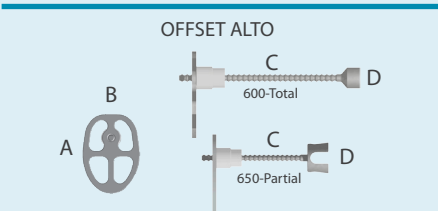
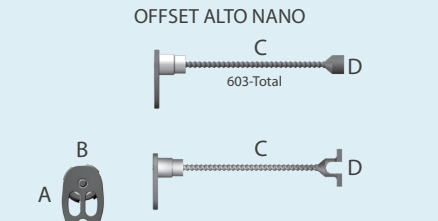
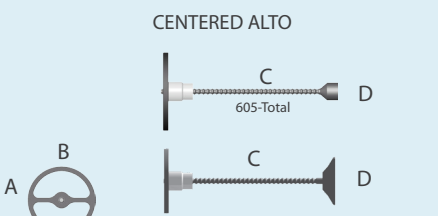
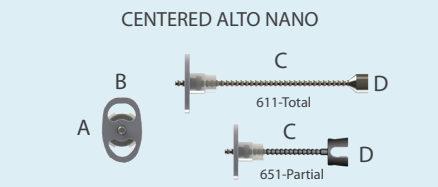
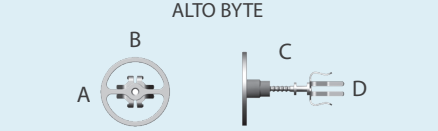


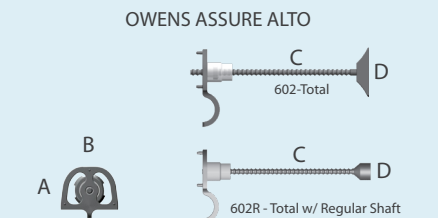
| OFFSET ALTO                                                                     |          |      |      |           |      |
|---------------------------------------------------------------------------------|----------|------|------|-----------|------|
|  |          |      |      |           |      |
| Cat. #                                                                          | Material | A    | B    | C         | D    |
| 600                                                                             | Titanium | 2.50 | 3.50 | 3.00-7.00 | 0.8  |
| 650                                                                             | Titanium | 2.50 | 3.50 | 2.00-5.60 | 1.45 |

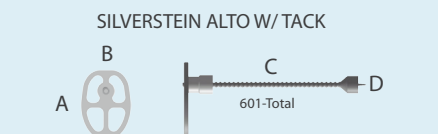
| OFFSET ALTO NANO                                                                 |          |      |      |           |           |
|----------------------------------------------------------------------------------|----------|------|------|-----------|-----------|
|  |          |      |      |           |           |
| Cat. #                                                                           | Material | A    | B    | C         | D         |
| 603                                                                              | Titanium | 1.50 | 2.50 | 3.00-7.00 | 0.8       |
| 607                                                                              | Titanium | 1.50 | 2.50 | 3.00-7.00 | 0.86x1.27 |
| 653                                                                              | Titanium | 1.50 | 2.50 | 2.00-5.60 | 1.45      |
| Designed in conjunction with Peter Weber, MD, Boston, MA                         |          |      |      |           |           |

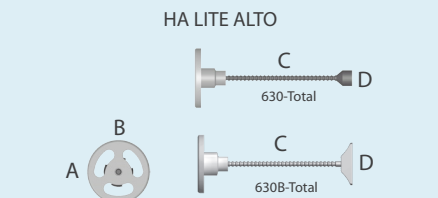
| CENTERED ALTO                                                                    |          |      |      |           |         |
|----------------------------------------------------------------------------------|----------|------|------|-----------|---------|
|  |          |      |      |           |         |
| Cat. #                                                                           | Material | A    | B    | C         | D       |
| 605                                                                              | Titanium | 3.00 | 3.00 | 3.00-7.00 | 0.8     |
| *604                                                                             | Titanium | 3.00 | 3.00 | 3.00-7.00 | 0.8x2.3 |
| 655                                                                              | Titanium | 3.00 | 3.00 | 2.00-5.60 | 1.45    |
| Designed in conjunction with Jacques Herzog, MD, St. Louis, MO                   |          |      |      |           |         |

