

Alpha Pin (Long-life Pin)



● Use and Characteristics

- Use as replacement for pins which are breakable due to casting shrinkage.
- Effective for dispersing concentrated stress on the stepped part of the pin.
- Alpha pin machining is effective for a core pin which breaks at the root of step.

Difference of Stress concentration between conventional Pin and α -shaped Pin

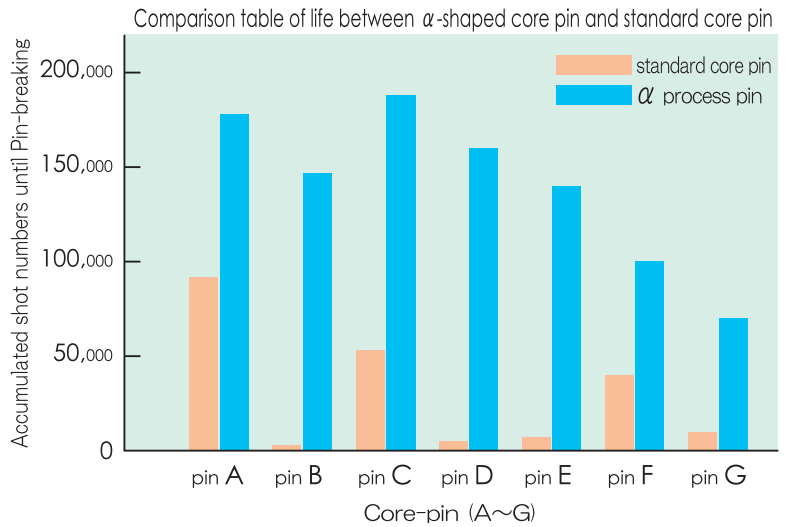
	Conventional core pin	α -shaped pin
① Casting		
② Product take out		

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Effect

Trouble in casting can be reduced due to long-life

- Normally, more than 2 times longer life compared to standard core pin is expected
 - Reduction of trouble by pin-breaking makes operation
 - Loss time for pin exchange is reduced.
- Maintenance cost will be able to much reduced.



Standard

Model	ϕ D	L	Extraprocessing Code J	Extra processing	Machining Shape
CP	Designate CP core-pin Designate from (P.119)		α	α -Pin processing	Please send drawing of your Core-pin • Core-pin with step. We design the shape and produce.

- Please send a drawing of your core pin together with your order. We may suggest most recommendable α - shape and produce,
- α -shaping can be available for Core-pin, Core-pin with step, Cooling-pin and Jet Pin. (Remark: α - shape may not be available to process for some pins.)

Example of order code designation

Model — D — L — Extra processing code

CP — **D10** — **L300** — **α** + Please send your drawing