Portrait® IPN®

Mould Chart
Superior Premium Denture Teeth

For dental professionals and laboratories

Dentsply
Sirona

# Build Pride With Portrait® IPN® Denture Teeth

Portrait IPN teeth deliver unique shade blending and youthful aesthetics. Each anterior tooth provides three shaded layers of IPN material creating five, distinct aesthetic zones with natural translucency and well-defined mamelons.

Cervical

Neck

Body

Enamel

Incisal
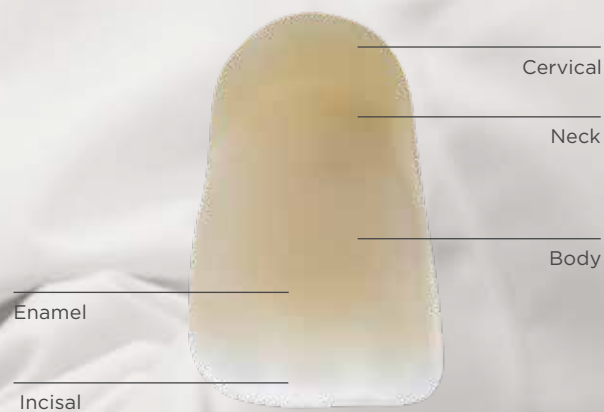
Over three decades of
IPN® material performance

Unrivaled performance since 1981, unmatched tooth variety and selection, and unparalleled protection of the industry's broadest tooth warranty – those are just a few of the reasons why countless dental professionals trust Portrait IPN teeth to satisfy their patients.

IPN Structure

Cross-linking of primary chains

Cross-linking of secondary chains
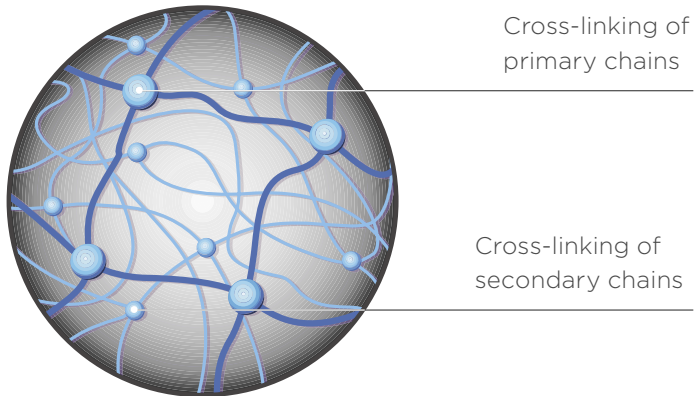
Homogenous three-dimensional structure and cross-linking of primary and secondary molecular chains

IPN Characteristics

Inter-penetrating polymer network.
Highly cross-linked copolymers, free from inorganic fillers, give this material its superior properties:

· **For full, partial, and implant supported dentures**

· **Excellent abrasion resistance**

· **Excellent colour stability**

· **Maximum bond strength**

The result: high-quality, long-lasting denture teeth.

Shade System

Portrait IPN teeth are available in all 16 A-D* shade designations, the most popular "Base 8" Bioform shades as well as three bleach shades.

* The A1-D4 designations correspond to the VITA classical A1-D4® shade guide which is meant to be a guide, not a match. VITA classical A1-D4 is a registered trademark of VITA Zahnfabrik H. Rauter GmbH & Co.

The ATS Mould Classification System

Anatoform Trubyte® System (ATS)

A legacy from which to learn, the Anatoform and Trubyte Systems revolutionized prosthetic dentistry over 100 years ago. In 1913, the Dentists Supply Company of New York, known today as Dentsply Sirona, brought together the two leading pioneers of prosthetic dentistry, Dr. Leon Williams and Dr. Alfred Gysi. Dr. Williams discovered and developed the harmony between facial forms and anterior teeth. Dr. Gysi pioneered posterior tooth forms and denture occlusion in harmony with the temporomandibular joint. The collaboration of Dr. Williams and Dr. Gysi resulted in the creation of the Anatoform technique in Europe and the Trubyte technique in America. The system developed by these pioneers continues to influence prosthetic dentistry through Dentsply Sirona's Anatoform Trubyte System (ATS).

From the foundational work of Dr. Williams and Dr. Gysi, Dentsply Sirona continues to build upon the harmonious anatomical tooth designs and time-tested functional performance of the ATS. Dentsply Sirona is developing new materials and new technologies that are leading prosthetic dentistry to better, faster, safer solutions for technicians, clinicians, and patients.

This mould chart will guide you through the selection of the ideal anatomical tooth for your patient, based upon the ATS philosophy. The harmony of anatomical form and function is provided in this mould chart through seven anterior tooth facial forms, and six functional occlusal angle families.
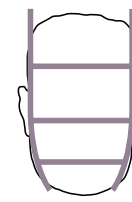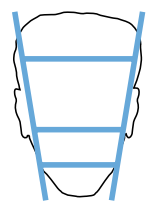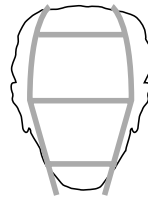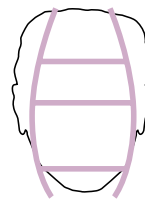
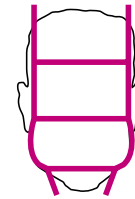## 7 Basic Facial Forms:
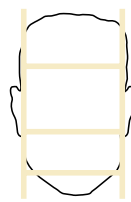
Square   Square Tapering   Square Ovoid   Tapering
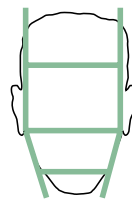
Tapering Ovoid   Ovoid   Square Tapering Ovoid

Poor Ridge   Average Ridge   Good Ridge

Flat Plane   Modified Cusp   Deep Cusp

Non-Anatomical   Semi-Anatomical   Anatomical

Steps to identify and select anterior moulds

1. First number: Classification

Select the number from 1 to 7 that best represents the patient. The number selected is the first character of the mould identification number, located in the upper left corner of the tooth card.

1. Square
2. Square Tapering
3. Square Ovoid
4. Tapering
5. Tapering Ovoid
6. Ovoid
7. Square Tapering Ovoid

Square | Square Tapering | Square Ovoid | Tapering | Tapering Ovoid | Ovoid | Square Tapering Ovoid

2. Second number: Proportion & Contour

Select the number from 1 to 6 that represents both the proportion of the tooth (long, medium or short) as well as the facial contour (straight or curved).

The number selected is the second character of the mould identification number.

	Proportion of the Tooth	Facial Contour
1.	Long	Straight
2.	Medium	Straight
3.	Short	Straight
4.	Long	Curved
5.	Medium	Curved
6.	Short	Curved

Curved   Straight
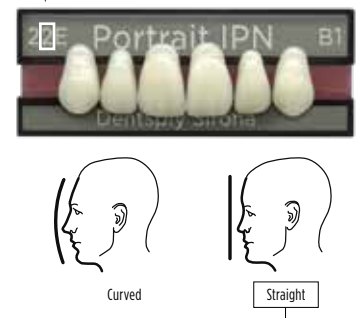
3. Letter: Width of Upper Six Anterior Teeth on Curve

Using a flexible millimeter ruler, measure the width of the upper six anterior teeth on the curve, from distal to distal. The measurement will fall into one of the ranges identified with the letters B through J.

The letter selected is the third character of the mould identification number.

B. less than 44.00 mm
C. 44.00 to 45.50 mm
D. 45.50 to 48.00 mm
E. 48.00 to 49.00 mm
F./X. 49.00 to 51.50 mm
G. 51.50 to 54.00 mm
H. 54.00 to 56.00 mm
J. 56.00 mm or greater

Some moulds may vary from this standard. Please consult mould chart dimensions.

Portrait® IPN® Material: Wear-resistant, long-lasting denture teeth!

For full, partial, and implant supported dentures.

