

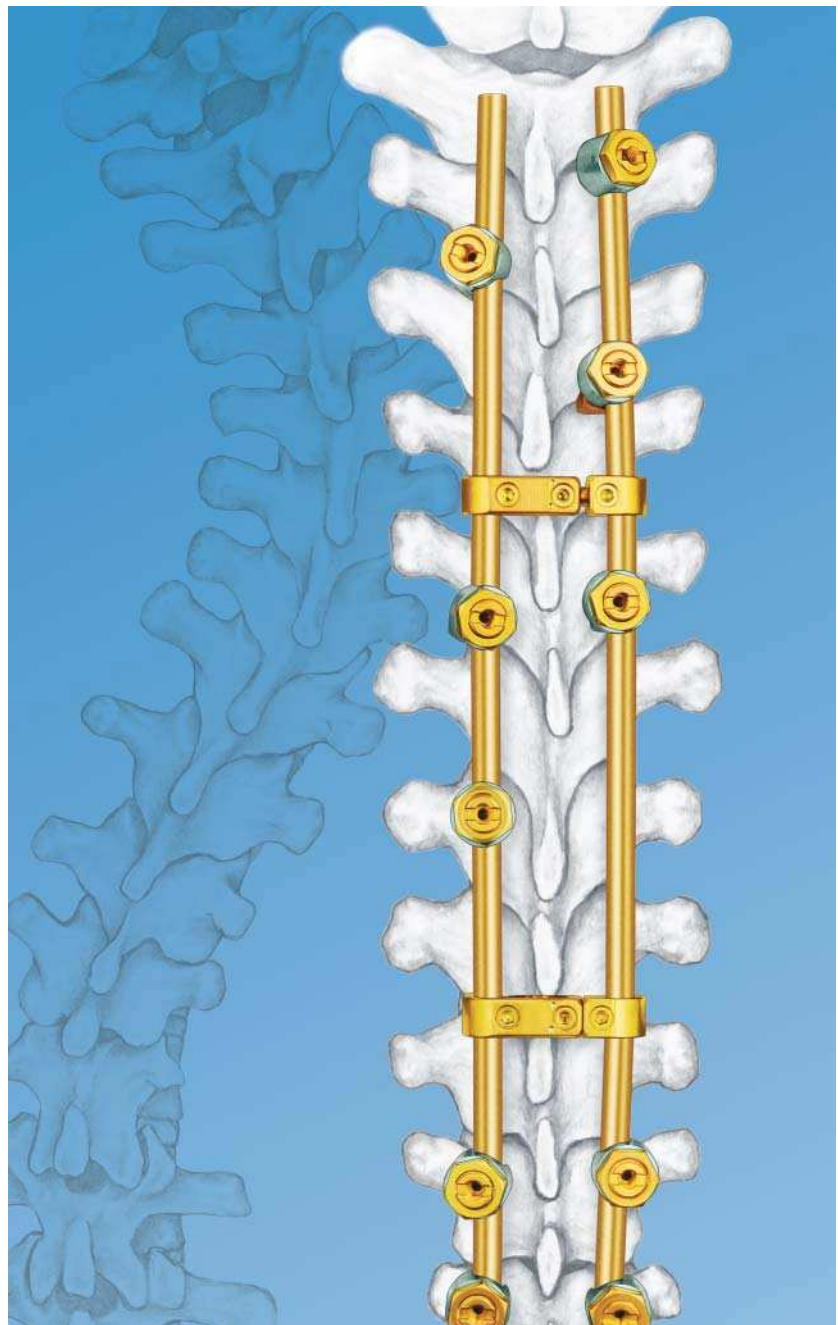


Ortho Innovations

PAKISTAN

ORTHON USS SPINE SYSTEM

SOLUTIONS OF SCOLIOSIS





Goals of Scoliosis Surgery

- Correct sagittal and coronal alignment
- Restore balance in the spine
- Prevent further progression of deformity
- Fuse the fewest number of vertebral segments
- Protect the spinal cord

