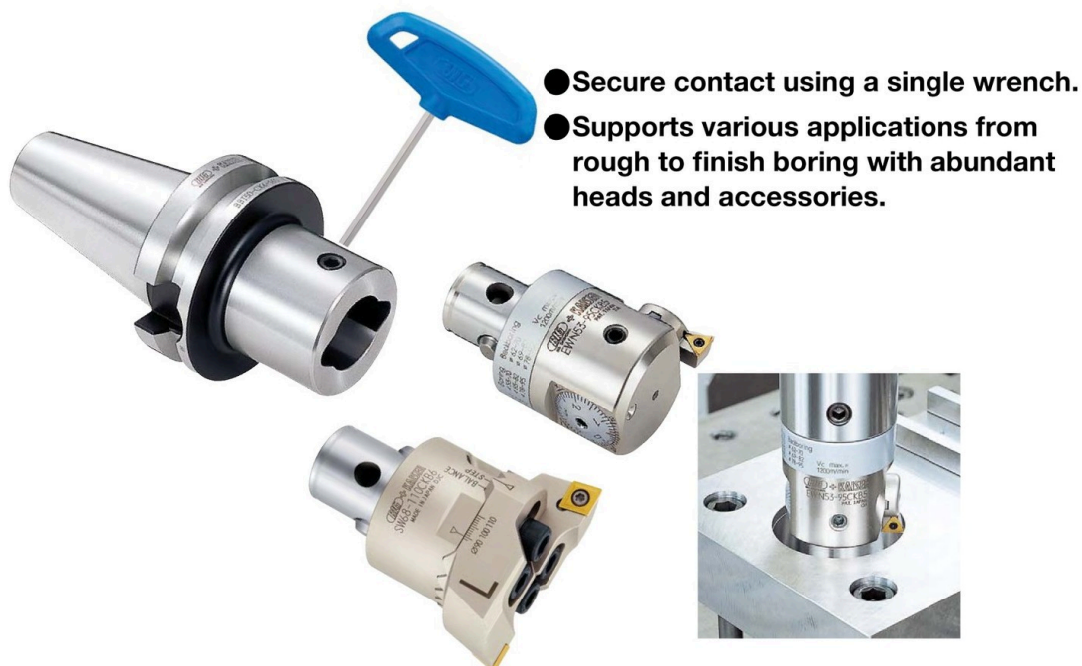


# BORING SYSTEM **BIG**+KAISER **CK BORING SYSTEM**



- ▶ Heads : A40
- ▶ BBT/BT : A77
- ▶ DV : B13
- ▶ HSK : C25
- ▶ ST : D8
- ▶ BIG CAPTO : E52
- ▶ For N/C : F10

Cutting  
Conditions **A105**

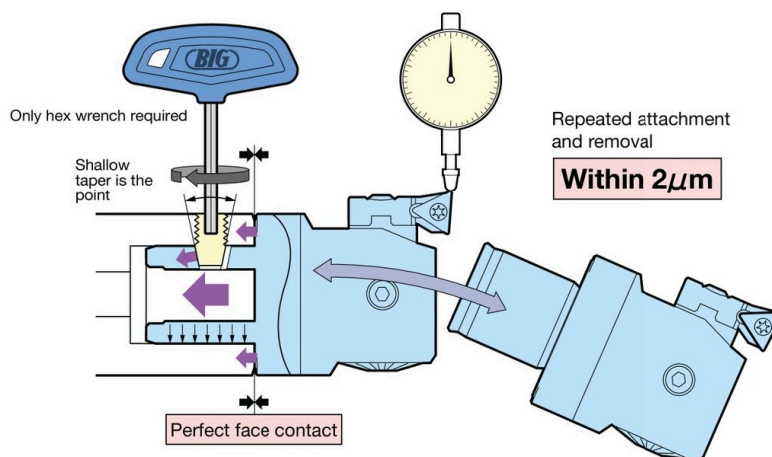


- Secure contact using a single wrench.
- Supports various applications from rough to finish boring with abundant heads and accessories.

## Secure contact using a single wrench! The simplest modular boring clamping system

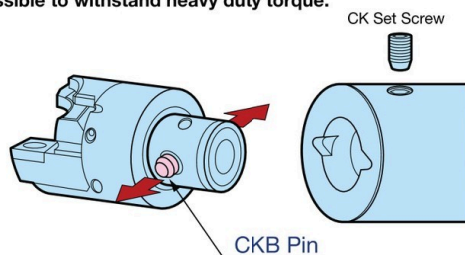
The CK is a simple method for securely and powerfully clamping flange faces with a single wrench.

