



**MicroKom<sup>®</sup> hi.flex**  
**FINISH BORING SYSTEM**



# MicroKom® hi.flex

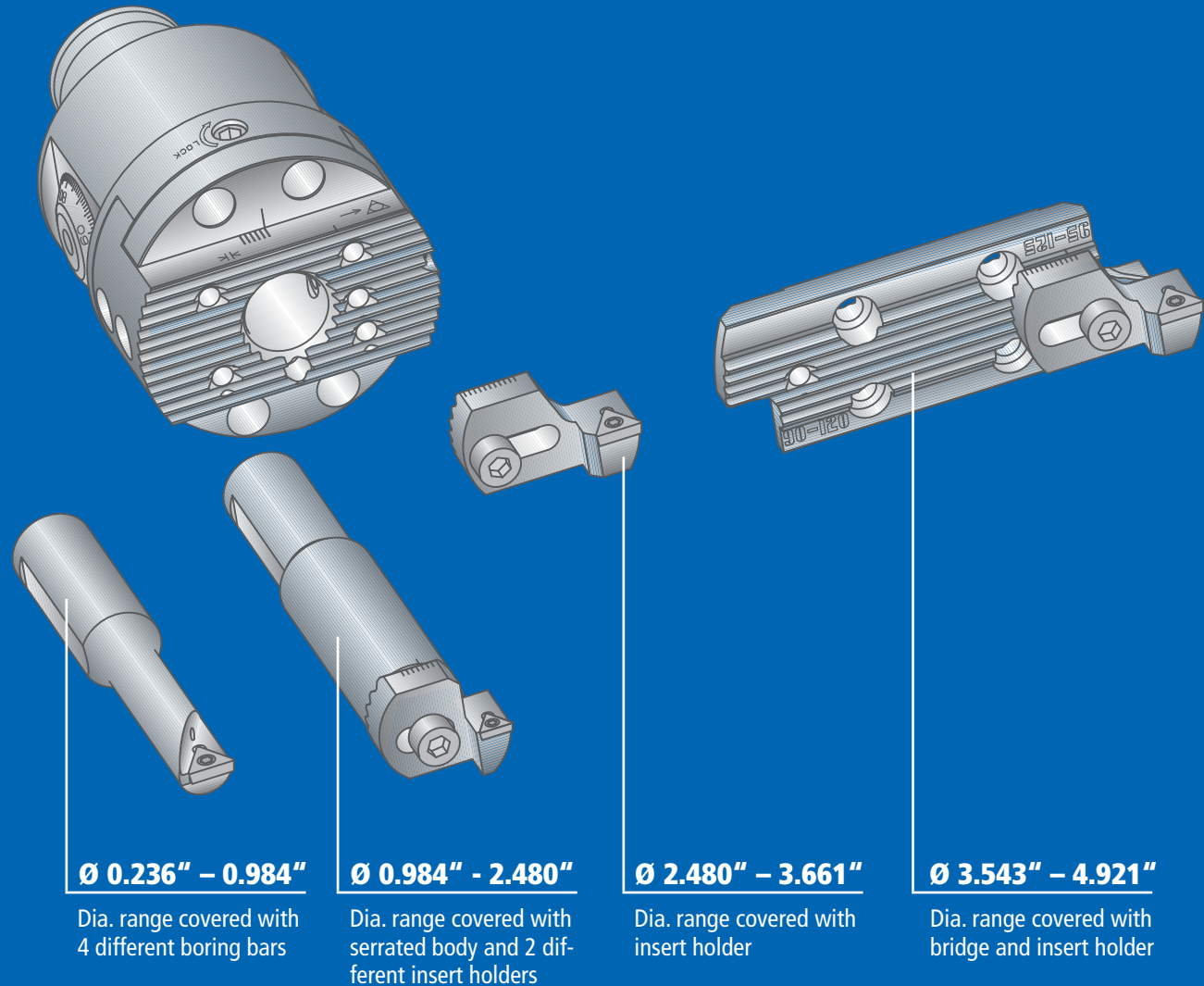
## Fine adjustment system for diameters 0.236" to 4.921"

KOMET Group extended its MicroKom® micro adjustable boring product line with the new M05 hi.flex system. The unique finish boring system is specially designed for high flexibility and covers the diameter ranges from 0.236" to 4.921" with just one adjustable boring head. The availability of various boring bars and the new intelligent adapter design contribute to this wide diameter range.

The adjustable head offers an adjustment accuracy of 0.0004" per graduation on an easy-to-read scale and 0.00008" from a vernier with a total adjustment path of up to 0.197". The system is balanced in zero position and provides an internal coolant supply directly on to the cutting edge throughout the entire cutting diameter range. The standard set includes four boring bars for diameters

0.236" to 0.984". According to the individual combination, a serrated body, a bridge and two different holders for inserts provide for cutting diameters up to 4.921".

The MicroKom® hi.flex is compatible with existing ABS® and cylindrical shank fine boring components. The set can be extended with standard boring tools and UniTurn® products, for which the turning range starts at 0.020". Variable overhang lengths and a single key for clamping, adjusting and mounting bridges and insert holders illustrate how easy the new system is to operate.





