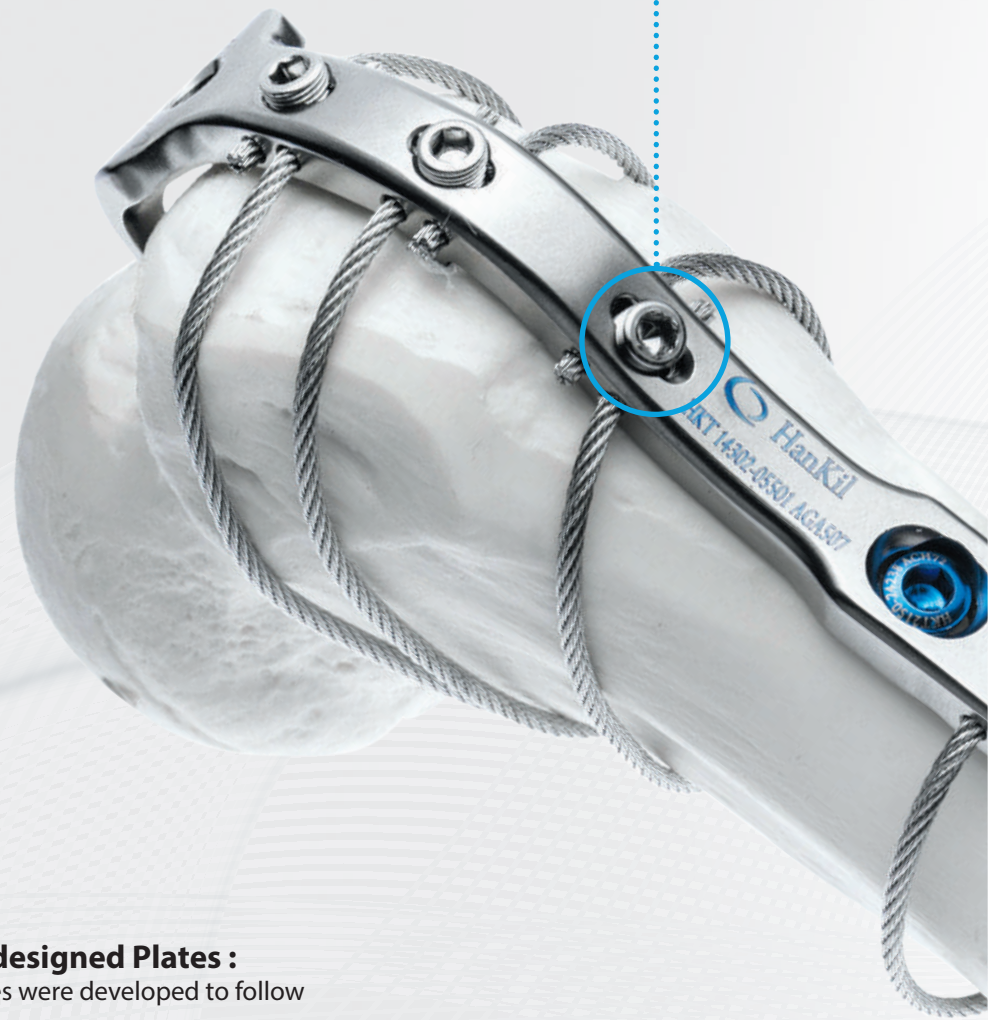


# HKT CABLE GRIP PLATE SYSTEM



# Advantages Point

- Help to safe and accurate surgery operation
- Shortening surgical operating time
- Reduced pain at the procedure range
- Fast recovery



## **Pre-contoured Anatomical designed Plates :**

Hankil's advanced periarticular plates were developed to follow the shape of the bone.

## **\* Blood supply type designed \***

Skillful engineers dedicated on advanced fabrication of ergonomic design with collaboration with surgeons.

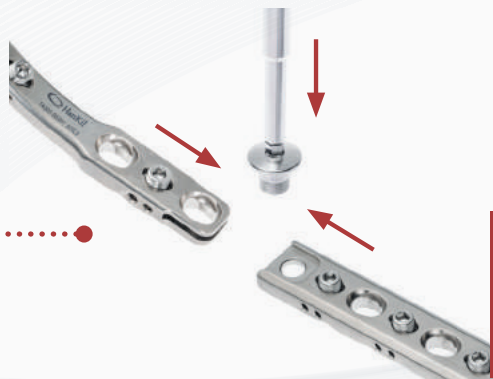
Furthermore precise manufacture of pre-contoured implants has become a proud of Hankil's craftsmanship based on over 50years experience in medical device manufactures.





