



**PROWA**  
MEDICAL INSTRUMENTS

**Surgical Instruments**

**INSTRUMENTS SETS  
SPINAL SURGERY**

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the  
ultimate  
choice  
for  
healthcare  
professionals

# PROWA

MEDICAL INSTRUMENTS

**MEDICAL  
INSTRUMENTS  
MANUFACTURING  
FACTORY**



**Waheed Bhatti**  
Chief Executive

## “MESSAGE

Prowa Medical Instruments is a well-established manufacturer of Surgical, Dental, Orthodontic & Beauty Instruments with a distinguished history of providing high-quality products to the healthcare sector.

The company is a prominent supplier of medical instruments in the country. Through its state-of-the-art production facilities, the company is ISO certified, FDA approved, and produces CE certified instruments.

The company utilizes its strategic alliances to keep up with the latest healthcare instrument manufacturing sources, technology and trends. The company is always striving to improve its technology and distribution systems in order to maintain the market position.



**PROWA**  
MEDICAL INSTRUMENTS

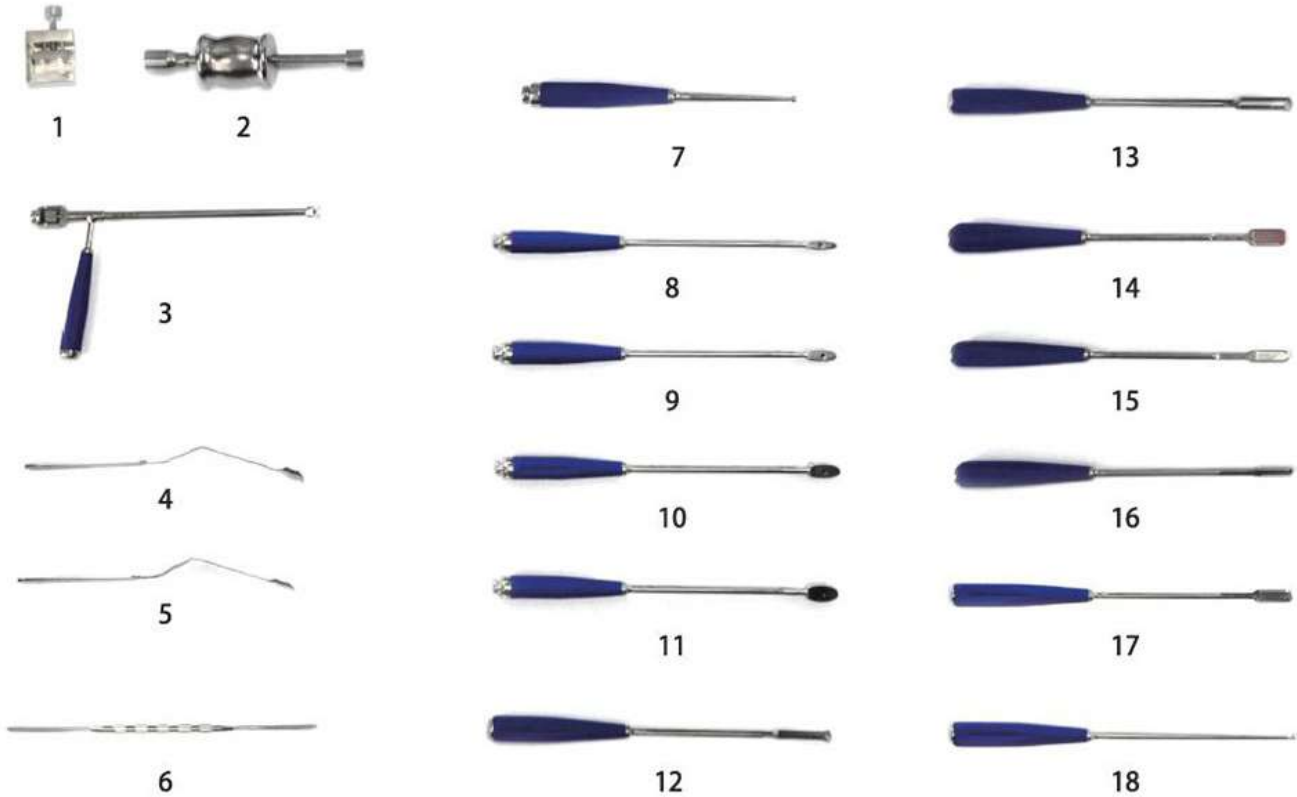
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# SPINAL SURGERY INSTRUMENTS SETS

