 lb

Pressure is adjustable between:
9 kg (20 lb) and 27 kg (60 lb).



NS-030-54

Skull Clamp (Adjustable)
3 Point spring loaded pin



NS-030-55

Skull Clamp (Adjustable)
Single Point spring loaded pin



COMPLETE SET

1 x NS-030-51
1 x NS-030-52
1 x NS-030-53
1 x NS-030-56
2 x NS-030-57
1 x NS-030-58
Complete Set NS-030-50

SkullFix™ Cranial Stabilization System

Key Features

- The distance between the fixation arms can be adjusted with the towing pin which is situated on the main body of the system.
- The rails located on the fixation arms simplify the assembly of the halo ring and flexible retractor arms.
- Connection components are compatible with all type of operating tables and can be adjusted for supine, prone, side-lying and seated positions.



NS-030-57

Universal Side Rail Fitting



NS-030-58

Crossbar Adaptor

Adjustable Rod

Connection rods can be adjusted by using Allen key for all type of operation tables.



NS-030-51 K
Allen Key

SkullFix™ Cranial Stabilization System

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Cranial Stabilization System
& Halo Retractor System

Connection Component



NS-030-52

Swivel Adaptor



NS-030-51

Base Unit (Rod System)



NS-030-60

Base Unit (Rail System)



NS-030-56

Positioning Arm



NS-030-59

Side Rail/Table Adaptor

COMPLETE SET

- 1 x NS-030-52 RL
- 1 x NS-030-53 RL
- 1 x NS-030-56 RL
- 1 x NS-030-60 RL

Complete Set NS-030-50 RL



SkullFix™ Cranial Stabilization System
Radiolucent Headrest System

Ultimate permeability to CT, DSA and X-Ray imaging systems

- XSC Radiolucent Headrest System is made from polymeric materials. Therefore this provides ultimate permeability to CT, DSA and X-ray imaging systems. XSC Radiolucent Headrest System can be sterilized by autoclaves.



NS-030-53 RL

Radiolucent Skull Clamp
3-point rigid cranial fixation

NS-030-54 RL

Radiolucent Skull Clamp (Adjustable)
Single point spring loaded pin



SkullFix™ Cranial Stabilization System
Radiolucent Headrest System

SURTEX Skullfix
Cranial Stabilization System
& Halo Retractor System

Connection Component



NS-030-56 RL

Positioning arm



NS-030-52 RL

Swivel Adaptor



NS-030-51 RL

Base Unit (Rod System)



NS-030-60 RL

Base Unit (Rail System)



COMPLETE SET

- 1 x NS-030-51
- 1 x NS-030-52
- 1 x NS-030-56
- 4 x NS-030-62 SA
- 4 x NS-030-62 SP
- 1 x NS-030-71
- 1 x NS-030-72
- 1 x NS-030-73
- 1 x NS-030-74 A
- 1 x NS-030-74 P
- 2 x NS-030-75 A
- 2 x NS-030-75 P
- 1 x NS-030-76 A
- 1 x NS-030-76 P

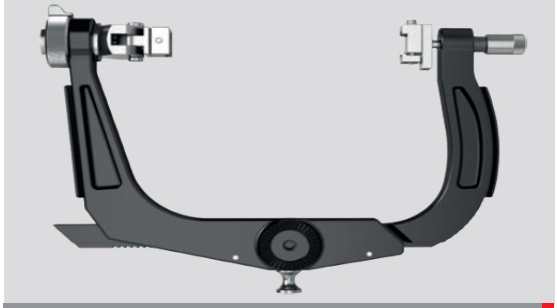
Complete Set NS-030-70

SkullFix™ Cranial Stabilization System
Multi-Purpose Headrest System

For both invasive and non-invasive surgical procedures.

Multi-purpose headrest system has gel positioning pads in different size and shapes to protect and support the patient's head in a variety of surgical procedures.