### Cable fixable Screw

It is used to adjust and fix the tension of the cable (**Sliding prevention**). It could be fixed the tension of the cable before the gripping work on sleeve, and so it helps to easy work (**Double fixed**).



### Alone usage type & Connecting usage type

Consisting of stand-alone usage type and connecting usage type, it can be selected according to the surgical scope situation. (The maximum length for connection type is 203.5mm)

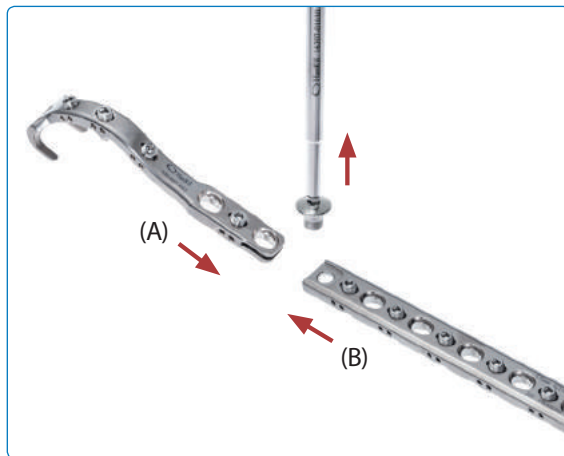


### Locking Screw (Optional)

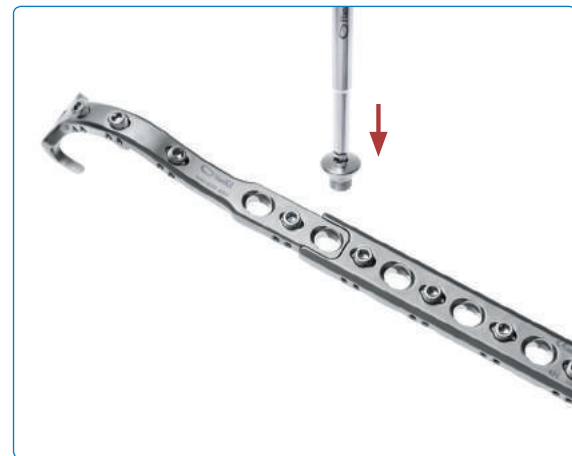
By fixing the plate in close contact with the fractured bone, so the clearance is minimized and the support power should be improved, which helps to recover the wound quickly.

# Combine method for Connecting Usage Type Plate

After selecting the plate to be used in the applicable area, combine the selected cable grip plate (A) and cable grip bone plate (B) using the join screw driver, and then position the combined cable grip plate for being stably inserted.  
(Refer to show in the below Figs)



- 1 Unscrew the joint screw from 'A' and prepare to join



- 2 Combine the selected Plates A and B.



- 3 Tighten the Joint Screw to the area where Plate A and B are combined.



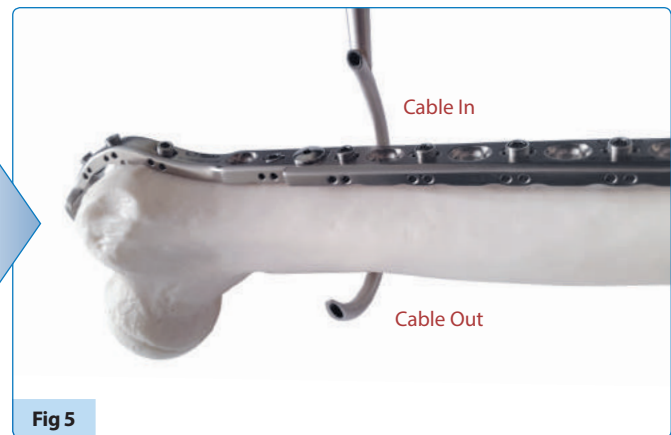
- 4 Check the connection and fastening of Plate A and B.

