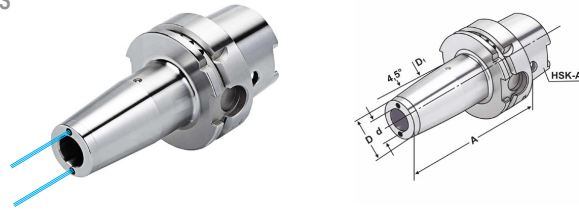


Upínač tepelný 4,5° s chladicími kanály

Shrink chucks 4,5° with coolant channels



pro upínání nástrojů se stopkou TK a HSS
for mounting of solid carbide and HSS-tool shanks



| Název Catalog number | Kužel Taper | d | D | D ₁ | l ₁ | l ₂ | A | G 2,5 25.000 min ⁻¹ |
|-------------------------|----------------|----|----|----------------|----------------|----------------|-----|-----------------------------------|
| HSK63A.80.TK4.03 | HSK63A | 3 | 11 | 15 | - | - | 80 | • |
| HSK63A.120.TK4.03 | HSK63A | 3 | 11 | 15 | - | - | 120 | • |
| HSK63A.80.TK4.04 | HSK63A | 4 | 14 | 22 | - | - | 80 | • |
| HSK63A.120.TK4.04 | HSK63A | 4 | 14 | 22 | - | - | 120 | • |
| HSK63A.80.TK4.05 | HSK63A | 5 | 16 | 22 | - | - | 80 | • |
| HSK63A.120.TK4.05 | HSK63A | 5 | 16 | 22 | - | - | 120 | • |
| HSK63A.80.TK4.06 | HSK63A | 6 | 21 | 27 | 36 | 10 | 80 | • |
| HSK63A.120.TK4.06 | HSK63A | 6 | 21 | 27 | 36 | 10 | 120 | • |
| HSK63A.160.TK4.06 | HSK63A | 6 | 21 | 27 | 36 | 10 | 160 | • |
| HSK63A.80.TK4.08 | HSK63A | 8 | 21 | 27 | 36 | 10 | 80 | • |
| HSK63A.120.TK4.08 | HSK63A | 8 | 21 | 27 | 36 | 10 | 120 | • |
| HSK63A.160.TK4.08 | HSK63A | 8 | 21 | 27 | 36 | 10 | 160 | • |
| HSK63A.85.TK4.10 | HSK63A | 10 | 24 | 32 | 41 | 10 | 85 | • |
| HSK63A.120.TK4.10 | HSK63A | 10 | 24 | 32 | 41 | 10 | 120 | • |
| HSK63A.160.TK4.10 | HSK63A | 10 | 24 | 32 | 41 | 10 | 160 | • |
| HSK63A.90.TK4.12 | HSK63A | 12 | 24 | 32 | 46 | 10 | 90 | • |
| HSK63A.120.TK4.12 | HSK63A | 12 | 24 | 32 | 46 | 10 | 120 | • |
| HSK63A.160.TK4.12 | HSK63A | 12 | 24 | 32 | 46 | 10 | 160 | • |
| HSK63A.90.TK4.14 | HSK63A | 14 | 27 | 34 | 46 | 10 | 90 | • |
| HSK63A.120.TK4.14 | HSK63A | 14 | 27 | 34 | 46 | 10 | 120 | • |
| HSK63A.160.TK4.14 | HSK63A | 14 | 27 | 34 | 46 | 10 | 160 | • |
| HSK63A.95.TK4.16 | HSK63A | 14 | 27 | 34 | 46 | 10 | 95 | • |
| HSK63A.120.TK4.16 | HSK63A | 16 | 27 | 34 | 49 | 10 | 120 | • |
| HSK63A.160.TK4.16 | HSK63A | 16 | 27 | 34 | 49 | 10 | 160 | • |
| HSK63A.95.TK4.18 | HSK63A | 16 | 27 | 34 | 49 | 10 | 95 | • |
| HSK63A.120.TK4.18 | HSK63A | 18 | 33 | 42 | 49 | 10 | 120 | • |
| HSK63A.160.TK4.18 | HSK63A | 18 | 33 | 42 | 49 | 10 | 160 | • |
| HSK63A.100.TK4.20 | HSK63A | 20 | 33 | 42 | 51 | 10 | 100 | • |
| HSK63A.120.TK4.20 | HSK63A | 20 | 33 | 42 | 51 | 10 | 120 | • |
| HSK63A.160.TK4.20 | HSK63A | 20 | 33 | 42 | 51 | 10 | 160 | • |
| HSK63A.115.TK4.25 | HSK63A | 25 | 44 | 53 | 58 | 10 | 115 | • |
| HSK63A.120.TK4.25 | HSK63A | 25 | 44 | 53 | 58 | 10 | 120 | • |
| HSK63A.160.TK4.25 | HSK63A | 25 | 44 | 53 | 58 | 10 | 160 | • |
| HSK63A.120.TK4.32 | HSK63A | 32 | 44 | 53 | 61 | 10 | 120 | • |
| HSK63A.160.TK4.32 | HSK63A | 32 | 44 | 53 | 61 | 10 | 160 | • |

l₁ = maximální upínací délka (clamping, depth, max.)