SURTEX Skullfix
Cranial Stabilization System
& Halo Retractor System



NS-030-71

Multi-Purpose Skull Clmap
Single point spring loaded pin



NS-030-72

Head Support Adaptor





NS-030-73

Single Pin Holder



NS-030-74 P

Dual Pin Holder (Pediatric)



NS-030-74 A

Dual Pin Holder (Adult)

SkullFix™ Cranial Stabilization System
Multi-Purpose Headrest System

SURTEX Skullfix
Cranial Stabilization System
& Halo Retractor System

Gel Positioning Pads



NS-030-75 P	Pediatric 90 mm
NS-030-75 A	Adult 140 mm

Gel Ear Pad



NS-030-76 P	Pediatric 90 mm
NS-030-76 A	Adult 140 mm

Gel Head Pad



NS-030-77 RP	Pad Right	NS-030-77 RA	Pad Right
NS-030-77 LP	Pad Left	NS-030-77 LA	Pad Left
NS-030-78 P	Extension Bar	NS-030-78 A	Extension Bar
NS-030-80 P	Complete Set	NS-030-80 A	Complete Set

Horsehoe Pad (Pediatric)

Horsehoe Pad (Adult)



NS-030-78 P

Horsehoe Extension Bar (Pediatric)

NS-030-78 A

Horsehoe Extension Bar (Adult)

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SkullFix™ Cranial Stabilization System

SURTEX Skullfix

Cranial Stabilization System
& Halo Retractor System

Different pin options for all type of procedures.

- The pins are manufactured from 3 different kinds of metals: stainless steel, titanium and aluminum.
- All pins are sterilizable, long-lasting and durable. In the cranial stabilization set, there are 8 pins available (4 for pediatric, 4 for adult applications).



SkullFix™ Cranial Stabilization System



NS-030-62 SP

Pin Pediatric (Stainless Steel)
For aluminum skull clamps



NS-030-62 SA

Pin Adult (Stainless Steel)
For aluminum skull clamps



NS-030-62 TP

Pin Pediatric (Titanium)
For radiolucent skull clamps



NS-030-62 TA

Pin Adult (Titanium)
For radiolucent skull clamps



NS-030-62 AP

Aluminum Pin (Pediatric, Titanium)



NS-030-62 AA

Aluminum Pin (Pediatric, Adult)



COMPLETE SET

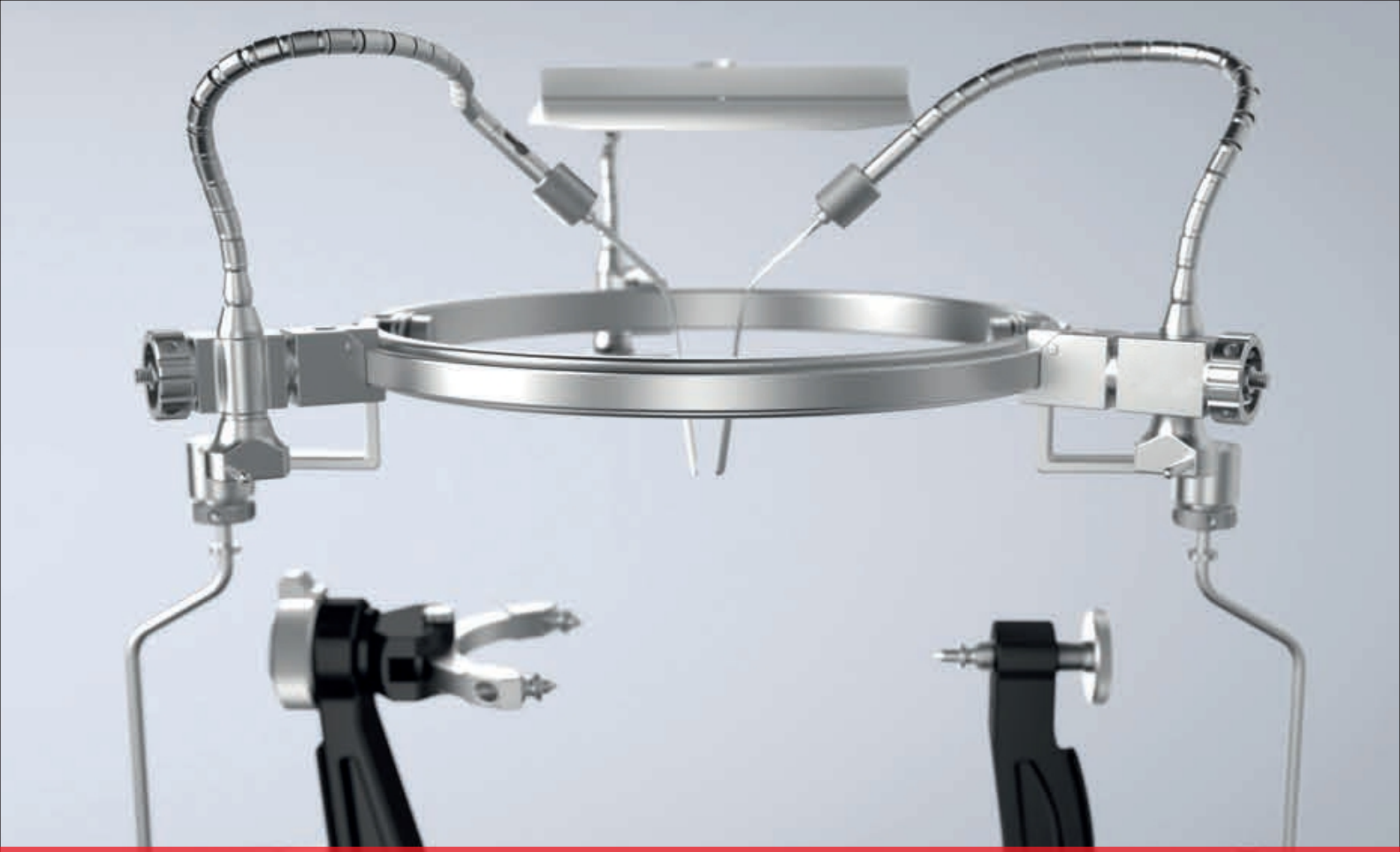
1 x NS-030-102
2 x NS-030-104
2 x NS-030-106
3 x NS-030-113
2 x NS-030-130 RL
1 x NS-030-169
1 x NS-030-170
Complete Set NS-030-100