**Finish boring kit Ø 0.236" - 4.921"**  
**Order No. M05 00610**

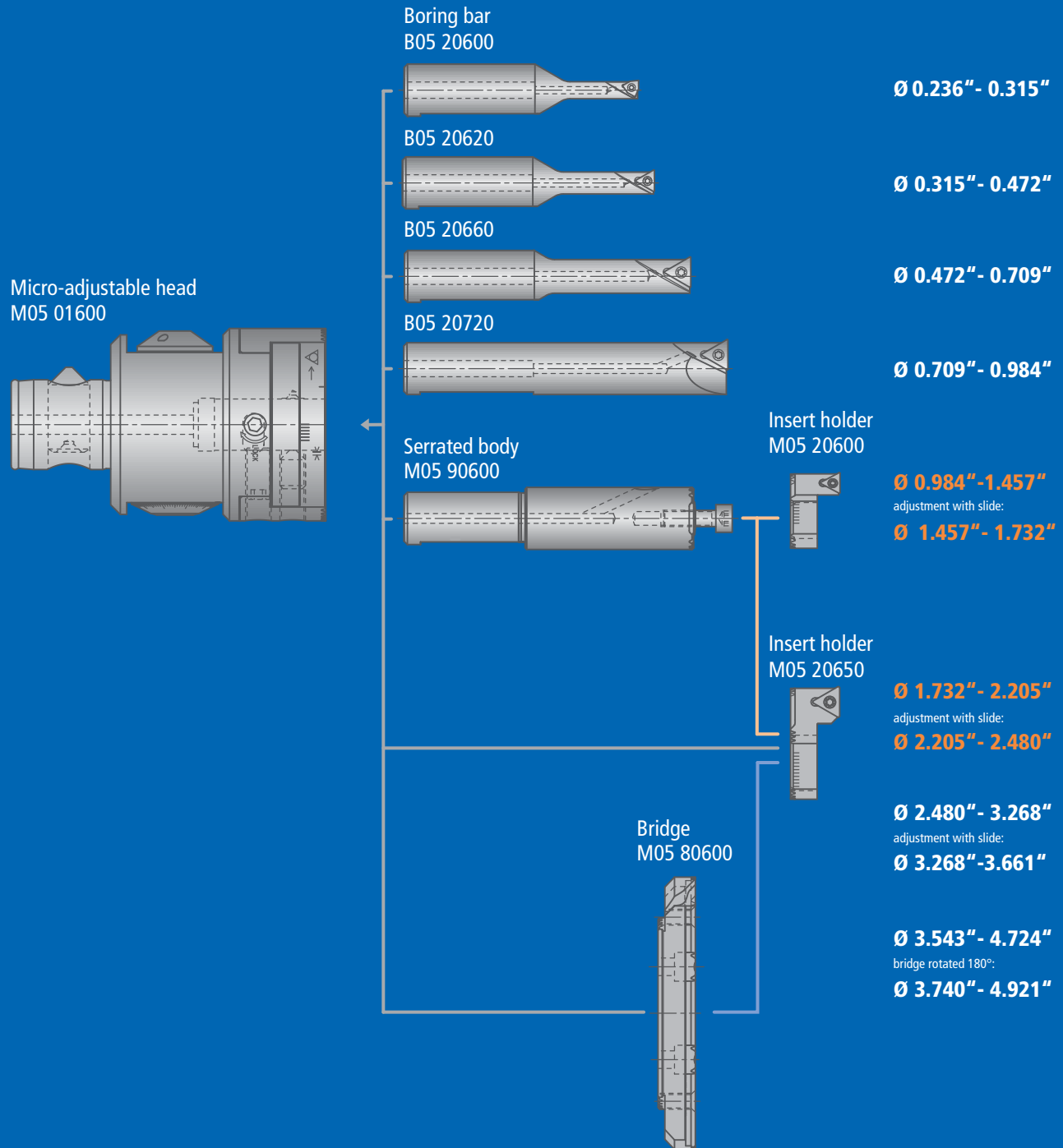
Contents of case			
	Order No.	Qty.	Description
①	M05 01600	1	Micro-adjustable head
②	M05 20600	1	Insert holder Ø 0.984" - 1.732"
③	M05 20650	1	Insert holder Ø 1.732" - 4.921"
④	M05 80600	1	Bridge
⑤	M05 90600	1	Serrated body
⑥	M05 90500.11	1	Packing piece
⑦	B05 20600	1	Boring bar Ø 0.236" - 0.315"
⑧	B05 20620	1	Boring bar Ø 0.315" - 0.472"
⑨	B05 20660	1	Boring bar Ø 0.472" - 0.709"
⑩	B05 20720	1	Boring bar Ø 0.709" - 0.984"
⑪	A5210150 or A5210350	1	ABS 50 CAT 50 or ABS50 CAT 40 Adapter
⑫	1805010040	1	Allen key SW4
⑬	L05 01110	1	Flag key 5IP
	L05 01120	1	Flag key 6IP
	L05 01240	1	Flag key 8IP
	5501105016	5	Cylindrical screw M5×16
⑭	W57 04140.0260	4	Insert BK60
	W57 14140.0460	4	Insert BK60
	W00 04120.0164	2	Insert BK64