The Universal Spinal System is designed to achieve the goals of scoliosis surgery. The system is based upon:

- Independent anchorage of hooks and/or screws to the spine and independent rod positioning
- Simple connection between the implant and the rod
- Segmental correction and stabilization



Features and Benefits

Low-profile system

Side-opening, top-tightening construct

- Simplifies intraoperative procedure
- Requires no implant preloading onto rod
- Single Core Screws offered in titanium and stainless steel (Fig. 1)
- Dual Core Screws offered in titanium (Fig. 2)

Technique adaptability

Designed to correct scoliosis by segmental correction or global derotation.

Versatile linkage mechanism

Allows addition or removal of anchorage points to an assembled construct.

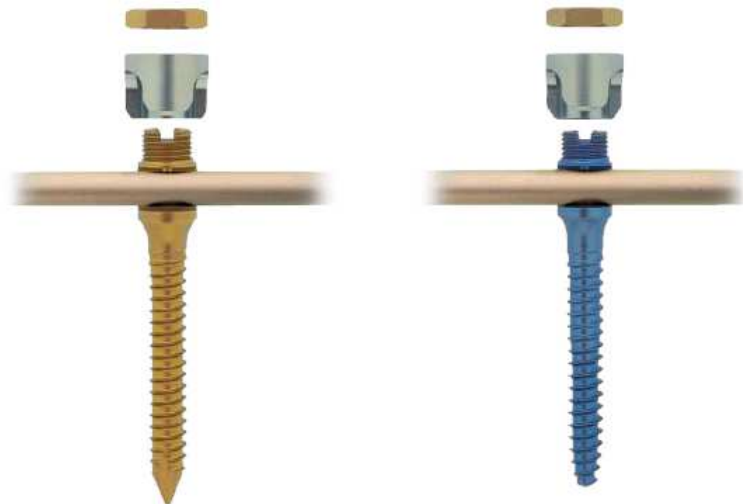


Fig. 1
Single Core

Fig. 2
Dual Core



Hooks

- Low-profile design
- Side-opening design allows rod attachment to side of the hook
- Multiple designs for use around the lamina, pedicle or transverse process
- Specialized lamina hooks for thoracic and lumbar applications
- Frontal hooks for attachment to the transverse bar



Pedicle Hook



Lamina Hook



Thoracic Lamina Hook



Transverse Process Hook

Collars and Nuts

- Secure screws and hooks to the 6.0 mm rod
- Collars capture the rod, yet allow longitudinal adjustments along the rod before tightening
- 11 mm nuts secure the construct



Screws

- Low-profile design
- Side-opening design simplifies intraoperative rod-to-screw assembly
- Both screw types are self-tapping
- Available in stainless steel or titanium single core, single lead design of 4.2 mm, 5.0 mm, 6.0 mm, 7.0 mm, 8.0 mm and 9.0 mm diameters, in lengths ranging from 25 mm to 140 mm (Fig.1)
- Available in titanium dual core, single lead design of 4.0 mm, 5.0 mm, 6.0 mm, 7.0 mm, 8.0 mm and 9.0 mm diameters, in lengths ranging from 25 mm to 100 mm (Fig.2)
- Dual core screws with rounded tips promote safe screw insertion



Fig. 1
Single Core



Fig. 2
Dual Core



SINGLE CORE PEDICLE SCREW 4.2MM Ø
STAINLESS STEEL

USS-001	25 MM LENGTH
USS-002	30 MM LENGTH
USS-003	35 MM LENGTH
USS-004	40 MM LENGTH
USS-005	45 MM LENGTH
USS-006	50 MM LENGTH
USS-007	55 MM LENGTH

