Curvilinear Distractor

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DePuy Synthes Distraction Portfolio

- Posterior Cranial Vault distraction
- Midface distraction Curvilinear distraction
- Alveolar distraction
- Mandibular distraction

CMFD

External Midface Distractor
Internal Midface Distractor
Maxillary Distractor
Transpalatal Distractor*

* available outside of the US only

This description alone does not provide sufficient background for direct use. Please refer to the instructions for use for a complete list of indications, contraindications, warnings and precautions.
Curvilinear Distractor

Introduction

Internal distraction devices that advance the mandible along a curved path to allow the bone growth along both horizontal and vertical vectors.

1.3 Curvilinear Distractor

2.0 Curvilinear Distractor
Curvilinear Distractor
Intended Use, Indications & Contraindications

Intended Use
The DePuy Synthes Curvilinear Distraction System is intended for use as a bone stabilizer and lengthening (and/or transport) device.

Indications
The DePuy Synthes Curvilinear Distraction System is indicated for correction of congenital deficiencies or posttraumatic defects of the mandibular body and ramus where gradual bone distraction is required.

The Curvilinear Distraction System is intended for single use only.

Contraindications
Use of the DePuy Synthes Curvilinear Distraction System is contraindicated in patients sensitive to nickel.
Curvilinear Distractor
System Content – Distractors

Available in various radii of curvature to help accommodate individual patient’s needs

- The distraction radius (i.e. R30) corresponds to the distance in millimeters from the center of a circle to the centerline curvature of distractor.
- A smaller radius results in a tighter curvature of distraction whereas a larger radius is closer to a straight path.
- Also available in a straight version

Capable of 35 mm of advancement
Curvilinear Distractor
System Content – Extension Arms

- Can be **removed after the activation period**\(^1\)

- **Flexible Extension Arms** with in-line removal to easily disengage in presence of soft tissue coverage\(^2\).
  - Offered in 3 lengths: 30, 40, 60mm

- **Rigid Extension Arms** are also available
  - Offered in 3 lengths: 20, 40, 60mm.

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1.3 Curvilinear Distractor

Curved track
- Can be trimmed

Housing
- Protects worm gear assembly

Flexible Extension Arms
- Lengths: 30, 40, 60mm
- Protective silicone covering

Moveable Footplate

Footplates
- Mesh design for 1.3 distractor

Eched lines
- Indicate the cutting location for the desired distractor advancement

Crimped track
- To prevent footplates separation, if the track was cut
- Do not contour

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Curvilinear Distractor

2.0 Curvilinear Distractor

Housing
- Protects worm gear assembly

Curved track
- Can be trimmed

Flexible Extension Arms
- Lengths: 30, 40, 60mm
- Protective silicone covering

Moveable Footplate

Footplates
- Cloverleaf For 2.0 Distractor
- Accept Locking Screws As Well

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Curvilinear Distractor

Key Messages

- Internal distractor for use in mandible
- Advance along a curved track to promote bone growth along both horizontal and vertical vectors
- 5 radii of curvature available
- Straight version also available
- Advancements possible up to 35mm
- Indicated for adult and pediatric patient (including neonates):
  - 2 plate designs available
- Extension arms moving point of distractor activation to more accessible area can be removed during consolidation phase during an in-office procedure