# MicroKom® *hi.flex*

## Variable Options

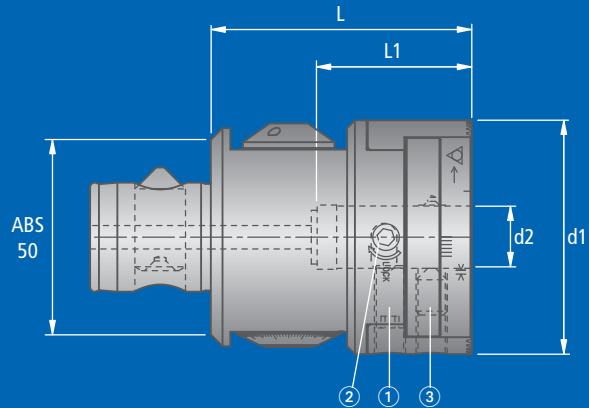
Only **9** tool components

covering diameters **0.236" – 4.921"**





**Micro-adjustable boring head with ABS® connection**  
with ABS® and cylindrical tool adapter



	Order No.	ABS d	d1	d2	Adjustment S	L	L1	lbs	Replacement Part		
									Clamping screw ① DIN913 Order No. Description	Clamping screw ② DIN913 Order No. Description	Gripper screw ③ Order No. Description
ABS50/16	<b>M05 01600</b>	<b>50</b>	2.362	<b>ABS32</b>	0.197	2.638	1.575	2.70	<b>5505108116</b> M8×1×16	<b>5505108008</b> M8×8	<b>N00 02061</b> ABS32-F1

**The micro-adjustable boring head is balanced in the zero position.**  
Adjustment must be in line with cutting parameters and spindle speed.

**Features :**

- Diameter range 0.020" - 4.921" with existing KOMET standard tools
- Large adjustment range from -0.020 to + 0.394" on dia.
- Easy to use
- Adjustment per graduation = Ø 0.0004"
- Adjustment accuracy Ø 0.00008" with vernier
- Easy-to-read scale
- Existing ABS32 tools can be used
- Internal coolant supply over entire range
- ABS32 spindle connection and 0.630" cylindrical shank
- Can be adapted for any machine tool with standard tool adapters
- Head diameter: 2.362"

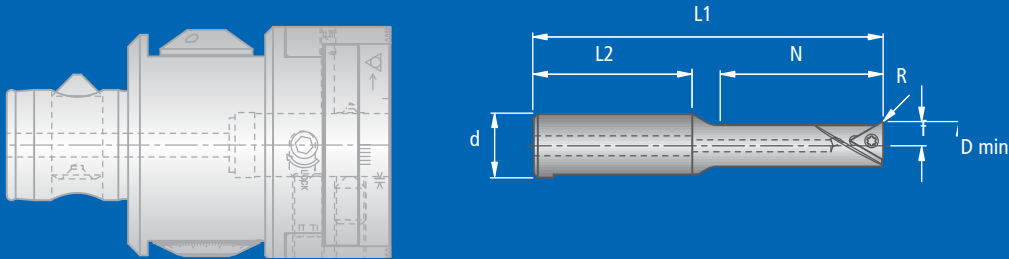
**Important: See page 10 for more application details and safety notes!**

# MicroKom® *hi.flex* Boring bar Ø 0.236" – 0.709"

L / D	Through hole	Blind hole	Slanted Surface	Cross Hole	Boring Backwards	HRC > 54 Through Hole	HRC > 54 Blind Hole	Vibration Dampening
<b>3.5xD</b>								

● highly recommended ● recommended ○ may be suitable ✗ not recommended

with cylindrical shank  
 $\alpha = 90^\circ$  R.H. cutting



D min	Order No.	d	L1	L2	N	f	lbs	Basic Recommendation		Replacement Part							
								Insert	for Workpiece Material	Clamping screw	TORX PLUS						
								W00 W03 W57	P M K N S H	Order No. Description	Order No. Description						
0.236	<b>B05 20600</b>	0.630	2.823	1.575	0.872	0.118	0.14	<b>W00 04120.0164</b>	WOHX02T001EL-G12 BK64	●	●					<b>N00 56011</b> S/M1.8x2.9-5IP 3.4 in-lbs	<b>L05 00800</b> 5IP
								<b>W00 04120.0121</b>	WOHX02T001FL-G12 K10			●	●				
0.315	<b>B05 20620</b>	0.630	3.047	1.575	1.102	0.157	0.15	<b>W57 04140.0260</b>	TOGX06T102EN-14 BK60	●	●					<b>N00 56021</b> S/M2x3.8-6IP 5.5 in-lbs	<b>L05 00810</b> 6IP
0.472	<b>B05 20660</b>	0.630	3.472	1.575	1.654	0.236	0.19	<b>W30 04990.0240</b>	TOGX06T102TN CBN40			●	●				
								<b>W30 04060.036110</b>	TOHX06T103EL-G06 BK6110					○	○		
0.709	<b>B05 20720</b>	0.630	3.937	1.575	2.362	0.354	0.31	<b>W57 14140.0460</b>	TOGX090204EN-14 BK60	●	●					<b>N00 56101</b> S/M2.6x5.2-8IP 11.3 in-lbs	<b>L05 00830</b> 8IP
								<b>W57 14120.0423</b>	TOGX090204FN-12 K10			●	●				
								<b>W30 14990.0440</b>	TOGX090204TN CBN40					●	●		
								<b>W30 14060.046110</b>	TOHX090204EL-G06 BK6110								

## Delivery:

Boring bar with clamping screw. Please order inserts and accessories separately.