Portrait® IPN® Mould/Shade Availability Table

Moulds	Shades
Portrait IPN Anteriors Portrait IPN 40°, 33°, 22°, 20°, 10°, 0° Posteriors	**All 27 shades of the Portrait IPN Shade Guide:** P1, P2, P3, P3.5, P4, P11, P12, P13, P14, P21, P22, P23, P24, P32, P33, P34, P59, P62, P65, P66, P67, P69, P77, P81, PW2, PW4, PW7

Quick Reference Guide for Shade and Mould Popularity
Shades and Moulds are listed in order of preference based on product sales

Portrait® IPN® Shade Popularity
P2/A2, P3/A3, P1/A1, P62, P3.5/A3.5, P11/B1, P21/C1, P22/C2, P12/B2

Portrait IPN Anterior Mould Preference		Portrait IPN Posterior Mould Preference Per Category	
Maxillary		Portrait IPN® 0°	632, 630
Small Moulds:	21D, 42D, 55D	Portrait IPN® 10°	332, 330, 334, 336
Medium Moulds:	12E, 22E, 42F, 32E, 13E, 43F	Portrait IPN® 20°	31M, 29M, 33M, 31L
Large Moulds:	11H, 45H, 12G, 21X, 21J, 62G	Portrait IPN® 22° BioStabil	532
Mandibular		Portrait IPN® 33°	32M, 34M, 30M, 32L
Small Moulds:	F, C, E	Portrait IPN® 40° EuroLine	732
Medium Moulds:	N, H, P, M		
Large Moulds:	S, R, K1, O		

Tables

The following chart provides a simple reference between several brands of anterior teeth and VITA® shades. Shade matching is best done with a color corrected fluorescent light having a Color Rendering Index above 90 or in natural daylight. This type of light source was used in our developmental research. For a variety of technical reasons, such as viewing and illuminating conditions, the perception of the shade match may vary. Due to distinctive blend and shade characteristics of each brand of teeth, exact comparisons are not possible.

IPN® Shade Conversion Table
Shade Correlation

	Shade Match		Shade Correlation	
PORTRAIT® IPN®	**VITA 3D-MASTER®**	**VITA classical®**	**BIOFORM® IPN®†**	**BIOBLEND® IPN®†**
P1	1M1	A1	B51	
P2	3R1.5	A2	B53	104
P3	3M2	A3	B54	108
P3.5	3R2.5	A3.5	B83	116
P4	4R1.5	A4	B84	118
P11	2M1	B1	B59	100
P12	2M2	B2	B52	
P13	2M3	B3	B55	
P14	4L2.5	B4	B56	100
P21	2R1.5	C1	B91	102
P22	3L1.5, 4M1	C2	B94	
P23	4L1.5, 4M2	C3	B95	
P24	5M1, 5M2	C4	B96	
P32	3M1	D2	B92	
P33		D3	B93	
P34		D4	B69	113
P59	1M2		B59	100
P62	2L1.5		B62	102
P65			B65	106
P66	2L2.5, 2R2.5		B66	112
P67			B67	109
P69	2M3		B69	113
P77	3L2.5		B77	
P81			B81	114
PW2*	4M3, 5M3			
PW4*	0M2, 0M3			
PW7*	0M1			

† As of December 2020, these brands will no longer be available for purchase.

* Portrait bleach shades PW2, PW4 and PW7 correlate to Illuminé® i-2, i-4 and i-7 respectively.

The A1-D4 designations correspond to the VITA classical A1-D4® shade guide which is meant to be a guide, not a match. VITA, VITA classical A1-D4, and 3D Master are registered trademarks of VITA Zahnfabrik H. Rauter GmbH & Co.

Portrait® IPN®
Available in 24 shades and 3 bleach shades

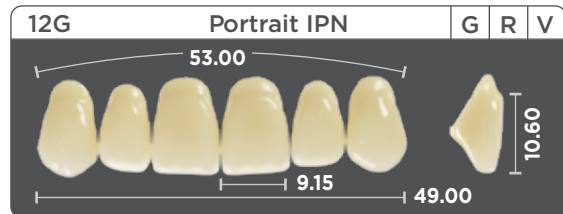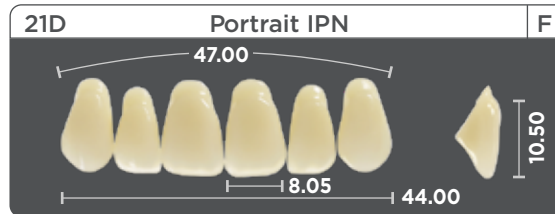## Anteriors Maxillary

All dimensions in mm. Images scaled to size.

ARTICULATION		
KEY	**21C** Maxillary Anterior	**C** Suggested Mandibular
	Curve / Straight 45.50 / 42.00	

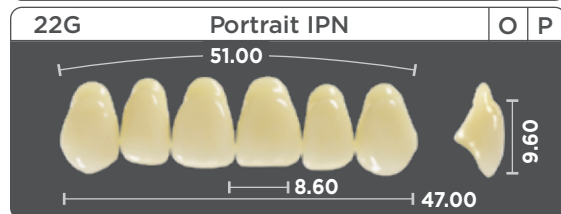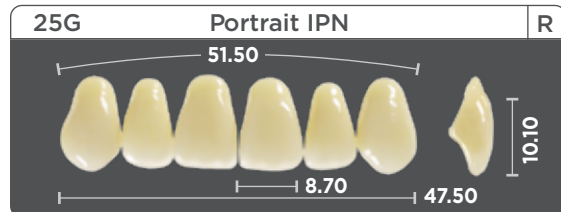## Square
Mould No. (Lower Articulation)

11G	Portrait IPN	S	W
52.00
8.75
48.00
11.10

| 11H | Portrait IPN | S | W |
54.50
9.35
50.50
11.60

| 12E | Portrait IPN | M | N |
50.00
8.50
45.50
10.60

| 12F | Portrait IPN | | N |
50.50
8.50
47.00
10.25

| 12G | Portrait IPN | G | R | V |
53.00
9.15
49.00
10.60

| 13E | Portrait IPN | | H |
47.50
8.10
44.00
9.30

Square Tapering
Mould No. (Lower Articulation)