SkullFix™ Cranial Stabilization System
Halo Retractor System

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Cranial Stabilization System
& Halo Retractor System

360 degrees of uninterrupted extraction in brain surgery.

- Halo Retractor System is designed to attach directly to operating table or headrest systems. The system allows the retractor arms to rotate 360 degrees for ultimate flexibility.



SkullFix™ Cranial Stabilization System
Halo Retractor System

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& Halo Retractor System



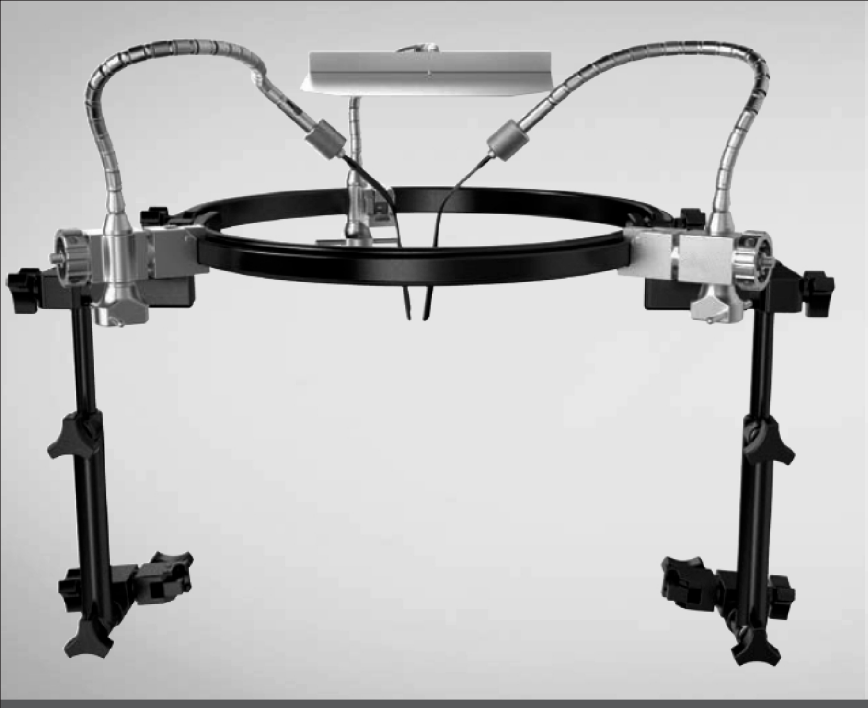
NS-030-102

Halo Ring



NS-030-104

Halo Desktek Mili



COMPLETE SET

- 1 x NS-030-102 RL
- 1 x NS-030-104 RL
- 3 x NS-030-113
- 2 x NS-030-130 RL
- 1 x NS-030-169
- 1 x NS-030-170

