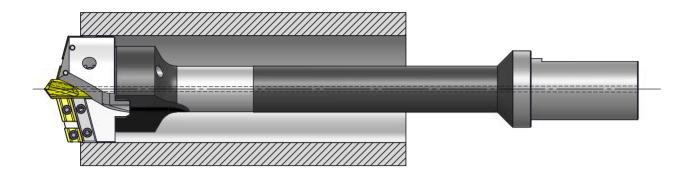


# Bohrsystem KSB/KBH Drilling system KSB/KBH





#### Vorteile:

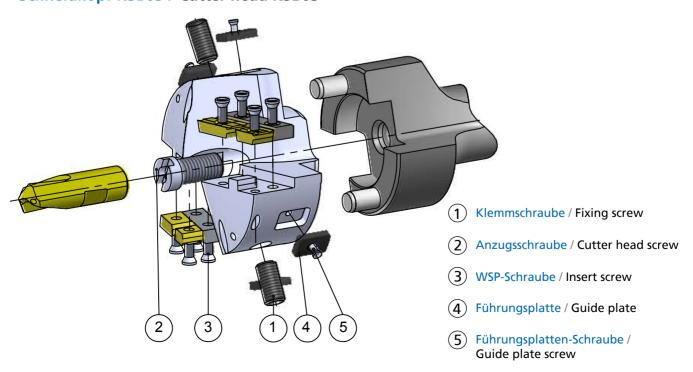
- Hochpositive Schneidengeometrie für geringe Antriebsleistung
- Hoher Vorschub durch maximale Schneidenüberdeckung
- Hohe Leistungsfähigkeit und übertragbare Schnittmomente durch ungeteilte Halter
- Enge Bohrungstoleranzen (H11)

- Geradliniger Bohrungsverlauf durch Führungsfasen der äußeren WSP
- Führungsplatten für schrägen Austritt und Schnittunterbrechung (KSB03)
- Universell mit HM- und HSSE-WSP einsetzbar
- Auch für labile Einsatzbedingungen geeignet
- Paketbearbeitung möglich

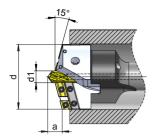
## **Advantages:**

- Very positive rake angle for low machine power requirement
- High feed rate due to maximum overlap of inserts
- High performance by rigid and undivided holder
- Close drilling tolerances (H11)
- Straight bores due to guiding chamfers on the external inserts
- Guide plates for inclined bore outlets and cut interruptions (KSB03)
- Universally usable with carbide and HSS-inserts
- Also usable in unstable conditions
- Machining of staked bores possible

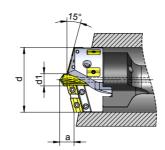
## Schneidkopf KSB03 / Cutter head KSB03



# Powerbore-Schneidköpfe / Cutter heads



KSB01 ohne HM-Führungsplatten / without carbide guide plates



KSB03 mit HM-Führungsplatten / with carbide guide plates

#### Ersatzteile für KSB03 / Spare parts for KSB03

		-					
					BestNr.*/ OrdNo		
d	d <sub>1</sub>	a*	Anzahl WSP / No. of inserts	Größe / Size BZS	KSB01		
39	11	10	3	08	KSB01 039		
40	11	10	3	08	KSB01 040		
45	11	10	3	08	KSB01 045		
48	11	11	4	08	KSB01 048		
50	11	11	4	09	KSB01 050		
57	11	12	4	09	KSB01 057		
60	13	14	4	1	KSB01 060		
67	13	15	4	1	KSB01 067		
70	13	16	4	1	KSB01 070		
77	13	17	4	1	KSB01 077		
80	13	17	5	2	KSB01 080		
87	13	18	5	2	KSB01 087		
90	13	18	5	2	KSB01 090		
97	13	19	6	2	KSB01 097		
100	13	20	6	3	KSB01 107		
107	13	21	6	3	KSB01 107		
110	13	21	6	3	KSB01 110		
117	13	22	6	3	KSB01 117		
120	16	23	6	4	KSB01 120		
127	16	24	8	4	KSB01 127		
130	16	24	8	4	KSB01 130		
137	16	25	8	4	KSB01 137		
140	16	26	8	4	KSB01 140		
147	16	27	10	4	KSB01 147		
150	16	27	10	4	KSB01 150		
157	16	28	10	4	KSB01 157		
160	16	28	10	4	KSB01 160		

1	110	13	21	6	3	KSB01 110				
	117	13	22	6	3	KSB01 117				
	120	16	23	6	4	KSB01 120				
	127	16	24	8	4	KSB01 127				
	130	16	24	8	4	KSB01 130				
	137	16	25	8	4	KSB01 137				
	140	16	26	8	4	KSB01 140				
	147	16	27	10	4	KSB01 147				
	150	16	27	10	4	KSB01 150				
	157	16	28	10	4	KSB01 157				
	160	16	28	10	4	KSB01 160				
	* Bei Verwendung von ZB02 / When using ZB02									
	Zwischenabmessungen kurzfristig lieferbar / Intermediate dimension available on short term									