| 21C | Portrait IPN | | C |
45.50
7.70
42.00
10.00

| 21D | Portrait IPN | | F |
47.00
8.05
44.00
10.50

| 21E | Portrait IPN | | O |
51.00
9.00
46.00
12.00

| 21G | Portrait IPN | | W |
56.00
9.75
52.00
12.00

| 21J | Portrait IPN | I | K1 | Z | Rx |
58.00
10.20
54.50
12.40

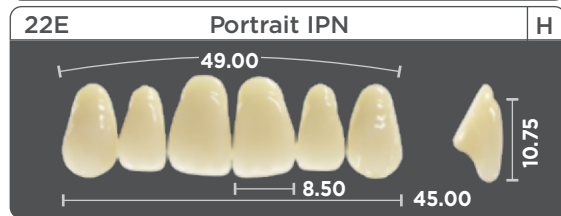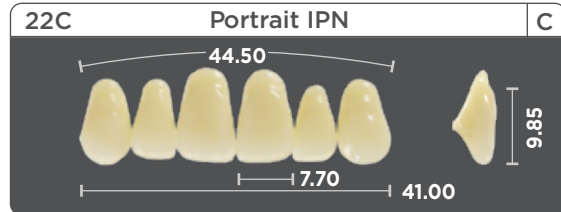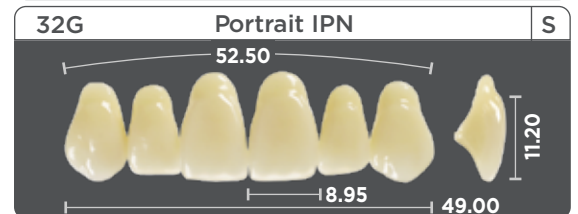| 21X | Portrait IPN | | P |
50.00
8.75
46.50
10.90
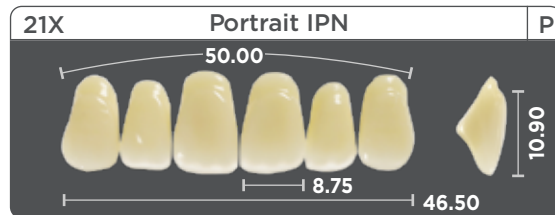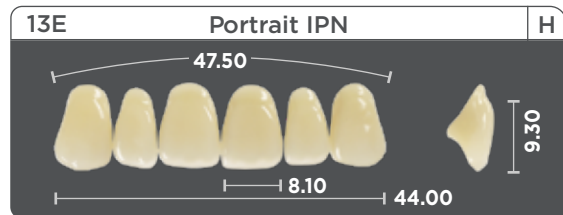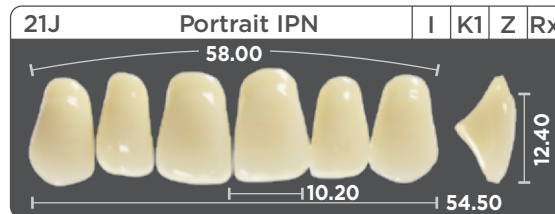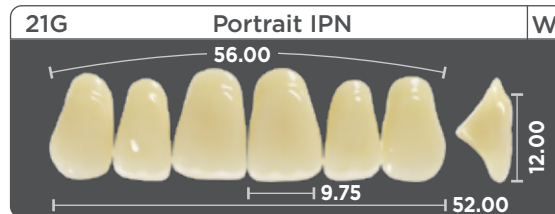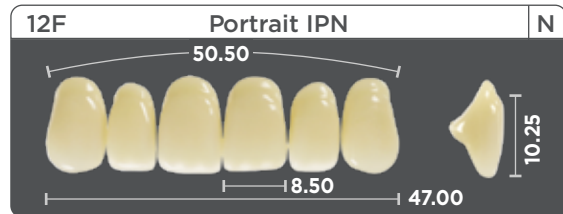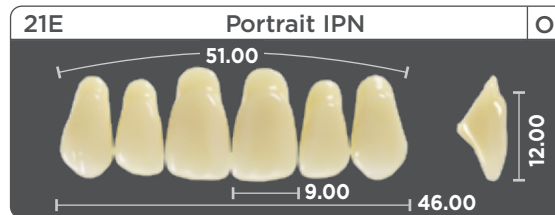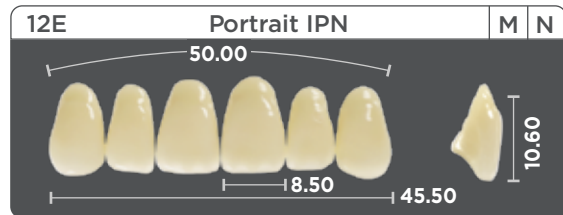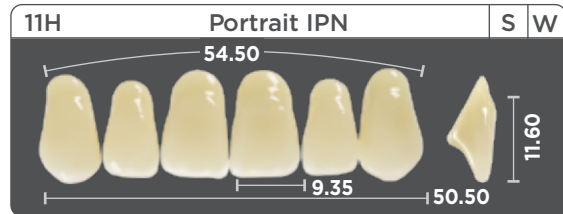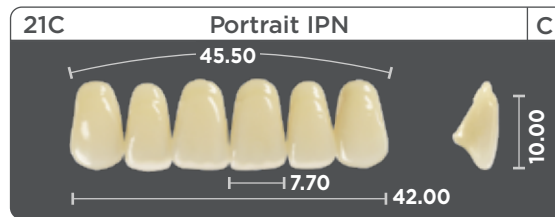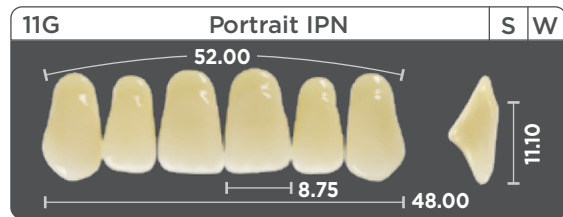
Portrait® IPN®

Available in 24 shades and 3 bleach shades

Anteriors Maxillary

Square Tapering

Mould No. (Lower Articulation)

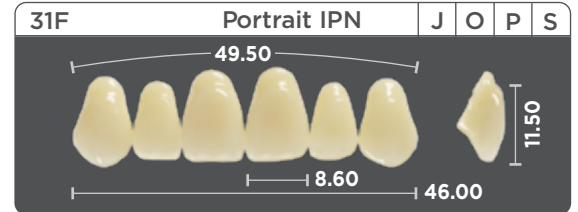| 22C	Portrait IPN	C

44.50
9.85
7.70
41.00

22E	Portrait IPN	H

49.00
10.75
8.50
45.00

25G	Portrait IPN	R

51.50
10.10
8.70
47.50

22G	Portrait IPN	O	P

51.00
9.60
8.60
47.00

22H	Portrait IPN	P

54.00
12.10
9.25
50.00

24F	Portrait IPN	F	G	H

48.00
12.00
8.45
44.50

ARTICULATION				
KEY	**24F**	F	G	H
	Maxillary Anterior	Suggested Mandibular		
	Curve / Straight			
	48.00 / 44.50			
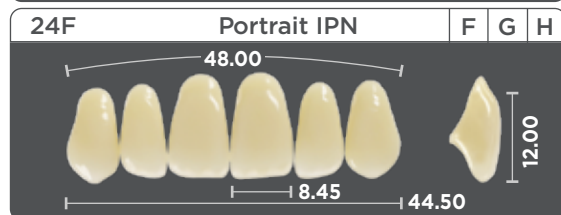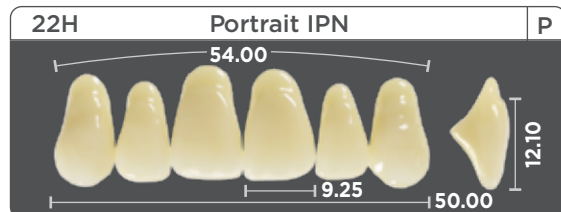
Square Ovoid

Mould No. (Lower Articulation)

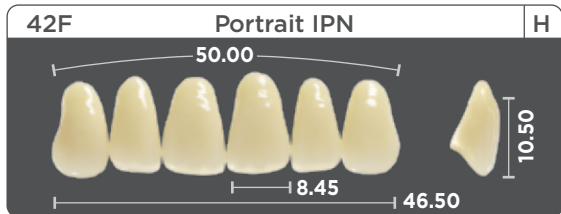| 31F	Portrait IPN	J	O	P	S

49.50
11.50
8.60
46.00

32B	Portrait IPN	C

44.00
9.20
7.50
40.50

32E	Portrait IPN	H

49.00
10.00
8.20
45.00

32G	Portrait IPN	S

52.50
11.20
8.95
49.00

Portrait® IPN®
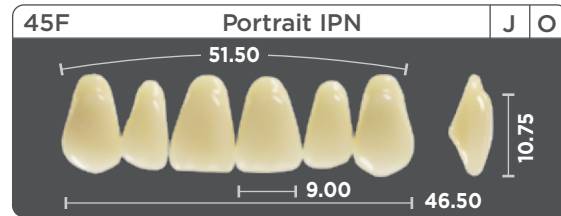
Available in 24 shades and 3 bleach shades

Anteriors Maxillary

▼ Tapering

Mould No.
(Lower Articulation)

41J	Portrait IPN	I	K1	Rx

58.00
13.25
10.00
53.50

42D	Portrait IPN	F

48.00
10.25
8.00
43.50

42F	Portrait IPN	H

50.00
10.50
8.45
46.50

42G	Portrait IPN	O	P

52.00
10.40
8.70
48.00

43D	Portrait IPN	C

45.50
8.70
7.85
41.50

43F	Portrait IPN	M	N	X

49.00
9.60
8.80
45.50

▼ Tapering

Mould No.
(Lower Articulation)

