



MicroKom[®] hi.flex
FINISH BORING SYSTEM



MicroKom® hi.flex

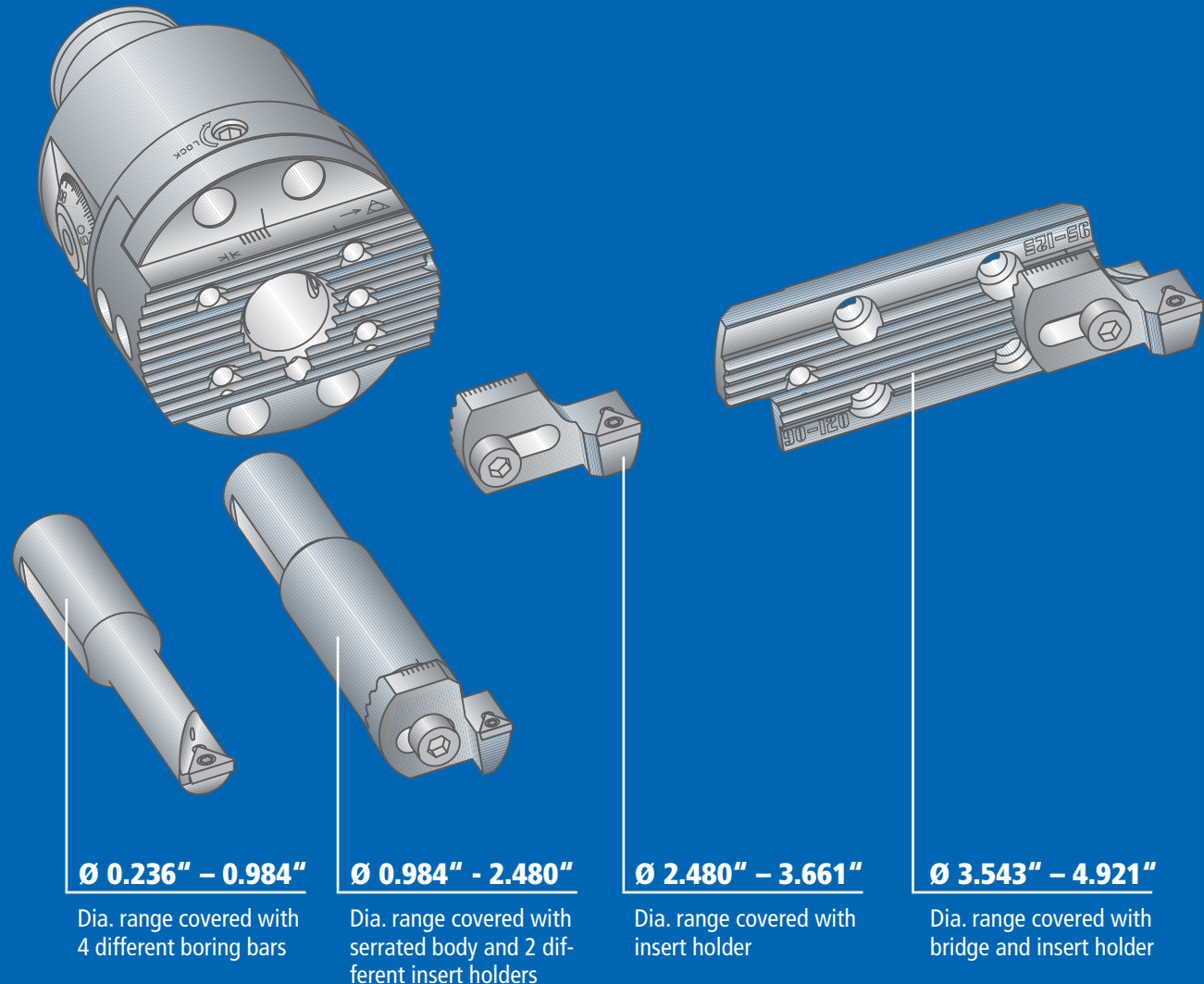
Fine adjustment system for diameters 0.236" to 4.921"