## STEP 1 Positioning



After selecting the plate to be used for the application site, Cable Grip Plate should be stable situated as shown in Fig.1. For more stable position, used the Impact and the Mallet as shown in Fig.2,3.

## STEP 2 Cable Passing



Use a cable passer provided for each type (Fig 4) to insert into the posterior or anterior direction to secure the space through which the bone cable passes as shown in Fig 5.

## STEP 3 Insert Bone Cable / Cable Sleeve



Bone cable should be inserted into the cable passer hole for passing through the insertion area as showed in Fig. 6. Pass until the necessary length is secured, and connect the Cable Sleeve to the Bone Cable. And then remove the cable passer as shown in Fig. 7.

## STEP 4 Bone Cable Tensioning



The Bone Cable through to the Cable Grip Plate should be connected with the Cable Tensioner(Fig. 8), and so give enough tensions to the Bone Cable for tightly cabling the plate and treatment region as shown in Fig. 9.

## STEP 5 The 1st fixing of the Bone Cable (Fixable Screw)



Tighten the cable holding screw at the top of the plate using a screw driver (Fig.10) to fix the bone cable to the plate at first as shown in Fig.11.

**Warning** It must need to fasten all fixable screw whether it used the cable or not.

## STEP 6 2nd fixing of the Bone Cable (Sleeve)



The fixed bone cable at 1st should be pressed and fixed by the cable sleeve using by the sleeve gripper(Fig.12) on secondly as shown in (Fig.13)



## STEP 7 Bone Cable Cutting



Fig 14



Fig 15

With the Cable Cutter (Fig.14), Cut the Bone Cable as the cable sleeve & the cable hole of the plate as close as possible as shown in Fig.15.

## STEP 8 Final



Fig 16

Check whether the cable grip plate used for the procedure is well connected to the bone cable or if there is no tension loosening, and then finish the procedure as shown in Fig.16.

### \* Cable Grip Plate Removal

After the treatment is completed following by a decision of the surgeon, the cable grip plate at the treatment parts should be removed following the reverse order.

# IMPLANT

## Alone Usage Type



| No. | Cable Grip Hook Normal Plate |             | Length (mm) | Spec. | Material |
|-----|------------------------------|-------------|-------------|-------|----------|
|     | Normal                       | Anodizing   |             |       |          |
| 1   | 14301-05500                  | 14301-95500 | 53.0        | Short | Titanium |
| 2   | 14301-05501                  | 14301-95501 | 94.0        | 1H    |          |
| 3   | 14301-05502                  | 14301-95502 | 117.0       | 2H    |          |
| 4   | 14301-05503                  | 14301-95503 | 141.0       | 3H    |          |

| No. | Cable Grip Bone Plate(Titanium) |             | Length (mm) | Spec. (Hole) | Material |
|-----|---------------------------------|-------------|-------------|--------------|----------|
|     | Normal                          | Anodizing   |             |              |          |
| 1   | 14303-06005                     | 14303-96005 | 112.0       | 5H           | Titanium |
| 2   | 14303-06006                     | 14303-96006 | 135.5       | 6H           |          |
| 3   | 14303-06007                     | 14303-96007 | 159.0       | 7H           |          |
| 4   | 14303-06008                     | 14303-96008 | 182.5       | 8H           |          |
| 5   | 14303-06010                     | 14303-96010 | 229.5       | 10H          |          |
| 6   | 14303-06012                     | 14303-96012 | 276.5       | 12H          |          |

| No. | Cable Bone Plate(Titanium) |             | Length (mm) | Remark | Material |
|-----|----------------------------|-------------|-------------|--------|----------|
|     | Normal                     | Anodizing   |             |        |          |
| 1   | 14303-05806                | 14303-95806 | 130.0       | 6H     | Titanium |
| 2   | 14303-05807                | 14303-95807 | 152.0       | 7H     |          |
| 3   | 14303-05808                | 14303-95808 | 174.0       | 8H     |          |
| 4   | 14303-05810                | 14303-95810 | 218.0       | 10H    |          |