45F	Portrait IPN	J	O

51.50
10.75
9.00
46.50

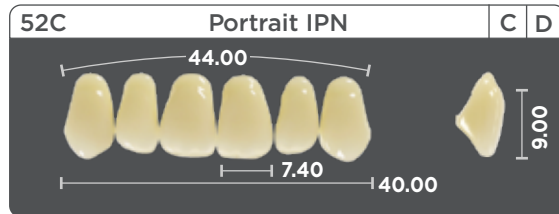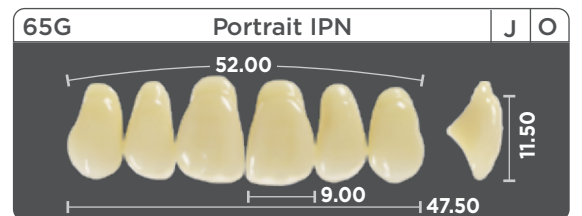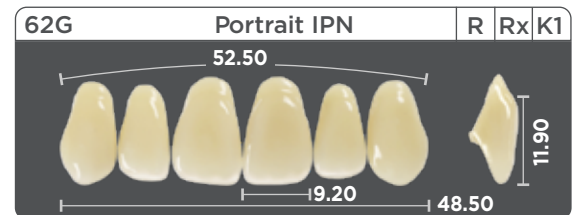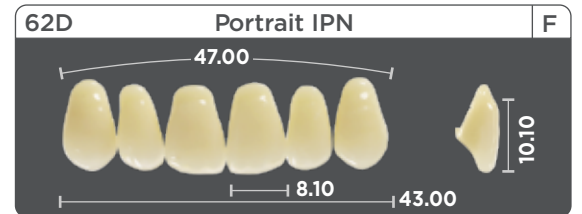| 45H	Portrait IPN	R	V

54.00
11.25
8.85
49.50

Portrait® IPN®
Available in 24 shades and 3 bleach shades

Anteriors Maxillary

⬛ Tapering Ovoid

52C	Portrait IPN	C	D

44.00 / 7.40 / 40.00 / 9.00

54F	Portrait IPN	J	N

49.00 / 8.65 / 45.00 / 11.50

55D	Portrait IPN	E

47.50 / 8.25 / 43.50 / 10.25

55F	Portrait IPN	M

50.50 / 8.50 / 46.50 / 10.85

⬤ Ovoid

62D	Portrait IPN	F

47.00 / 8.10 / 43.00 / 10.10

62G	Portrait IPN	R	Rx	K1

52.50 / 9.20 / 48.50 / 11.90

65G	Portrait IPN	J	O

52.00 / 9.00 / 47.50 / 11.50

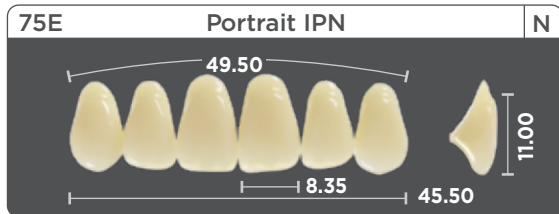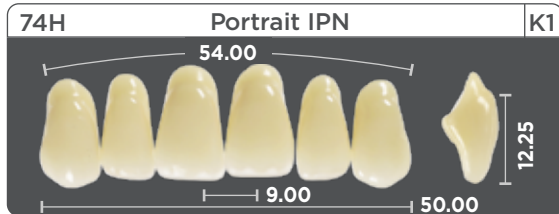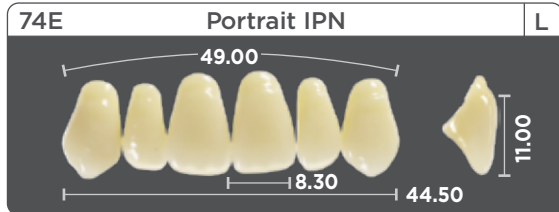| ARTICULATION		
KEY	**55F** Maxillary Anterior	**M** Suggested Mandibular
	Curve / Straight 50.50 / 46.50	

Portrait® IPN®
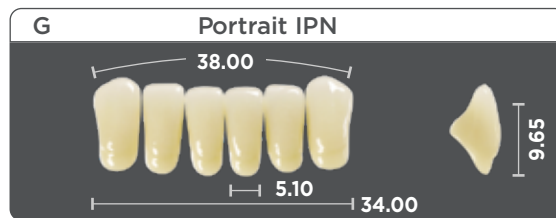Available in 24 shades and 3 bleach shades

Portrait® IPN®
Available in 24 shades and 3 bleach shades

Anteriors Maxillary

Anteriors Mandibular

Square
Tapering Ovoid

74E	Portrait IPN	L
49.00	8.30	44.50
		11.00

74H	Portrait IPN	K1
54.00	9.00	50.00
		12.25

75E	Portrait IPN	N
49.50	8.35	45.50
		11.00

75G	Portrait IPN	R V
53.50	9.10	49.00
		11.20

A84	Portrait IPN	N
48.50	8.45	44.50
		11.60

C	Portrait IPN	
35.00	4.90	31.50
		9.00

D	Portrait IPN	
33.50	4.55	30.50
		8.25

E	Portrait IPN	
38.00	4.95	33.50
		9.40

F	Portrait IPN	
36.50	4.95	32.00
		8.85

G	Portrait IPN	
38.00	5.10	34.00
		9.65

ARTICULATION		
KEY	A84	N
	Maxillary Anterior	Suggested Mandibular
	Curve / Straight	
	48.50 / 44.50	

Portrait® IPN®
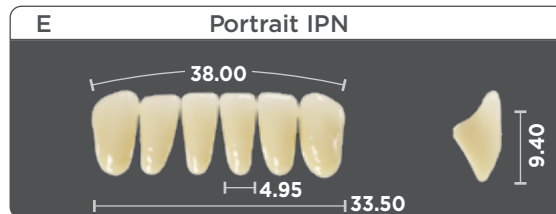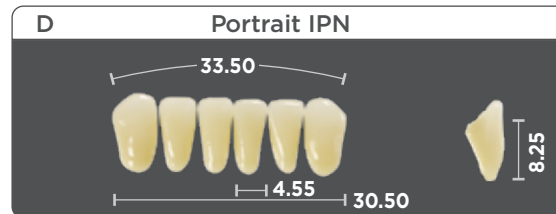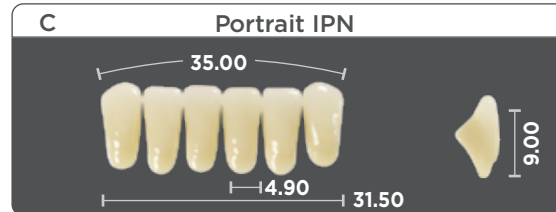Available in 24 shades and 3 bleach shades
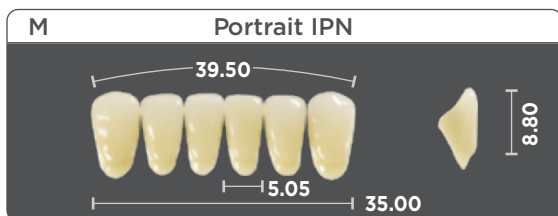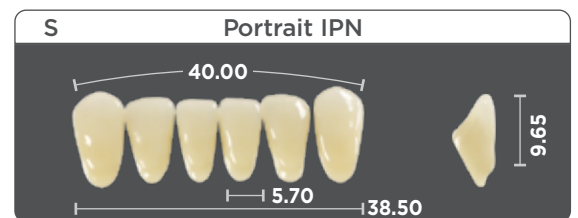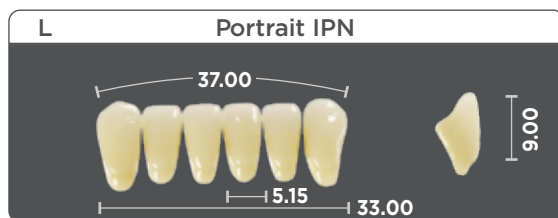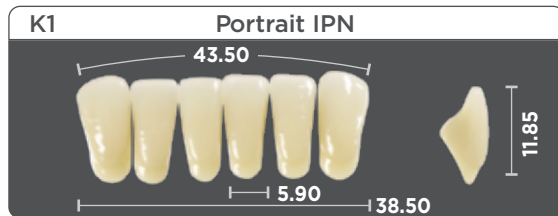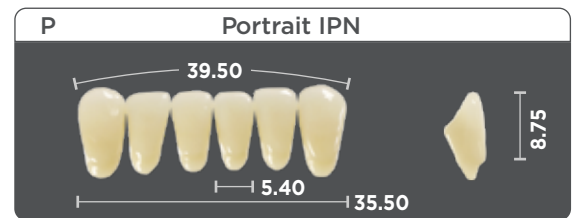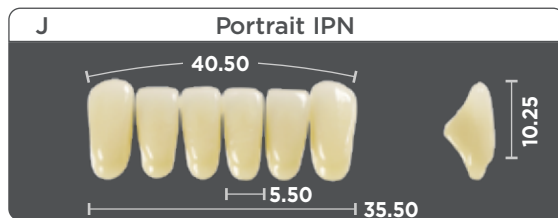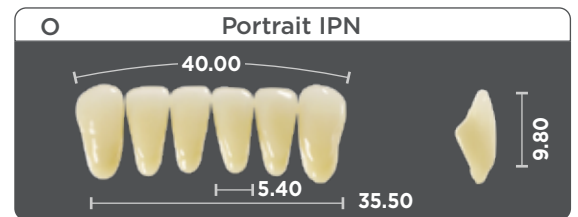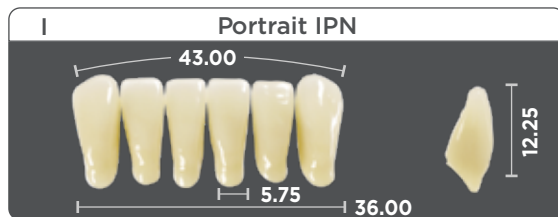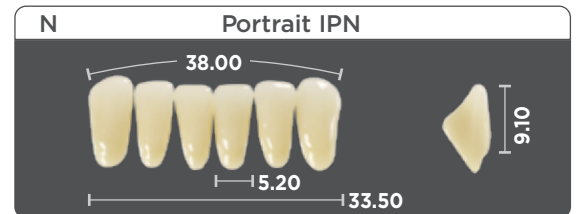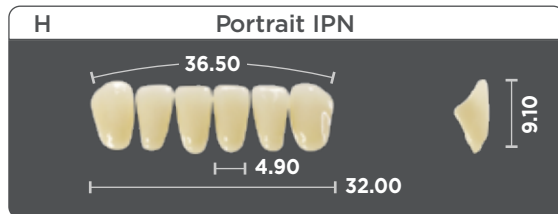
Anteriors Mandibular