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

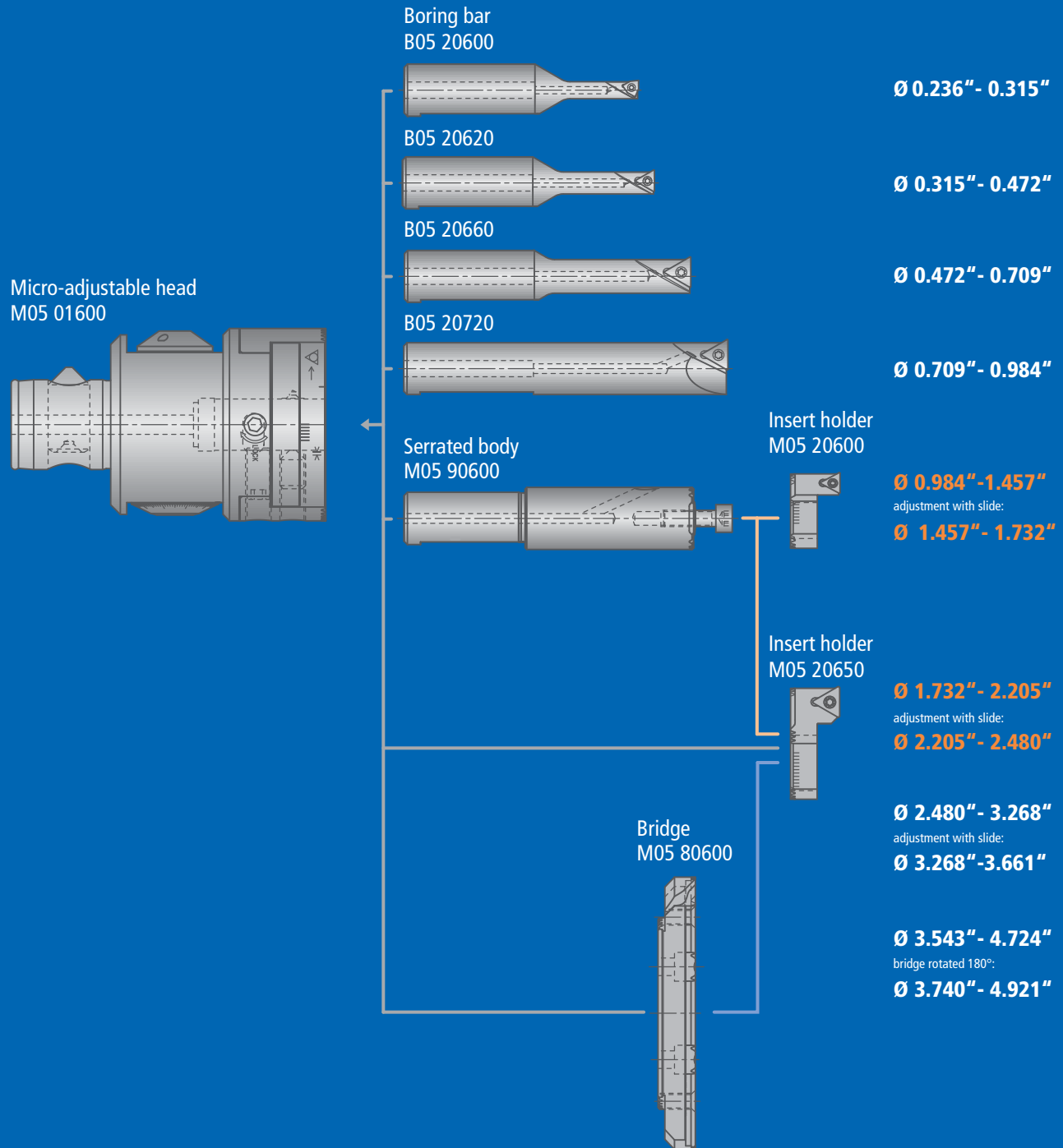
Contents of case			
	Order No.	Qty.	Description
①	M05 01600	1	Micro-adjustable head
②	M05 20600	1	Insert holder Ø 0.984" - 1.732"
③	M05 20650	1	Insert holder Ø 1.732" - 4.921"
④	M05 80600	1	Bridge
⑤	M05 90600	1	Serrated body
⑥	M05 90500.11	1	Packing piece
⑦	B05 20600	1	Boring bar Ø 0.236" - 0.315"
⑧	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