**THE ULTIMATE CHOICE FOR HEALTHCARE PROFESSIONALS**

## Instruments Set for Internal Spinal Fixation System (I)

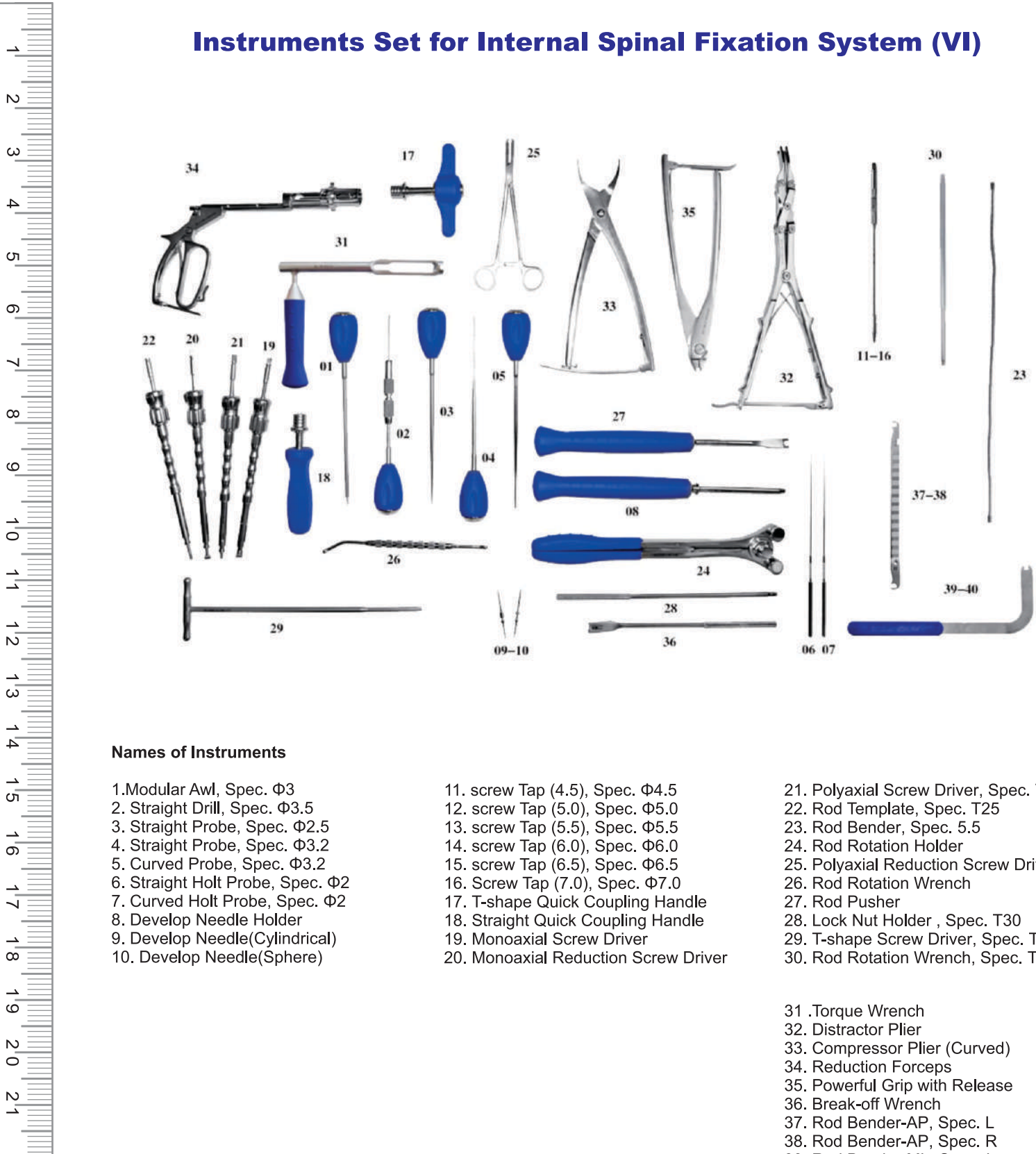


### Names of Instruments

- |                                   |   |
|-----------------------------------|---|
| 1. Bone Graft Device              | 13. Shaver, Spec. 12                          |
| 2. Slap Hammer                    | 14. Reamer For Intervertebral Discs, Spec. 08 |
| 3. Inserter, Spec. $\Phi 3.0$     | 15. Reamer For Intervertebral Discs, Spec. 10 |
| 4. Soft Tissue Retractor, Spec. S | 16. Reamer For Intervertebral Discs, Spec. 12 |
| 5. Soft Tissue Retractor, Spec. L | 17. Reamer For Intervertebral Discs, Spec. 14 |
| 7. Bone Presser, Spec. $\Phi 4.5$ | 18. Bone Curette                              |
| 8. Trial Model, Spec. 08          |   |
| 9. Trial Model, Spec. 10          |   |
| 10. Trial Model, Spec. 12         |   |
| 12. Shaver, Spec. 08              |   |



## Instruments Set for Internal Spinal Fixation System (VI)

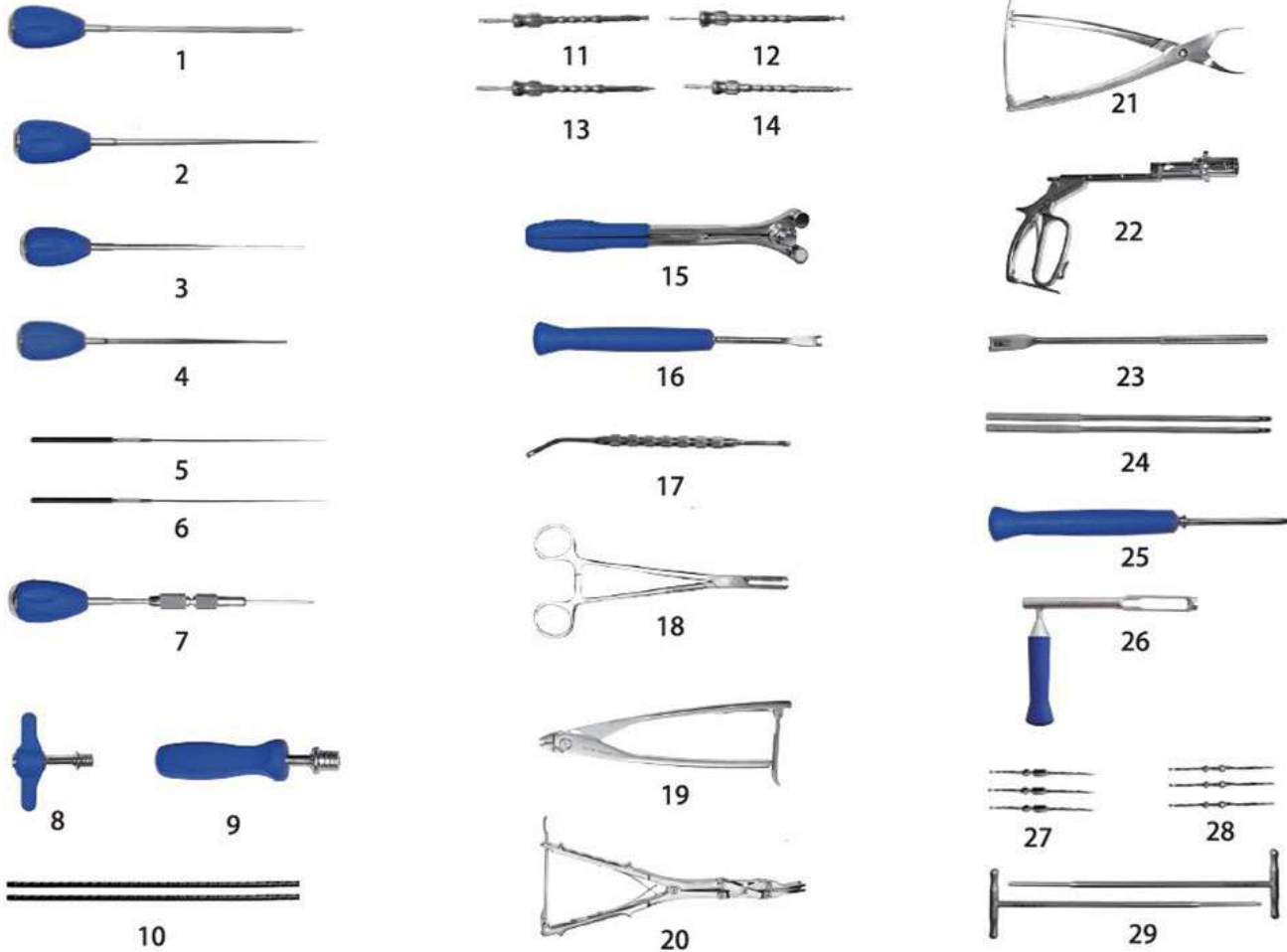


### Names of Instruments

- |  |                                       |                                       |
|--|---------------------------------------|---------------------------------------|
| 1. Modular Awl, Spec. $\Phi 3$         | 11. screw Tap (4.5), Spec. $\Phi 4.5$ | 21. Polyaxial Screw Driver, Spec. T25 |
| 2. Straight Drill, Spec. $\Phi 3.5$    | 12. screw Tap (5.0), Spec. $\Phi 5.0$ | 22. Rod Template, Spec. T25           |
| 3. Straight Probe, Spec. $\Phi 2.5$    | 13. screw Tap (5.5), Spec. $\Phi 5.5$ | 23. Rod Bender, Spec. 5.5             |
| 4. Straight Probe, Spec. $\Phi 3.2$    | 14. screw Tap (6.0), Spec. $\Phi 6.0$ | 24. Rod Rotation Holder               |
| 5. Curved Probe, Spec. $\Phi 3.2$      | 15. screw Tap (6.5), Spec. $\Phi 6.5$ | 25. Polyaxial Reduction Screw Driver  |
| 6. Straight Holt Probe, Spec. $\Phi 2$ | 16. Screw Tap (7.0), Spec. $\Phi 7.0$ | 26. Rod Rotation Wrench               |
| 7. Curved Holt Probe, Spec. $\Phi 2$   | 17. T-shape Quick Coupling Handle     | 27. Rod Pusher                        |
| 8. Develop Needle Holder               | 18. Straight Quick Coupling Handle    | 28. Lock Nut Holder, Spec. T30        |
| 9. Develop Needle(Cylindrical)         | 19. Monoaxial Screw Driver            | 29. T-shape Screw Driver, Spec. T30   |
| 10. Develop Needle(Sphere)             | 20. Monoaxial Reduction Screw Driver  | 30. Rod Rotation Wrench, Spec. T30    |
|  |                                       | 31. Torque Wrench                     |
|  |                                       | 32. Distractor Plier                  |
|  |                                       | 33. Compressor Plier (Curved)         |
|  |                                       | 34. Reduction Forceps                 |
|  |                                       | 35. Powerful Grip with Release        |
|  |                                       | 36. Break-off Wrench                  |
|  |                                       | 37. Rod Bender-AP, Spec. L            |
|  |                                       | 38. Rod Bender-AP, Spec. R            |
|  |                                       | 39. Rod Bender-ML, Spec. L            |
|  |                                       | 40. Rod Bender-ML, Spec. R            |



