

# HSKE-SHRINK-FIT CHUCK

## HSKE CHUCK FEATURES

Dynamic balancing grade: ≤G1.

High precision: Shank run-out accuracy: ≤0.002μm.

High axial and radial repeatability positioning precision.

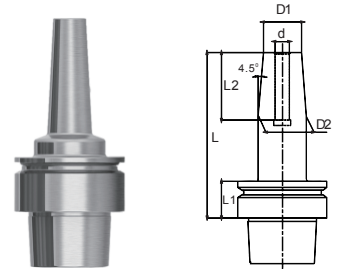
Repeatability positioning precision is ≤2μm.

Featuring high dynamic and static rigidity and stability, and high axial and radial accuracy, it ensures the accuracy of a product machined at high speed.

HSK shank is designed with a structure of hollow short taper shank. Compared with BT shank, HSK shank has a short length and light weight. With the power to change the cutter more quickly, it is especially suitable for high-speed machining.

Compared with the traditional carrier shank with the chuck, the shrink-fit shank has the following advantages:

- 1.Compact structure and high rigidity: The inner hole of the shank is directly connected with the cutter, without a middle carrier.
- 2.Large transmission torque: It can achieve a torque output 2 times or above that of an ordinary shank with ER chuck.
3. Wide adaptability and good machining surface quality: It is suitable for various kinds of rough and fine machining, with good machining surface quality.
- 4.High clamping accuracy: Generally, the clamping precision of the shank with the high-precision grade chuck is ≤0.005mm (at 4D position); but the run-out precision of the shrink-fit shank is ≤0.002mm (at 4D position)
- 5.Note: - The precision at the cutter shank is required to be H6.
  - The cutter is required to be made of tungsten steel, hard alloy, etc.
  - Adaptive induction heating type thermal shrinkage machine



## APPLICATION TYPE



Drilling



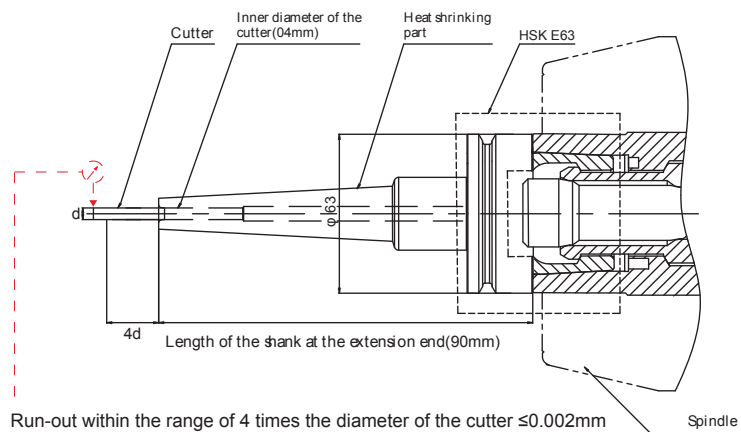
Reaming



Milling and cutting

## SFHSKE63-04-090

Schematic Diagram



## NAMING RULE:

### SFHSKE63-04-090

Shrink-fit shank code

CHUCK TYPE  
A | E

SHANK SPECIFICATION  
25 | 32 | 40 | 50 | 63

LENGTH OF THE HOLDER AT THE EXTENSION END/mm (three-digit number)

04: INNER DIAMETER OF THE CUTTER/mm (two-digit number)

# HSKE-SHRINK-FIT CHUCK

## TECHNICAL PARAMETERS

Shank type	Order type	Dimensions						Diameter of the cutter to be used	Requirement for the precision of the cutter shank diameter	Applicable speed
		D	D1	D2	L	L1	clamping depth L2			
HSKE25	DSFHSKE25- 04- 45	4	10	13.5	45	20	18	φ4	H6	80000RPM
	DSFHSKE25- 04- 50				50					
	DSFHSKE25- 04- 60				60					
	DSFHSKE25- 06- 45	6	21	27	45		36	φ6		
	DSFHSKE25- 06- 50				50					
	DSFHSKE25- 06- 60				60					
	DSFHSKE25- 08- 45	8	14	18	45		30	φ8		
	DSFHSKE25- 08- 50				50					
	DSFHSKE25- 08- 60				60					
HSKE32	DSFHSKE32- 04- 60	4	10	10	60	26	12	φ4	H6	50000RPM
	DSFHSKE32- 06- 60	6	21	27	60		36	φ6		
	DSFHSKE32- 08- 60	8	21	27	60		36	φ8		
	DSFHSKE32- 10- 60	10	24	32	60		42	φ1 0		
HSKE40	DSFHSKE40- 04- 75	4	10	10	75	26	12	φ4	H6	40000RPM
	DSFHSKE40- 06- 75	6	21	27	75		36	φ6		
	DSFHSKE40- 08- 75	8	21	27	75		36	φ8		
	DSFHSKE40- 10- 75	10	24	32	75		42	φ1 0		
	DSFHSKE40- 12- 75	12	24	32	75		42	φ1 2		
HSKE50	DSFHSKE50- 04- 75	4	10	10	80	26	12	φ4	H6	30000RPM
	DSFHSKE50- 06- 75	6	21	27	80		36	φ6		
	DSFHSKE50- 08- 75	8	21	27	80		36	φ8		
	DSFHSKE50- 10- 75	10	24	32	80		42	φ1 0		
	DSFHSKE50- 12- 75	12	24	32	80		42	φ1 2		