

**SEXTANT®** system was succeeded by the second-generation

**PathFinder®** (**Abbott** Spine, Austin, TX, USA), **VIPER®** (**DePuy Synthes** Spine, Raynham, MA, USA), **MANTIS®** (**Stryker** Kalamazoo, MI, USA) **SpiRIT®** (Synthes, Solothurn, Switzerland), and **Ballista®** (**Biomet Spine**, Broomfield, CO, USA) in 2009; and **ILLICO SE®** (**Alphatec Spine**, Carlsbad, CA, USA) in 2011

Typical third-generation systems include **ES2®** (Stryker)

**VIPER 2 X-tab®** (DePuy Synthes Spine)

CD Horizon Solera Voyager spinal system® (Medtronic)

**PRECEPT®** (NuVasive, San Diego, CA, USA)

**RELINE®** (NuVasive)

Associa Harp®/Associa Zique® (KYOCERA, Kyoto, Japan)

**CREO®** (**Globus Medical**, Audubon, PA, USA)

Saccura® (Teijin Nakashima Medical, Tokyo, Japan)

**IBIS®/Pisces®** (Japan Medical Dynamic Marketing, Tokyo, Japan)

Furthermore, fourth-generation PPS systems that do not require the use of conventional guidewires were introduced from 2019 onwards, including **VIPER PRIMETM System®** (DePuy Synthes Spine)

**Voyager ATMAS®** (Medtronic). To date, approximately 30 types of systems have been made available since 2022 when including product revisions

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