Complete Set NS-030-100 RL

SkullFix™ Cranial Stabilization System
Radiolucent Halo Retractor System

SURTEX Skullfix
Cranial Stabilization System
& Halo Retractor System

Radiolucent Halo Retractor

- Radiolucent Halo Ring & support rods are made from polymeric materials. Therefore this provides ultimate permeability to CT, DSA and X-ray imaging systems. Radiolucent Halo Ring & support rods can be sterilized by autoclaves.

Components



NS-030-102 RL

Halo Ring (Radiolucent)



NS-030-104 RL

Halo Support Rods (Radiolucent)
Right and Left Rods

Assembly
of the rail clamp to the skull clamp





SkullFix™ Cranial Stabilization System
Halo Retractor System

SURTEX Skullfix
Cranial Stabilization System
& Halo Retractor System



NS-030-106

Rail Clamp
Rail clamp is attached to the side arm rails of the skull clamp.



NS-030-108

Body Clamp
Body clamp is attached to the side arm canals of the skull clamp.



Side Arm Canal



SkullFix™ Cranial Stabilization System
Halo Retractor System

Flexible Retractor Arms

- Flexible retractor arms are mounted directly to the halo ring or the side arms of a skull clamps. The stability of the arms can be adjusted with the tension screw. For ultimate flexibilty, the arms can rotate 360 degrees on their axes. On the flexible retractor arms, there is a socket system which allows the surgeon to interchange retractor blades during operation.

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Cranial Stabilization System
& Halo Retractor System



150 mm	NS-030-110
200 mm	NS-030-111
230 mm	NS-030-112
280 mm	NS-030-113
300 mm	NS-030-114
350 mm	NS-030-115
420 mm	NS-030-116

Flexible Retractor Arms







SkullFix™ Cranial Stabilization System
Halo Retractor System

SURTEX Skullfix
Cranial Stabilization System
& Halo Retractor System

Direct assembly of Halo Retractor to the operating table



NS-030-120

Connection Rod



NS-030-122

Table Support Rod



NS-030-57

Universal Side Rail Fitting



SkullFix™ Cranial Stabilization System
Halo Retractor Blades

Halo Retractor Blades



100 x 6 mm	NS-030-131
100 x 10 mm	NS-030-132
100 x 13 mm	NS-030-133
100 x 16 mm	NS-030-134
100 x 19 mm	NS-030-135
100 x 25 mm	NS-030-136
Complete Set	**NS-030-130**

Straight Blades

150 x 6 mm	NS-030-141
150 x 10 mm	NS-030-142
150 x 13 mm	NS-030-143
150 x 16 mm	NS-030-144
150 x 19 mm	NS-030-145
150 x 25 mm	NS-030-146
Complete Set	**NS-030-140**