## Instrument Set for Internal Spinal Fixation System (VII)

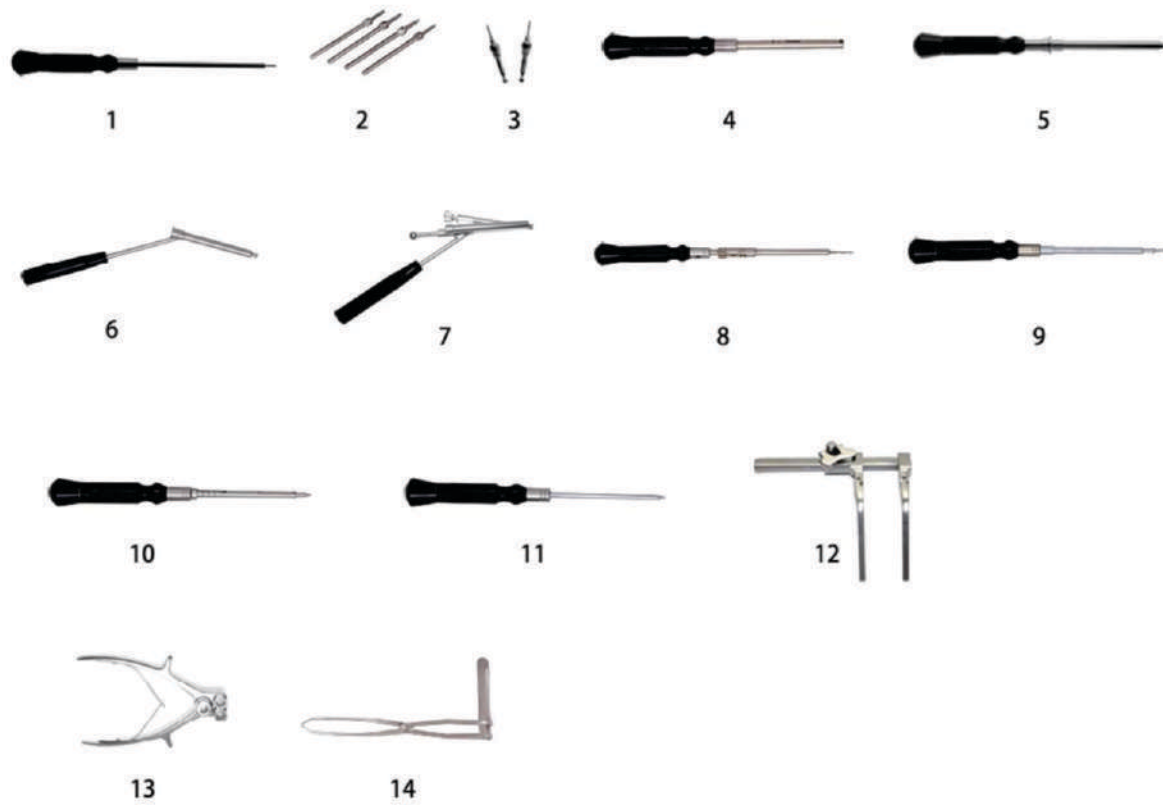


### Names of Instruments

- |  |                              |                           |
|--|------------------------------|---------------------------|
| 1. Inserter  | 37. Bone Rasp                | 47. Distracting Plier     |
| 2-11. Trial Model, Spec. 7, 8, 9, 10, 11, 12, 13, 14, 15, 16     | 38. Bone Rasp                | 48. Bone Graft Device     |
| 12-21. Trial Model, Spec. 7, 8, 9, 10, 11, 12, 13, 14, 15, 16    | 39. Bone Presser             | 49. Remover Tool          |
| 22-26. Reamer For Intervertebral Discs Spec. 7, 8, 9, 10, 11     | 40. Bone Presser             | 50. Nerve Dissector       |
| 27-31. Reamer For Intervertebral Discs, Spec. 12, 13, 14, 15, 16 | 41. Bone Presser             | 51. Nerve Dissector, 6    |
| 32. Osteotome  | 42. Slotted Mallet           | 52. Nerve Dissector, 8    |
| 33. Bone Curette, L  | 43. Slide Hammer             | 53. Bone Graft Funnel, 10 |
| 34. Bone Curette, R  | 44. Nucleus Pulposus Forceps | 54. Quick Coupling Handle |
| 35. Bone Curette   | 45. Nucleus Pulposus Forceps |                           |
| 36. Bone Curette   | 46. Laminectomy Rongeur      |                           |



## Instrument Set for Anterior Cervical Locking Fixation System (IV)



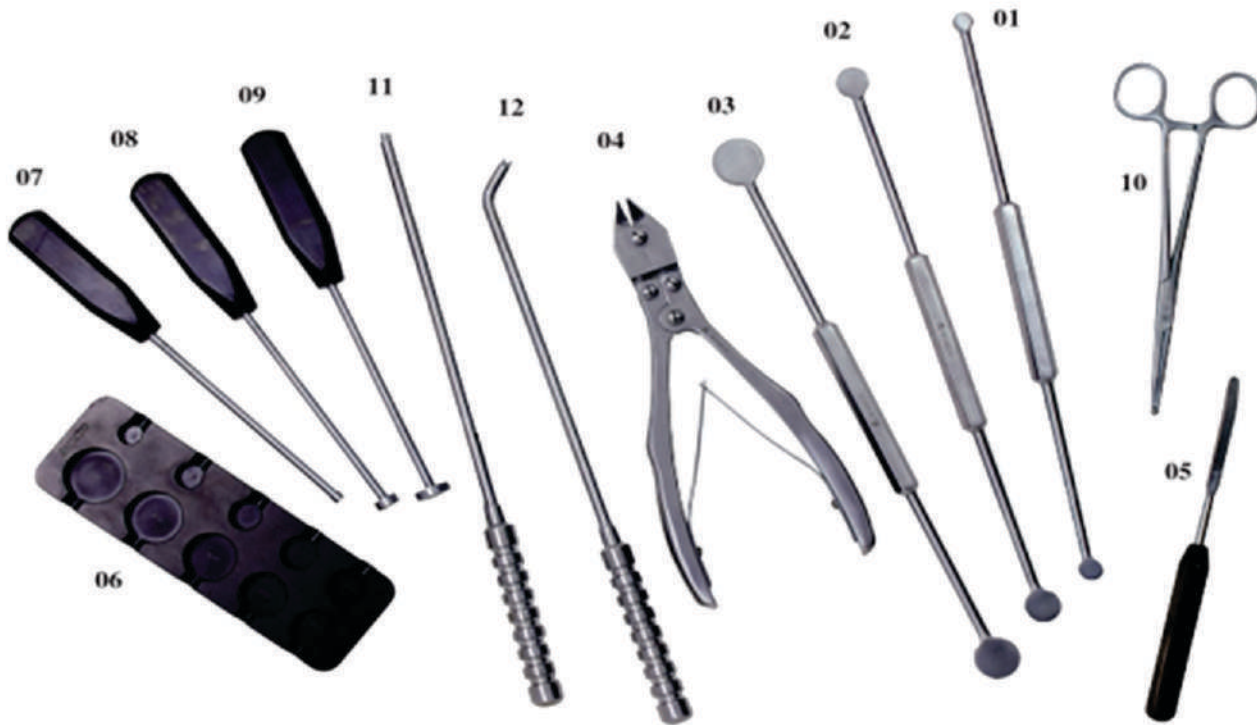
### Names of Instruments

- |   |                               |
|---|-------------------------------|
| 1. Modular Awl, Spec. $\Phi$ 2.0            | 11. Monoaxial Screw Driver    |
| 2. Bone Traction Needle, Spec. $\Phi$ 3.2   | 12. Vertebral Body Distractor |
| 3. Temporary Fixation Pin, Spec. $\Phi$ 1.8 | 13. Plate Bender              |
| 4. Screw Holder Sleeve                      | 14. Radiographic Ruler        |
| 5. Screw Holder Sleeve                      |                               |
| 6. Drill Guide Sleeve                       |                               |
| 7. Drill Guide Sleeve                       |                               |
| 8. Curved Probe, Spec. $\Phi$ 2.3           |                               |
| 9. Bone Tap, Spec. $\Phi$ 4.0               |                               |
| 10. Monoaxial Screw Driver, Spec. 2.5       |                               |





