

# LABORATORY INSTRUMENTS



## THE WINNING FORMULA: ADVANCED SKILLS AND TECHNIQUES

For unexpected results in which impressions are transformed into successful dental prostheses, the

behind-the-scenes work of a qualified dental technician is fundamental. Based on detailed prescriptions that include anatomical and functional information, the job of any technician is a mix of technical expertise, artistic skills, state-of-the-art materials and precise instruments to carefully create crowns, bridges, partial prostheses, and removable and full dentures.

SS Dental Laboratory instruments range from highly versatile articulators to a wide range of accessories and precise modelling instruments; all necessary to shape materials and help dentists restore the function and aesthetics of a patient's mouth.



## ARTICULATORS

## Average values

5050 and 5050PLUS are non-Arcon average value articulators designed to simplify and speed up work on any plaster and meet professional demands for high precision regardless of the prosthetic technique. Their light, stable and ergonomic construction facilitates set-up and work on any cast, starting from the upper arch or the lower one, with the option to work comfortably, inclining the articulator 60 degrees. These articulators make it possible to perfectly simulate the condylar path to ensure the precision that gives prostheses and dental restorations optimal functionality and occlusion, whatever the patient's mandibular movement.

The 5050 articulator can efficiently work with prostheses of many different sizes and any electronic pressure polymerizers available on the market. Designed for optimal ergonomics, it offers complete stability when the technician comfortably works at 60° or upside down, in case of class III edentulous patients.

The anti-rotational system for the incisal guide rod ensures that positioning is always correct and accurate, while the bearing rod ensures stability when the upper part is completely open. The occlusal table and the mounting jigs have 4 elliptical reference lines to help properly position the plaster regardless of size, whether starting from the upper or lower arch.

## FEATURES

- Stable 60° operation for ergonomic comfort
- Ideal for class III patients
- Compatible with all commercially available pressure polymerizers
- Anti-rotation system for the incisal guide rod
- Mounting jig with 4 elliptic guides for lower arch models
- Occlusal table with 4 elliptic guides for upper arch models
- Bearing rod for stability when fully open
- Anti-shock protection system

## Technical data

Intercondylar distance	110 mm
Condylar inclination fixed at	30°
Bennett angle	0 - 7°
Incisal table inclination	10°
Distance between mounting plates	87 mm
Opening	180°

## Equipment:

4 mounting plates	5000-1
2 locking knobs	5011-6



5050

## ARTICULATORS

## Average values The 5050PLUS is the most

versatile articulator

of those that compose the line of SS Dental laboratory instruments. Offering all the standard features of 5050, the 5050PLUS has the added benefit of being the only rear-rod system with an inclined plate which guarantees absolute precision even when the incisal guide rod is removed to increase visibility. The rear adjustment screws ensure the guides and inclinations remain unchanged during all combinations of lateral movements, protrusion and retrusion.

The configuration is completed by a magnetic incisal guide rod system that prevents alteration of the model while the plaster is drying. Simple, accurate and ergonomic, 5050PLUS is the most effective SS Dental solution for dental technicians looking for a flexible and reliable average value, non-Arcon articulator.

## FEATURES

- Stable 60° operation for ergonomic comfort
- Ideal for class III patients
- Compatible with all commercially available pressure polymerizers
- Anti-rotation system for the incisal guide rod
- Total stability and precision when working without the incisal guide rod thanks to an adjustable rear rod
- Mounting jig with 4 elliptic guides for lower arch models
- Occlusal table with 4 elliptic guides for upper arch models
- Magnetic incisal guide rod for total stability as the plaster dries
- Bearing rod for stability when fully open
- Anti-shock protection system

## Technical data

Intercondylar distance	110 mm
Condylar inclination fixed at	30°
Bennett angle	0 - 7°
Incisal table inclination	0°
Distance between mounting plates	87 mm
Inclined contrast table	24°
Opening	180°

## Equipment:

4 mounting plates	5000-1
2 locking knobs	5011-6



5050PLUS

## ARTICULATORS

## Average values

Lightweight anatomic articulator made of die-cast aluminum alloy. It can be used with the Camper table or with the arbitrary face bow; fixing according to centric:

- Automatic return to the hinge axis with springs
- Perfect stability in open position
- Anti-shock hinge rod which stops it from breaking or being damaged if the articulator falls accidentally
- Bigger size lock screws for mounting plates
- Anatomic rear abutment ensures the stability and practicality of the articulator

## FEATURES

- Increased height and width
- More space when using removable stump systems
- More space for installation of mobile prostheses with high chewing or big base
- More space when using magnetic plates
- Better back access
- Variable internal working distance
- Incisal guide rod and bearing rod for 180° opening are in stainless steel
- Stainless steel hinge rod
- Anti-shock protection system

## Technical data

Intercondylar distance	120 mm
Condylar inclination fixed at	30°
Bennett angle fixed at	7°
Incisal table inclination	10°
Distance between mounting plates	90-110 mm
Weight	700 gr
Opening	180°

## Equipment:

2 spacers	5030-29
4 mounting plates	5000-1
2 locking knobs for spacers	5030-6
2 locking knobs for plates	5011-6

## Accessories

Face bow	5021
Transfer table	5024
Occlusal table	5030-
Fast caliper	2 5033



5030



## ARTICULATORS

## Average values

The 5032 has the same features as mod. 5030, plus:

- Back rod adjusted by a micrometer adjustment screw to work without the incisal guide rod and to keep the trajectories and inclinations unaltered during side and back/forward movements
- Pure translation movement (key and instructions included)

## FEATURES

Back rod on top for unaltered rear access and visibility; hinge axis with pure translation movement allowed.

## Technical data

Intercondylar distance	120 mm
Condylar inclination fixed at	30°
Bennett angle fixed at	7°
Incisal table inclination	10°
Distance between mounting plates	90-110 mm
Weight	700 gr
Opening	180°

## Equipment:

2 spacers	5030-29
2 magnetic mounting plates	5000-1
2 locking knobs for spacers	M
2 locking knobs for plates	5030-6
	5011-6

## Accessories

Face bow	5021
Transfer table	5024
Occlusal table	5030-
Fast caliper	2 5033



5032



**ARTICULATORS**

Average values

Equipment:

2 mounting plates	5000-1
2 locking knobs for plates	5050-6



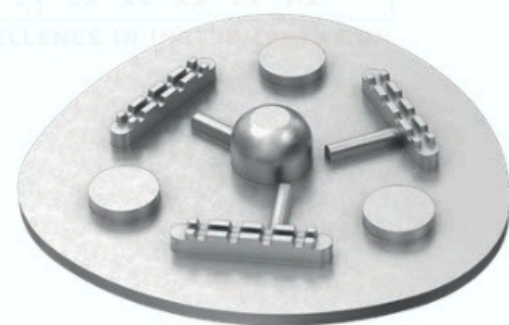
**OCCLUSOR**



**ARTICULATORS**

Spare parts

- Mounting plate
- Die-cast aluminum mounting plate
- Applicable to articulators:  
5050  
5050PLUS  
5030  
5032  
5002  
5000  
5010  
5011



**ARTICULATORS**

Spare parts

5000-26  
Magnet



5000-26

5000-30  
Magnet holder



5000-30

5000-1M

- Die-cast aluminum Teflon covered mounting plate
- Magnet holder (5000-30)
- Magnet (5000-26)
- Applicable to articulators:  
5050  
5050PLUS  
5030  
5032  
5002  
5000  
5010  
5011



5000-1M



5000-30



5000-26

5000-25

- Counter-magnet for plaster for Teflon-coated aluminum die-cast plate
- 10 pcs / pack