Straight Blades

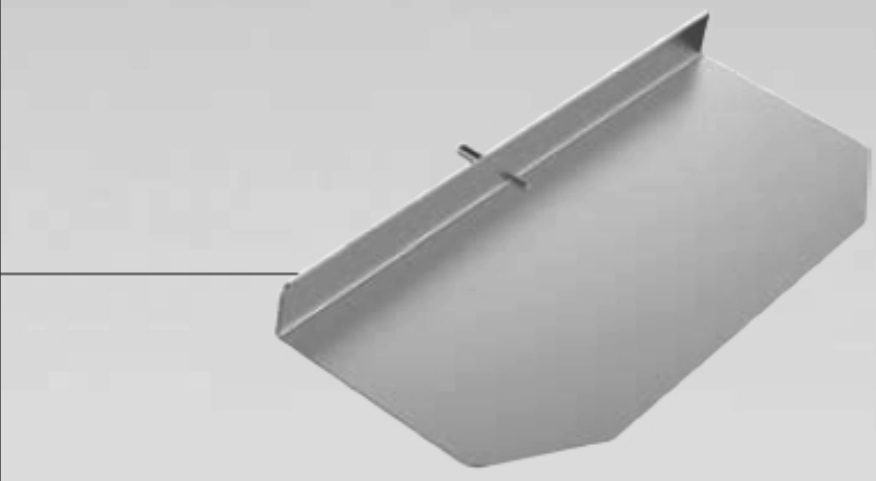


100 x 2 mm	NS-030-151
100 x 3 mm	NS-030-152
100 x 4 mm	NS-030-153
100 x 5 mm	NS-030-154
100 x 6 mm	NS-030-155
Complete Set	**NS-030-150**

Conical Blades

150 x 2 mm	NS-030-161
150 x 3 mm	NS-030-162
150 x 4 mm	NS-030-163
150 x 5 mm	NS-030-164
150 x 6 mm	NS-030-165
Complete Set	**NS-030-160**

Conical Blades



NS-030-169

Halo Pattie Tray

Brain Retractor Blades

Brain retractor blades are made from soft metal to be pliable for the desired position in extraction. They are offered in two different types, black coated or matte grey, to avoid reflection effect during an operation.

SkullFix™ Cranial Stabilization System
Radiolucent Halo Retractor Blades

Brain Retractor Blades



100 x 6 mm	NS-030-131 RL
100 x 10 mm	NS-030-132 RL
100 x 13 mm	NS-030-133 RL
100 x 16 mm	NS-030-134 RL
100 x 19 mm	NS-030-135 RL
100 x 25 mm	NS-030-136 RL
Complete Set	NS-030-130 RL

Straight Blades (Black Coated)

150 x 6 mm	NS-030-141 RL
150 x 10 mm	NS-030-142 RL
150 x 13 mm	NS-030-143 RL
150 x 16 mm	NS-030-144 RL
150 x 19 mm	NS-030-145 RL
150 x 25 mm	NS-030-146 RL
Complete Set	NS-030-140 RL

Straight Blades (Black Coated)



100 x 2 mm	NS-030-151 RL
100 x 3 mm	NS-030-152 RL
100 x 4 mm	NS-030-153 RL
100 x 5 mm	NS-030-154 RL
100 x 6 mm	NS-030-155 RL
Complete Set	NS-030-150 RL

Conical Blades (Black Coated)

150 x 2 mm	NS-030-161 RL
150 x 3 mm	NS-030-162 RL
150 x 4 mm	NS-030-163 RL
150 x 5 mm	NS-030-164 RL
150 x 6 mm	NS-030-165 RL
Complete Set	NS-030-160 RL

Conical Blades (Black Coated)



115 x 2 mm	**NS-030-171**
115 x 4 mm	**NS-030-172**
140 x 2 mm	**NS-030-173**
140 x 4 mm	**NS-030-174**
165 x 2 mm	**NS-030-175**
165 x 4 mm	**NS-030-176**
Complete Set	**NS-030-170**

Micro Blades (Straight)



3 x 9,5 mm	**NS-030-181**
5 x 16 mm	**NS-030-182**
6,5 x 20 mm	**NS-030-183**
8 x 25,5	**NS-030-184**
Complete Set	**NS-030-180**

Micro Blades (Tapered)



115 x 2 mm	**NS-030-191**
115 x 4 mm	**NS-030-192**
140 x 2 mm	**NS-030-193**
140 x 4 mm	**NS-030-194**
165 x 2 mm	**NS-030-195**
165 x 4 mm	**NS-030-196**
Complete Set	**NS-030-190**

Micro Blades (Curved)



115 x 2 mm	**NS-030-201**
115 x 4 mm	**NS-030-202**
140 x 2 mm	**NS-030-203**
140 x 4 mm	**NS-030-204**
165 x 2 mm	**NS-030-205**
165 x 4 mm	**NS-030-206**
Complete Set	**NS-030-200**

Micro Blades (Curved Hook)

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