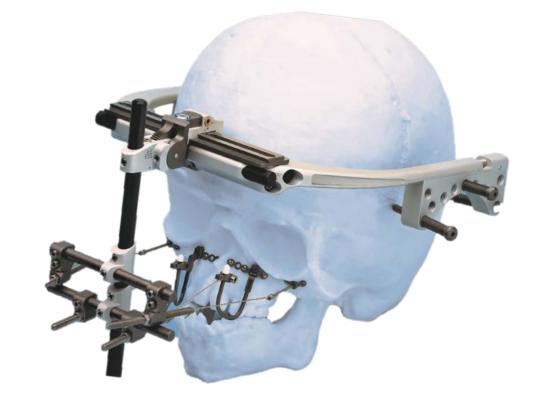
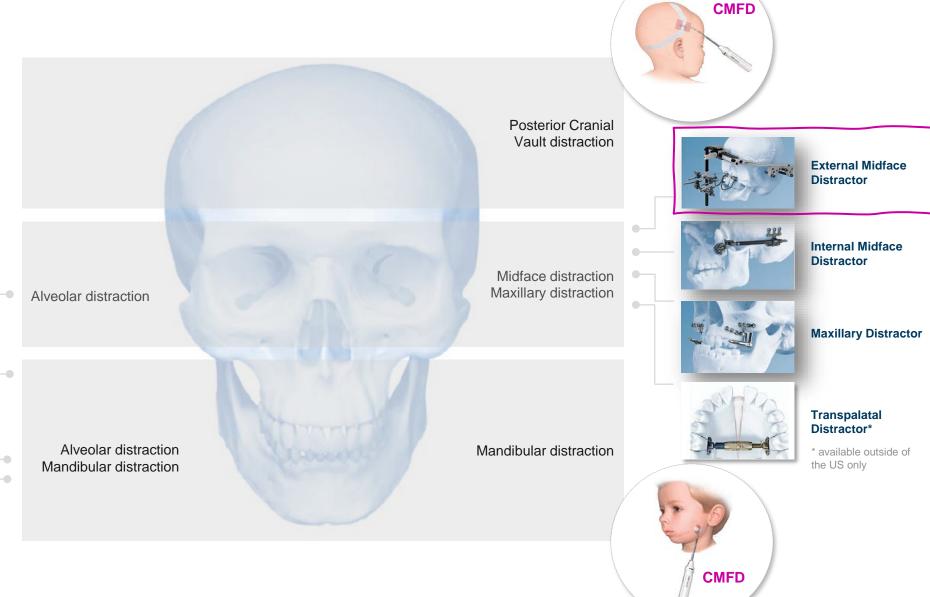
Paulina Schneider Global Strategic Marketing





DePuy Synthes Distraction Portfolio





Alveolar Distractor

Curvilinear

Distractor

Titanium Multi-Vector Distractor

Indications & Contraindications

Intended use

The DePuy Synthes External Midface Distractor is intended for use as a bone stabilizer and lengthening device, where gradual bone distraction is required.

Indications

The External Midface Distraction System is indicated for craniofacial surgery, reconstructive procedures, and selective orthognathic surgery of the maxilla. Specifically, it is indicated for distraction where gradual distraction osteosynthesis is required in adult and pediatric populations.