# Cutting Recommendations

Guideline for finish boring with **MicroKom® hi.flex** Fine boring system

Material group	Tensile Strength (lbf/in <sup>2</sup> )	Hardness HB	Material	Material example AISI / SAE	Cutting speed $v_c$ ft/min	Maximum Feedrate $f$ , in/rev		
						$\emptyset$ 0.236 - 0.311	$\emptyset$ 0.315 - 0.469	$\emptyset$ 0.472 - 0.984
1.0	≤72500		Unalloyed steel	A570.36	980	.002	.003	.004
				1213				
				A573.81				
2.0	72500 - 130000		Low alloy steel	5120	820	.002	.002	.005
				1055				
				5115				
2.1	<72500	P	Lead alloy	12L13	980	.002	.003	.005
3.0	>130000		High alloy steel heat resistant structural, heat treated, nitride steels	4140	790	.001	.002	.004
				1064				
4.0	>130000		Tool steel	H13 H21	660	.001	.002	.004
4.1			HSS		390	.001	.002	.003
5.0			Special alloy: Inconel, Hastelloy, Nimonic, etc.	Inconel® 718	110	.000	.002	.003
				Nimonic® 80A				
5.1	58000	S	Titanium, Titanium alloy	AMS R54520	100	.000	.002	.003
6.0	≈87000		Stainless steel: austenitic 300 series	304L 316	660	.000	.002	.004
6.1	<130000	M	Stainless steel	630	590	.000	.002	.004
7.0	>130000		Stainless steel: martensitic/ferritic 400 series	420 403	390	.000	.002	.003
8.0			Grey cast iron	No 35 B No 50 B	790	.002	.004	.006
8.1			Alloy grey cast iron	A436 Type 2	660	.002	.004	.006
9.0	≤87000		Nodular cast iron ferritic	60-40-18	590	.002	.003	.006
9.1		K	Nodular cast iron ferritic / pearlitic	80-55-06	590	.002	.003	.006
10.0	87000		Nodular cast iron pearlitic	100-70-03	520	.002	.003	.006
10.1			Malleable cast iron	70003	460	.001	.003	.005
10.2			Alloyed nodular cast iron	A43D2	460	.001	.003	.005
10.2			Vermicular cast iron		390	.001	.004	.006
12.0			Copper alloy, brass, Lead alloy, Bronze, Lead bronze: good cut	UNS C36000	1310	.001	.002	.003
12.1			Copper alloy, Brass, Bronze: average cut		980	.002	.003	.006
13.0		N	Wrought aluminum alloy		1640	.001	.002	.004
13.1			Aluminum alloy: Si content <10%	GD-AISI12	1150	.002	.003	.005
13.1			Magnesium alloy		980	.002	.003	.005
14.0			Aluminum alloy: Si content >10%	A360.2	980	.002	.003	.005
15.0	203000		Hardened steel < 45 HRC		390	I	.002	.003
16.0	261000	H	Hardened steel > 45 HRC		300	I	.002	.003

Please see page 10 for more application details and safety notes!

Alternative Insert



For better chip control			for Workpiece Material							
D	Insert		Order No. size	ISO Insert Description	P	M	K	N	S	H
0.236-0.311			-							
0.315-0.469			<b>W30 04120.3232</b> <b>W30 04120.3977</b>	TOHX06T102EL-US12 CK32 TOHX06T1ZZEL-39G12 BK77						
0.472-0.984			<b>W30 14120.3232</b> <b>W30 14120.3977</b>	TOHX090202EL-US12 CK32 TOHX0902ZZEL-39G12 BK77						

For better wear resistance			for Workpiece Material							
D	Insert		Order No. size	ISO Insert Description	P	M	K	N	S	H
0.236-0.311			-							
0.315-0.469			<b>W57 04140.0232</b> <b>W30 04120.0238</b> <b>W30 04990.0255</b> <b>W30 04990.0257</b>	TOGX06T102EN-14 CK32 TOGX06T102EL-G12 CK38 TOGX06T102FN PCD55 TOGX06T102FN CBN57						
0.472-0.984			<b>W57 14140.0432</b> <b>W30 14120.0238</b> <b>W30 14990.0455</b> <b>W30 14990.0457</b>	TOGX090204EN-14 CK32 TOGX090202EL-G12 CK38 TOGX090204FN PCD55 TOGX090204FN CBN57						