## Connecting Usage Type



| No. | Cable Grip Combine Plate System |                            | Total Length (mm) | Spec. | Remark            |
|-----|---------------------------------|----------------------------|-------------------|-------|-------------------|
|     | Grip Hook Plate (Hole)          | Cable Grip Plate (Hole)    |                   |       |                   |
| 1   | 14302-05501 (1H / 106mm)        | 14304-05502 (2H / 62.5mm)  | 156.5             | 3H    | Normal (Titanium) |
| 2   |                                 | 14304-05503 (3H / 86mm)    | 180.0             | 4H    |                   |
| 3   |                                 | 14304-05504 (4H / 109.5mm) | 203.5             | 5H    |                   |
| 4   |                                 | 14304-05505 (5H / 133.0mm) | 227.0             | 6H    |                   |
| 5   |                                 | 14304-05506 (6H / 156.5mm) | 250.5             | 7H    |                   |
| 6   |                                 | 14304-05507 (7H / 180.0mm) | 274.0             | 8H    |                   |
| 7   |                                 | 14304-05508(8H / 203.5mm)  | 297.5             | 9H    |                   |

| No. | Cable Grip Combine Plate System |                            | Total Length (mm) | Spec. | Remark               |
|-----|---------------------------------|----------------------------|-------------------|-------|----------------------|
|     | Grip Hook Plate (Hole)          | Cable Grip Plate (Hole)    |                   |       |                      |
| 1   | 14302-95501 (1H / 106mm)        | 14304-95502 (2H / 62.5mm)  | 156.5             | 3H    | Anodizing (Titanium) |
| 2   |                                 | 14304-95503 (3H / 86mm)    | 180.0             | 4H    |                      |
| 3   |                                 | 14304-95504 (4H / 109.5mm) | 203.5             | 5H    |                      |
| 4   |                                 | 14304-95505 (5H / 133.0mm) | 227.0             | 6H    |                      |
| 5   |                                 | 14304-95506 (6H / 156.5mm) | 250.5             | 7H    |                      |
| 6   |                                 | 14304-95507 (7H / 180.0mm) | 274.0             | 8H    |                      |
| 7   |                                 | 14304-95508 (8H / 203.5mm) | 297.5             | 9H    |                      |

## Cable & Sleeve



| No. | Cable & Sleeve | Length(mm) | Spec. | Material |
|-----|----------------|------------|-------|----------|
| 1   | 14101-17720    | 750        | 2.0   | Titanium |



# INSTRUMENT

| No. | Code No.    | Description       |
|-----|-------------|-------------------|
| 1   | 16207-01030 | Join Screw Driver |



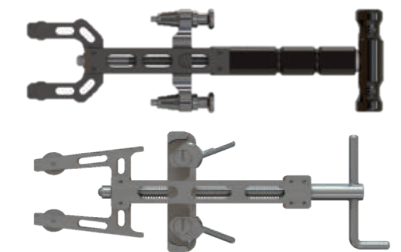
| No. | Code No.    | Description      |
|-----|-------------|------------------|
| 1   | 16301-00101 | Holding Impactor |



| No. | Code No.    | Description | Size        |
|-----|-------------|-------------|-------------|
| 1   | 16301-00201 | Wire Passer | Small       |
| 2   | 16301-00202 |             | Large       |
| 3   | 16301-00203 |             | Half Circle |



| No. | Code No.    | Description    |
|-----|-------------|----------------|
| 1   | 16301-00301 | Wire Tensioner |
| 2   | 16301-00302 |                |



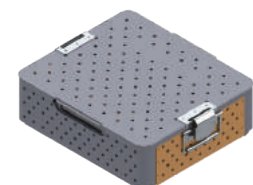
| No. | Code No.    | Description    |
|-----|-------------|----------------|
| 1   | 16301-00401 | Sleeve Gripper |



| No. | Code No.    | Description |
|-----|-------------|-------------|
| 1   | 16301-00501 | Wire Cutter |
| 2   | 16301-00502 |             |



| No. | Code No.    | Description             |
|-----|-------------|-------------------------|
| 1   | 16381-01001 | Container (340X300X110) |

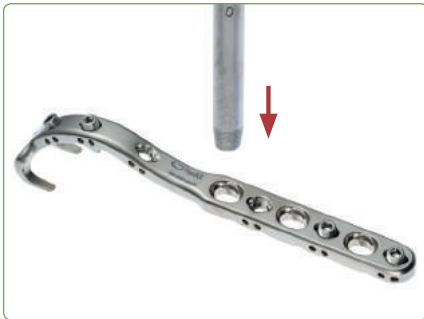


Optional task

# Fixing by Screw (Locking & Cortical)

Using by  $\text{Ø}5.0$  locking screw and  $\text{Ø}4.5$  cortical screw can be fastened for tight into the cable grip plate and the fractured bone.