l₂ = maximální délkové nastavení (length adjustment range max.)

pro průměry stopek 3, 4 a 5 mm pouze pro karbidové nástroje
pro průměry stopek 3, 4, a mm s tolerancí h4 a průměry stopek 6 až 32 s tolerancí h6
vhodné pro přístroje, které používají ohřev indukční, kontaktní a teplým vzduchem

for Ø 3, 4 a 5 mm only solid carbide

Ø 3, 4 a 5 mm with h4 tolerance and Ø 6- Ø32 with h6 tolerance

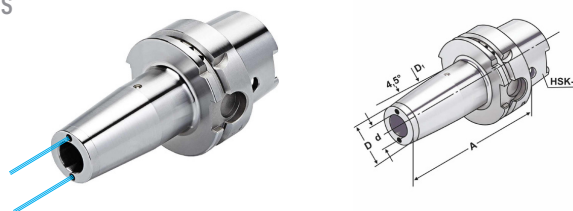
tool shanks must be used toolholders suitable for induction, contact and hot air shrink units

Upínač tepelný 4,5° s chladicími kanály

Shrink chucks 4,5° with coolant channels



pro upínání nástrojů se stopkou TK a HSS
for mounting of solid carbide and HSS-tool shanks



| Název Catalog number | Kužel Taper | d | D | D ₁ | l ₁ | l ₂ | A | G 2,5 25.000 min ⁻¹ |
|-------------------------|----------------|----|----|----------------|----------------|----------------|-----|-----------------------------------|
| HSK100A.80.TK4.05 | HSK100A | 5 | 16 | 22 | 20 | 5 | 80 | • |
| HSK100A.120.TK4.05 | HSK100A | 5 | 16 | 22 | 20 | 5 | 120 | • |
| HSK100A.85.TK4.06 | HSK100A | 6 | 21 | 27 | 36 | 10 | 85 | • |
| HSK100A.120.TK4.06 | HSK100A | 6 | 21 | 27 | 36 | 10 | 120 | • |
| HSK100A.85.TK4.08 | HSK100A | 8 | 21 | 27 | 36 | 10 | 85 | • |
| HSK100A.120.TK4.08 | HSK100A | 8 | 21 | 27 | 36 | 10 | 120 | • |
| HSK100A.90.TK4.10 | HSK100A | 10 | 24 | 32 | 42 | 10 | 90 | • |
| HSK100A.120.TK4.10 | HSK100A | 10 | 24 | 32 | 42 | 10 | 120 | • |
| HSK100A.95.TK4.12 | HSK100A | 12 | 24 | 32 | 47 | 10 | 95 | • |
| HSK100A.120.TK4.12 | HSK100A | 12 | 24 | 32 | 47 | 10 | 120 | • |
| HSK100A.95.TK4.14 | HSK100A | 14 | 27 | 34 | 47 | 10 | 95 | • |
| HSK100A.120.TK4.14 | HSK100A | 14 | 27 | 34 | 47 | 10 | 120 | • |
| HSK100A.100.TK4.16 | HSK100A | 16 | 27 | 34 | 50 | 10 | 100 | • |
| HSK100A.120.TK4.16 | HSK100A | 16 | 27 | 34 | 50 | 10 | 120 | • |
| HSK100A.100.TK4.18 | HSK100A | 18 | 33 | 42 | 50 | 10 | 100 | • |
| HSK100A.120.TK4.18 | HSK100A | 18 | 33 | 42 | 50 | 10 | 120 | • |
| HSK100A.105.TK4.20 | HSK100A | 20 | 33 | 42 | 52 | 10 | 105 | • |
| HSK100A.120.TK4.20 | HSK100A | 20 | 33 | 42 | 52 | 10 | 120 | • |
| HSK100A.115.TK4.25 | HSK100A | 25 | 44 | 53 | 58 | 10 | 115 | • |
| HSK100A.120.TK4.25 | HSK100A | 25 | 44 | 53 | 58 | 10 | 120 | • |
| HSK100A.120.TK4.32 | HSK100A | 32 | 44 | 53 | 61 | 10 | 120 | • |

l₁ = maximální upínací délka (clamping, depth, max.)

l₂ = maximální délkové nastavení (length adjustment range max.)

pro průměry stopek 3, 4 a 5 mm pouze pro karbidové nástroje
pro průměry stopek 3, 4, a mm s tolerancí h4 a průměry stopek 6 až 32 s tolerancí h6
vhodné pro přístroje, které používají ohřev indukční, kontaktní a teplým vzduchem

for Ø 3, 4 a 5 mm only solid carbide

Ø 3, 4 a 5 mm with h4 tolerance and Ø 6- Ø32 with h6 tolerance

tool shanks must be used toolholders suitable for induction, contact and hot air shrink units