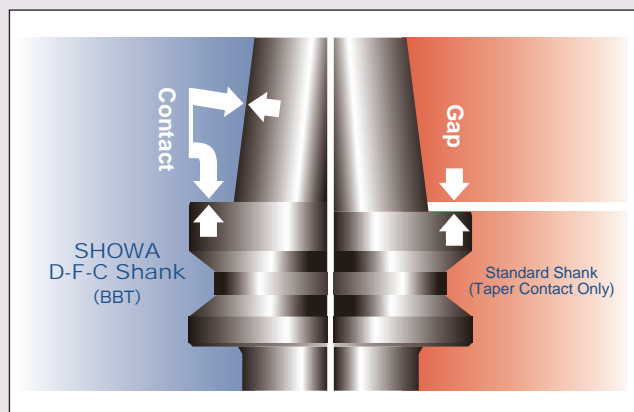


# SHOWA D-F-C SYSTEM (BBT)



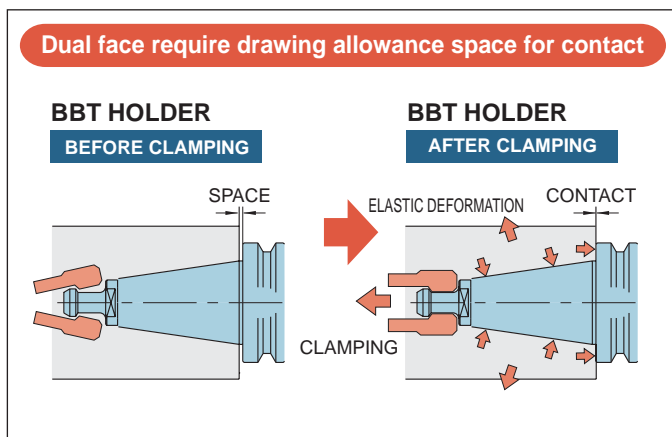
## Merit with dual face contact system

- Improve preciseness of processing surface and dimension
- Extend life of cutting tools
- Control color change (fretting) on the taper side under heavy duty processing
- Improve repetition preciseness of ATC
- Stability for Z direction at the time of high-speed processing
- Improve of roundness of the boring processing

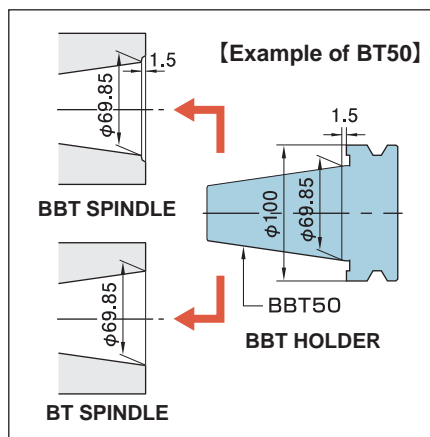


## SHOWA BBT TOOL SYSTEM

Dual face require drawing allowance space for contact



The Showa BBTTool System offers simultaneous dual contact between the machine spindle face and toolholder flange face, as well as the machine spindle taper and long toolholder taper shank.



### 【Reference value】

Spindle size	Clamping force	AXIAL MOVEMENT AMOUNT
#40	800kg	20μm
#50	2,000kg	20μm

\* The value of the table is for reference only and axial movement amount depends on the clamping mechanism and spindle shape.  
(The numerical values in the machining center owned by the Company)

\* BIG-PLUS system is Daishowa Seiki licensed products