Since the connection system has a high connection accuracy with less than a 2-micron difference of the cutting edge position, it allows boring head diameter adjustment and drastic labor reduction to increase machine utilization.



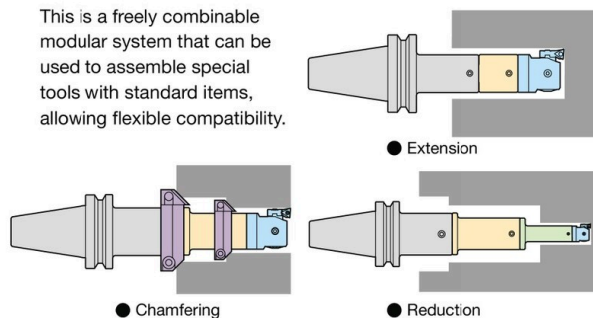
## Safe structure at high torque

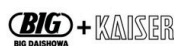
Adopts a proprietary CKB pin for rough boring at high cutting torque. **The CKB pin is of floating type which gives it good horizontal balance, dampening cutting torque and making it possible to withstand heavy duty torque.**



## Rapid adaptation to special tools

This is a freely combinable modular system that can be used to assemble special tools with standard items, allowing flexible compatibility.



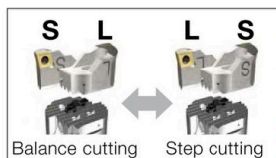


# CK BORING SYSTEM

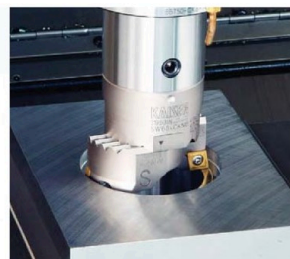
## ROUGH BORING HEAD Pursuit of rigidity



High rigidity  
**SW BORING HEAD** PAT. **A41**  
●  $\phi 20 - 203$   
● Serrated for high connection rigidity



Adapted for both balance and step cutting by simply changing positions of standard Cartridges. (for blind holes)



Roughing Head with Built-In Damper  
**SMART DAMPER SW BORING HEAD** PAT. **A43**

- Smart Damper with SW head
- Closely adjacent vibrating point and damper achieve a high damping effect.



100% completely balanced cutting

**RW BORING HEAD** **A47**

- $\phi 25 - 150$
- Abundant Cartridges
- Fine axial adjustment



Boring tool for small-diameter 2-flute roughing

**MW BORING HEAD** PAT. **A49**

- $\phi 16 - \phi 21$
- Versatile  $\phi 20$  shank
- Spiral groove for improved chip evacuation

## FINISH BORING HEAD Insert Holder Type Quick micron-level adjustment



Prebalanced design/Multifunction head  
**EWN BORING HEAD**

**A53**

- $\phi 20 - 203$
- Prebalanced design supports high-speed boring
- Abundance of insert holders

**Back boring available as standard**

Supports back boring by simply reversing the Insert Holder.



Digital boring head  
**EWE BORING HEAD**

**A55**

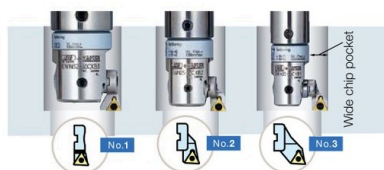
- $\phi 41 - 203$
- Digital display allows the adjustment amount to be read at a glance
- Fully waterproof and dustproof structure (IP69K equivalent)



Display Resolution  
 $1\mu\text{m}/\phi$

**Emphasis on chip evacuation properties**

Replacing the Insert Holder makes it possible to secure sufficient clearance for chips.



High speed  
**EWB BORING HEAD** **A57**

- $\phi 32 - 105/\phi 100 - 203$  (Aluminum)
- $0.01\text{mm}/\phi$  scale

$V_c$  Max.  
 $2,000\text{m}/\text{min}$

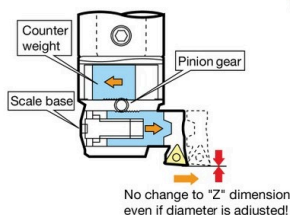
Built-in damper  
**SMART DAMPER** **A54**  
**EWN BORING HEAD**



Lightweight special aluminum head  
600g -

**Built-in automatic precision balancing unit**

The counter weight moves as the diameter is adjusted, allowing the balance to be automatically compensated.



- Integrated EWN BORING HEAD and SMART DAMPER.
- Closely adjacent vibrating point and damper achieve a high damping effect.