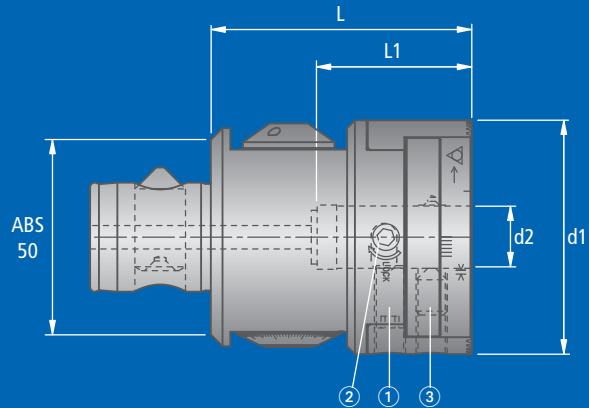
Only **9** tool components

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	M05 01600	50	2.362	ABS32	0.197	2.638	1.575	2.70	5505108116 M8×1×16	5505108008 M8×8	N00 02061 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 :

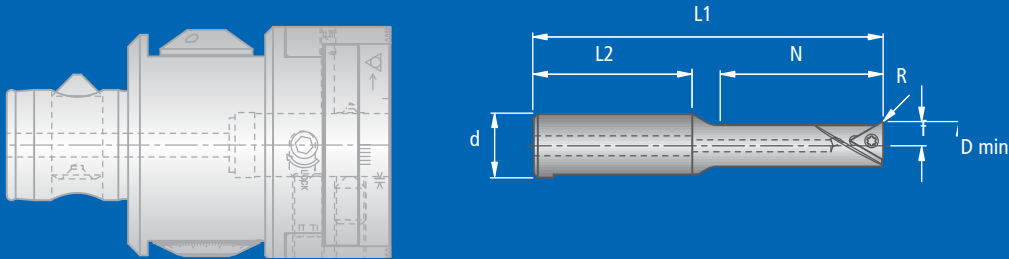
- Diameter range 0.020" - 4.921" with existing KOMET standard tools
- Large adjustment range from -0.020 to + 0.394" on dia.
- Easy to use
- Adjustment per graduation = Ø 0.0004"
- Adjustment accuracy Ø 0.00008" with vernier
- Easy-to-read scale
- Existing ABS32 tools can be used
- Internal coolant supply 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"

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
3.5xD								

● 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	B05 20600	0.630	2.823	1.575	0.872	0.118	0.14	W00 04120.0164	WOHX02T001EL-G12 BK64	●	●					N00 56011 S/M1.8x2.9-5IP 3.4 in-lbs	L05 00800 5IP
								W00 04120.0121	WOHX02T001FL-G12 K10			●	●				
0.315	B05 20620	0.630	3.047	1.575	1.102	0.157	0.15	W57 04140.0260	TOGX06T102EN-14 BK60	●	●					N00 56021 S/M2x3.8-6IP 5.5 in-lbs	L05 00810 6IP
0.472	B05 20660	0.630	3.472	1.575	1.654	0.236	0.19	W57 04120.0223	TOGX06T102FN-12 K10			●	●				
								W30 04990.0240	TOGX06T102TN CBN40					○			
								W30 04060.036110	TOHX06T103EL-G06 BK6110					○	<52 HRC		
0.709	B05 20720	0.630	3.937	1.575	2.362	0.354	0.31	W57 14140.0460	TOGX090204EN-14 BK60	●	●					N00 56101 S/M2.6x5.2-8IP 11.3 in-lbs	L05 00830 8IP
								W57 14120.0423	TOGX090204FN-12 K10			●	●				
								W30 14990.0440	TOGX090204TN CBN40					○			
								W30 14060.046110	TOHX090204EL-G06 BK6110					○	<52 HRC		