| CENTERED ALTO NANO                                                                 |          |      |      |           |      |
|------------------------------------------------------------------------------------|----------|------|------|-----------|------|
|  |          |      |      |           |      |
| Cat. #                                                                             | Material | A    | B    | C         | D    |
| 611                                                                                | Titanium | 1.50 | 2.50 | 3.00-7.00 | 0.8  |
| 651                                                                                | Titanium | 1.50 | 2.50 | 2.00-5.60 | 1.45 |
| Designed in conjunction with Bruce Gantz, MD, Iowa City, IA                        |          |      |      |           |      |

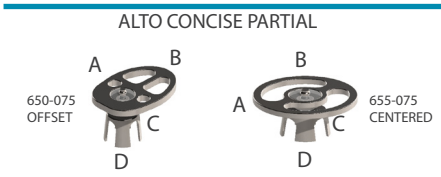
| ALTO BYTE                                                                          |          |      |      |             |            |
|------------------------------------------------------------------------------------|----------|------|------|-------------|------------|
|  |          |      |      |             |            |
| Cat. #                                                                             | Material | A    | B    | C           | D          |
| 655B                                                                               | Titanium | 3.00 | 3.00 | 2.00 - 5.60 | Adjustable |
| 654                                                                                | Titanium | 1.50 | 2.50 | 2.00 - 5.60 | Adjustable |
| May not be available in all countries                                              |          |      |      |             |            |

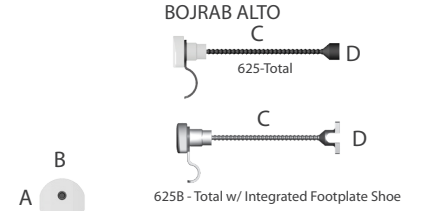
| OWENS ASSURE ALTO                                                                  |          |      |      |           |         |
|------------------------------------------------------------------------------------|----------|------|------|-----------|---------|
|  |          |      |      |           |         |
| Cat. #                                                                             | Material | A    | B    | C         | D       |
| 602                                                                                | Titanium | 2.00 | 2.50 | 3.00-7.00 | 0.8x2.3 |
| 602R                                                                               | Titanium | 2.00 | 2.50 | 3.00-7.00 | 0.8     |
| 652                                                                                | Titanium | 2.00 | 2.50 | 2.00-5.60 | 1.45    |
| Designed in conjunction with Robert Owens, MD, Dallas, TX                          |          |      |      |           |         |

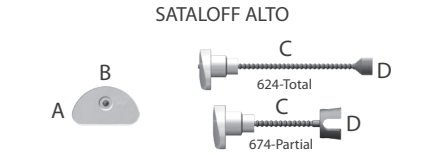
| SILVERSTEIN ALTO W/ TACK                                                           |          |      |      |           |     |
|------------------------------------------------------------------------------------|----------|------|------|-----------|-----|
|  |          |      |      |           |     |
| Cat. #                                                                             | Material | A    | B    | C         | D   |
| 601                                                                                | Titanium | 2.50 | 3.50 | 3.00-7.00 | 0.8 |
| Designed in conjunction with Herb Silverstein, MD, Sarasota, FL                    |          |      |      |           |     |

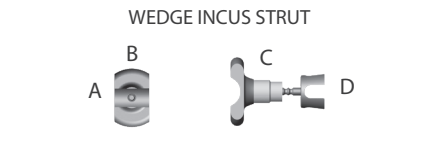
| HA LITE ALTO                                                                       |          |      |      |           |         |
|------------------------------------------------------------------------------------|----------|------|------|-----------|---------|
|  |          |      |      |           |         |
| Cat. #                                                                             | Material | A    | B    | C         | D       |
| 630                                                                                | Ti/HA    | 3.00 | 3.00 | 3.00-7.00 | 0.8     |
| 630B                                                                               | Ti/HA    | 3.00 | 3.00 | 3.00-7.00 | 0.8x2.3 |
| 685                                                                                | Ti/HA    | 3.00 | 3.00 | 2.00-5.60 | 1.45    |