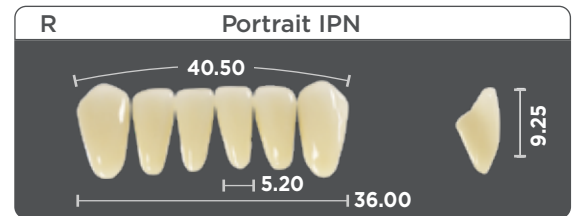| H	Portrait IPN
	36.50 — 9.10 — 4.90 — 32.00

N	Portrait IPN
	38.00 — 9.10 — 5.20 — 33.50

I	Portrait IPN
	43.00 — 12.25 — 5.75 — 36.00

O	Portrait IPN
	40.00 — 9.80 — 5.40 — 35.50

J	Portrait IPN
	40.50 — 10.25 — 5.50 — 35.50

P	Portrait IPN
	39.50 — 8.75 — 5.40 — 35.50

K1	Portrait IPN
	43.50 — 11.85 — 5.90 — 38.50

R	Portrait IPN
	40.50 — 9.25 — 5.20 — 36.00

L	Portrait IPN
	37.00 — 9.00 — 5.15 — 33.00

S	Portrait IPN
	40.00 — 9.65 — 5.70 — 38.50

M	Portrait IPN
	39.50 — 8.80 — 5.05 — 35.00

Portrait® IPN®

Available in 24 shades and 3 bleach shades

Anteriors Mandibular

U	Portrait IPN
42.00	
5.75	38.50
	10.50

V	Portrait IPN
41.50	
5.60	37.00
	9.00

W	Portrait IPN
42.00	
5.75	39.00
	10.25

Rx	Portrait IPN
42.00	
5.75	37.00
	12.75
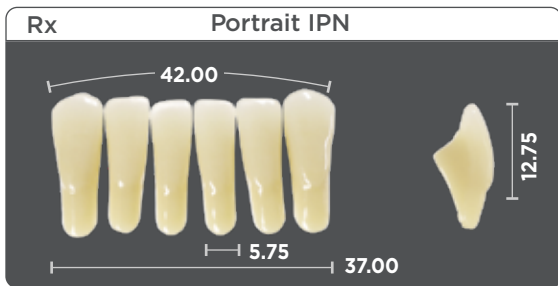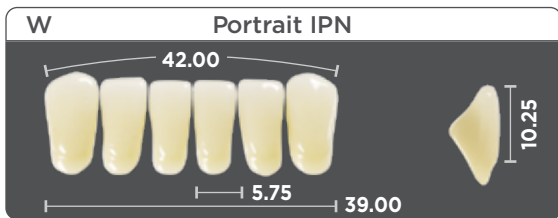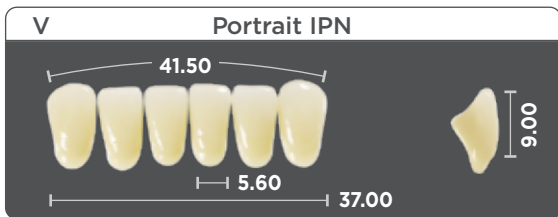
Portrait IPN teeth have a versatile combination of aesthetics, function and performance.
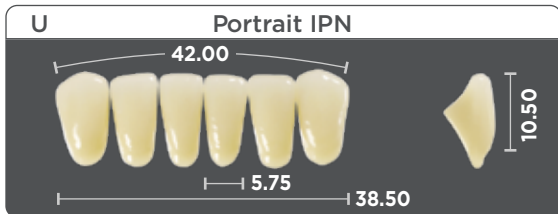
Portrait® IPN®
Available in 24 shades and 3 bleach shades

Posterior Teeth

Portrait® IPN® 0° Posteriors

Offer minimal interference in lateral excursions.
Specially contoured occlusal surfaces of interacting
ridges and clearance spaces enhance chewing
efficiency and help prevent food packing.

630   Portrait IPN
X = 30.0
U = 8.80
L = 8.80
Y = 32.0

634   Portrait IPN
X = 34.0
U = 9.90
L = 9.90
Y = 36.0

632   Portrait IPN
X = 32.0
U = 9.40
L = 9.40
Y = 34.0
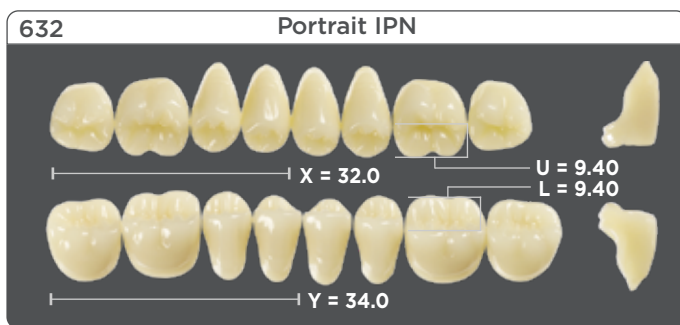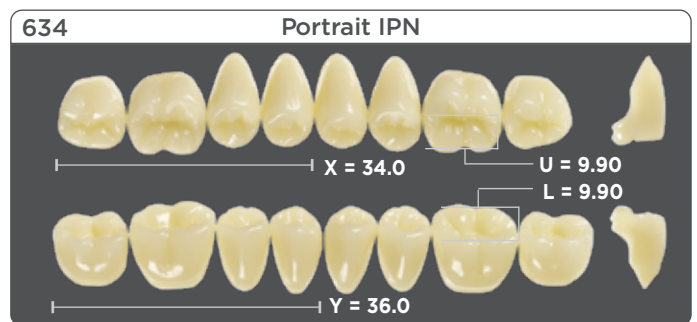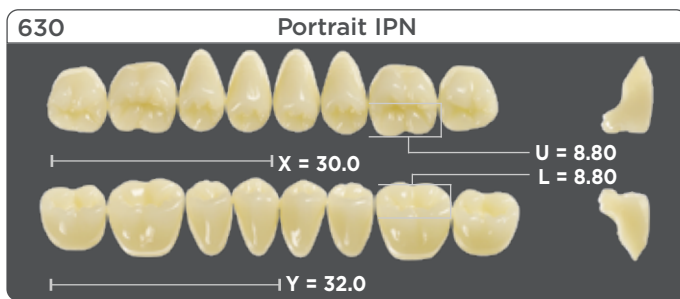
KEY

X = The average width of a 1x4 set of maxillary posteriors
Y = The average width of a 1x4 set of mandibular posteriors
U = The average depth of the maxillary left first molar
L = The average depth of the mandibular left first molar
ISO 22112: 2017. Processing instructions available upon request.