**(5) (**4) Best.-Nr.\*/ Stk./ Ord.-No Pcs. Führungsplatten *i* guide plates KSB03 4 TX 25050S KSB03 039 Z7S 0400 KSB03 040 4 Z7S 0400 TX 25050S 4 KSB03 045 Z7S 0400 TX 25050S 4 KSB03 048 Z7S 0400 TX 25050S KSB03 050 4 Z7S 0500 TX 25050S KSB03 057 4 Z7S 0500 TX 25050S 4 KSB03 060 Z7S 0600 TX 35095S KSB03 067 4 Z7S 0600 TX 35095S 4 KSB03 070 Z7S 0700 TX 35095S 4 Z7S 0700 KSB03 077 TX 35095S KSB03 080 6 Z7S 0800 TX 35095S 6 KSB03 087 Z7S 0800 TX 35095S KSB03 090 6 Z7S 0800 TX 35095S KSB03 097 6 Z7S 0900 TX 35095S 6 KSB03 107 Z7S 0900 TX 35095S TX 35095S 6 Z7S 0900 KSB03 107 6 KSB03 110 Z7S 1200 TX 35095S KSB03 117 6 Z7S 1200 TX 35095S 6 KSB03 120 Z7S 1200 TX 35095S Z7S 1200 6 KSB03 127 TX 35095S KSB03 130 6 Z7S 1200 TX 35095S KSB03 137 6 Z7S 1400 TX 35095S 6 KSB03 140 Z7S 1400 TX 35095S KSB03 147 6 Z7S 1400 TX 35095S KSB03 150 6 Z7S 1400 TX 35095S 6 KSB03 157 Z7S 1400 TX 35095S KSB03 160 6 Z7S 1400 TX 35095S

Andere Abmessungen und Ausführungen auf Anfrage / Other dimensions and designs upon request

Schneiden, Halter, Ersatzteile und Zubehör s. S. 18-19 / Inserts, holder and spare parts s. p. 18-19

### **Schnittdatenempfehlung / Cutting data recommendation:**

		Niedrigle Low allo		Hochle High all		Gusseisen Cast iron	Aluminium	
		z.B./ C4!	-	z.B. / 42Cr	e.g. 'Mo4	z.B./e.g. GJL, GJS	z.B./e.g. AlSi10Mg	
		HM (P)	HSSE (S6)	HM (P)	HSSE (S6)	HM (P)	HM (P)	
Ød	Vc	50 - 120	30 - 50	40 - 110	10 - 40	50 - 180	50 - 130	
39 - 58	f	0,20 - 0,25	0,20 - 0,30	0,20 - 0,25	0,20 - 0,30	0,20 - 0,35	0,20 - 0,35	
59 - 99	f	0,20 - 0,30	0,25 - 0,40	0,20 - 0,30	0,25 - 0,40	0,25 - 0,40	0,20 - 0,40	
>= 100	f	0,25 - 0,35	0,30 - 0,60	0,25 - 0,35	0,30 - 0,50	0,30 - 0,50	0,25 - 0,50	

geschwindigkeit / **Cutting speed** Vc (m/min)

Vorschub / Infeed f (mm/U) / (mm/rev)

Ausreichende Kühlschmierstoff-Zufuhr erforderlich / Sufficient coolant supply needed