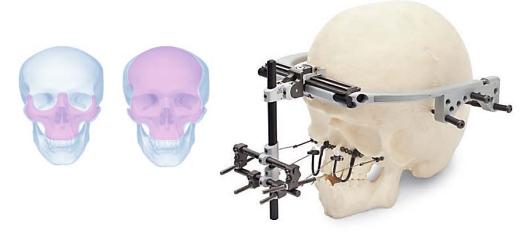
Contraindications

There are no contraindications for the DePuy Synthes External Midface Distractor

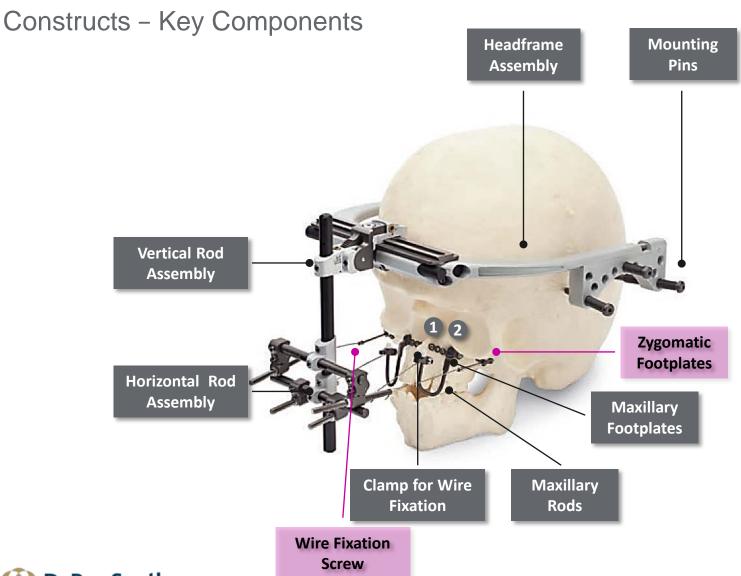
LeFort I and LeFort II advancements



LeFort III and Monobloc advancements







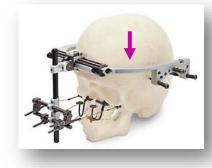
System is constructed from:

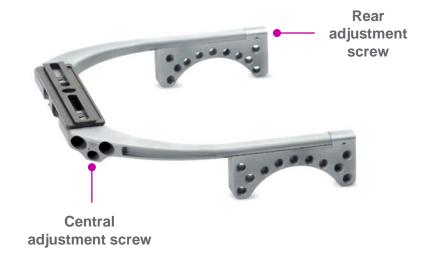
- 1 Headframe assembly
- 1 Vertical Rod Assembly
- 1-2 Horizontal Rod Assemblies
- 2 Clamps for Wire Fixation
- 2 Maxillary Rods
- 2 Maxillary Footplates
- 2 Zygomatic Footplates
- 2 Wire Fixation Screw
- 2 Machine Screws for External Midface Distractor (#2 in the image)
- Min. 6 Cortex PLUSDRIVE™ Screws 1.5 mm (min. 3 per side; #1 in the image)
- Min. 6 Mounting Pins (min. 3 per side)

In pink, the components needed for LeFort III or Monobloc advancements are shown



Key Components





Headframe

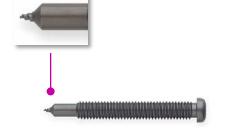
- Preassembled
- Made of lightweight aluminum
- Possible adjustments:
 - Anterior-posterior adjustment (with Rear adjustment screw)
 - Medial-lateral adjustments (with Central adjustments screw)
- Attaches to cranium with cranial pins (several pin location options available)

Mounting Pins

- Fixation Screws provide rigid fixation of the Headframe Assembly to the skull
- Available Fixation Screws:





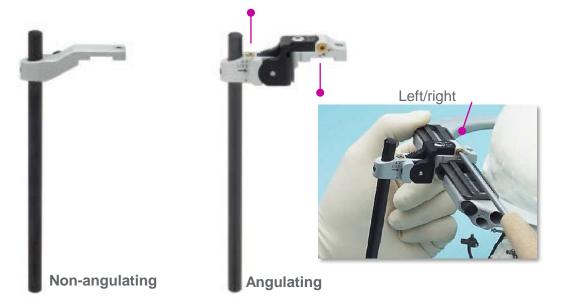


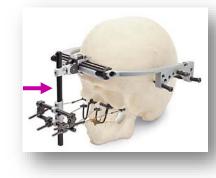


Key Components







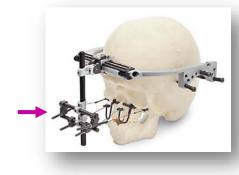


Vertical Rod Assembly

- Placed for alignment with patient's midline
- Available in non-angulating and angulating configurations
- Angulating configuration allows postoperative adjustments of mobile segment (left/right and anterior/posterior)
- Carbon fiber rod lengths are available (lengths: 50, 100 and 120mm)