## Instrument Set for Mesh

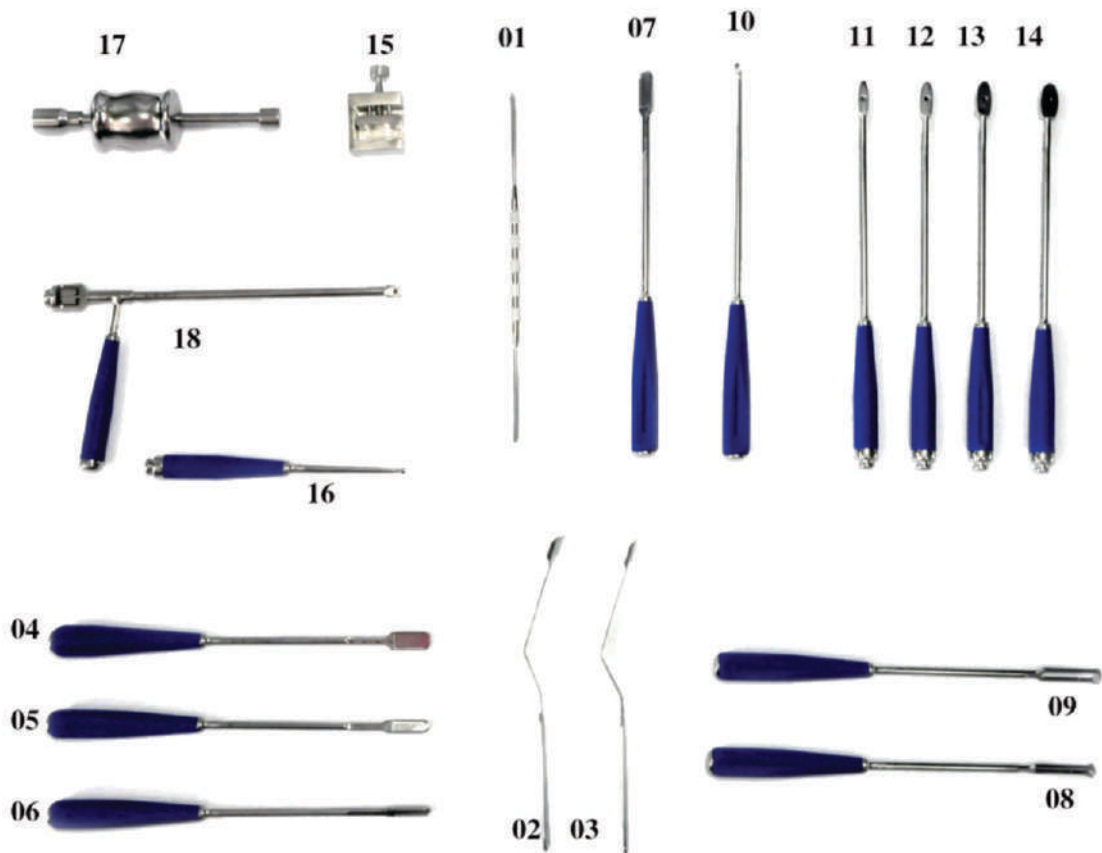


### Names of Instruments

1. Template, Spec. 10—12
2. Template, Spec. 16—18
3. Template, Spec. 22—25
4. Mesh Cutter
5. File
6. Bone Graft
7. Hammer, Spec.  $\Phi 6.0$
8. Hammer, Spec.  $\Phi 12.0$
9. Hammer, Spec.  $\Phi 18.0$
10. Reduction Forceps
11. Inserter (Straight)
12. Inserter (Curved)



## Instrument Set for Thoracolumbar Cage (I)

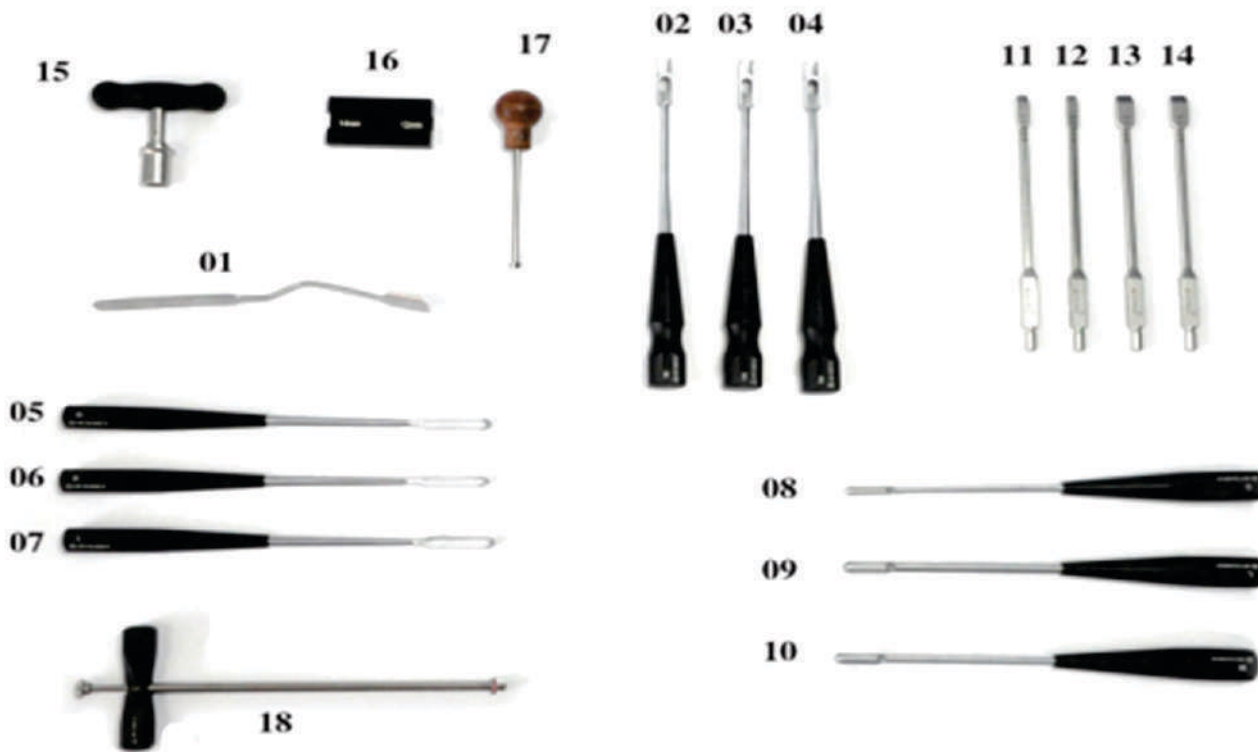


### Names of Instruments

- |   |                              |
|---|------------------------------|
| 1. Nerve Stripper                       | 11. Template, Spec. 8        |
| 2. Retractor, Spec. S                   | 12. Template, Spec. 10       |
| 3. Retractor, Spec. L                   | 13. Template, Spec. 12       |
| 4. Intervertebral Disc Reamer, Spec. 8  | 14. Template, Spec. 14       |
| 5. Intervertebral Disc Reamer, Spec. 10 | 15. Bone Graft               |
| 6. Intervertebral Disc Reamer, Spec. 12 | 16. Hammer, Spec. $\Phi 4.5$ |
| 7. Intervertebral Disc Reamer, Spec. 14 | 17. Slide Hammer             |
| 8. Scraper, Spec. 8                     | 18. Inserter                 |
| 9. Scraper, Spec. 12                    |                              |
| 10. Curette, Spec. 3                    |                              |