5000-25

5030-29

- Spacer
- Applicable to articulators:  
5030  
5032



5030-29

ARTICULATORS

Spare parts

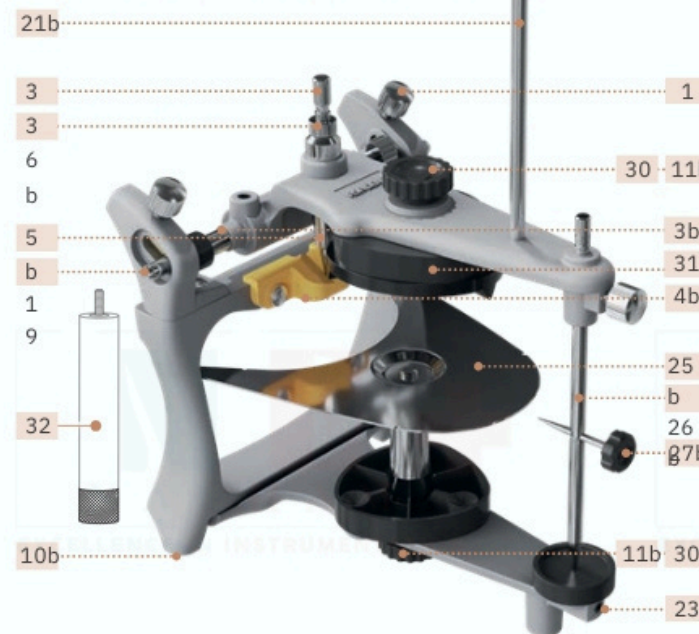
5050PLUS



5050



5030/5032



ARTICULATORS

Spare parts

		5050PLUS	5050	5032	5030
1	Metallic locking knob	5000-5	5000-5	5000-5	5000-5
2	Hinge rod washer	5011-18	5011-18	5011-18	5011-18
3, 3b	Hinge rod	5050-17	5050-17	5032-17	5032-17
4, 4b	Inclined contrast table	5011-16		5032-16	
5, 5b	Back rod	5050-21		5032-21	
6, 6b	Adjusting screw locknut	5011-23		5032-23	
7	Back rod support	5050-20			
8	Mounting jig	5052	5052		
9	Mounting plate	5000-1	5000-1	5000-1	5000-1
10, 10b	Rubber nubs (6 pcs/pack)	5050-24	5050-24	5000-24	5000-24
11, 11b	Locking knob	5050-6	5050-6	5011-6	5011-6
12	Rod ferrule	5053-2			
13	Magnetic rod	5053-1			
12+13+14	Table for magnetic rod	5053-3			
15	Magnetic rod kit	5053			
16	Incisal table (0°)	5011-4		5011-4	
17	Adjusting screw - side shift	5000-7	5000-7	5000-7	5000-7
18	Side shift spring	5000-12	5000-1	5000-12	5000-1
19	Side shift cylinder	5000-13	2	5000-13	2
20	Condylar guidance rod	5030-9	5000-1	5030-9	5000-1
21, 21b	Rubber knob	5011-11	3	5011-11	3
22	Bearing rod	5010-10	5030-9	5030-10	5030-9
23	Hinge rod spring	5011-19	5011-1	5011-19	5011-1
24	M5 screws - incisal table	5000-18	1	5000-18	1
25, 25b	Knurled knob for mounting jig and occlusal table	5050-4	5010-1		5030-1
26, 26b	Occlusal table	5051			
27, 27b	Incisal guide rod	5050-3	0	5030-	5030-2
28	Incisal indicator pin	5050-8	5011-1	2	5011-1
24+25+28	Support for occlusal table and mounting jig	5050-2	9	5030-	5000-8
29	Occlusal table assembly (5050-4 + 5051 + 5050-2)		5000-1	3	5000-1
30	Incisal table (10°)	5054	8 5054 5050-4 5000-4N 5051	5000-	8
31	Locking knob for spacer			8	
32	Spacer		5050-3	5030-6	5030-6
33	Fast caliper			5030-29	5030-29
34	Adjusting screw		5050-8	5033	5033
35	Magnetic mounting plate - complete		5050-2		
36	Magnet			5032-22	
37	Magnet	5000-1	5000-1	5000-1M	5000-1
	Cast fastening washers (10 Pcs/pack)	M	M	5000-26	M
	Magnet holder	5000-25 6 5000-30	5000-25 6 5000-30	5000-25	5000-25 6 5000-30

EASY BOW

5020 complete set including facebow with three forks and transfer table for articulator