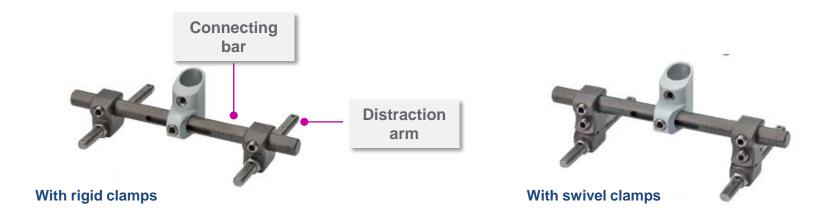


Key Components



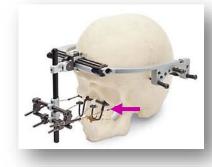
Horizontal Rod Assembly

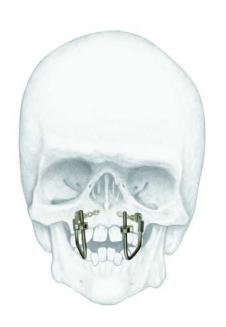
- One Horizontal Rod Assembly should be used for LeFort I and LeFort II procedures
- Two Horizontal Rod Assemblies should be used for LeFort III and Monobloc procedures
- Available with rigid clamps or swivel clamps
- Adjustable clamps allow postoperative adjustments (individual transverse plane adjustments of the distraction arms)
- 40 mm Distraction arms attach the Horizontal Rod Assembly to the midface segment using stainless steel surgical wires.
- Different length Connecting bars are available (50 and 120mm)

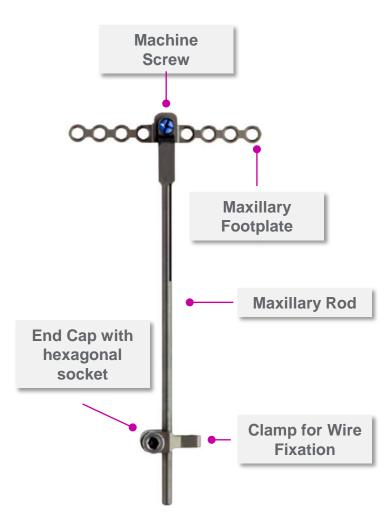




Key Components







For LeFort III or Monobloc advancements

Maxillary Footplate Assembly

- It is intended for use where tooth-borne fixation with an orthodontic splint is not desirable or possible.
- A second surgical procedure under local anesthesia is required to remove the maxillary footplate assembly.

Maxillary Rods

- 80 mm
- Large, 80 mm, with Offset
- 110 mm

Maxillary Foot Plate

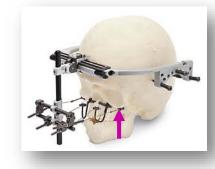
length 40 mm

Screws for bone fixation

- Cortex PLUSDRIVE Screws, 1.5mm, self-drilling
- Emergency PLUSDRIVE Screws, 2.0mm, self-tapping



Key Components





For LeFort III or Monobloc advancements

Zygomatic Footplate & Wire Fixation Screw

- Used for LeFort III and Monobloc advancements
- Used for fixation to either the infraorbital or supraorbital rim
- Made of Titanium



Zygomatic Footplate

- Symmetrical on both sides
- Can be adapted to the infraorbital rims for LeFort III advancements or to the supraorbital rims for Monobloc advancements
- Fixed to the bone with two PLUSDRIVE Screws and a Wire Fixation Screw

Wire Fixation Screws

- Available in **15**, **21**, **27mm lengths**
- They can be removed percutaneously after the consolidation phase, avoiding the need for a second surgery.
- The Wire Fixation Screw thread into the footplate and the bone.



Key Messages



- Can be used for LeFort I, II, III and Monobloc advancements
- Preassembled components for quick device assembly in the OR
- Possibility of multiple pre-, intra- and postoperative adjustments for vertical, horizontal, sagittal and occlusal vector control
- Internal hardware options for tooth-borne fixation
- Mounting pin location options for stability of headframe placement
- Self-drilling or conical-tipped titanium cranial pins designed for secure bone engagement
- Lightweight aluminum, titanium, and carbon fiber components designed for patient comfort