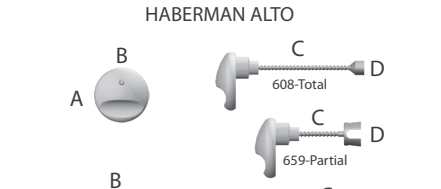
| HA ALTO                                                                            |          |      |      |           |      |
|------------------------------------------------------------------------------------|----------|------|------|-----------|------|
|  |          |      |      |           |      |
| Cat. #                                                                             | Material | A    | B    | C         | D    |
| 620                                                                                | Ti/HA    | 1.80 | 3.00 | 3.00-7.00 | 0.8  |
| 670                                                                                | Ti/HA    | 1.80 | 3.00 | 2.00-5.60 | 1.45 |

| ALTO CONCISE PARTIAL                                                             |          |      |      |           |      |
|----------------------------------------------------------------------------------|----------|------|------|-----------|------|
|  |          |      |      |           |      |
| Cat. #                                                                           | Material | A    | B    | C         | D    |
| 650-075                                                                          | Titanium | 2.50 | 3.50 | 0.75-5.75 | 1.45 |
| 655-075                                                                          | Titanium | 3.00 | 3.00 | 0.75-5.75 | 1.45 |

| BOJRAB ALTO                                                                       |          |      |      |           |           |
|-----------------------------------------------------------------------------------|----------|------|------|-----------|-----------|
|  |          |      |      |           |           |
| Cat. #                                                                            | Material | A    | B    | C         | D         |
| 625                                                                               | Ti/HA    | 1.50 | 2.00 | 3.00-7.00 | 0.8       |
| 625B                                                                              | Ti/HA    | 1.50 | 2.00 | 3.00-7.00 | 0.86x1.27 |
| 675                                                                               | Ti/HA    | 1.50 | 2.00 | 2.00-5.60 | 1.45      |
| 671                                                                               | Ti/HA    | 1.50 | 2.00 | 2.00-2.50 | 1.45      |
| Designed in conjunction with Dennis Bojrab, MD, Farmington Hills, MI              |          |      |      |           |           |

| SATALOFF ALTO                                                                     |          |      |      |           |      |
|-----------------------------------------------------------------------------------|----------|------|------|-----------|------|
|  |          |      |      |           |      |
| Cat. #                                                                            | Material | A    | B    | C         | D    |
| 624                                                                               | Ti/HA    | 1.80 | 3.00 | 3.00-7.00 | 0.8  |
| 674                                                                               | Ti/HA    | 1.80 | 3.00 | 2.00-5.60 | 1.45 |
| Designed in conjunction with Robert Sataloff, MD, Philadelphia, PA                |          |      |      |           |      |

| WEDGE INCUS STRUT                                                                                                                                  |          |      |      |           |      |
|----------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|------|-----------|------|
|                                                                 |          |      |      |           |      |
| Cat. #                                                                                                                                             | Material | A    | B    | C         | D    |
| 657                                                                                                                                                | Titanium | 2.30 | 1.50 | 1.75-2.25 | 1.45 |
| 656                                                                                                                                                | Titanium | 2.30 | 1.50 | 2.25-3.50 | 1.45 |
| Designed in conjunction with Cliff Megerian, MD, Cleveland, OH, Dennis Bojrab, MD, Farmington Hills, MI, Joseph Chen, MD, Toronto, Ontario, Canada |          |      |      |           |      |

| HABERMAN ALTO                                                                       |          |      |      |           |      |
|-------------------------------------------------------------------------------------|----------|------|------|-----------|------|
|  |          |      |      |           |      |
| Cat. #                                                                              | Material | A    | B    | C         | D    |
| 608                                                                                 | Ti/HA    | 3.30 | 3.30 | 3.00-7.00 | 0.8  |
| 659                                                                                 | Ti/HA    | 3.30 | 3.30 | 2.00-5.60 | 1.45 |
| 658                                                                                 | Ti/HA    | 3.00 | 2.00 | 2.00-5.60 | 1.45 |
| Designed in conjunction with Rex Haberman, MD, Minneapolis, MN                      |          |      |      |           |      |