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 ²)	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		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	660	.001	.002	.004
				H21				
4.1			HSS		390	.001	.002	.003
5.0		250	Special alloy: Inconel, Hastelloy, Nimonic, etc.	Inconel® 718	110	.000	.002	.003
				Nimonic® 80A				
5.1	58000		Titanium, Titanium alloy	AMS R54520	100	.000	.002	.003
6.0	≈87000		Stainless steel: austenitic 300 series	304L	660	.000	.002	.004
				316				
6.1	<130000		Stainless steel	630	590	.000	.002	.004
7.0	>130000		Stainless steel: martensitic/ferritic 400 series	420	390	.000	.002	.003
				403				
8.0		180	Grey cast iron	No 35 B	790	.002	.004	.006
				No 50 B				
8.1		250	Alloy grey cast iron	A436 Type 2	660	.002	.004	.006
9.0	≤87000	130	Nodular cast iron ferritic	60-40-18	590	.002	.003	.006
9.1		230	Nodular cast iron ferritic / pearlitic	80-55-06	590	.002	.003	.006
10.0	87000	250	Nodular cast iron pearlitic	100-70-03	520	.002	.003	.006
10.1		200	Malleable cast iron	70003	460	.001	.003	.005
10.2		300	Alloyed nodular cast iron	A43D2	460	.001	.003	.005
12.0		90	Vermicular cast iron		390	.001	.004	.006
12.1		100	Copper alloy, brass, Lead alloy, Bronze, Lead bronze: good cut	UNS C36000	1310	.001	.002	.003
12.2		100	Copper alloy, Brass, Bronze: average cut		980	.002	.003	.006
13.0		60	Wrought aluminum alloy		1640	.001	.002	.004
13.1		75	Aluminum alloy: Si content <10%	GD-AISI12	1150	.002	.003	.005
13.2		100	Magnesium alloy		980	.002	.003	.005
14.0		100	Aluminum alloy: Si content >10%	A360.2	980	.002	.003	.005
15.0	203000		Hardened steel < 45 HRC		390	.002	.003	.003
16.0	261000		Hardened steel > 45 HRC		300	.002	.003	.003

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

Alternative Insert



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

For better wear resistance			for Workpiece Material					
D	Insert		P	M	K	N	S	H
	Order No. size	ISO Insert Description						
0.236-0.311	-							
0.315-0.469	W57 04140.0232	TOGX06T102EN-14 CK32	●	●				
	W30 04120.0238	TOGX06T102EL-G12 CK38	●	●				
	W30 04990.0255	TOGX06T102FN PCD55						●
	W30 04990.0257	TOGX06T102FN CBN57						● only GG25
0.472-0.984	W57 14140.0432	TOGX090204EN-14 CK32	●	●				
	W30 14120.0238	TOGX090202EL-G12 CK38	●	●				
	W30 14990.0455	TOGX090204FN PCD55						●
	W30 14990.0457	TOGX090204FN CBN57						● only GG25

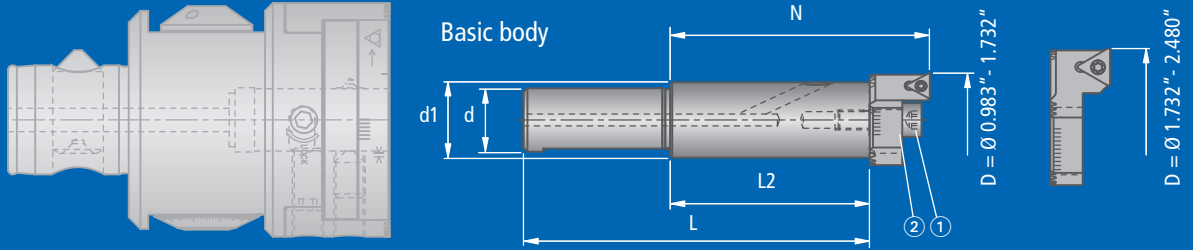
For better surface finish			for Workpiece Material					
D	Insert		P	M	K	N	S	H
	Order No. size	ISO Insert Description						
0.236-0.311	-							
0.315-0.469	W57 04140.0232	TOGX06T102EN-14 CK32	●	●				
	W30 04060.036110	TOGX06T103EL-G06 BK6110						●
	W30 04200.0321	TOGX06T103FL-G20 K10						●
	W30 04990.0255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