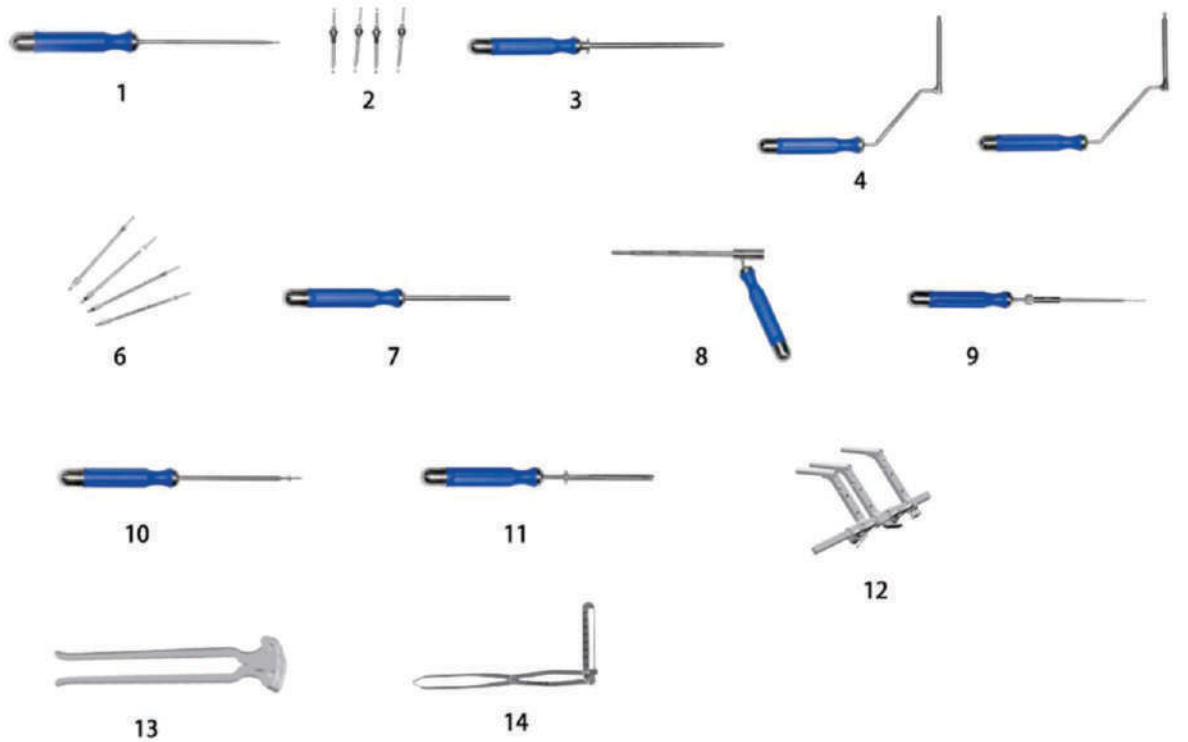
## Instrument Set for Posterior Lumbar Fusion Cage



### Names of Instruments

- |                                  |                                    |
|----------------------------------|------------------------------------|
| 1. Retractor                     | 11. Vertebral Distractor, Spec. 8  |
| 2. Bone Chisel(Square), Spec. 9  | 12. Vertebral Distractor, Spec. 9  |
| 3. Bone Chisel(Square), Spec. 11 | 13. Vertebral Distractor, Spec. 11 |
| 4. Bone Chisel(Square), Spec. 13 | 14. Vertebral Distractor, Spec. 13 |
| 5. Scraper, Spec. 8              | 15. Quick Coupling Handle          |
| 6. Scraper, Spec. 9              | 16. Bone Graft                     |
| 7. Scraper, Spec. 10             | 17. Hammer                         |
| 8. Curette(Lateral), Spec. 6     | 18. Inserter                       |
| 9. Curette(Lateral), Spec. 7     |                                    |
| 10. Curette(Lateral), Spec. 8    |                                    |

## Instrument Set for Anterior Cervical Locking Fixation System (VI)

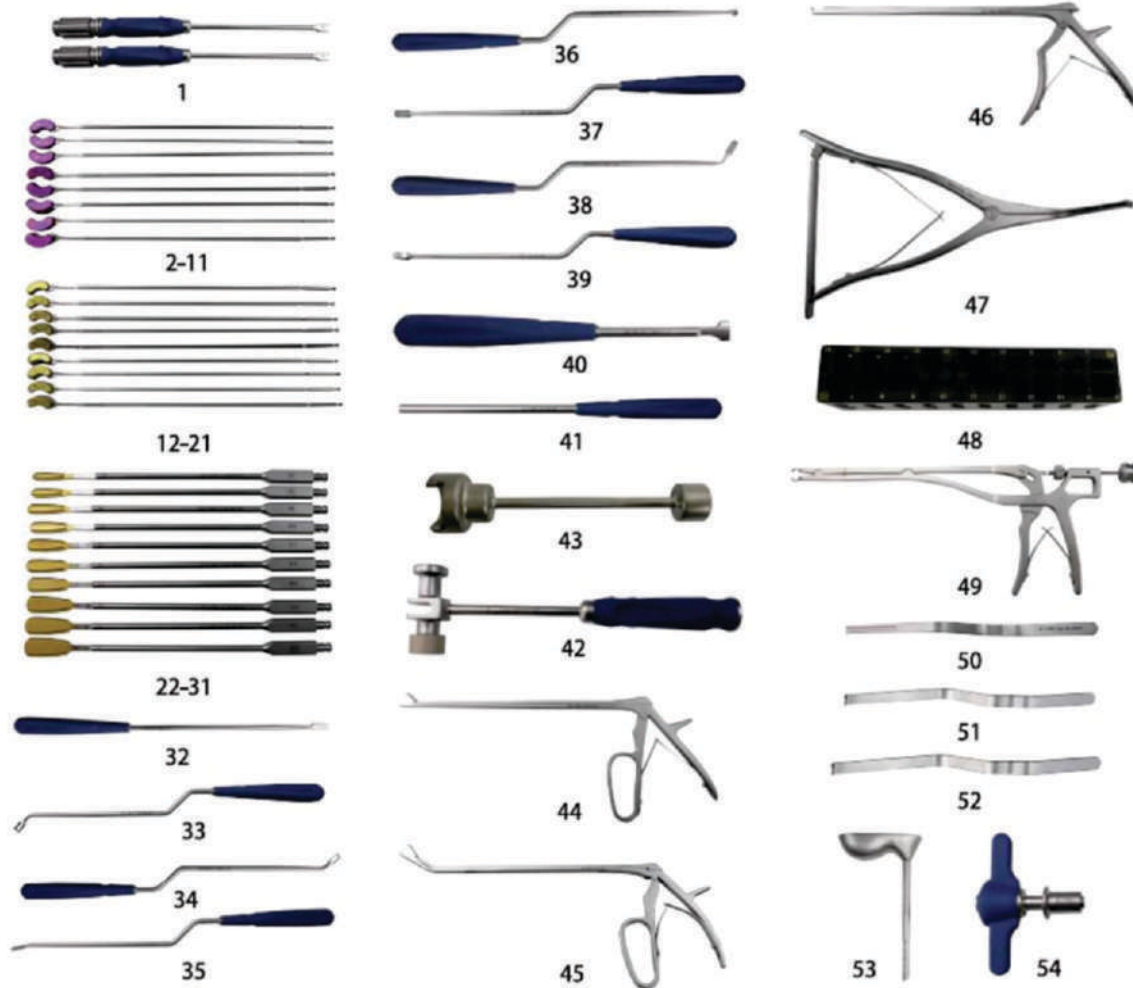


### Names of Instruments

1. Bone Awl, Spec.  $\Phi 2.0$
2. Fixation Pin, Spec.  $\Phi 2.0$
3. Screwdriver for Fixation Pin
4. Guide Sleeve
5. Skeletal Traction Needle
6. Wrench, Spec.  $\Phi 3.2$
7. Holder
8. Drill Bit
9. Bone Tap, Spec.  $\Phi 2.2$
10. Screwdriver, Spec.  $\Phi 4.0$
11. Lamina Spreader, Spec. 2.8
12. Plate Bender
13. Bone Calipers
14. Box for Screw



