

KAISER[®]

NEW!

SERIES 310 EWD

Finish Boring Head with
.00005"/ \varnothing or .001 mm/ \varnothing
Setting Accuracy



A PRODUCT OF:

BIG KAISER[®]
PRECISION TOOLING INC.

Higher Performance. Guaranteed.

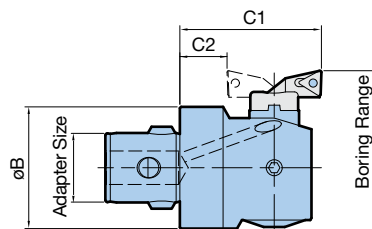
SERIES 310 EWD PRECISION FINISH BORING HEADS $\phi 1.614$ "-8.000" & INSERT HOLDERS

Highest Precision and Versatility

The new Kaiser Series 310 EWD precision boring head features absolute setting accuracy shown on a built-in digital display. The robust measurement system shows precise linear movement of the tool carrier permitting diameter adjustments of $\phi .00005$ " or $\phi .001$ mm. These boring heads utilize existing insert holders from program 310 EWN to allow an increased boring range and compatibility with existing special designs.

Features:

- IP 69K seal rating (highest possible) for electronics ensures resistance to contamination
- Digital resolution of $\phi .00005$ " or $\phi .001$ mm shown on a high contrast LCD display
- Single button operation for functions 'On', 'Reset', and to change between inch and metric readout units
- Automatic power-off function stores last display value and optimizes battery life
- Largest work range by offering 3 insert holders for each boring head size
- Insert holders can be mounted in opposite direction for back boring
- Balanced at midpoint of travel for cutting speeds up to 3,900 SFM
- Through spindle coolant capability with directional coolant ports is standard



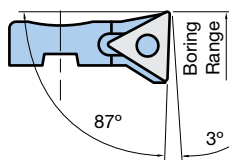
Inch Resolution, 1 Div = $.00005$ "/ ϕ , $\phi 1.614$ "-8.000"

Head Type	Adapter Size	Catalog Number	Boring Range		Back Boring		ϕB	C1	C2
			Min	Max	Min	Max			
EWD41	KAB4	10.310.413	1.614	2.913	2.087	2.913	1.496	1.850	.551
EWD53	KAB5	10.310.513	2.087	3.740	2.441	3.740	1.929	2.244	.748
EWD68	KAB6	10.310.613	2.677	5.906	3.071	5.906	2.520	2.795	.866
EWD100	KAB6	10.310.614	3.937	8.000	4.331	8.000	3.543	2.795	.866
EWD100	KAB7	10.310.713	3.937	8.000	4.331	8.000	3.543	3.425	1.496

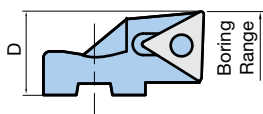
Metric Resolution, 1 Div = $.001$ mm/ ϕ , $\phi 41$ mm-203mm

Head Type	Adapter Size	Catalog Number	Boring Range		Back Boring		ϕB	C1	C2
			Min	Max	Min	Max			
EWD41	KAB4	10.310.403	41	74	53	74	38	47	14
EWD53	KAB5	10.310.503	53	95	62	95	49	57	19
EWD68	KAB6	10.310.603	68	150	78	150	64	71	22
EWD100	KAB6	10.310.604	100	203	110	203	90	71	22
EWD100	KAB7	10.310.703	100	203	110	203	90	87	38

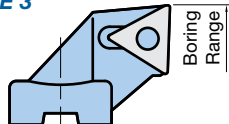
SIZE 1



SIZE 2



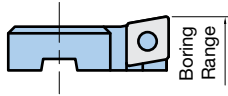
SIZE 3



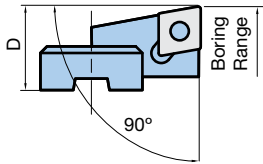
Triangular Insert Holders

Head Type	Catalog Number	Insert Holder Size	Boring Range		Back Boring Range		D	Insert	Insert Screws
			Min	Max	Min	Max			
EWD41	10.626.141	41	1.614	2.126	—	—	.319	TC..11	10.694.122
	10.626.142	42	1.969	2.480	2.087	2.480	.496		
	10.626.143	43	2.402	2.913	2.402	2.913	.713		
EWD53	10.626.151	51	2.087	2.756	2.441	2.756	.394	TC..11	10.694.122
	10.626.152	52	2.559	3.228	2.717	3.228	.630		
	10.626.153	53	3.070	3.740	3.070	3.740	.886		
EWD68	10.626.161	61	2.677	3.937	3.151	3.937	.492	TC..11	10.694.122
	10.626.162	62	3.700	4.960	3.700	4.960	1.004		
	10.626.163	63	4.646	5.906	4.646	5.906	1.476		
EWD100	10.626.161	61	3.937	6.024	4.409	6.024	.492	TC..11	10.694.122
	10.626.162	62	4.960	7.047	4.960	7.047	1.004		
	10.626.163	63	5.906	8.000	5.906	8.000	1.476		