Face bow	5021
Fork holder block	5022
Transfer table	5024
Fork	5023-1
Fork	5023-2
Fork	5023-3

set compatible with 5023-

articulators:  
5030  
5032



5021



5022



5024



5023-1



5023-2



5023-3

EASY BOW

instructions

1. Insert the fork holder block into the bow
2. Insert the fork into the patient's mouth
3. Pull the Condylar rods outwards and insert the facebow
4. Regulate the Nasion position referring to the Frankfurt plane
5. Connect the fork holder rod and lock all the knobs
6. Face bow positioned
7. Pull the Condylar rods outwards and extract the face bow
8. Loosen the knob and extract the fork holder block
9. Position the fork holder block in the transfer table...
10. ...and tighten the knob
11. If necessary, adjust the little plate height; then remove the fork holder block
12. Place the plaster on the plate and reposition the fork holder block
13. After the plaster has hardened, loosen the knob connected to the fork rod...
14. ...and extract the rod
15. Release the knob and extract the fork holder block
16. Place the table on the articulator...
17. ...inserting it into the special recesses
18. Affix the table to the articulator with the screw provided with the articulator
19. Place the model on the wax bite
20. Put the plaster on the model...
21. and complete the "articulator setup" as usual



HANDLE OPTIONS

SINGLE-END

- Alu80 (aluminum, hollow) ø 8,0 mm



DOUBLE-END

- SS60 (stainless steel) ø 6,0 mm



- SS Light MV (stainless steel, hollow) ø 8,0 mm



- Alu80 (aluminum, hollow) ø 8,0 mm



MODELING INSTRUMENTS



1 Ward  
1501-1  
SS60  
MV1501-1  
SS Light MV

1S Ward  
1501-1S  
SS60  
MV1501-1S  
SS Light MV

2 Ward  
1501-2  
SS60  
MV1501-2  
SS Light MV

1/2 Hollenback  
1500-02 SS60  
MV1500-02 SS  
Light MV

3 Hollenback  
1500-3 SS60  
MV1500-3  
SS Light MV

3S Hollenback  
1500-3S SS60  
MV1500-3S SS  
Light MV

1 Frahm 15  
02-1 SS60  
MV 15 02-1  
SS Light MV

2 USC  
1503-2  
SS60

MODELING INSTRUMENTS

MODELING INSTRUMENTS



Hylin  
graded handle  