IN TITANIUM USS-101 TO USS- 107



SINGLE CORE PEDICLE SCREW 5.2MM Ø
STAINLESS STEEL

USS-201	25 MM LENGTH
USS-202	30 MM LENGTH
USS-203	35 MM LENGTH
USS-204	40 MM LENGTH
USS-205	45 MM LENGTH
USS-206	50 MM LENGTH
USS-207	55 MM LENGTH
USS-208	60 MM LENGTH
USS-209	65 MM LENGTH

IN TITANIUM USS-301 TO USS-309



SINGLE CORE PEDICLE SCREW 6.2MM Ø
STAINLESS STEEL

USS-401	30 MM LENGTH
USS-402	35 MM LENGTH
USS-403	40 MM LENGTH
USS-404	45 MM LENGTH
USS-405	50 MM LENGTH
USS-406	55 MM LENGTH
USS-407	60 MM LENGTH
USS-408	65 MM LENGTH
USS-409	70 MM LENGTH

IN TITANIUM USS-501 TO USS-509



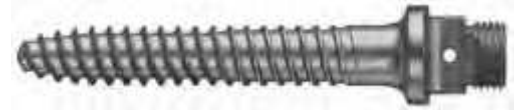


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SINGLE CORE PEDICLE SCREW 7.0MM Ø
STAINLESS STEEL

USS-601	30 MM LENGTH
USS-602	35 MM LENGTH
USS-603	40 MM LENGTH
USS-604	45 MM LENGTH
USS-605	50 MM LENGTH
USS-606	55 MM LENGTH
USS-607	60 MM LENGTH
USS-608	65 MM LENGTH
USS-609	70 MM LENGTH
USS-610	75 MM LENGTH

IN TITANIUM USS-701 TO USS 710



SINGLE CORE PEDICLE SCREW 8.0MM Ø
TITANIUM

USS-801	30 MM LENGTH
USS-802	35 MM LENGTH
USS-803	40 MM LENGTH
USS-804	45 MM LENGTH
USS-805	50 MM LENGTH
USS-806	55 MM LENGTH
USS-807	60 MM LENGTH
USS-808	65 MM LENGTH
USS-809	70 MM LENGTH
USS-810	75 MM LENGTH
USS-811	80 MM LENGTH



SINGLE CORE PEDICLE SCREW 9.0MM Ø
TITANIUM

USS-901	35 MM LENGTH
USS-902	40 MM LENGTH
USS-903	45 MM LENGTH
USS-904	50 MM LENGTH
USS-905	55 MM LENGTH
USS-906	60 MM LENGTH
USS-907	65 MM LENGTH
USS-908	70 MM LENGTH
USS-909	75 MM LENGTH
USS-910	80 MM LENGTH





DOUBLE CORE PEDICLE SCREW 4.0MM Ø
STAINLESS STEEL

USS-001A	25 MM LENGTH
USS-002A	30 MM LENGTH
USS-003 A	35 MM LENGTH
USS-004A	40 MM LENGTH
USS-005A	45 MM LENGTH
USS-006A	50 MM LENGTH
USS-007A	55 MM LENGTH

IN TITANIUM USS-101A TO USS- 107A



DOUBLE CORE PEDICLE SCREW 5.0MM Ø
STAINLESS STEEL

USS-201A	25 MM LENGTH
USS-202A	30 MM LENGTH
USS-203A	35 MM LENGTH
USS-204A	40 MM LENGTH
USS-205A	45 MM LENGTH
USS-206A	50 MM LENGTH
USS-207A	55 MM LENGTH
USS-208A	60 MM LENGTH
USS-209A	65 MM LENGTH

IN TITANIUM USS-301A TO USS-309A



DOUBLE CORE PEDICLE SCREW 6.0MM Ø
STAINLESS STEEL

USS-401A	30 MM LENGTH
USS-402A	35 MM LENGTH
USS-403A	40 MM LENGTH
USS-404A	45 MM LENGTH
USS-405A	50 MM LENGTH
USS-406A	55 MM LENGTH
USS-407A	60 MM LENGTH
USS-408A	65 MM LENGTH
USS-409A	70 MM LENGTH