# DORNHOFFER ALTO

626-Total w/ Integrated Footplate Shoe w/ windows

| Cat. # | Material | Head         | A    | B    | C         | D         |
|--------|----------|--------------|------|------|-----------|-----------|
| 635    | Ti/HA    | w/o windows  | 4.00 | 3.25 | 3.00-7.00 | 0.8       |
| 637    | Ti/HA    | with windows | 4.00 | 3.25 | 3.00-7.00 | 0.8       |
| 626    | Ti/HA    | with windows | 4.00 | 3.25 | 3.00-7.00 | 0.86x1.27 |
| 695    | Ti/HA    | w/o windows  | 4.00 | 3.25 | 2.00-5.60 | 1.45      |
| 687    | Ti/HA    | with windows | 4.00 | 3.25 | 2.00-5.60 | 1.45      |
| 690    | Ti/HA    | w/o windows  | 4.00 | 3.25 | 2.00      | 1.45      |
| 691    | Ti/HA    | with windows | 4.00 | 3.25 | 2.00      | 1.45      |

Designed in conjunction with John Dornhoffer, MD, Little Rock, AR

| DORNHOFFER FOOTPLATE SHOE                                                           |          |     |        |       |        |
|-------------------------------------------------------------------------------------|----------|-----|--------|-------|--------|
|  |          |     |        |       |        |
| Cat. #                                                                              | Material | ID  | Length | Width | Height |
| 636-080                                                                             | Titanium | 0.8 | 1.40   | 1.09  | 1.14   |
| Designed in conjunction with John Dornhoffer, MD, Little Rock, AR                   |          |     |        |       |        |

**MORETZ DELTA ALTO**

A      B      C      D

647-Total

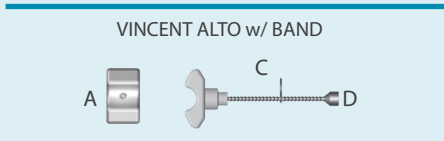
B      C      D

697-Partial

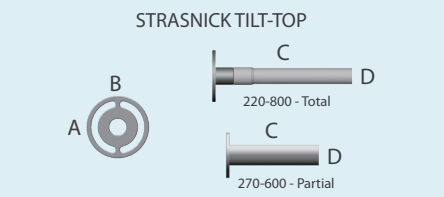
| Cat. # | Material | A    | C         | D    |
|--------|----------|------|-----------|------|
| 647    | Ti/HA    | 2.20 | 3.00-7.00 | 0.8  |
| 697    | Ti/HA    | 2.20 | 2.00-5.60 | 1.45 |

Designed in conjunction with William Moretz, MD, Augusta, GA

| MORETZ ALTO                                                                         |          |     |     |           |     |
|-------------------------------------------------------------------------------------|----------|-----|-----|-----------|-----|
|  |          |     |     |           |     |
| Cat. #                                                                              | Material | A   | B   | C         | D   |
| 612-001L                                                                            | Ti/HA    | 1.9 | 5.6 | 3.00-7.00 | 0.8 |
| 612-002R                                                                            | Ti/HA    | 1.9 | 5.6 | 3.00-7.00 | 0.8 |
| Designed in conjunction with William Moretz, MD, Augusta, GA                        |          |     |     |           |     |

| VINCENT ALTO w/ BAND                                                              |             |             |             |             |     |
|-----------------------------------------------------------------------------------|-------------|-------------|-------------|-------------|-----|
|  |             |             |             |             |     |
| Cat. #                                                                            | Head Design | Material    | A           | C           | D   |
| 614                                                                               | Vincent     | HA/Titanium | 2.00 x 3.30 | 3.00 - 7.00 | 0.8 |
| 617                                                                               | Centered    | Titanium    | 3.00        | 3.00 - 7.00 | 0.8 |
| 618                                                                               | HA Lite     | HA/Titanium | 3.00        | 3.00 - 7.00 | 0.8 |
| 619                                                                               | Bojrab      | HA/Titanium | 2.00 x 1.50 | 3.00 - 7.00 | 0.8 |