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

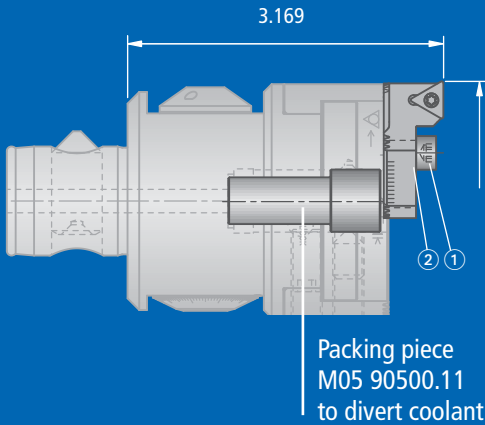
L / D	Through hole	Blind hole	Slanted Surface	Cross Hole	Boring Backwards	HRC > 54 Through Hole	HRC > 54 Blind Hole	Vibration Dampening
< 2.5xD								
	●	●	○	○	✗	●	●	✗

● 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			for Workpiece Material		Clamping screw	TORX PLUS
			 Order No. Size				 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 ²)	Hardness HB	Material	Material example AISI / SAE	Cutting speed v_c ft/min	Maximum Feedrate f , in/rev																				
						\varnothing 0.984 - 1.732	\varnothing 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			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	100-70-03	520	.004	.006																			
				10.1					200	Malleable cast iron	70003	460	.004	.006												
10.2			Alloyed nodular cast iron	A43D2	390	.004	.006																			
				10.2					300	Vermicular cast iron		390	.004	.006												
12.0			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			Wrought aluminum alloy		1640	.003	.005																			
				13.1					75	Aluminum alloy: Si content <10%	GD-AISI12	1150	.004	.006												
14.0			Magnesium alloy		820	.004	.006																			
				14.0					100	Aluminum alloy: Si content >10%	A360.2	390	.003	.003												
15.0	203000		Hardened steel < 45 HRC		390	.003	.003																			
				16.0				H	261000	Hardened steel > 45 HRC		300	.002	.003												

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

Alternative Insert

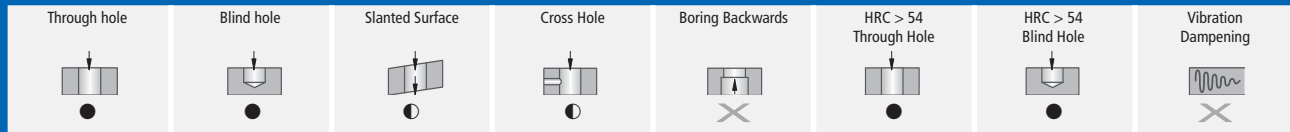


For better chip control			for Workpiece Material							
D	Insert		Order No. size	ISO Insert Description	P	M	K	N	S	H
	W30	W57								
0.984 - 1.732			W30 04120.3232 W30 04120.3060 W57 04120.0223	TOHX06T102EL-US12 CK32 TOHX06T100EL-G12 BK60 TOGX06T102FN-12 K10						
					1.732 - 3.661	W30 14120.3232 W30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

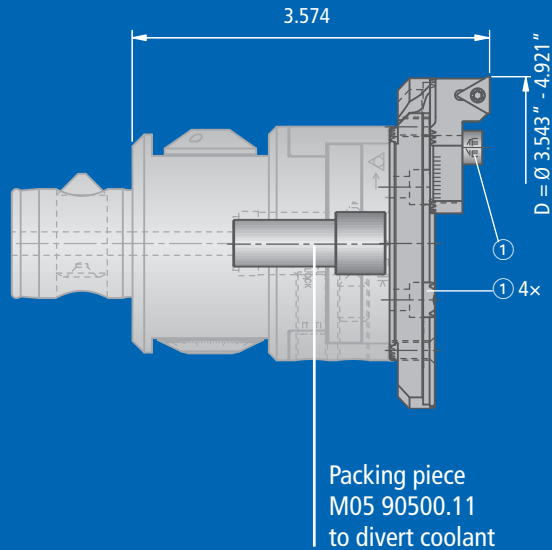
For better wear resistance			for Workpiece Material							
D	Insert		Order No. size	ISO Insert Description	P	M	K	N	S	H
	W57	W30								
0.984 - 1.732			W57 04140.0232 W30 04990.0355 W30 04990.0357	TOGX06T102EN-14 CK32 TOGX06T103FN PCD55 TOGX06T103TN CBN57						
					1.732 - 3.661	W30 14120.3232 W30 14120.3060 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. Size	Insert ISO Insert Description	for Workpiece Material	Order No. Description	Order No. Description
3.543 - 4.921	M05 80600 0.32	5501105016 M5x16 ISO4762	M05 20150 0.06	W57 14140.0460 W30 14060.0461 W57 14120.0423	TOGX090204EN-14 BK60 TOHX090204EL-G06 BK61 TOGX090204FN-12 K10	P M K N S H	N00 56111 S/M2.6x6.2-8IP 11.3 in-lbs	L05 00830 8IP