Portrait® IPN® 10° Posteriors

Provide the look of well-worn natural teeth. Shallow cusps minimize interference, yet provide a definite centric. In occlusion, the upper lingual cusps align to form an exceptionally efficient "lingual cutting knife."

Portrait® IPN® 20° Posteriors

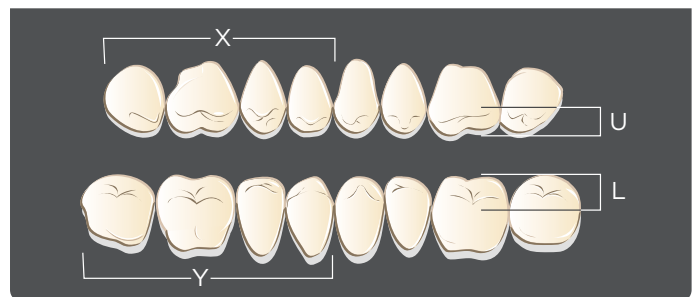Shallow 20° cusps offer minimal interference in lateral excursions. Specially contoured occlusal surfaces of interacting ridges and clearance spaces enhance chewing efficiency and help prevent food packing.

330	Portrait IPN
X = 30.00	U = 7.70
	L = 8.25
Y = 32.00	

332	Portrait IPN
X = 32.00	U = 8.50
	L = 9.25
Y = 34.50	

334	Portrait IPN
X = 34.00	U = 9.10
	L = 9.40
Y = 36.50	

336	Portrait IPN
X = 36.00	U = 9.50
	L = 10.50
Y = 38.50	

29M	Portrait IPN
X = 29.00	U = 8.25
	L = 9.10
Y = 32.50	

29L	Portrait IPN
X = 29.00	U = 8.25
	L = 9.00
Y = 33.00	

31M	Portrait IPN
X = 31.00	U = 8.75
	L = 9.70
Y = 34.50	
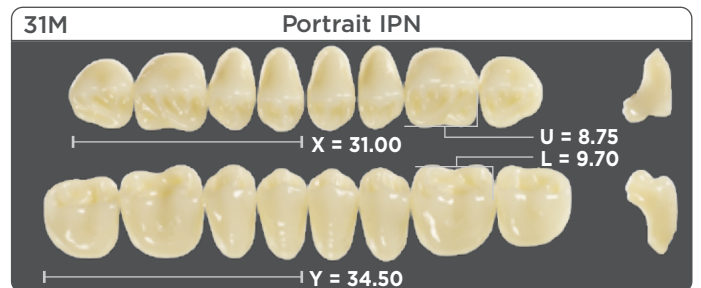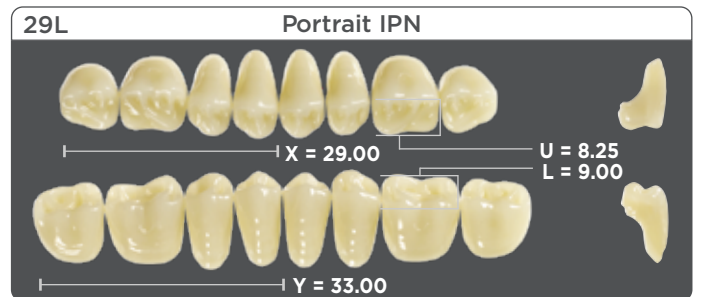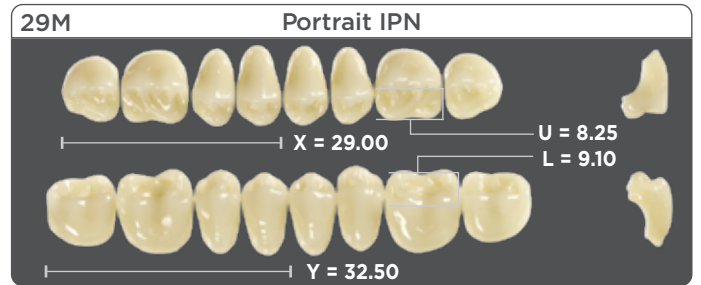
Portrait® IPN® 20° Posteriors

Shallow 20° cusps offer minimal interference in lateral excursions. Specially contoured occlusal surfaces of interacting ridges and clearance spaces enhance chewing efficiency and help prevent food packing.
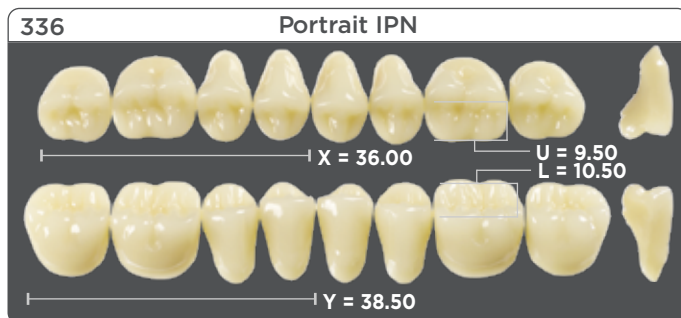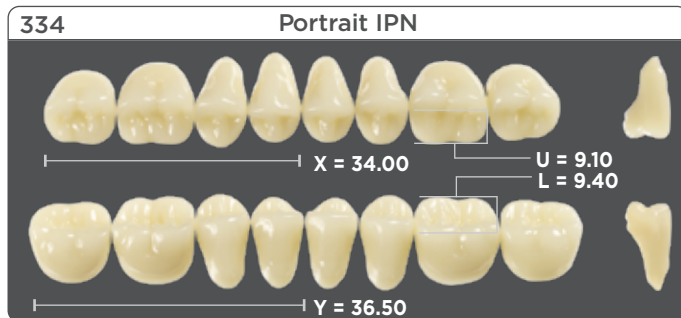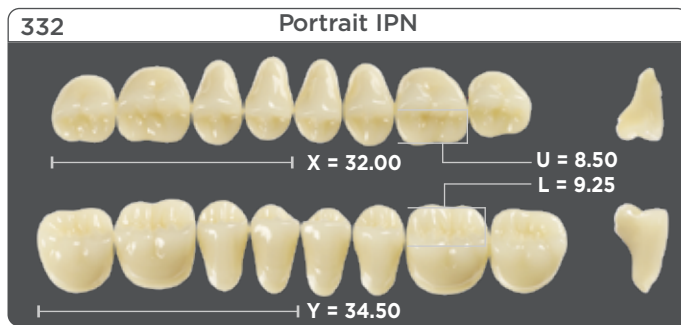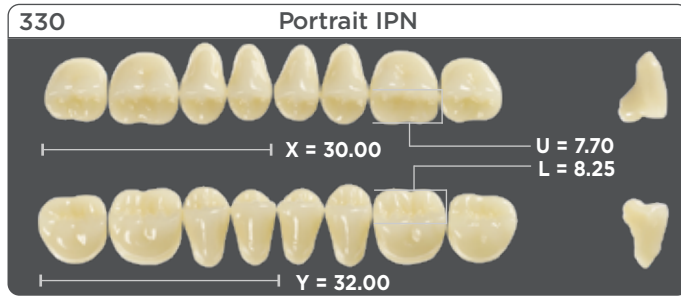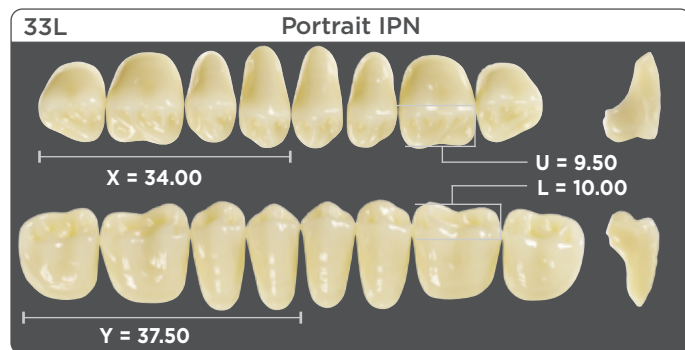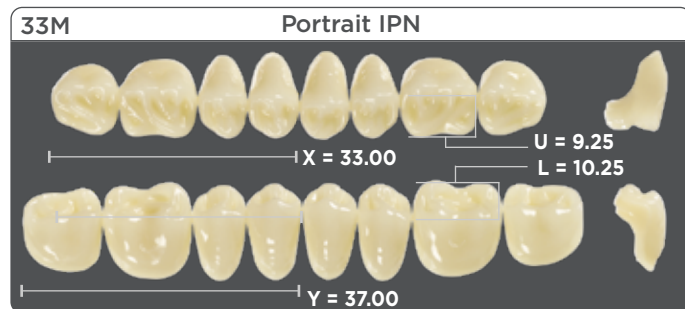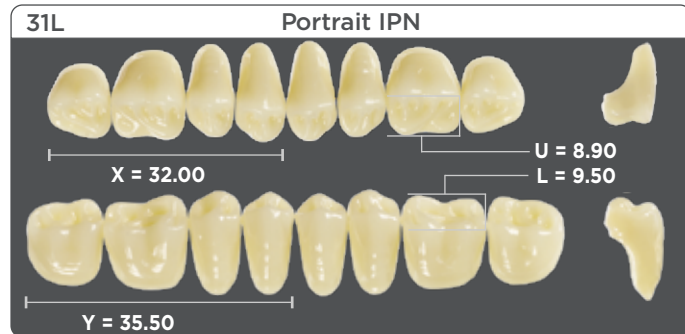
Portrait® IPN® 22° Posteriors