Designed in conjunction with Robert Vincent, MD, Causse Ear Clinic, Béziers, France  
Not available for sale in the US

| STRASNICK TILT-TOP                                                                 |                 |      |      |      |      |
|------------------------------------------------------------------------------------|-----------------|------|------|------|------|
|  |                 |      |      |      |      |
| Cat. #                                                                             | Material        | A    | B    | C    | D    |
| 270-600                                                                            | Titanium/Otosil | 3.00 | 3.00 | 6.10 | 1.10 |
| 220-800                                                                            | Titanium/Otosil | 3.00 | 3.00 | 8.00 | 0.9  |
| Designed in conjunction with Barry Strasnack, MD, Norfolk,                         |                 |      |      |      |      |

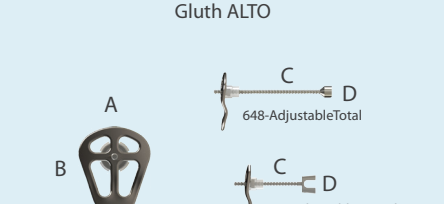
| KRAUS K-HELIX                                                                      |          |                        |
|------------------------------------------------------------------------------------|----------|------------------------|
|  |          |                        |
| Cat. #                                                                             | Material | Type                   |
| 756-300                                                                            | Titanium | Crown                  |
| 757-300                                                                            | Titanium | Piston                 |
| 636-060                                                                            | Titanium | Footplate Shoe, 0.6 ID |
| Designed by Eric Kraus, MD, Greensboro, NC                                         |          |                        |

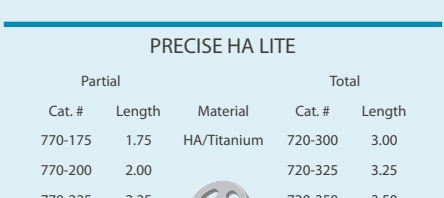
## DUO ALTO TOTAL W/ STAPES ADAPTER

The diagram illustrates the Duo Alto Total with Stapes Adapter components and assembly. It shows two views of the total device (A and B) and two views of the partial device (C and D). Component E is the stapes adapter. An arrow points to the assembly of the total device with the stapes adapter, labeled "Place Total in cup to create Partial".

| Cat. # | Material          | A    | B    | C         | D   | E    |
|--------|-------------------|------|------|-----------|-----|------|
| 600A   | Offset Titanium   | 2.50 | 3.50 | 2.00-7.00 | 0.8 | 1.45 |
| 605A   | Centered Titanium | 3.00 | 3.00 | 2.00-7.00 | 0.8 | 1.45 |

Designed in conjunction with Howard Francis, MD, Baltimore, MD

| Gluth ALTO                                                                           |          |      |      |           |      |
|--------------------------------------------------------------------------------------|----------|------|------|-----------|------|
|  |          |      |      |           |      |
| Cat. #                                                                               | Material | A    | B    | C         | D    |
| 648                                                                                  | Titanium | 3.25 | 4.00 | 3.00-7.00 | 0.8  |
| 678                                                                                  | Titanium | 3.25 | 4.00 | 2.00-5.60 | 1.45 |
| Designed in conjunction with Michael Gluth, MD, Chicago, IL                          |          |      |      |           |      |

