AK182 hydraulic Chuck Agenda

- **1. Product description**
- 2. Lab test
- 3. Product program
- 4. Advantages and costumer benefits
- 5. Application area
- 6. Competition
- 7. Additional information





1. Product description

All typical couplings SK, BT and HSK **Clamping diameter** 12, 20, 32 mm Usable for all shank versions simple handling



AK182 hydraulic chuck 1. Product description





1. Product description intermediate bushing

Runout accuracy≤ 2 µm

Intermediate bushing are in 2 versions available:

sealed

- Up to 80 bar coolant pressure
- Perfect for tools with internal coolant

With peripheral coolant

 Guides the coolant along the chip flutes direct to the cutting edge





3. Product program

adaptors:



	D 12	D 20	D 32
SK 40	x	x	
SK 50		x	x
BT 40	Х	X	
BT 50		X	х
HSK 63	x	X	
HSK 100		Х	Х



AK182 hydraulic chuck 3. Product program

Inte	ermediate bushing		
		with peripheral-coolant	for internal coolant
	D 12	3, 4, 5, 6, 8	3, 4, 5, 6, 8
	D 20	3, 4, 5, 6, 8, 10,12,14,16	3, 4, 5, 6, 7, 8, 9, 10,11,12,13,14,15,16
	D 32	6, 8, 10,12,14,16,18, 20,25	6, 8, 10,12,14,16,18, 20,25



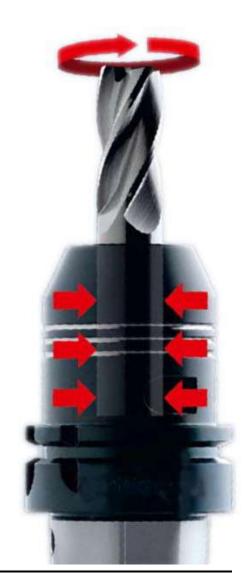
4. Advantages and costumer benefits

Quality:

- high surface quality
- \rightarrow excellent runout accuracy
- Improvement of milling result
- → based on perfect coolant supply (with and without internal coolant)

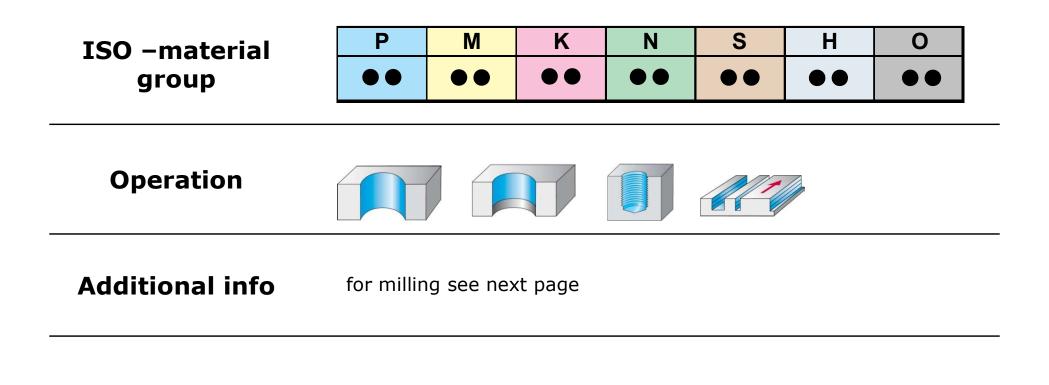
Costs:

- Increase of tool life especially in milling
- − → damping function
- Simple handling
- Universal use
 - ➔ with intermediate bushing





AK182 hydraulic chuck 5. Application area





AK182 hydraulic chuck 5. Application area

• Full slotting with AK182

		Recommended limits for ap [mm]							
		Dc [mm] 12		16		20			
	hy	adaption in draulic chuck		AK18220 reduced	AK18232 reduced	AK18220 reduced	AK18232 reduced	AK18220 direct	AK18232 reduced
al	X37CrMoV5-1	1.2343	10	15	30	10	24	8	20
	42CrMo4 (850 N/mm2)	1.7223	11	16	38	10	20	10	22
	X100CrMoV5	1.2363	10	15	30	10	25	10	20
	X46Cr13	1.4034	10	13	30	10	30	10	23
Mat	GGG-50	0.7050	12	18	40	12	30	10	28
	GGG-60	0.7060	12	18	30	12	30	10	25
	AlZnMgCu1,5	3.4365	30	40	40	40	40	16	40
	Inconel 718	2.6468	8	12	27	10	23	8	18

Hint: pay attention to the limit of spindle load (i.e. HSK63)! ۲