IN TITANIUM USS-501A TO USS-509A





DOUBLE CORE PEDICLE SCREW 7.0MM Ø
STAINLESS STEEL

USS-601A	30 MM LENGTH
USS-602A	35 MM LENGTH
USS-603A	40 MM LENGTH
USS-604A	45 MM LENGTH
USS-605A	50 MM LENGTH
USS-606A	55 MM LENGTH
USS-607A	60 MM LENGTH
USS-608A	65 MM LENGTH
USS-609A	70 MM LENGTH
USS-610A	75 MM LENGTH

IN TITANIUM USS-701A TO USS 710A



DOUBLE CORE PEDICLE SCREW 8.0MM Ø
TITANIUM

USS-801A	30 MM LENGTH
USS-802A	35 MM LENGTH
USS-803A	40 MM LENGTH
USS-804A	45 MM LENGTH
USS-805A	50 MM LENGTH
USS-806A	55 MM LENGTH
USS-807A	60 MM LENGTH
USS-808A	65 MM LENGTH
USS-809A	70 MM LENGTH
USS-810A	75 MM LENGTH
USS-811A	80 MM LENGTH



DOUBLE CORE PEDICLE SCREW 9.0MM Ø
TITANIUM

USS-901A	35 MM LENGTH
USS-902A	40 MM LENGTH
USS-903A	45 MM LENGTH
USS-904A	50 MM LENGTH
USS-905A	55 MM LENGTH
USS-906A	60 MM LENGTH
USS-907A	65 MM LENGTH
USS-908A	70 MM LENGTH
USS-909A	75 MM LENGTH
USS-910A	80 MM LENGTH





Hooks

LAMINA HOOKS ANGLED

CAT NO	OPENING	DIRECTION
USS-001B	BILATERAL	LEFT
USS-002B	BILATERAL	RIGHT
USS-003B	FRONT	LEFT
USS-004B	FRONT	RIGHT

IN TITANIUM USS-101B TO USS-104B



LAMINA HOOKS TALL BODY

USS-001C	DUAL	SMALL SIZE
USS-002C	FRONT	SMALL SIZE
USS-003C	DUAL	MEDIUM SIZE
USS-004C	FRONT	MEDIUM SIZE
USS-005C	DUAL	LARGE SIZE
USS-006C	FRONT	LARGE SIZE

IN TITANIUM USS-101C TO USS-106C

LAMINA HOOKS

USS-001D	BILATERAL	EXTRA SMALL
USS-002D	FRONT	EXTRA SMALL
USS-003D	BILATERAL	SMALL
USS-004D	FRONT	SMALL
USS-005D	BILATERAL	MEDIUM
USS-006D	FRONT	MEDIUM
USS-007D	BILATERAL	LARGE
USS-008D	FRONT	LARGE
USS-009D	BILATERAL	THORACIC
USS-010D	FRONT	THORACIC
USS-011D	BILATERAL	LUMBAR
USS-012D	FRONT	LUMBAR