Aesthetically and functionally suited for complete and partial dentures. Shallow non-interfering cusps facilitate freedom in all excursions.

31L   Portrait IPN
U = 8.90
L = 9.50
X = 32.00
Y = 35.50

33M   Portrait IPN
U = 9.25
L = 10.25
X = 33.00
Y = 37.00

33L   Portrait IPN
U = 9.50
L = 10.00
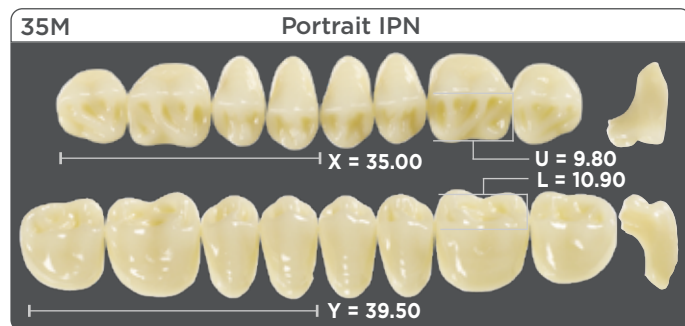X = 34.00
Y = 37.50

35M   Portrait IPN
U = 9.80
L = 10.90
X = 35.00
Y = 39.50

530   Portrait IPN
U = 7.90
L = 8.25
X = 30.00
Y = 31.50

532   Portrait IPN
U = 8.65
L = 9.00
X = 32.00
Y = 33.50

533   Portrait IPN
U = 10.00
L = 9.70
X = 33.00
Y = 34.50

536   Portrait IPN
U = 10.50
L = 11.00
X = 36.00
Y = 37.00
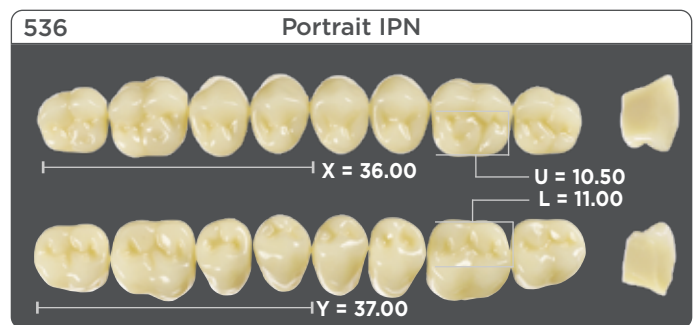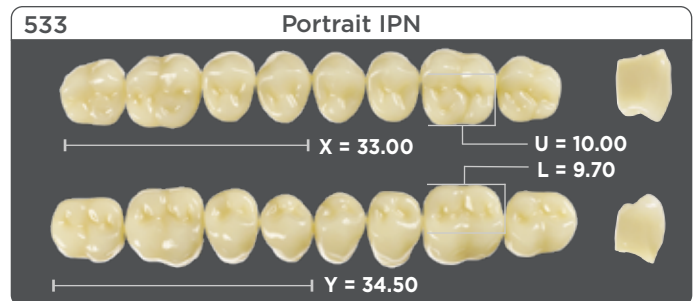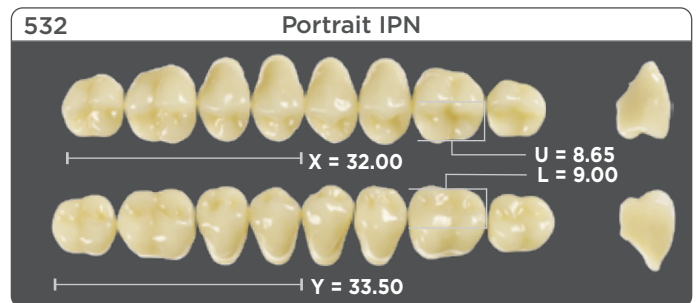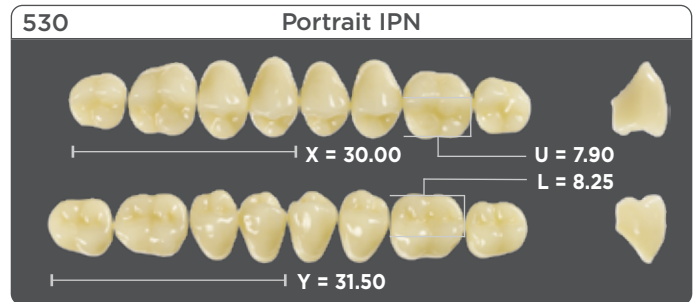
All dimensions in mm.
Images scaled to size.

Portrait® IPN® 33° Posteriors

Fully anatomical with natural cusp contours.
Ideal for complete and partial dentures which occlude
with well-developed natural teeth.