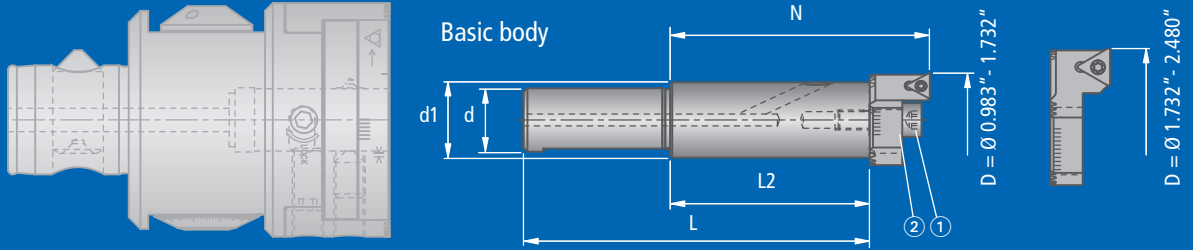
For better surface finish			for Workpiece Material							
D	Insert		Order No. size	ISO Insert Description	P	M	K	N	S	H
0.236-0.311			-							
0.315-0.469			<b>W57 04140.0232</b> <b>W30 04060.036110</b> <b>W30 04200.0321</b> <b>W30 04990.0255</b>	TOGX06T102EN-14 CK32 TOGX06T103EL-G06 BK6110 TOGX06T103FL-G20 K10 TOGX06T102FN PCD55						
0.472-0.984			<b>W57 14140.0432</b> <b>W30 14060.046110</b> <b>W30 14200.0421</b> <b>W30 14990.0455</b>	TOGX090204EN-14 CK32 TOGX090204EL-G06 BK6110 TOGX090204FL-G20 K10 TOGX090204FN PCD55						

# MicroKom® *hi.flex* Basic body / Insert holder Ø 0.984" – 3.661"

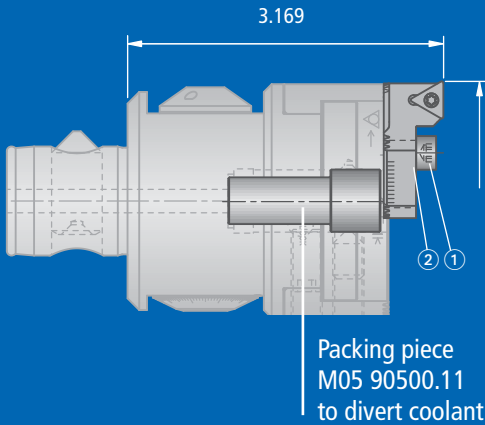
L / D	Through hole	Blind hole	Slanted Surface	Cross Hole	Boring Backwards	HRC > 54 Through Hole	HRC > 54 Blind Hole	Vibration Dampening
< 2.5xD								
	●	●	○	○	✗	●	●	✗

● highly recommended ● recommended ○ may be suitable ✗ not recommended

## Ø 0.984" – 2.480"



## Ø 2.480" – 3.661"



Basic body							Replacement parts	
							Location screw ① 	Cup spring ② 
Order No.	d	d1	N	L	L1		Order No. Description	Order No. Description
M05 90600	0.630	0.748	2.559	3.484	2.028	0.36	5501105016 M5×16 ISO4762	5677110053 A12.5Ø6.2×0.35

**Delivery:** Serrated body complete with location screw and cup spring.

Insert Holder			Basic Recommendation				Replacement Part	
D	Order No.		Insert Order No. Size	ISO Insert Description	for Workpiece Material P M K N S H		Clamping screw 	TORX PLUS 
							Order No. Description	Order No. Description
0.983 - 1.732	M05 20600	0.042	W57 04140.0260 W30 04060.0361 W57 04120.0223	TOGX06T102EN-14 BK60 TOHX06T103EL-G06 BK61 TOGX06T102FN-12 K10	● ● ● ● ● ●		N00 56031 S/M2×4.9-6IP 5.5 in-lbs	L05 00810 6IP
1.732 - 3.661	M05 20650	0.057	W57 14140.0460 W30 14060.0461 W57 14120.0423	TOGX090204EN-14 BK60 TOHX090204EL-G06 BK61 TOGX090204FN-12 K10	● ● ● ● ● ●		N00 56111 S/M2.6×6.2-8IP 11.3 in-lbs	L05 00830 8IP