IN TITANIUM USS-101D TO USS-112D



PEDICLE HOOK

USS-001E	BILATERAL	EXTRA SMALL
USS-002E	FRONT	EXTRA SMALL
USS-003E	FRONT	SMALL
USS-004E	BILATERAL	SMALL



USS-005E BILATERAL STANDARD
USS-006E FRONT STANDARD
IN TITANIUM USS-101E TO USS-106E



SCREWS FOR PEDICLE HOOKS

CAT NO	THREAD	CORE DIAMETER	LENGTH
USS-001F	3.2MM	2.1MM	20MM
USS-002F	3.2MM	2.1MM	25MM
USS-003F	3.2MM	2.1MM	30MM



IN TITANIUM USS=101F TO USS-103F

SLEEVES

USS-001G	FOR ROD 5.0MM Ø
USS-002G	FOR ROD 6.0MM Ø
USS-003G	FOR ROD 5.0MM Ø TOOTHED
USS-004G	FOR ROD 6.0MM Ø TOOTHED



IN TITANIUM USS-101G TO USS-104G

NUTS

USS-001H	STEEL
USS-101H	TITANIUM



CONNECTORS

USS-001JI	HALF RING FOR RODS 6.0MM Ø STEEL
USS-101J	HALF RING FOR RODS 6.0MM Ø TITANIUM



USS-001K	ROD CONNECTOR 15 MM
USS-002K	ROD CONNECTOR 20MM
USS-003K	ROD CONNECTOR 25MM



IN TITANIUM USS-101K TO USS-103K

USS-001L	EXTENTION CONNECTOR 5.0MM Ø
USS-002L	EXTENTION CONNECTOR 6.0MM Ø
USS-003L	EXTENTION CONNECTOR 5.0 ØMM/6.0 ØMM



IN TITANIUM USS-101L TO USS-103L



RODS 5.0MMØ

USS-001S	150MM LENGTH
USS-002S	200MM LENGTH
USS-003S	250MM LENGTH
USS-004S	300MM LENGTH
USS-005S	350MM LENGTH
USS-006S	400MM LENGTH
USS-007S	450MM LENGTH
USS-008S	500MM LENGTH

IN TITANIUM YSS-101S TO USS-108S

RODS 6.0MM Ø

USS-001T	50MM LENGTH
USS-002T	100MM LENGTH
USS-003T	150MM LENGTH
USS-004T	200MM LENGTH
USS-005T	250MM LENGTH
USS-006T	300MM LENGTH
USS-007T	350MM LENGTH
USS-008T	400MM LENGTH
USS-009T	450MM LENGTH
USS-010T	500MM LENGTH



IN TITANIUM USS-101T TO USS-110T

TRANSVERSE BARS

USS-001U	15MM LENGTH
USS-002U	20MM LENGTH
USS-003U	25MM LENGTH
USS-004U	30MM LENGTH



IN TITANIUM USS-101U TO USS-104U



TRANSCONNECTORS

FIXED LENGTH

- USS-001V 15MM LENGTH
- USS-002V 18MM LENGTH
- USS-003V 21MM LENGTH
- USS-004V 24MM LENGTH

IN TITANIUM USS-101V TO USS-104V



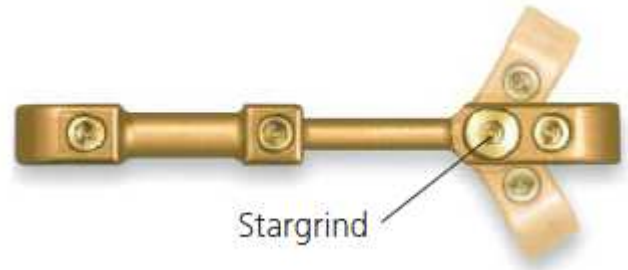
VARIABLE LENGTH

- USS-001W 24.5MM TO 30.5MM LENGTH
- USS-002W 31.5MM TO 34.0MM LENGTH
- USS-003W 35.0MM TO 41.0MM LENGTH
- USS-004W 44.0MM TO 55.0MM LENGTH
- USS-005W 56.0MM TO 83.0MM LENGTH

USS-101W TO USS-105W IN TITANIUM



ROTATION UP TO 45°



STAPLES AND WASHERS

- USS-001X WASHER FOR 5.0MM SCREW
- USS-002X WASHER FOR 6.0MM SCREW
- USS-003X WASHER FOR 7.0MM SCREW
- USS-004X WASHER FOR 8.0MM SCREW

IN TITANIUM USS-101X TO USS-104X

- USS-001Y STAPLE FOR 5.0MM SCREW
- USS-002Y STAPLE FOR 6.0MM SCREW
- USS-003Y STAPLE FOR 7.0MM SCREW
- USS-004Y STAPLE FOR 8.0MM SCREW