## STEP 1 Drill sleeve fastening



Tighten the Drill Sleeve with the Locking Hole on the product while the product is fixed on the treatment site.

## STEP 2 Bone Drilling.



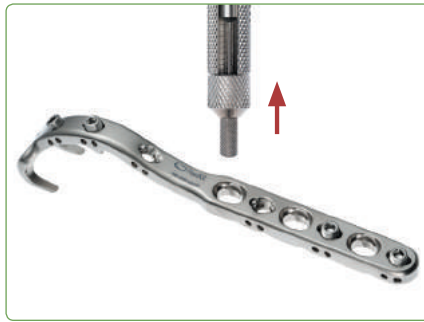
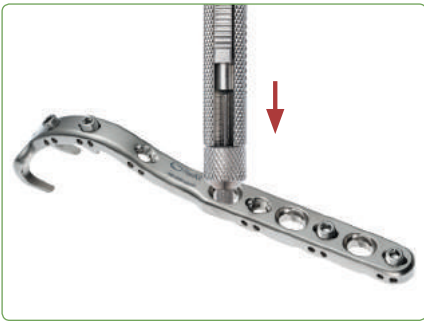
Drilling is performed on the drill sleeve using the drill bit.

## STEP 3 Drill Bit and Drill Sleeve Removal



After completing the drilling operation, remove the drill bit and drill sleeve.

#### STEP 4 Measurement by Depth Gauge



Insert the Depth Gauge into the treatment area where the drilling operation is completed, measure the depth of drilling, and select the bone screw suitable for the depth. (If the drilling depth is insufficient, repeats STEP 2 to STEP 3)

#### STEP 5 Bone Screw Fixation.



Fix the  $\varnothing 5.0$  locking screw or  $\varnothing 4.5$  cortical screw to the part where the drilling operation is completed by using the driver.

#### STEP 6 Final Checking



Ensure that the cable grip plate used for the surgical procedure is well tightened with the bone screw or that there is no bone screw loosening

#### STEP 7 Cable Grip Plate Removal

After the treatment is completed, the cable grip plate at the treatment site is removed in the reverse order using the driver and completely removed from the treatment site



# Fixing Screw (Locking & Cortical)

## 5.0 LOCKING CORTEX SCREW, B-Type



Anodizing (Blue)

| No | Item Code  | Length | Remark  | No. | Item Code    | Length | Remark    |
|----|------------|--------|---------|-----|--------------|--------|-----------|
| 1  | 2150-24220 | 20.8   | Sanding | 17  | AD2150-24220 | 20.8   | Anodizing |
| 2  | 2150-24222 | 22.8   |         | 18  | AD2150-24222 | 22.8   |           |
| 3  | 2150-24224 | 24.8   |         | 19  | AD2150-24224 | 24.8   |           |
| 4  | 2150-24226 | 26.8   |         | 20  | AD2150-24226 | 26.8   |           |
| 5  | 2150-24228 | 28.8   |         | 21  | AD2150-24228 | 28.8   |           |
| 6  | 2150-24230 | 30.8   |         | 22  | AD2150-24230 | 30.8   |           |
| 7  | 2150-24232 | 32.8   |         | 23  | AD2150-24232 | 32.8   |           |
| 8  | 2150-24234 | 34.8   |         | 24  | AD2150-24234 | 34.8   |           |
| 9  | 2150-24236 | 36.8   |         | 25  | AD2150-24236 | 36.8   |           |
| 10 | 2150-24238 | 38.8   |         | 26  | AD2150-24238 | 38.8   |           |
| 11 | 2150-24240 | 40.8   |         | 27  | AD2150-24240 | 40.8   |           |
| 12 | 2150-24242 | 42.8   |         | 28  | AD2150-24242 | 42.8   |           |
| 13 | 2150-24244 | 44.8   |         | 29  | AD2150-24244 | 44.8   |           |
| 14 | 2150-24246 | 46.8   |         | 30  | AD2150-24246 | 46.8   |           |
| 15 | 2150-24248 | 48.8   |         | 31  | AD2150-24248 | 48.8   |           |
| 16 | 2150-24250 | 50.8   |         | 32  | AD2150-24250 | 50.8   |           |