| PRECISE HA LITE                                                                      |        |             |         |        |  |
|--------------------------------------------------------------------------------------|--------|-------------|---------|--------|--|
|  |        |             |         |        |  |
| Partial                                                                              |        |             | Total   |        |  |
| Cat. #                                                                               | Length | Material    | Cat. #  | Length |  |
| 770-175                                                                              | 1.75   | HA/Titanium | 720-300 | 3.00   |  |
| 770-200                                                                              | 2.00   |             | 720-325 | 3.25   |  |
| 770-225                                                                              | 2.25   |             | 720-350 | 3.50   |  |
| 770-250                                                                              | 2.50   |             | 720-375 | 3.75   |  |
| 770-275                                                                              | 2.75   |             | 720-400 | 4.00   |  |
| 770-300                                                                              | 3.00   |             | 720-425 | 4.25   |  |
| 770-325                                                                              | 3.25   |             | 720-450 | 4.50   |  |
| 770-350                                                                              | 3.50   |             | 720-475 | 4.75   |  |
| 770-375                                                                              | 3.75   |             | 720-500 | 5.00   |  |
| 770-400                                                                              | 4.00   |             | 720-525 | 5.25   |  |
| 770-425                                                                              | 4.25   |             | 720-550 | 5.50   |  |
| 770-450                                                                              | 4.50   |             | 720-575 | 5.75   |  |
|                                                                                      |        |             | 720-600 | 6.00   |  |
|                                                                                      |        |             | 720-625 | 6.25   |  |
|                                                                                      |        |             | 720-650 | 6.50   |  |
|                                                                                      |        |             | 720-675 | 6.75   |  |
|                                                                                      |        |             | 720-700 | 7.00   |  |
| Designed in conjunction with Michael Hoffer, MD, San Diego, CA                       |        |             |         |        |  |

| PRECISE OFFSET TITANIUM |        |                                                                                      |         |        |  |
|-------------------------|--------|--------------------------------------------------------------------------------------|---------|--------|--|
| Partial                 |        |                                                                                      | Total   |        |  |
| Cat. #                  | Length | Material                                                                             | Cat. #  | Length |  |
| 751-075                 | 0.75   |  | 700-300 | 3.00   |  |
| 751-100                 | 1.00   |                                                                                      | 700-325 | 3.25   |  |
| 751-125                 | 1.25   |                                                                                      | 700-350 | 3.50   |  |
| 751-150                 | 1.50   |                                                                                      | 700-375 | 3.75   |  |
| 750-175                 | 1.75   |  | 700-400 | 4.00   |  |
| 750-200                 | 2.00   |                                                                                      | 700-425 | 4.25   |  |
| 750-225                 | 2.25   |                                                                                      | 700-450 | 4.50   |  |
| 750-250                 | 2.50   |                                                                                      | 700-475 | 4.75   |  |
| 750-275                 | 2.75   |                                                                                      | 700-500 | 5.00   |  |
| 750-300                 | 3.00   |                                                                                      | 700-525 | 5.25   |  |
| 750-325                 | 3.25   |                                                                                      | 700-550 | 5.50   |  |
| 750-350                 | 3.50   |                                                                                      | 700-575 | 5.75   |  |
| 750-375                 | 3.75   |                                                                                      | 700-600 | 6.00   |  |
| 750-400                 | 4.00   |                                                                                      | 700-625 | 6.25   |  |
| 750-425                 | 4.25   |                                                                                      | 700-650 | 6.50   |  |
| 750-450                 | 4.50   |                                                                                      | 700-675 | 6.75   |  |
|                         |        |                                                                                      | 700-700 | 7.00   |  |

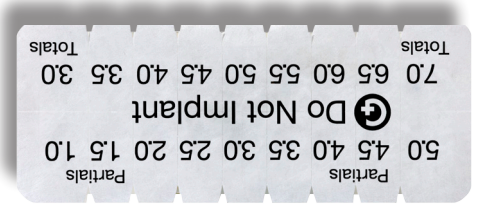
# Cartilage MICROTOME

- Accurate and consistent measurements
- Broad thickness range [0.1mm up to 0.9mm]
- Simple to assemble and operate
- Eliminates need for distance plates
- Safeguard for hands and fingers
- Stability to safely guide cutting motion



990-001 Cartilage Microtome  
990-002 Cartilage Microtome Blades (6/Box)

# Grace ALTO System



The Grace ALTO line offers a unique patented method that makes the ALTO the only non-crimp adjustable length titanium design in otology today. This advantage allows the surgeon to adjust the prosthesis even after initial sizing, trimming and placement. The prosthesis can be lengthened or shortened in precise .25mm increments. Each ALTO product is packaged in the patented ALTO adjuster which simplifies the need to properly size the implant.

## Implant Buyers Guide



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