IN TITANIUM USS-101 TO USS-104Y





USS SPINAL SYSTEM DUAL OPENING

4.2MM Ø DIAMETER

USS-001Z	25 MM LENGTH
USS-002Z	30 MM LENGTH
USS-003 Z	35 MM LENGTH
USS-004Z	40 MM LENGTH
USS-005Z	45 MM LENGTH
USS-006Z	50 MM LENGTH
USS-007Z	55 MM LENGTH

IN TITANIUM USS-101Z TO USS- 107Z

5.2MM Ø DIAMETER

USS-001AA	30 MM LENGTH
USS-002AA	35 MM LENGTH
USS-003AA	40 MM LENGTH
USS-004AA	45 MM LENGTH
USS-005AA	50 MM LENGTH
USS-006AA	55 MM LENGTH
USS-007AA	60 MM LENGTH

IN TITANIUM USS-101AA TO USS-107AA



6.0 MM Ø DIAMETER

USS-001BB	30 MM LENGTH
USS-002BB	35 MM LENGTH
USS-003BB	40 MM LENGTH
USS-004BB	45 MM LENGTH
USS-005BB	50 MM LENGTH
USS-006BB	55 MM LENGTH
USS-007BB	60 MM LENGTH
USS-008BB	65 MM LENGTH
USS-009BB	70 MM LENGTH

IN TITANIUM USS-101BB TO USS-109BB



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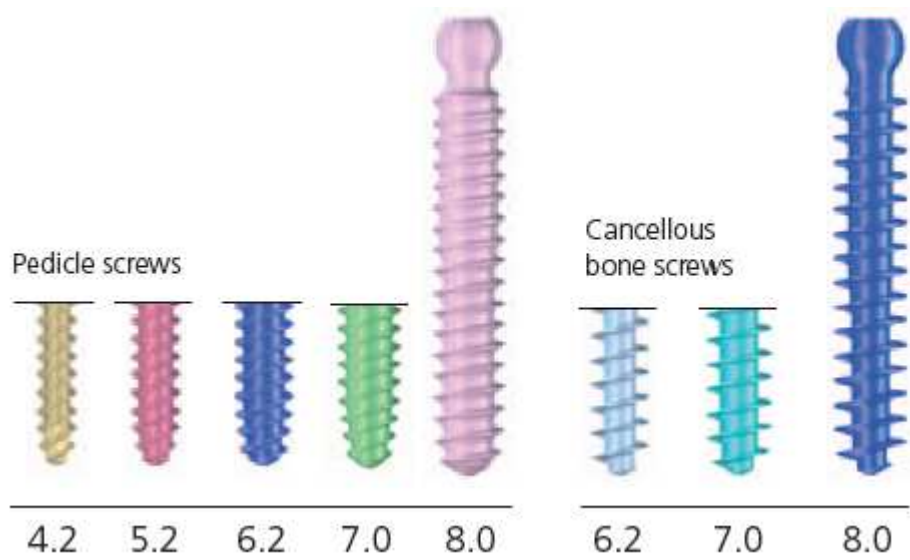
7.0 MM Ø DIAMETER

USS-001CC	30 MM LENGTH
USS-002CC	35 MM LENGTH
USS-003CC	40 MM LENGTH
USS-004CC	45 MM LENGTH
USS-005CC	50 MM LENGTH
USS-006CC	55 MM LENGTH
USS-007CC	60 MM LENGTH
USS-008CC	65 MM LENGTH
USS-009CC	70 MM LENGTH
USS-010CC	75 MM LENGTH