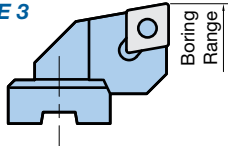
SIZE 1



SIZE 2



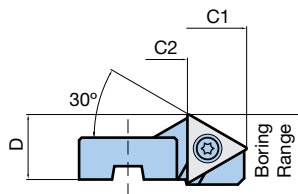
SIZE 3



90° Square Shoulder Insert Holders

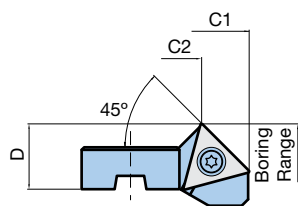
Head Type	Catalog Number	Insert Holder Size	Boring Range		Back Boring Range		D	Insert	Insert Screws
			Min	Max	Min	Max			
EWD41	11.626.341	41	1.614	2.126	—	—	.319	CC..06	10.694.122
	10.626.342	42	1.969	2.480	2.087	2.480	.496		
	10.626.343	43	2.402	2.913	2.402	2.913	.713		
EWD53	11.626.351	51	2.087	2.756	2.441	2.756	.394	CC..06	10.694.122
	10.626.352	52	2.441	3.110	2.756	3.110	.571		
	10.626.353	53	3.070	3.740	3.070	3.740	.886		
EWD68	11.626.361	61	2.677	3.937	3.151	3.937	.492	CC..09	10.694.141
	10.626.364	62	3.700	4.960	3.700	4.960	1.004		
	10.626.363	63	4.252	5.512	4.252	5.512	1.280		
EWD100	11.626.361	61	3.937	6.024	4.409	6.024	.492	CC..09	10.694.141
	10.626.364	62	4.960	7.047	4.960	7.047	.689		
	10.626.363	63	5.512	7.600	5.512	7.600	1.280		

30° Triangular Insert Holders



Head Type	Catalog Number	Insert Holder Size	Boring Range		Length		D	Insert	Insert Screws
			Min	Max	C1	C2			
EWD41	11.380.323	41	1.772	2.283	1.929	1.587	.398	TC..11	10.694.122
EWD53	11.380.324	51	2.205	2.874	2.244	1.906	.453	TC..11	10.694.122
EWD68	11.380.325	61	2.677	3.937	2.795	2.453	.492	TC..11	10.694.122
EWD100	11.380.325	61	3.937	6.024	3.425	3.083	.492	TC..11	10.694.122

45° Triangular Insert Holders



Head Type	Catalog Number	Insert Holder Size	Boring Range		Length		D	Insert	Insert Screws
			Min	Max	C1	C2			
EWD41	11.380.328	41	1.772	2.283	1.929	1.646	.398	TC..11	10.694.122
EWD53	11.380.329	51	2.205	2.874	2.244	1.961	.453	TC..11	10.694.122
EWD68	11.380.330	61	2.677	3.937	2.795	2.512	.492	TC..11	10.694.122
EWD100	11.380.330	61	3.937	6.024	3.425	3.142	.492	TC..11	10.694.122

Other Digital Boring Technology



Series 112

EWD 2-54 x KA6
Boring Range: ϕ .079"-2.126" (ϕ 2mm-54mm)
See Kaiser Catalog 308A, Pg. 46



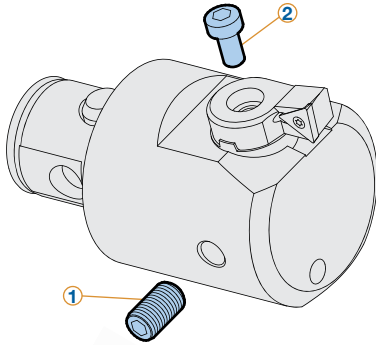
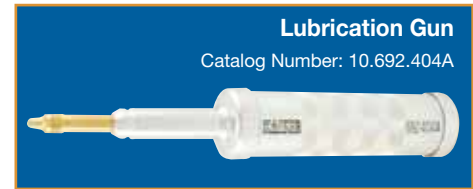
Series 318

EWD 200
Boring Range: ϕ 7.795"-118.150"

SERIES 310 EWD SPARE PARTS & O.D. TURNING SYSTEMS

Service Instructions for 310 EWD Heads

- Clean KA adapters prior to assembly
- Check cutting edge for wear prior to use
- All moving parts must be lubricated monthly using a light machine oil such as Mobil Vactra No. 2, BP Energol HLP-32 or Klueber Isoflex PDP94



Spare Parts

Head Type	① Locking Screws		② Mounting Screws		Wrench
	Catalog Number	Torque (in/lbs.)	Catalog Number	Torque (in/lbs.)	
EWD41	10.690.551	20	10.690.138	25	10.690.813
EWD53	10.690.552	50	10.690.139	50	10.690.814
EWD68	10.690.553	90	10.690.141	135	10.690.816
EWD100	10.690.553	90	10.690.141	135	10.690.816

Modular O.D. Turning Systems



Series 310 Intermediate Diameter System

Adapters for Series 310 EWD x KAB4/KAB5 Heads
Turning Range: $\varnothing 1.339''$ - $4.724''$ ($\varnothing 34\text{mm}$ - 120mm)
See *Kaiser Catalog 308A, Pg. 94*

Series 318 Light Weight Large Diameter System

Slides and Adapters for Series 310 EWD x KAB5
Turning Range: $\varnothing 1.929''$ - $18.740''$ ($\varnothing 49\text{mm}$ - 476mm)
See *Kaiser Catalog 308A Pg. 95*

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