in mm  
5100-1

Hylin  
5100

Hylin-Le Cron  
5101

Hylin- Ceramica  
5102

Hylin-SS  
5103

SS  
5104

Le Cron  
5105

Le Cron  
5106

Le Cron  
5107

Le Cron  
5108

Zahle  
5109

Zahle  
5110

MODELING INSTRUMENTS



Zahle  
5111

Gritman  
5113



Beale  
5114

Roach  
5115



Vehe  
5116

MODELING INSTRUMENTS

Sets of 5



Model

1 · 2 · 3 · 4 · 5

1AL · 2AL · 3AL · 4AL · 5AL

Set Code

S5112

S5112AL

Handle

SS60

Alu80



2 P. K. Thomas  
5112-2 SS60

3 P. K. Thomas  
5112-3 SS60



2 P. K. Thomas  
5112-2AL  
● Alu80

3 P. K. Thomas  
5112-3AL  
● Alu80



4 P. K. Thomas  
5112-4 SS60

5 P. K. Thomas  
5112-5 SS60



1 P. K. Thomas  
5112-1AL  
● Alu80



4 P. K. Thomas  
5112-4AL  
● Alu80

5 P. K. Thomas  
5112-5AL  
● Alu80

WAXING INSTRUMENTS WITH REPLACEABLE TIPS

Set of 3+3



Model  
1 · 2 · 3 · 1C · 2C · 3C

Set Code  
S5160



1  
S5160-1C  
● Alu80

2  
S5160-2C  
● Alu80

3  
S5160-3C  
● Alu80

1  
5160-1

2  
5160-2

3  
5160-3

LABORATORY TWEEZERS



1  
16,5 cm  
6400-1

2  
16 cm  
6400-2

3 Meriam  
16 cm  
0601-3

2  
12 cm  
0645-2

3  
11,5 cm  
0645-3

3  
15 cm  
0635-3

4  
18 cm  
0635-4

6  
26 cm  
0635-6



WAX KNIVES

PLASTER KNIVES



The wooden handle may vary in color

The wooden handle may vary in color

RIGID SPATULAS FOR PLASTER, ALGINATE AND ELASTOMERS

FLEXIBLE SPATULAS FOR PLASTER, ALGINATE AND ELASTOMERS



The wooden handle may vary in color

The wooden handle may vary in color

SPATULAS FOR PLASTER AND ALGINATE



18,5 cm 5401-B  
 18,5 cm 5401-C  
 18,5 cm 5401-F

18,5 cm 5401-G  
 18,5 cm 5401-R  
 18,5 cm 5401-V

MIXING BOWLS FOR PLASTER AND ALGINATE

Ø 160 mm Ø 140 mm



2,2 L 5500-16 Ø 160 mm  
 0,9 L 5500-14 Ø 140 mm

0,5 L 5500-12 Ø 120 mm  
 0,35 L 5500-10 Ø 100 mm



2,2 L 5501-16  
 0,9 L 5501-14

0,5 L 5501-12  
 0,35 L 5501-10

ORTHO/PROSTHESIS BOXES

Plastic box for removable retainers  
 10 pcs / pack



Blue 6900E-A



White 6900E-B



Light blue 6900E-C



Yellow 6900E-G



Pink 6900E-R



Green 6900E-V

SCISSORS  
for gold foils