## KSB/KBH

# Schneiden, Halter und Ersatzteile

# Inserts, holders and spare parts

			We	ndesch	neidpla	tten / I	nserts	
				d				
Schneidkopf / Cutter Head (SB Ø (s. S.17 / s.p.17)	Zentrums- bohrer / Centre Drill	Stk. / Pcs	Hochpositive Spanleit- stufen / Very positive rake angle		rte (s .S. 2 ade (s. p. :		Spanleitstufen für kurze Späne auch bei geringem Vorschub / Chip breakers for short chips already at low feed rates	
20.0 42.0	70024425N		VDLIV 050204 FD2	D.7	DO.	5.6	VPUV 050204 FPZ P0	
38,0 - 42,9	ZB021135N	2	XBHX 060304 FR3 XBHX 110304 FR3	P7 P7	P9 P9	\$6 \$6	XBHX 060304 FR7 P9 XBHX 110304 FR7 P9	
43,0 - 45,9	ZB021135N	1 1	XBHX 060304 FR3 XBHX 080304 FR3	P7 P7	P9 P9	\$6 \$6	XBHX 060304 FR7 P9 XBHX 080304 FR7 P9	
		1	XBHX 110304 FR3	P7	P9	S6	XBHX 110304 FR7 P9	
46,0 - 47,4	ZB021135N	2	XBHX 080304 FR3 XBHX 110304 FR3	P7 P7	P9 P9	\$6 \$6	XBHX 080304 FR7 P9 XBHX 110304 FR7 P9	
47,5 - 48,9	ZB021135N	1	XBHX 060304 FR3	P7	P9	S6	XBHX 060304 FR7 P9	
,5 -10,5		2	XBHX 080304 FR3	P7	P9	S6	XBHX 080304 FR7 P9	
		1	XBHX 110304 FR3	P7	P9	\$6	XBHX 110304 FR7 P9	
49,0 - 52,9	ZB021135N	1	XBHX 060304 FR3	P7	P9	S6	XBHX 060304 FR7 P9	
		2	XBHX 080304 FR3	P7	P9	S6	XBHX 080304 FR7 P9	
		1	XBHX 110304 FR3	P7	P9	S6	XBHX 110304 FR7 P9	
53,0 - 57,9	ZB021135N	2 2	XBHX 080304 FR3 XBHX 110304 FR3	P7 P7	P9 P9	\$6 \$6	XBHX 080304 FR7 P9 XBHX 110304 FR7 P9	
		1	XBHX 090404 FR3	P7	P9	<b>S</b> 6	XBHX 090404 FR7 P9	
58,0 - 59,9*	ZB021346N	1	XBHX 100404 FR3	P7	P9	56	XBHX 100404 FR7 P9	
		1	XBHX 150404 FR3	P7	P9	<b>S</b> 6	XBHX 150404 FR7 P9	
60,0 - 65,9	ZB021346N	2	XBHX 090404 FR3	P7	P9	S6	XBHX 090404 FR7 P9	
		2	XBHX 120404 FR3	P7	P9	56	XBHX 120404 FR7 P9	
66,0 - 69,5	ZB021346N	2	XBHX 090404 FR3	P7	P9	<b>S6</b>	XBHX 090404 FR7 P9	
, ,		2	XBHX 150404 FR3	P7	P9	<b>S</b> 6	XBHX 150404 FR7 P9	
69,6 - 79,9	ZB021346N	2	XBHX 100404 FR3	P7	P9	<b>S</b> 6	XBHX 100404 FR7 P9	
		2	XBHX 150404 FR3	P7	P9	S6	XBHX 150404 FR7 P9	
80,0 - 85,5	ZB021356N	3 2	XBHX 090404 FR3 XBHX 150404 FR3	P7 P7	P9 P9	\$6 \$6	XBHX 090404 FR7 P9 XBHX 150404 FR7 P9	
85,6 - 90,5	ZB021356N	3 2	XBHX 100404 FR3 XBHX 150404 FR3	P7 P7	P9 P9	\$6 \$6	XBHX 100404 FR7 P9 XBHX 150404 FR7 P9	
90,6 - 92,5	ZB021356N	2	XBHX 100404 FR3	P7	P9	<b>S6</b>	XBHX 100404 FR7 P9	
,-		1	XBHX 120404 FR3	P7	P9	56	XBHX 120404 FR7 P9	
		2	XBHX 150404 FR3	P7	P9	<b>S6</b>	XBHX 150404 FR7 P9	
92,6 - 96,5	ZB021356N	4	XBHX 090404 FR3	P7	P9	<b>S6</b>	XBHX 090404 FR7 P9	
32,0 30,3	2002 1330IV	2	XBHX 150404 FR3	P7	P9	S6	XBHX 150404 FR7 P9	
96,6 - 99,9	ZB021356N	4	XBHX 100404 FR3	P7	P9	S6	XBHX 100404 FR7 P9	
30,0 - 33,3	ZD0Z 1330N	2	XBHX 150404 FR3	P7	P9	S6	XBHX 150404 FR7 P9	
100 0 100 5	7D0242ECN							
100,0 - 106,5	ZB021356N	2	XBHX 100404 FR3 XBHX 150404 FR3	P7 P7	P9 P9	S6 S6	XBHX 100404 FR7 P9 XBHX 150404 FR7 P9	
1000 1100	7002425681				_			
106,6 - 119,9	ZB021356N	2	XBHX 090404 FR3	P7	P9	\$6	XBHX 090404 FR7 P9	
		4	XBHX 150404 FR3	P7	P9	S6	XBHX 150404 FR7 P9	
120,0 - 126,5	ZB021657N	2	XBHX 090404 FR3	P7	P9	<b>S</b> 6	XBHX 090404 FR7 P9	
,,.		4	XBHX 150404 FR3	P7	P9	56	XBHX 150404 FR7 P9	
126,6 - 129,5	ZB021657N	6	XBHX 090404 FR3	P7	P9	<b>S</b> 6	XBHX 090404 FR7 P9	
.,		2	XBHX 150404 FR3	P7	P9	S6	XBHX 150404 FR7 P9	
129,6 - 145,5	ZB021657N	6	XBHX 100404 FR3	P7	P9	S6	XBHX 100404 FR7 P9	
		2	XBHX 150404 FR3	P7	P9	<b>S</b> 6	XBHX 150404 FR7 P9	
145,6 - 152,9	ZB021657N	8	XBHX 090404 FR3	P7	P9	<b>S6</b>	XBHX 090404 FR7 P9	
. 13,0 132,3	2552 1057 N	2	XBHX 150404 FR3	P7	P9	S6	XBHX 150404 FR7 P9	
153,0 - 160	ZB021657N	8	XBHX 100404 FR3	P7	P9	S6	XBHX 100404 FR7 P9	
		2	XBHX 150404 FR3	P7	P9	<b>S6</b>	XBHX 150404 FR7 P9	

