

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 PRIME**™ 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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