## Instrument Set for Internal Spinal Fixation System

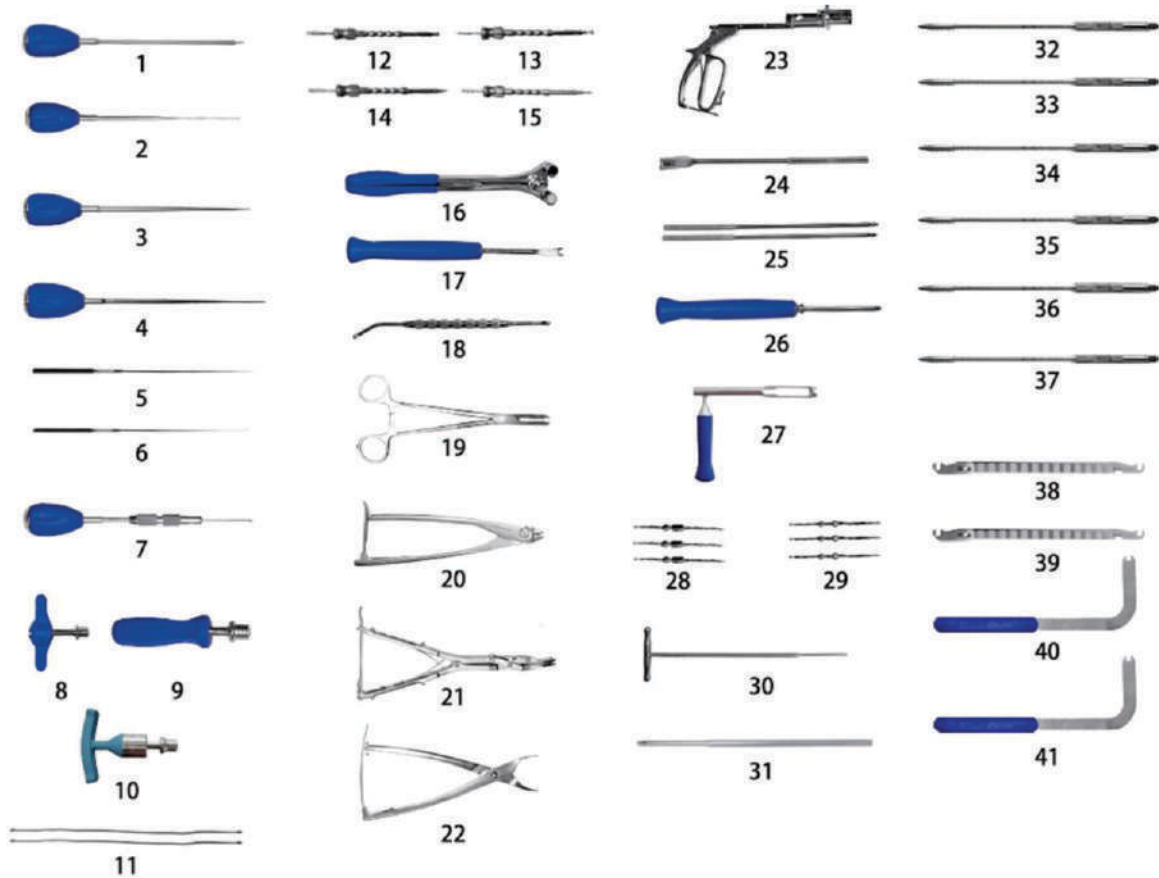


### Names of Instruments

- |   |   |
|---|---|
| 1. Surgery Positioner (Position Plate)              | 11. Screwdriver (Nut Screwdriver)                         |
| 2. Awl (short), Spec. $\Phi 1.5$                    | 12. Rod Bender (Fixed Axis Rod Bender)                    |
| 3. Awl (short), Spec. $\Phi 1.5$                    | 13. Nut Holder (Rod Holder), Spec. SW3                    |
| 4. Guide Wire (Round Wire), Spec. $\Phi 1.4$        | 14. Screwdriver (Holder and Locker), Spec. T30            |
| 5. Guide Wire (Sharp Wire), Spec. $\Phi 1.4$        | 15. Nut Holder (Single Nut Holder)                        |
| 6. Reamer (Cannulated Reamer)                       | 16. Distractor (Distractor and Compression)               |
| 7. Reamer, Spec. T25                                | 17. Sleeve (Distractor and Compression Sleeve)            |
| 8. Screw Driver (Polyaxial Screw Driver), Spec. 5.5 | 18. Sleeve (Distractor and Compression Extend Sleeve)     |
| 9. Screw Driver (Monoaxial Screw Driver), Spec. T25 | 19. Quick Coupling Handle (T-shape Quick Coupling Handle) |
| 10. Screwdriver (Alignment), Spec. T30              | 20. Quick Coupling Handle (Straight Ratchet Handle)       |
| 21. Torque Wrench (Torque Wrench)                   | 29. Screw Tap, Spec. $\Phi 5.0$                           |
| 22. Break-off Wrench (Long Break-off Wrench)        | 30. Screw Tap, Spec. $\Phi 5.5$                           |
| 23. Gauge (Rod Gauge)                               | 31. Screw Tap, Spec. $\Phi 6.0$                           |
| 24. Expand Channel Pipe (Expander I)                | 32. Screw Tap, Spec. $\Phi 6.5$                           |
| 25. Expand Channel Pipe (Expander II)               | 33. Screw Tap, Spec. $\Phi 7.0$                           |
| 26. Expand Channel Pipe (Expander III)              | 34. Hammer  |
| 27. Expand Channel Pipe (Expander IV)               |   |
| 28. Screw Tap, Spec. $\Phi 4.5$                     |   |