## 4.5 CORTICAL SCREW



Anodizing (Gold)

| No | Item Code | Length | Remark | No. | Item Code   | Length | Remark |
|----|-----------|--------|--------|-----|-------------|--------|--------|
| 1  | 245-21020 | 20.0   |        | 17  | AD245-21020 | 20.0   |        |
| 2  | 245-21022 | 22.0   |        | 18  | AD245-21022 | 22.0   |        |
| 3  | 245-21024 | 24.0   |        | 19  | AD245-21024 | 24.0   |        |
| 4  | 245-21026 | 26.0   |        | 20  | AD245-21026 | 26.0   |        |
| 5  | 245-21028 | 28.0   |        | 21  | AD245-21028 | 28.0   |        |
| 6  | 245-21030 | 30.0   |        | 22  | AD245-21030 | 30.0   |        |
| 7  | 245-21032 | 32.0   |        | 23  | AD245-21032 | 32.0   |        |
| 8  | 245-21034 | 34.0   |        | 24  | AD245-21034 | 34.0   |        |
| 9  | 245-21036 | 36.0   |        | 25  | AD245-21036 | 36.0   |        |
| 10 | 245-21038 | 38.0   |        | 26  | AD245-21038 | 38.0   |        |
| 11 | 245-21040 | 40.0   |        | 27  | AD245-21040 | 40.0   |        |
| 12 | 245-21042 | 42.0   |        | 28  | AD245-21042 | 42.0   |        |
| 13 | 245-21044 | 44.0   |        | 29  | AD245-21044 | 44.0   |        |
| 14 | 245-21046 | 46.0   |        | 30  | AD245-21046 | 46.0   |        |
| 15 | 245-21048 | 48.0   |        | 31  | AD245-21048 | 48.0   |        |
| 16 | 245-21050 | 50.0   |        | 32  | AD245-21050 | 50.0   |        |

# INSTRUMENT

| No. | Code No.    | Description       |
|-----|-------------|-------------------|
| 1   | 16214-01045 | Hex Driver Handle |



| No. | Code No.    | Description              |
|-----|-------------|--------------------------|
| 1   | 16211-35130 | Hex Driver Shaft Tip_3.5 |



| No. | Code No.    | Description                     |
|-----|-------------|---------------------------------|
| 1   | 16206-01050 | Screw Holding Forceps Ø4.5/Ø5.0 |



| No. | Code No.    | Description                  |
|-----|-------------|------------------------------|
| 1   | 16203-01001 | Double Drill Guide Ø3.2/Ø4.5 |



| No. | Code No.    | Description    |
|-----|-------------|----------------|
| 1   | 16201-32160 | Drill Bit_Ø3.2 |
| 2   | 16201-45210 | Drill Bit_Ø4.5 |



| No. | Code No.    | Description          |
|-----|-------------|----------------------|
| 1   | 16203-02050 | Locking Drill Sleeve |



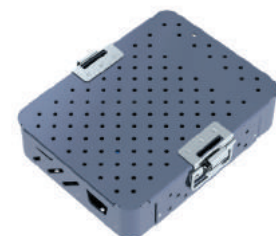
| No. | Code No.    | Description      |
|-----|-------------|------------------|
| 1   | 16205-01050 | Depth Gauge_50mm |



| No. | Code No.    | Description |
|-----|-------------|-------------|
| 1   | 16204-01045 | Tapper_Ø4.5 |

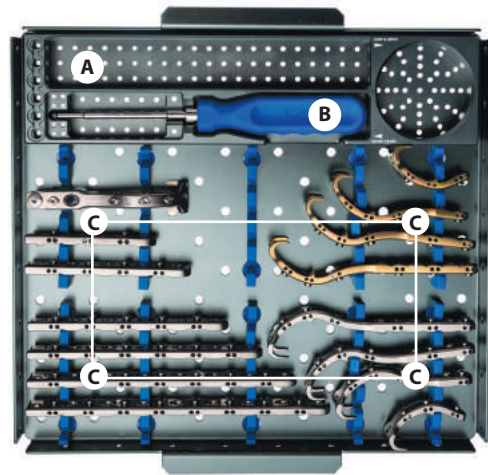


| No. | Code No.    | Description                                     |
|-----|-------------|---|
| 1   | 16381-01002 | Cable Grip Plate Screw Container (244X186X66.5) |