**Delivery:** Insert holder complete with clamping screw.  
Please order inserts and Torx Plus screw driver separately.



# Cutting Recommendations

Guideline for finish boring with  
MicroKom® hi.flex Fine boring system

Material group	Tensile Strength (lbf/in <sup>2</sup> )	Hardness HB	Material	Material example AISI / SAE	Cutting speed $v_c$ ft/min	Maximum Feedrate $f$ , in/rev																				
						Ø 0.984 - 1.732	Ø 1.732 - 3.661																			
1.0	≤72500		Unalloyed steel	A570.36 1213 A573.81	980	.003	.004																			
				2.0				72500 - 130000	Low alloy steel	5120 1055 5115	820	.003	.005													
										2.1				P	<72500	Lead alloy	12L13	980	.004	.006						
																	3.0				>130000	High alloy steel heat resistant structural, heat treated, nitride steels	4140 1064	790	.003	.004
																							4.0			
4.1		HSS		390	.002	.003																				
			5.0					250	Special alloy: Inconel, Hastelloy, Nimonic, etc.	Inconel® 718 Nimonic® 80A	160	.002	.003													
5.1	S	58000		Titanium, Titanium alloy	AMS R54520	100				.002				.003												
			6.0				87000	Stainless steel: austenitic 300 series	304L 316		660	.003	.004													
6.1	M	<130000		Stainless steel		630			590	.002				.004												
			7.0			>130000	Stainless steel: martensitic/ferritic 400 series	420 403			390	.002	.004													
8.0		180		Grey cast iron				No 35 B No 50 B	790	.006				.008												
			8.1			250	Alloy grey cast iron	A436 Type 2			660	.006	.008													
9.0		≤87000		Nodular cast iron ferritic				60-40-18	590	.004				.006												
			9.1		K	230	Nodular cast iron ferritic / pearlitic	80-55-06			590	.004	.006													
10.0		87000		Nodular cast iron pearlitic Malleable cast iron				100-70-03 70003	520	.004				.006												
			10.1			200	Alloyed nodular cast iron	A43D2			460	.004	.006													
10.2		300		Vermicular cast iron					390	.004				.006												
			12.0			90	Copper alloy, brass, Lead alloy, Bronze, Lead bronze: good cut	UNS C36000			980	.004	.006													
12.1		100		Copper alloy, Brass, Bronze: average cut					890	.004				.006												
			13.0			60	Wrought aluminum alloy				1640	.003	.005													
13.1		75		Aluminum alloy: Si content <10%				GD-AISI12	1150	.004				.006												
			14.0			100	Magnesium alloy				820	.004	.006													
15.0		203000		Hardened steel < 45 HRC					390	.003				.003												
			16.0		H	261000	Hardened steel > 45 HRC	A360.2			300	.002	.003													

Please see page 10 for more application details and safety notes!

Alternative Insert

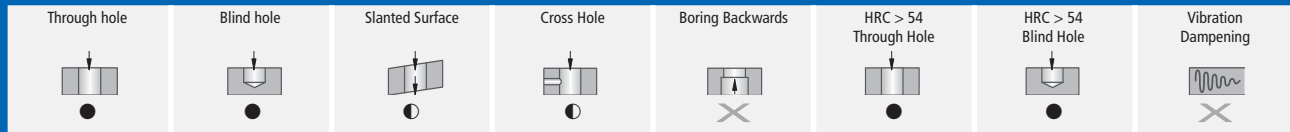


For better chip control			for Workpiece Material							
D	Insert		Order No. size	ISO Insert Description	P	M	K	N	S	H
	W30	W57								
0.984 - 1.732			W30 04120.3232 W30 04120.3060 W57 04120.0223	TOHX06T102EL-US12 CK32 TOHX06T100EL-G12 BK60 TOGX06T102FN-12 K10						
	1.732 - 3.661				W30 14120.3232 W30 14120.3060 W57 14120.0423	TOHX090202EL-US12 CK32 TOHX090200EL-G12 BK60 TOGX090204FN-12 K10				

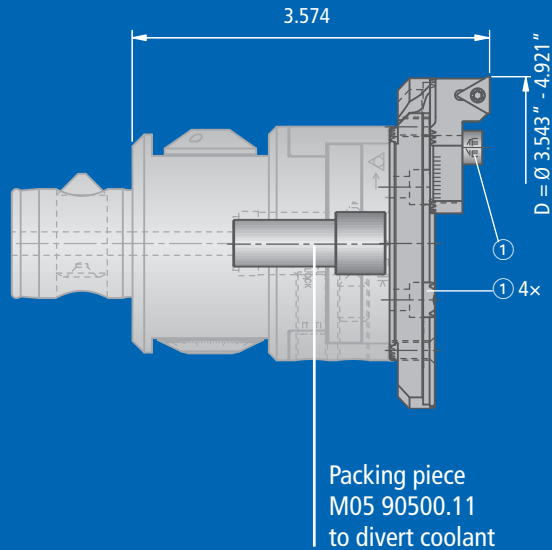
For better wear resistance			for Workpiece Material							
D	Insert		Order No. size	ISO Insert Description	P	M	K	N	S	H
	W57	W30								
0.984 - 1.732			W57 04140.0232 W30 04990.0355 W30 04990.0357	TOGX06T102EN-14 CK32 TOGX06T103FN PCD55 TOGX06T103TN CBN57						
	1.732 - 3.661				W30 14120.3232 W30 14120.3060 W57 14120.0423	TOHX090202EL-US12 CK32 TOHX090200EL-G12 BK60 TOGX090204FN-12 K10				

For better surface finish			for Workpiece Material							
D	Insert		Order No. size	ISO Insert Description	P	M	K	N	S	H
	W57	W30								
0.984 - 1.732			W30 04120.3160 W30 04990.0355 W30 04990.0357 W30 04990.0240	TOHX06T102EL-UF12 BK60 TOGX06T103FN PCD55 TOGX06T103TN CBN57 TOGX06T103TN CBN40						
	1.732 - 3.661				W30 14120.3160 W30 14120.3060 W57 14120.0423 W30 14990.0440	TOHX090202EL-UF12 BK60 TOHX090200EL-G12 BK60 TOGX090204FN-12 K10 TOGX090204TN CBN40				