## Instruments Set for Internal Spinal Fixation System (VII Invasive)

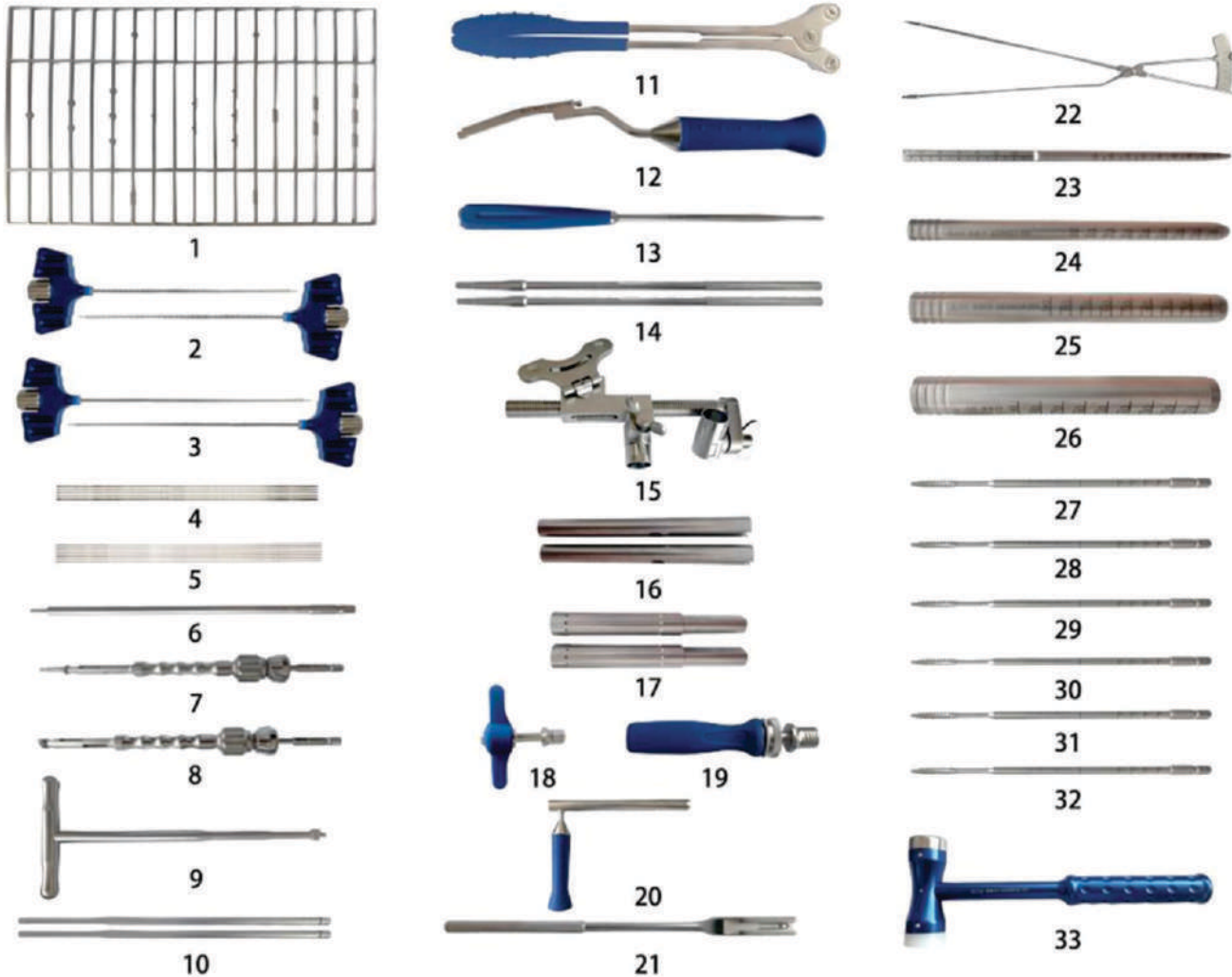


### Names of Instruments

- |  |                             |                       |
|--|-----------------------------|-----------------------|
| 1. Modular Awl, Spec. $\Phi 3$             | 11. Rod Template            | 21. Distracting Plier |
| 2. Probe, Spec. $\Phi 2.5$                 | 12. Screw Driver, Spec. T25 | 22. Compressor Plier  |
| 3. Probe, Spec. $\Phi 3.2$                 | 13. Screw Driver, Spec. T25 | 23. Reduction Forceps |
| 4. Probe, Spec. $\Phi 2$                   | 14. Screw Driver            | 24. Break-off Wrench  |
| 5. Holt Probe, Spec. $\Phi 3.5$            | 15. Screw Driver            | 25. Holder            |
| 6. Holt Probe                              | 16. Rod Bender              |                       |
| 7. Straight Drill, Spec. $\Phi 3.5$        | 17. Wrench                  |                       |
| 8. Quick Coupling Handle, Spec. 12Nm       | 18. Wrench                  |                       |
| 9. Quick Coupling Handle, Spec. $\Phi 5.5$ | 19. Rod Holder              |                       |
| 10. Quick Coupling Handle                  | 20. Rod Holder              |                       |



## Instruments Set for Internal Spinal Fixation System (IX)



### Names of Instruments

1. Positioning Slice
2. Curved Probe, Specs.  $\Phi 1.5$
3. Curved Probe, Specs.  $\Phi 1.5$
4. Guide Wire, Specs.  $\Phi 1.4$
5. Guide Wire, Specs.  $\Phi 1.4$
6. Reamer
7. Screw Driver, Specs. T25
8. Screw Driver, Specs. 5.5
9. Screwdriver, Specs. T25
10. Screwdriver, Specs. T30

11. Rod Bender
12. Rod Bender
13. Screwdriver, Specs. Sw3
14. Screw Holder, Specs. T30
15. Distractor
16. Sleeve
17. Sleeve
18. Quick Coupling Handle
19. Quick Coupling Handle
20. Torque Wrench

21. Break-off Wrench
22. Scale Rod Trail
23. Dilator
24. Dilator
25. Dilator
26. Dilator
27. Bone Tap, Specs.  $\Phi 4.5$
28. Bone Tap, Specs.  $\Phi 5.0$
29. Bone Tap, Specs.  $\Phi 5.5$
30. Bone Tap, Specs.  $\Phi 6.0$
31. Bone Tap, Specs.  $\Phi 6.5$
32. Bone Tap, Specs.  $\Phi 7.0$
33. Hammer



## Instruments Set for Interbody Fusion Cage



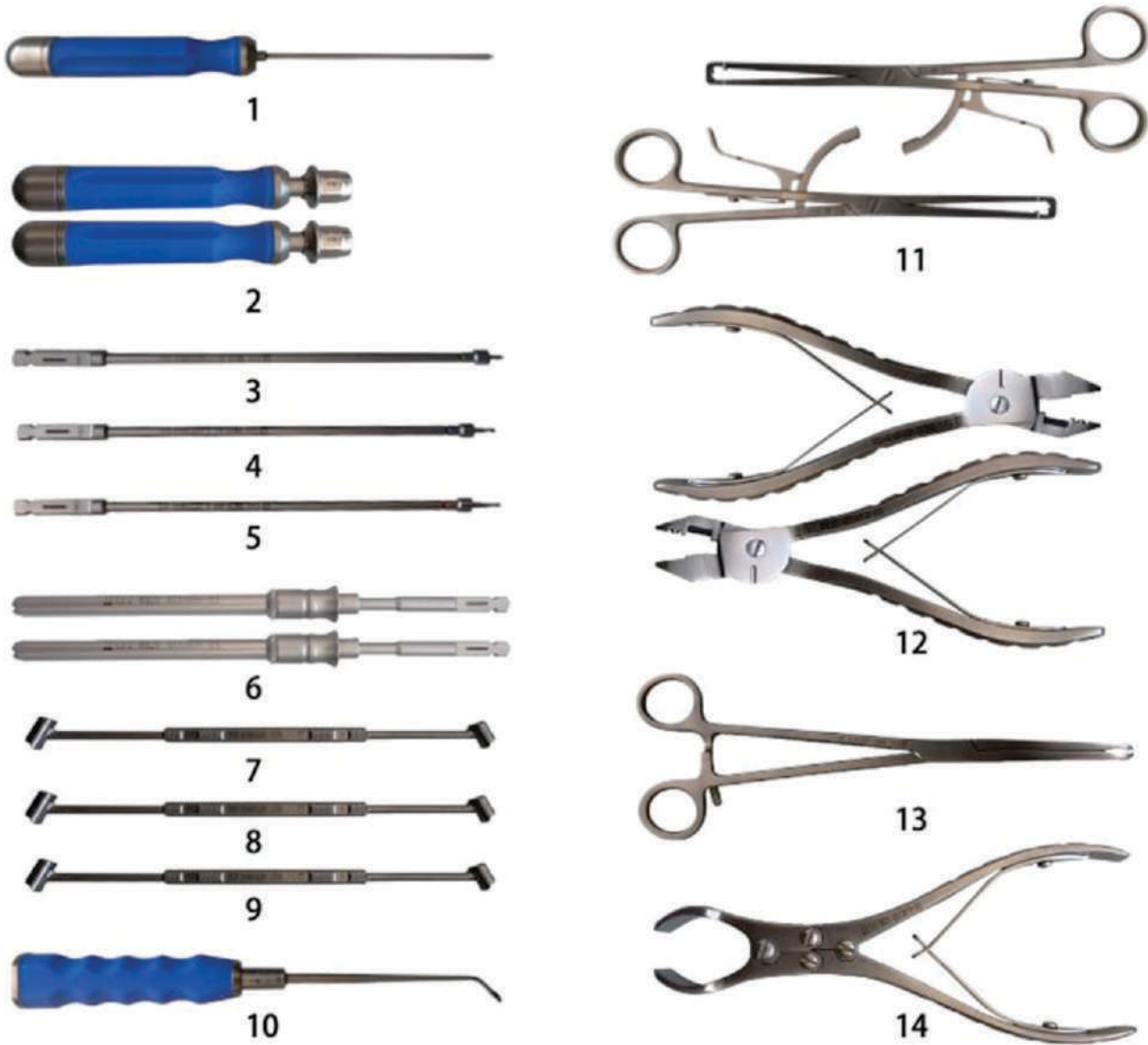
### Names of Instruments

1. Inserter, Specs. Implant
2. Inserter, Specs. Adjustment
3. Trail Model, Specs. 5/10
4. Trail Model, Specs. 6/7
5. Trail Model, Specs. 8/9
6. Bone Curette
7. Bone Rasp
8. Bone Presser
9. Bone Presser