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 ²)	Hardness HB	Material	Material example AISI / SAE	Cutting speed v _c 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		100	Magnesium alloy		820	.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

Alternative Insert



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

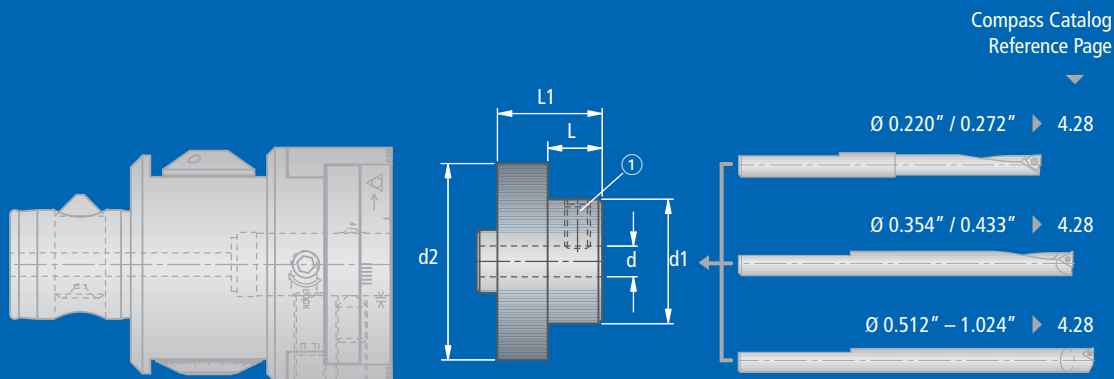
For better surface finish			for Workpiece Material					
D	Order No. size	ISO Insert Description	P	M	K	N	S	H
3.543 - 4.921	W30 14120.3160	TOHX090202EL-UF12 BK60	●	●				
	W30 14120.3060	TOHX090200EL-G12 BK60	●	●				
	W57 14120.0423	TOGX090204FN-12 K10				●	●	
	W30 14990.0440	TOGX090204TN CBN40						●

MicroKom® *hi.flex* Optional Equipment

Boring Bar Adapter

Adapter

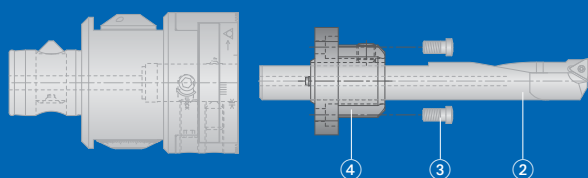
with cylindrical tool location
for clamping vibration dampened fine boring bars



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	55051 08010
M05 90210	0.315	1.220	–	0.630	–	0.26	M8×10	55051 08010
M05 90220	0.394	1.220	1.811	0.590	0.984	0.34	M8×10	55051 08010
M05 90230	0.472	1.220	1.811	0.590	0.984	0.32	M8×10	55051 08010
M05 90240	0.630	1.220	1.811	0.787	1.181	0.32	M8×8	55051 08008

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"



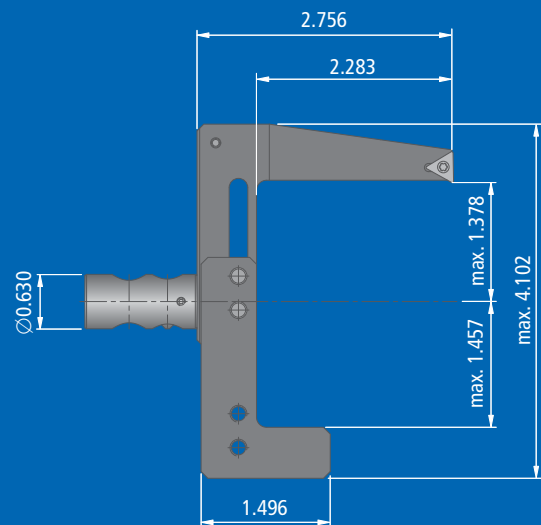
Setting the diameter

- 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	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.

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