# MicroKom® *hi.flex* Bridge / Insert holder Ø 3.543" – 4.921"



● highly recommended ● recommended ○ may be suitable ✗ not recommended



D	Bridge		Insert holder	Basic Recommendation			Replacement Part	
	Order No.	Order No. Description		Order No.	Insert Size	ISO Insert Description	for Workpiece Material	Clamping screw
3.543 - 4.921	<b>M05 80600</b> 0.32	<b>5501105016</b> M5x16 ISO4762	M05 20150 0.06	<b>W57 14140.0460</b>	TOGX090204EN-14 BK60			
			<b>W30 14060.0461</b>	TOHX090204EL-G06 BK61	<b>N00 56111</b> S/M2.6x6.2-8IP 11.3 in-lbs		<b>L05 00830</b> 8IP	
			<b>W57 14120.0423</b>	TOGX090204FN-12 K10				

**Delivery:** Bridge with location screw.  
Insert holder with clamping screw.  
Please order inserts and Torx Plus screw driver separately.

The technical notes provided in the **application details** depend on the environmental and application conditions (such as machine, environmental temperature, lubrication/coolant used and desired machining results): these are based on proper application conditions, use and compliance with the spindle speed limits given for the tools.

# Cutting Recommendations

Guideline for finish boring with  
MicroKom® hi.flex Fine boring system

Material group	Tensile Strength (lbf/in <sup>2</sup> )	Hardness HB	Material	Material example AISI / SAE	Cutting speed v <sub>c</sub> ft/min	Maximum Feedrate f, in/rev
1.0	≤72500		Unalloyed steel	A570.36 1213 A573.81	980	.004
2.0	72500 - 130000		Low alloy steel	5120 1055 5115	820	.005
2.1	<72500		Lead alloy	12L13	980	.006
3.0	>130000		High alloy steel heat resistant structural, heat treated, nitride steels	4140 1064	790	.004
4.0	>130000		Tool steel	H13 H21	660	.004
4.1			HSS		390	.003
5.0		250	Special alloy: Inconel, Hastelloy, Nimonic, etc.	Inconel® 718 Nimonic® 80A	160	.003
5.1	58000		Titanium, Titanium alloy	AMS R54520	100	.003
6.0	≤87000		Stainless steel: austenitic 300 series	304L 316	660	.004
6.1	<130000		Stainless steel	630	590	.004
7.0	>130000		Stainless steel: martensitic/ferritic 400 series	420 403	390	.004
8.0		180	Grey cast iron	No 35 B No 50 B	790	.008
8.1		250	Alloy grey cast iron	A436 Type 2	660	.008
9.0	≤87000	130	Nodular cast iron ferritic	60-40-18	590	.006
9.1		230	Nodular cast iron ferritic / pearlitic	80-55-06	590	.006
10.0	87000	250	Nodular cast iron pearlitic	100-70-03	520	.006
10.1		200	Malleable cast iron	70003	460	.006
10.2		300	Alloyed nodular cast iron	A43D2	460	.006
10.2		300	Vermicular cast iron		390	.006
12.0		90	Copper alloy, brass, Lead alloy, Bronze, Lead bronze: good cut	UNS C36000	980	.006
12.1		100	Copper alloy, Brass, Bronze: average cut		890	.006
13.0		60	Wrought aluminum alloy		1640	.005
13.1		75	Aluminum alloy: Si content <10%	GD-AISI12	980	.006
13.1			Magnesium alloy		980	.006
14.0		100	Aluminum alloy: Si content >10%	A360.2	820	.006
15.0	203000		Hardened steel < 45 HRC		390	.003
16.0	261000		Hardened steel > 45 HRC		300	.003

Please see page 10 for more application details and safety notes!

Alternative Insert



For better chip control			for Workpiece Material							
D	Insert		Order No. size	ISO Insert Description	P	M	K	N	S	H
	W30                      W57									
3.543 - 4.921	W30 14120.3232	TOHX090202EL-US12 CK32			●	●				
	W30 14120.3060	TOHX090200EL-G12 BK60			●	●				
	W57 14120.0423	TOGX090204FN-12 K10					●	●		

For better wear resistance			for Workpiece Material							
D	Insert		Order No. size	ISO Insert Description	P	M	K	N	S	H
	W57                      W30                      W30 PCD CBN									
3.543 - 4.921	W30 14120.3232	TOHX090202EL-US12 CK32			●	●				
	W30 14120.3060	TOHX090200EL-G12 BK60			●	●				
	W57 14120.0423	TOGX090204FN-12 K10					●	●		