1  
straight  
12 cm  
0300-1

2  
curved  
12 cm  
0300-2

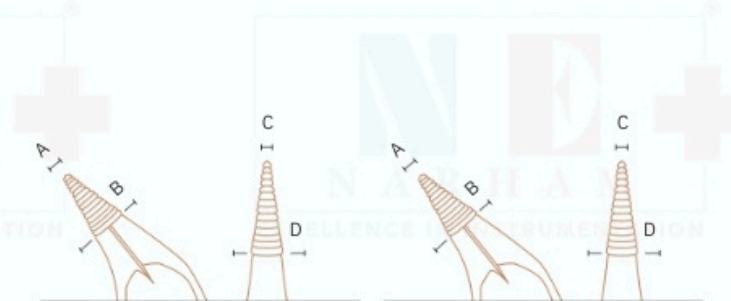
WIRE SCISSOR  
one serrated blade



Universal  
12 cm  
5700

CROWN INSTRUMENTS

Telescope crown pliers



A	4,4 mm	A	3,3
B	5,0 mm	B	mm
			4,0
C	3,4 mm	C	Ø8mm
D	3,8 mm	D	3,0 mm

CROWN SCISSORS



1  
straight  
one serrated blade  
10,5 cm  
5600-1

2  
curved  
one serrated blade  
10,5 cm  
5600-2

1  
straight  
10,5 cm  
5601-1

2  
curved  
10,5 cm  
5601-2



13 cm  
0545-1



Böhm  
14,5 cm  
2500-2



Böhm  
11,5 cm  
2500-1

CROWN INSTRUMENTS

\*indicative measures

Spring calipers

measuring range: 0-10 mm\*



Iwanson  
for wax  
2550-1

measuring range: 0-10 mm\*



Iwanson  
for metal  
2550-2

measuring range: 0-15 mm\*



16 cm  
2557-1

Decimal calipers

measuring range:  
0-200 mm / 0-7 in\*



aluminum  
graded in mm and in  
2556-1

measuring range:  
0-100 mm / 0-4 in\*



Townley  
graded in mm and in  
2556-2

measuring range:  
0-100 mm / 0-4 in



Jameson  
graded in mm and in  
2556-3

measuring range:  
0-100 mm\*



Boley  
14  
cm  
2555

PLASTER CUTTING PLIERS



SS Special  
Stainless Steel  
19,5 cm  
5900

MALLETS

Riveting mallets

Horn mallet



22 cm  
6000

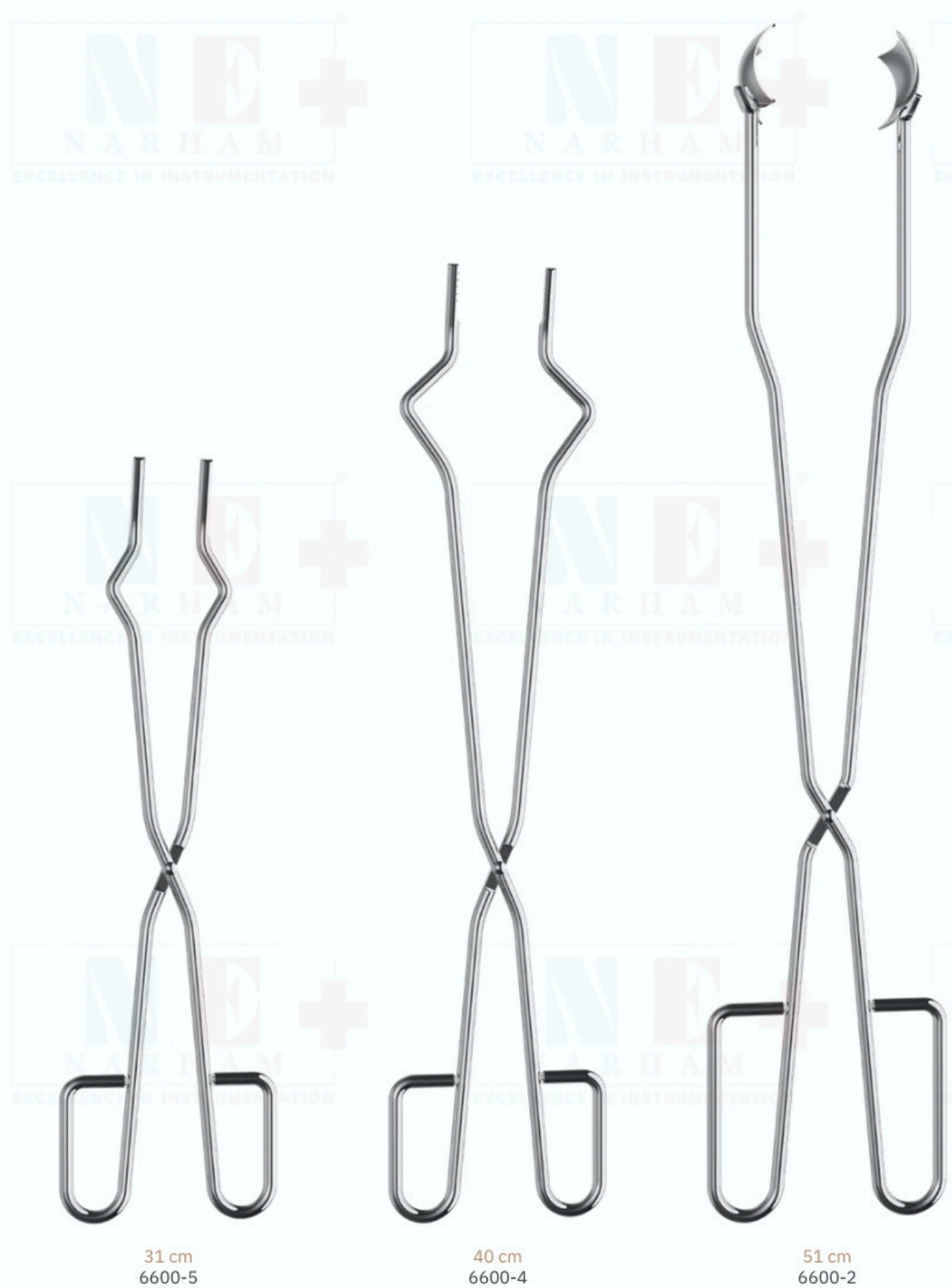


22 cm  
6001



20 cm  
6002

CRUCIBLE TONGS



SAWS AND BLADES

Fret saw



\*Length x Height x Thickness

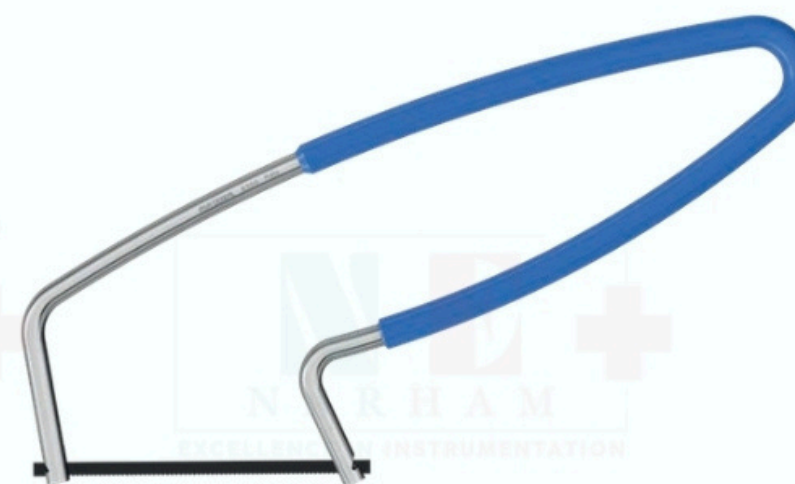
25 cm  
6200

Fret saw blades  
12 pcs / pack

130 mm x Ø 1,3 mm\*  
for plaster  
6201-1

130 x 0,52 x 0,26 mm\*  
for metal  
6201-2

Saw for models



18  
cm  
6300

Fretsawblades  
12 pcs / pack

75 x 3 x 0,25 mm\*  
6301-1

75 x 5 x 0,25 mm  
6301-2

75 x 3 x 0,12 mm\*  
6301-3

ORTHODONTIC LAB SET

Case with wax and porcelain modelling instruments



S6811-2

5100	Hylin modelling carver Hylin-	
5101	Le Cron modelling carver Hylin	
5105	modelling carver Zahle	
5111	modelling carver P. K. Thomas	
5112-1	modelling carver P. K. Thomas	1
5112-2	modelling carver P. K. Thomas	2
5112-3	modelling carver P. K. Thomas	3
