

Development of better technology. *AlloTech*



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AlloTech | Endoscopic Equipment / Instruments
Terra Disposable handpieces
For an better care

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TERRA 3.0 Series
Disposable Handpieces

 **AlloTech**

Who

What

Allotech created the innovation Terra 3.0 series

Terra 3.0 series Disposable Handpieces



Where

Use for hip & knee Arthroplasty



Disposable
Handpieces

Terra 3.0 series

How

Prevent patients from Cross infection



This complication may occur at a rate up to **2,5%** after primary hip or knee arthroplasty and is associated with marked morbidity and mortality.

[Javad P : Resistant Organisms in Infected Total Knee Arthroplasty. Instr Course Lect 2009;56:271-278]

- ✓ NOW! Surgery using disposable handpieces, which significantly reduces the risk of infection, is **THE SOLUTION**.
- ✓ The last method to reduce infection rate in total Arthroplasty is **THE SOLUTION**.

Disposable Handpieces

Why

When

For your patients & the brilliant Surgeon

Reaction of Blood



[After sterilization through EO GAS]



[After grabbing sterilized handpiece in a glove]

E.J.Lee : Pre-study on infection sources of medical handpieces and surgical gloves through bloodstain reaction experiments. KAIS 2014;vol. 15:1:825-827

- ✓ The bloodstain which cause cross infection still remain after sterilization.
- ✓ As shown in the picture, the bloodstain transferred to the gloves.
- ✓ Cross infection is caused by the contaminated gloves.

NOW!
choose our
Terra 3.0 series

You are surely free from physical, mental,
financial problems caused by cross infection.



Terra 3.0 series



Disposable Drill Handpiece

AT 3.0 AD

- Speed : 800 rpm
- Torque : 4 NM



Disposable Reamer Handpiece

AT 3.0 AR

- Speed : 250 rpm
- Torque : 10 NM



Disposable Saw Handpiece

AT 3.0 AS

- Speed : 22,000 cpm



Accessories

- **AT-13** Terra Battery Dock
- **AT-13-001** Terra Battery
- **AT-13-002** Power Adaptor
- **ATAS-001** Terra Protector for AT 3.0 AS
- **AT-2020-03** Jacob's chuck (with key)

The Adaptor could be provided to the order by customer's request.

EKO Blade

The Saw Blades could be provided to the order by customer's request.





Q1 Why should I use a disposable handpiece?

A1 As medical technology advances, the inner and outer structure of medical devices become more complicated which cause difficulty in cleaning. Although the cleaning process is well-performed following the guidelines given by manufacturer, the patients are still suffering from SSI (Surgical Site Infection) caused by unsterilized medical devices.

Table 1 Cumulative causes of failure after TKA over the last 5 years*

Causes	Overall	Time to revision	
		≤ 2 years	> 2 years
Infection	239 (38)	133 (77)	106 (23)
Loosening	207 (33)	6 (4)	201 (44)
Wear	83 (13)	0	83 (18)
Instability	41 (7)	16 (9)	25 (5)
Stiffness	16 (3)	9 (5)	7 (2)
Implant failure	14 (2)	3 (2)	11 (2)
Periprosthetic fracture	13 (2)	2 (1)	11 (2)
Osteolysis	10 (2)	0	10 (2)
Extensor mechanism failure	5 (1)	2 (1)	3 (1)
Malalignment	4 (1)	1 (1)	3 (1)
Unidentified pain	2 (0,3)	0	2 (0,4)
Total	634	172 (27)	462 (73)

* Data are presented as numbers with percentages in parentheses.

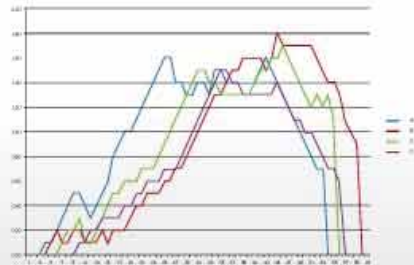
As shown in the table above, it necessary to seriously consider the solution for surgical site infection, hospital infection, and cross infection caused by reusable medical devices which cannot perfectly be sterilized.

In particular, disposable handpiece can protect a patient from infection caused by super bacteria such as Methicilin resistant staphylococcus aureus (MRSA), Vancomycin resistant staphylococcus aureus (VRSA), vancomycin resistant enterococci (VRE), pseudomonas aeruginosa, multidrug resistant Acinetobacter baumannii (MRAB).

They are resistant to antibiotics or survive through sterilization treatment that is commonly used at present.

Q2 What's the difference in performance compared to a reusable handpiece?

A2 The test showed no difference in the performances and Terra makes the surgeon to operate with best quality of medical devices as using new one every time. This advantage doesn't exist in reusable handpiece that low-performance and dysfunction occur after long-time-use. In case of inferiority, it's soluable by opening a new box.



※ A reusable handpiece provided by A, B, C companies
D: A disposable handpiece by AlloTech Co., Ltd.

Q3 Is it possible to prevent patient from cross infection by using a disposable handpiece?

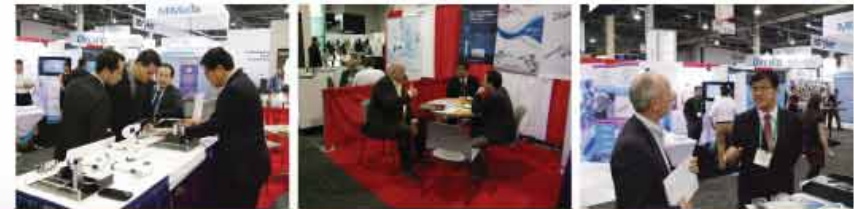
A3 Cross infection can be 100% prevented by disposable handpiece. Cross infection cannot occur with a disposable handpiece that never been used for other purposes

Q4 What's economic benefits that can be gained by using a disposable handpiece?

A4 There are no extra charge from repairing low-performance and dysfunction of reusable handpiece and a decrease in medical expenses occurring from longer hospitalization and treatment due to infection. You are free from the social finance problems making you suffer long when it once occurred such as hospital's large amount of compensation or legal cost.

Q5 What innovative technology does Terra have?

A5 There was no technology to prevent original disposable devices from reuse. However, Terra has an imbedded control chip for preventing reuse. Therefore, Terra series can perfectly prevent secondary infection caused by handpieces.



Please Contact us