## Instruments Set for Laminoplasty Fixation System

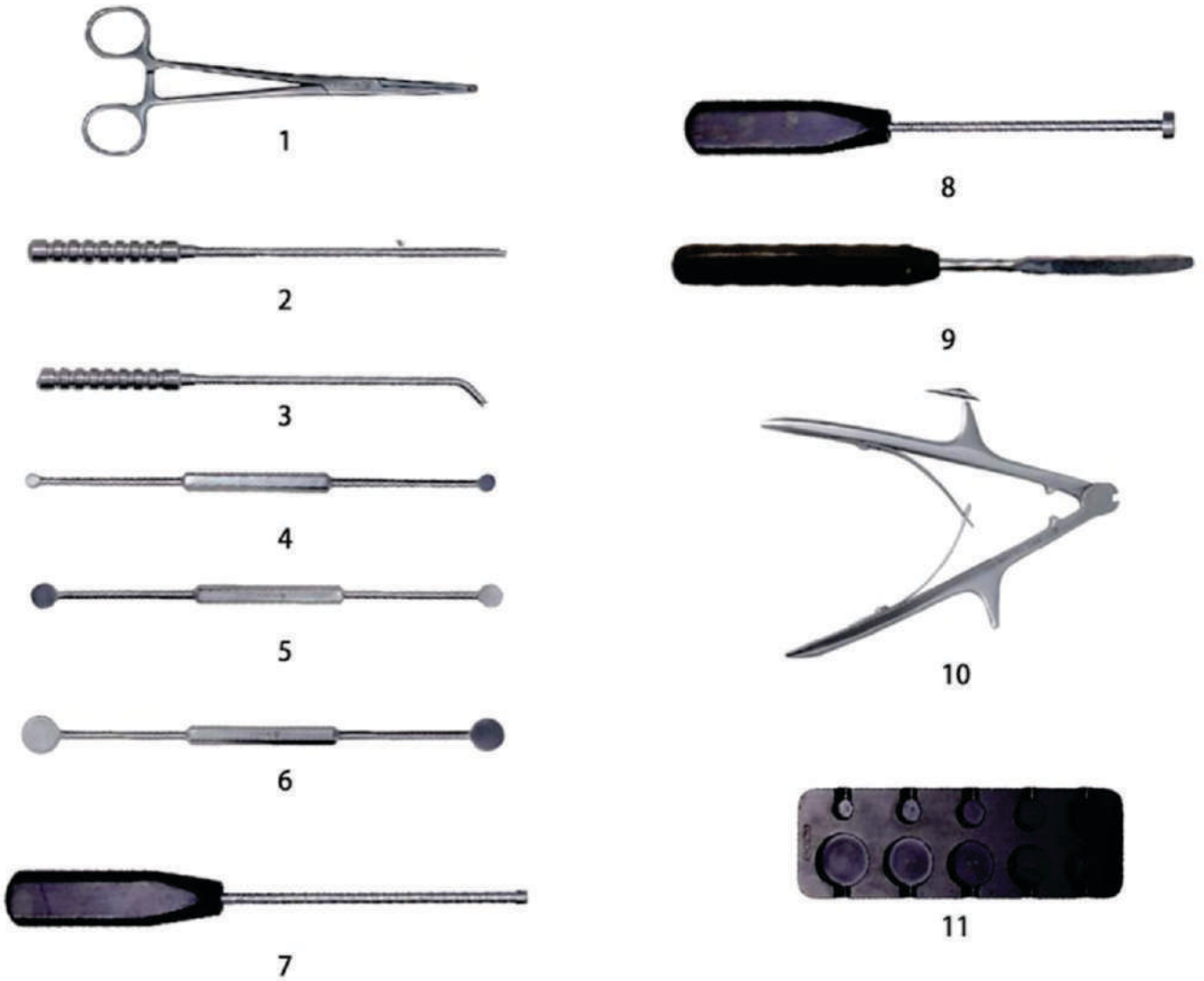


### Names of Instruments

1. Curved Probe, Spec.  $\Phi 1.2$
2. Quick Coupling Handle
3. Drill Bit, Spec.  $\Phi 1.4 \times 4$
4. Drill Bit, Spec.  $\Phi 1.4 \times 6$
5. Drill Bit, Spec.  $\Phi 1.4 \times 8$
6. Monoaxial Screw Driver
7. Trail Model, Spec. 8/10
8. Trail Model, Spec. 12/14
9. Trail Model, Spec. 16/18
10. Curette
11. Vertebral Body Distractor
12. Plate Bender
13. Plate Holder
14. Bone Rongeur



## Instruments Set for Threaded Fusion Cage (TFC)



### Names of Instruments

1. Mesh Holder
2. Impactor
3. Impactor
4. Trial Model, Spec.  $\Phi 10.0 - \Phi 12.0$
5. Trial Model, Spec.  $\Phi 16.0 - \Phi 18.0$
6. Trial Model, Spec.  $\Phi 22.0 - \Phi 25.0$
7. Bone Presser, Spec.  $\Phi 6.0$
8. Bone Presser, Spec.  $\Phi 12.0$
9. Bone Rasp
10. Mesh Cutter
11. Bone Graft Device





## Procedure Recommended For Cleaning, Sterilization and Maintenance of Surgical/Dental Instruments.

---

Surgical and Dental Instruments are designed and manufactured with utmost care. They are made for careful handling during use and sterilization. To achieve, the goal of long and satisfactory service, ensure that an instrument is used to perform the Procedure for which it is designed.

During surgery and sterilization all the surgical and Dental Instruments must be handled correctly. They should not be piled up. The weight and entanglement can cause damage to the instruments.

**The following instructions should be followed for the best result.**

### **CLEANING:**

All the instruments should be cleaned after use. Blood, tissue should not be allowed to dry on the instruments, these shall be submerged in a solution of water and neutral pH(7) detergent.

### **ULTRASONIC CLEANING:**

- The instruments should be processed in ultrasonic cleaner for 5-10 minutes.
- The removable parts should be disassembled.
- All box lock instruments should be opened and all cutting edges should be protected.
- Stainless instruments should not be cleaned with instruments of other metal in the same cleaning cycle.
- Change solution frequently, according to the recommendation of the manufacturer

### **MANUAL CLEANING**

If Ultrasonic cleaning is not available observe the following steps:

- Use a stiff nylon cleaning brush.
- Do not use an abrasive brush.
- Use a cleaning pad or cleaner to clear the instruments.
- Make sure entire the instrument surface is perfectly cleaned..

### **LUBRICATION:**

- Immediately after cleaning Surgical and Dental instruments, these should be carefully dried.
- All instruments with hinges, locks and other moving parts such as scissors, Hemostatic, Needle Holders, Extracting Forceps etc. Should be lubricated.

### **PRECAUTIONS:**

- Test Scissors by cutting with thin gauze.
- Forceps should have proper aligned tip.
- Hemostatic, Needle Holders do not show light between the jaws. They are locked and unlocked easily.
- Suction Tubes or other tubular instruments should be ensure that all the foreign debris are flushed out.

### **AUTOCLAVING:**

After cleaning drying and lubrication the instruments are ready for autoclaving. They can be put individually or in sets. For individual instruments, make sure that you use a wide enough pouch for instruments with ratchet lock such as Needle Holder and Hemostatic, so the instruments can be sterilized in unlocked position.

In case of sets, Place the instruments in a stainless steel instruments tray. Place heavy instruments at the bottom. The autoclaving chamber should not be overloaded.

### **COLD STERILIZATION:**

Always use the proper sterilization / Cleaning technique to render the instruments in the required condition for use.

Sterilization of instruments does not replace cleaning. Instruments must be cleaned first and then sterilized.

Your instruments are valuable investments. If handled in the correct way the instruments will last for a long time.



# Notes



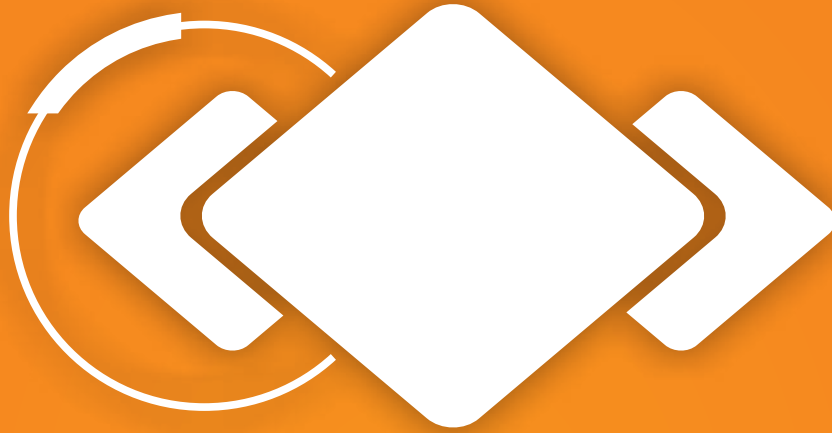
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# Notes

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# PROWA

MEDICAL INSTRUMENTS

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