5112-4	modelling carver P. K. Thomas	4
5112-5	modelling carver P. K. Thomas	5
5113	modelling carver wax sculpting	
S5160-1C	instrument wax sculpting	1
S5160-2C	instrument wax sculpting	2
S5160-3C	instrument Fahrenstock wax	3
5200-1	knife Fahrenstock wax knife	1
5200-2	caliper	2
2555		

ORTHODONTIC LAB SET

Laboratory sets with plastic case



S6810-1

6400-2	laboratory tweezers plaster	2
5900	cutting pliers saw for models	
6300	mixing bowl - ø 120 mm crown	
5500-	scissors spatula for plaster and	
12	alginate Gritman plaster knife	2
5600-2	Fahrenstock wax knife	6
5400-6	Fahrenstock wax knife wire	2
5300-2	forming pliers Iwanson caliper	1
5200-1	mallet Hylin modelling carver	2
5200-2	Hylin-Le Cron modelling carver	
5801-1	Hylin-Ceramica modelling carver	
2550-2	Hylin modelling carver Le Cron	
6001	modelling carver Zahle	
5100	modelling carver Gritman	
5101	modelling carver Beale	
5102	modelling carver P. K. Thomas	
5105	modelling carver P. K. Thomas	
5106	modelling carver P. K. Thomas	
5109	modelling carver P. K. Thomas	
5113	modelling carver P. K. Thomas	
5114	modelling carver	
5112-1		1
5112-2		2
5112-3		3
5112-4		4
5112-5		5

Empty case for 17 instruments



8000



S6810-2

6400-2	laboratory tweezers plaster	2
5900	cutting pliers saw for models	
6300	mixing bowl - ø 120 mm crown	
5500-	scissors spatula for plaster and	
12	alginate Gritman plaster knife	2
5600-2	Fahrenstock wax knife	6
5400-6	Fahrenstock wax knife Iwanson	2
5300-2	caliper Ceramic sculpting	1
5200-1	instruments set Hylin-Le Cron	2
5200-2	modelling carver Le Cron	
2550-2	modelling carver Zahle modelling	
5150	carver Gritman modelling carver	
5101	Beale modelling carver P. K.	
5106	Thomas modelling carver P. K.	
5109	Thomas modelling carver P. K.	
5113	Thomas modelling carver P. K.	
5114	Thomas modelling carver P. K.	
5112-1	Thomas modelling carver	1
5112-2		2
5112-3		3
5112-4		4
5112-5		5

the modelling tool kit (S5112) is included in the cases S6810-1 and S6810-2, placed in a white cardboard package as shown here