IN TITANIUM USS-101CC TO USSA



USS SPINAL SYSTEM POLYAXIAL



DUAL CORE PEDICLE SCREWS TITANIUM

4.2MM Ø DIAMETER

USSP-001	20MM LENGTH
USSP-002	25MM LENGTH
USSP-003	30MM LENGTH
USSP-004	35MM LENGTH
USSP-005	40MM LENGTH





5.2MM Ø DIAMETER

USSP-101	25MM LENGTH
USSP-102	30MM LENGTH
USSP-103	35MM LENGTH
USSP-104	40MM LENGTH
USSP-105	45MM LENGTH
USSP-106	50MM LENGTH
USSP-107	55MM LENGTH#

6.2MM Ø DIAMETER

USSP-201	30MM LENGTH
USSP-202	35MM LENGTH
USSP-203	40MM LENGTH
USSP-204	45MM LENGTH
USSP-205	50MM LENGTH
USSP-206	55MM LENGTH
USSP-207	60MM LENGTH
USSP-208	65MM LENGTH



7.0MM Ø DIAMETER

USSP-301	30MM LENGTH
USSP-302	35MM LENGTH
USSP-303	40MM LENGTH
USSP-304	45MM LENGTH
USSP-305	50MM LENGTH
USSP-306	55MM LENGTH
USSP-307	60MM LENGTH
USSP-308	65MM LENGTH

8.0MM Ø DIAMETER

USSP-401	30MM LENGTH
USSP-402	35MM LENGTH
USSP-403	40MM LENGTH
USSP-404	45MM LENGTH
USSP-405	50MM LENGTH
USSP-406	55MM LENGTH
USSP-407	60MM LENGTH
USSP-408	65MM LENGTH



USS PEDICLE CANCELLOUS SCREWS DUAL CORE

6.2MM Ø DIAMETER

USSP-501	30MM LENGTH
USSP-502	35MM LENGTH
USSP-503	40MM LENGTH
USSP-504	45MM LENGTH
USSP-505	50MM LENGTH
USSP-506	55MM LENGTH
USSP-507	60MM LENGTH
USSP-508	65MM LENGTH

7.0MM Ø DIAMETER

USSP-601	30MM LENGTH
USSP-602	35MM LENGTH
USSP-603	40MM LENGTH
USSP-604	45MM LENGTH
USSP-605	50MM LENGTH
USSP-606	55MM LENGTH
USSP-607	60MM LENGTH
USSP-608	65MM LENGTH
USSP-609	70MM LENGTH
USSP-610	75MM LENGTH
USSP-611	80MM LENGTH
USSP-612	85MM LENGTH
USSP-613	90MM LENGTH
USSP-614	95MM LENGTH
USSP-615	100MM LENGTH
USSP-616	105MM LENGTH
USSP-617	110MM LENGTH
USSP-618	115MM LENGTH
USSP-619	120MM LENGTH
USSP-620	125MM LENGTH
USSP-621	130MM LENGTH
USSP-622	135MM LENGTH
USSP-623	140MM LENGTH





8.0MM Ø DIAMETER

USSP-701	30MM LENGTH
USSP-702	35MM LENGTH
USSP-703	40MM LENGTH
USSP-704	45MM LENGTH
USSP-705	50MM LENGTH
USSP-706	55MM LENGTH
USSP-707	60MM LENGTH
USSP-708	65MM LENGTH
USSP-709	70MM LENGTH
USSP-710	75MM LENGTH
USSP-711	80MM LENGTH
USSP-712	85MM LENGTH
USSP-713	90MM LENGTH
USSP-714	95MM LENGTH
USSP-715	100MM LENGTH
USSP-716	105MM LENGTH
USSP-717	110MM LENGTH
USSP-718	115MM LENGTH
USSP-719	120MM LENGTH
USSP-720	125MM LENGTH
USSP-721	130MM LENGTH
USSP-722	135MM LENGTH
USSP-723	140MM LENGTH

POLYAXIAL 3D HEADS

USSP-801	FOR ROD 5.0MMØ
USSP-802	FOR ROD 6.0MMØ



SLEEVES

USSP-901	FOR ROD 5.0MMØ
USSP-902	FOR ROD 6.0MMØ



NUT

USSP-1001