30M — Portrait IPN

X = 30.00
U = 8.10
L = 8.50
Y = 32.50

30L — Portrait IPN

X = 30.00
U = 7.90
L = 8.25
Y = 32.50

32M — Portrait IPN

X = 32.00
U = 8.50
L = 9.00
Y = 34.50

32L — Portrait IPN

X = 32.00
U = 8.50
L = 8.75
Y = 35.00

34M — Portrait IPN

X = 34.00
U = 9.10
L = 9.50
Y = 36.50

34L — Portrait IPN

X = 34.00
U = 8.90
L = 9.30
Y = 36.75
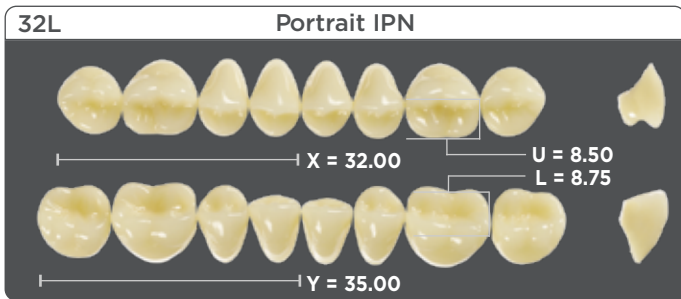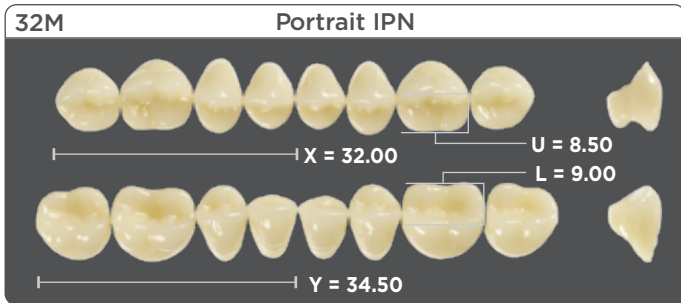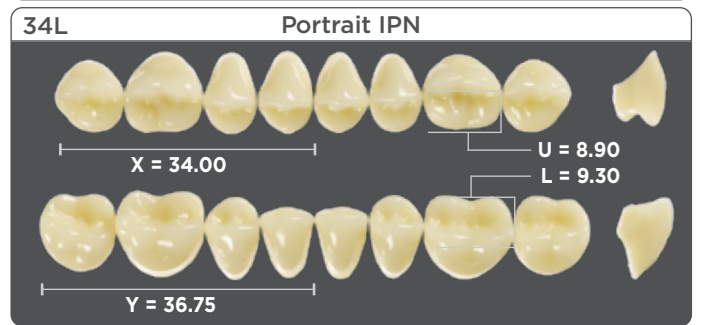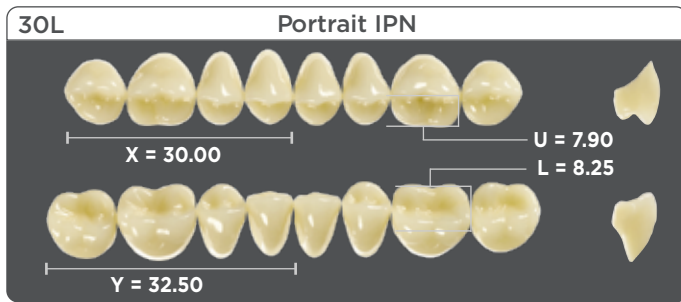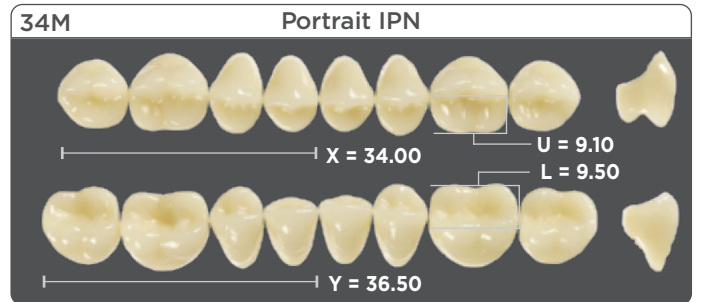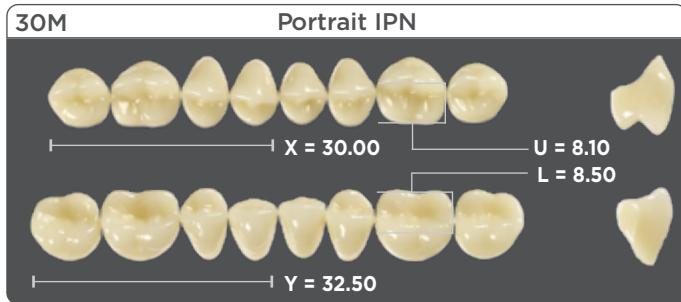
Portrait® IPN® 40° Posteriors

EuroLine IPN 40° posteriors are German designed with a natural-looking "young" occlusal pattern, wide food table and long crown form. Using 30° incisal and condylar guidance settings, they can be arranged for maximum efficiency, aesthetics and integration in full, partial or combination cases.

730	Portrait IPN

X = 29.00
U = 9.90
L = 8.30
Y = 30.70

732	Portrait IPN

X = 32.00
U = 11.00
L = 9.20
Y = 33.60

734	Portrait IPN

X = 33.50
U = 11.50
L = 9.60
Y = 35.50
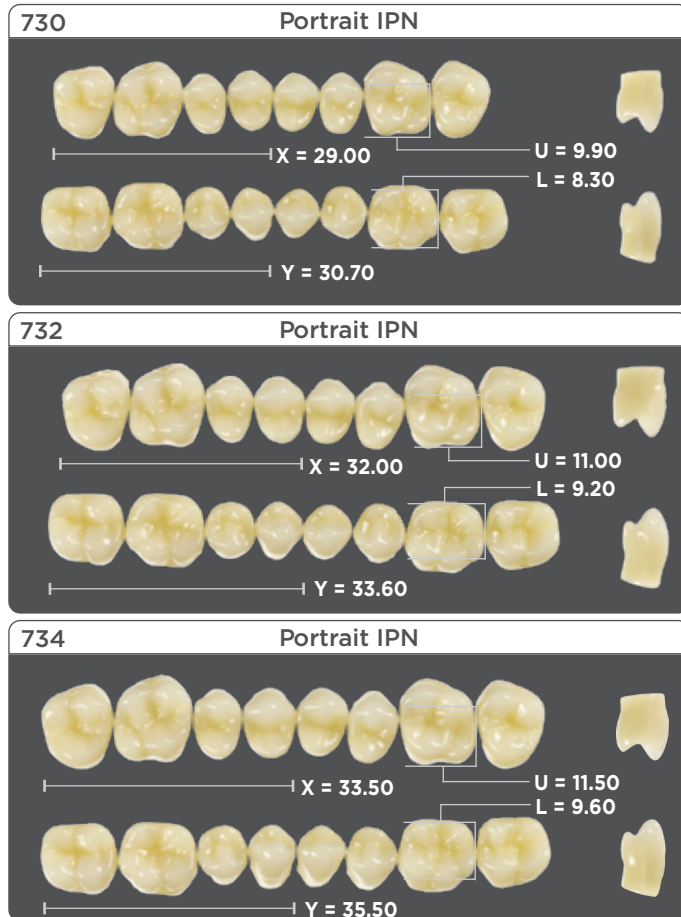
Another Life Transformed

Combination Table

Select maxillary anterior mould form, and use table to determine recommended mandibular anterior and posterior options.

Portrait® IPN® Anteriors		Portrait® IPN® Posteriors					
		Non-Anatomical	Semi-Anatomical			Anatomical	
Anterior Upper Mould No.	Articulates – With Anterior Lower	Portrait IPN 0°	Portrait IPN 10°	Portrait IPN 20°	Portrait IPN 22°	Portrait IPN 33°	Portrait IPN 40° EuroLine
11G	R	632	332	33M	532	32L	732
11H	S, W	634	334, 336[1]	33M, 35M[1]	533, 536	34M	734
12E	M, N	632	332	31M	532	32L	732
12F	N	632	332	31M, 31L	532	32L	732
12G	G, R, V	634	334	33M	533	34M	734
13E	H	630	330	31M	530	30L	730
21C	C	630	330	29M, 29L	530	30L	730
21D	F	630	330	29L	530	30L	730
21E	O	632	332	31L, 33L	532	32L	732
21G	W	634	334	33L	533	34L	734
21J	I, K1, Rx	634	334, 336	33M, 35M	533, 536	34L	734
21X	P	632	332	31M	532	32M	732
22C	C	630	330	29M	530	30M	730
22E	H	630	330	29L	530	30L	730
22G	O, P	632	332	31M	532	32M	732
22H	P	634	334	33M	533	34L	734
24F	F, G, H	632	332	31M	532	32L	732
25G	R	634	334	33M	533	34L	734
31F	J, O, P, S	632	332	31L, 33L	532	32L	732
32B	C	630	330	29M	530	30M	730
32E	H	632	332	31M	532	32M	732
32G	S	634	334	33M	533	34L	734
41J[2]	I, K1, Rx	634	336	35M	536	34L	734
42D	F	630	330	29M, 29L	530	30L	730
42F	H	632	332	31M	532	32L	732
42G	O, P	632	332	31M, 33M	532	32M	732
43D	C	630	330	29M, 29L	530	30L	730
43F	M, N, X	632	332	31M	532	32M	732
45F	J, O	632	332	31L	532	32L	732
45H	R, V	634	334	33M	533	34L	734
52C	C, D	630	330	29M	530	30M	730
54F	J, N	632	332	31L	532	32L	732
55D	E	630	330	29M	530	30M	730
55F	M	632	332	31M	532	32L	732
62D	F	630	330	29L	530	30L	730
62G	K1, R, Rx	634	334, 336	33M, 35M	533	34L	734
65G	J, O	634	334	33M	533	34L	734
74E	L	630	330	29M, 29L	530	30L	730
74H	K1	634	334, 336	33M, 33L	533	34L	734
75E	N	630	330	29L	530	30L	730
75G	R, V	632	332	31M	532	32L	732
A84	N	632	332	31M	532	32L	732

[1] Indicated for upper denture combinations only. [2] Softening the canine cusps may yield the best aesthetic results for certain posteriors.

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