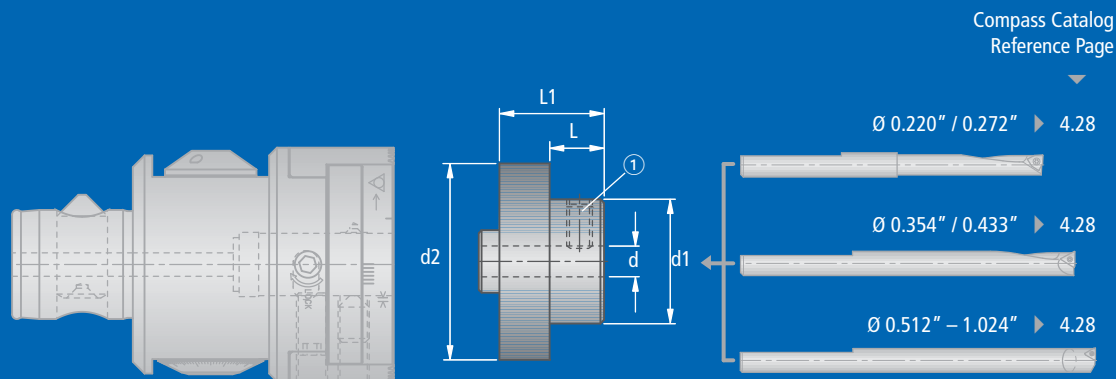
For better surface finish			for Workpiece Material							
D	Insert		Order No. size	ISO Insert Description	P	M	K	N	S	H
	W57                      W30                      W30 PCD CBN									
3.543 - 4.921	W30 14120.3160	TOHX090202EL-UF12 BK60			●	●				
	W30 14120.3060	TOHX090200EL-G12 BK60			●	●				
	W57 14120.0423	TOGX090204FN-12 K10					●	●		
	W30 14990.0440	TOGX090204TN CBN40							●	

# MicroKom® *hi.flex* Optional Equipment

## Boring Bar Adapter

### Adapter

with cylindrical tool location  
for clamping vibration dampened fine boring bars

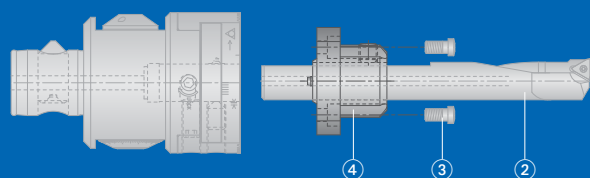


Compass Catalog  
Reference Page

Order No.	d	d1	d2	L	L1	lbs	Assembly parts	
							Description	Order No.
M05 90200	0.236	1.220	–	0.630	–	0.25	M8×10	<b>55051 08010</b>
M05 90210	0.315	1.220	–	0.630	–	0.26	M8×10	<b>55051 08010</b>
M05 90220	0.394	1.220	1.811	0.590	0.984	0.34	M8×10	<b>55051 08010</b>
M05 90230	0.472	1.220	1.811	0.590	0.984	0.32	M8×10	<b>55051 08010</b>
M05 90240	0.630	1.220	1.811	0.787	1.181	0.32	M8×8	<b>55051 08008</b>

**Supplies include:** Adapter complete.

### Instruction for adapter M05 90240



### Please note:

Before tightening the holding screw (3), center the adapter (4) with shank  $\varnothing$  for the boring bar (2) on the micro-adjustable head.



**Mounting bridge**  
for O.D. machining  $\varnothing$  0.197" – 2.756"



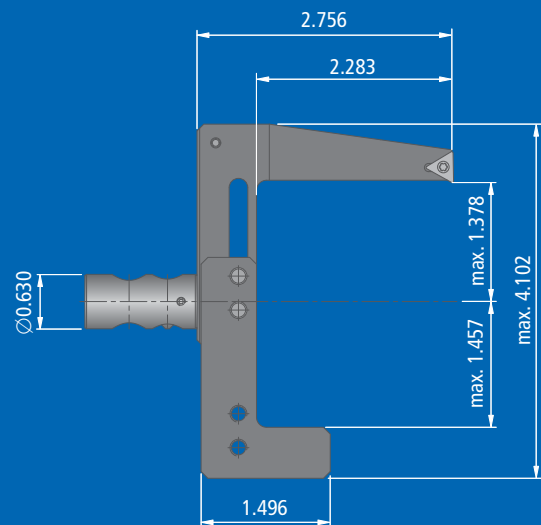
**Setting the diameter**

- Position the mounting bridge on the micro-adjustable head.
  - Set the coarse position on the upper scale, tighten screw ①.
- Important note: check position of screw ① for required  $\varnothing$  range!**

$\varnothing$  0.197" – 1.338"     $\varnothing$  1.299" – 1.732"     $\varnothing$  1.693" – 2.756"



- Align the front scale for the mounting bridge with the positioning mark on the adjustable head, tighten the pull stud ②.
- Carry out fine adjustment on the setting device using the scale on the micro-adjustable head.



D	Order No.	lbs	Basic Recommendation		Replacement Parts			
			Insert	for Workpiece Material	Clamping screw	TORX PLUS	Cylindrical screw ①	
			Order No. size	ISO Insert Description	P M K N S H	Order No. Description	Order No. Description	Order No. Description
0.197" – 2.756"	M05 90300	0.014	W30	TOGX090204EN-14 BK60 TOHX090204EL-G06 BK61 TOGX090204FN-12 K10	● ● ● ● ● ●	N00 56111 S/M2.6x6.2-8IP 11.3 in-lbs	L05 00830 8IP	55011 05030 M5x30

**Supplies include:** Mounting bridge with assembly parts.  
Please order inserts and accessories separately.

# Notes





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