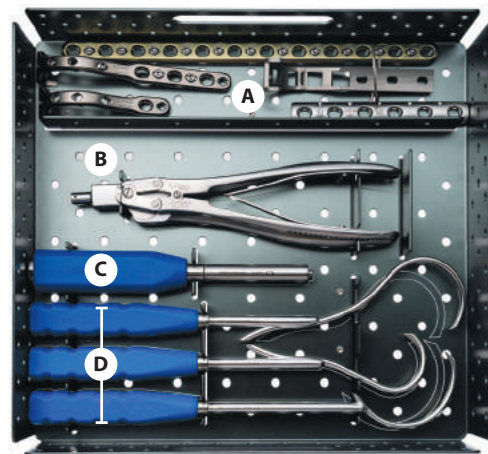
# Container Set-Up

## Container Upper



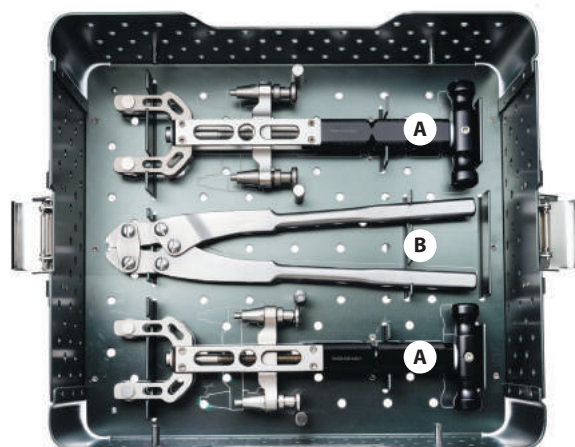
- Ⓐ - Spare space
- Ⓑ - Joint Screw Driver
- Ⓒ - Implant

## Container Middle



- Ⓐ - Spare space
- Ⓑ - Wire Cutter
- Ⓒ - Impact
- Ⓓ - Wire Passer

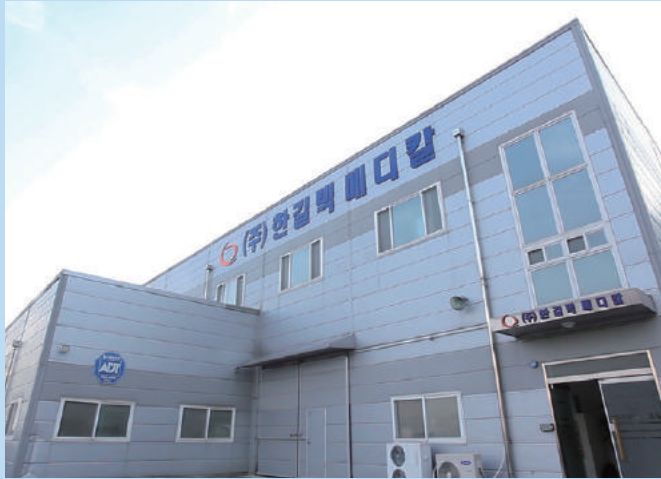
## Container bottom



- Ⓐ - Wire Tensioner
- Ⓑ - Sleeve Gripper



# Company Introduction



1. Company Established in 1969
2. Head office in Hwaseong(Korea) in Gyeonggi-do.
3. Clients spanning EU, Asia and Central and South America
4. Products ranging from implantables to transient devices in the field of orthopedics, surgical instruments.
5. Core competencies include :-
  - Research and product development
  - Medical device manufacturing(tooling, moulding and assembly)
  - Device technical file development
  - Development and maintenance of Quality Management systems
  - Business development and product promotion

## Manufacturing Services

ISO 13485, 9001, FDA approval and CE certified manufacturing facility.

- Prototyping - Machining and 3D printing.
- Tooling - Advanced high speed CNC and MCT.
- Moulding - Plastic injection moulding, Silicone injection, transfer and compression moulding.
- Class 8 Clean room with up to 8 State of the art injection moulding machines.
- Assembly and packaging for sterilization.
- Development of manufacturing processes and process improvement.
- Supply chain management





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