

DIMENSIONS & WEAR LIMITS FOR MAJOR DYNAMIC COMPONENTS

		KT-150/KTC-112		KT-300/KTC-225		
		Standard Limits	Suggested Wear Limits	Standard Limits	Suggested Wear Limits	
Cylinder						
A.	Long Bore, Diameter	Max	6.879	6.885	8.879	8.885
B.	Short Bore, Diameter	Max	7.044	7.010	9.004	9.010
#*	C. Slide Pin Bore Diameter	Max	3.752	3.757	4.752	4.757
D.	Long Cylinder Bore Depth	Max	10.001		15.002	
E.	Short Cylinder Bore Depth	Max	3.001		4.502	
	(Closed Head Side w/ Wall Installed)	Min	2.999		4.999	
Slide Pins						
#* A.	OD, Long	Min	3.7465	3.744	4.7455	4.743
	OD, Short	Min	3.7475	3.745	4.746	4.743
B.	Slot Length, Long	Max	6.001		9.001	
	Slot Length, Short	Max	3.001		4.501	
* C.	Slot Width	Max	1.505	1.507	2.002	2.004
Pistons						
A.	OD, Long	Min	4.743		6.118	
	OD, Short	Min	4.868		6.243	
* B.	ID	Max	4.0015	4.004	5.377	5.379
C.	Length, Long	Min	5.994		8.993	
	Length, Short	Min	2.995		4.494	
* D.	Slide Width	Min	1.500	1.497	1.995	1.992
Cams						
* A.	OD	Min	3.996	3.993	5.371	5.368
B.	Bore	Max	1.376		2.001	
Shaft						
* A.	Under Bearings	Min	1.312	1.310	1.936	1.934
B.	Under Shaft seal	Min	1.249		1.874	
Bearings (Installed)						
* A.	ID	Max	1.317	1.320	1.942	1.945
Head						
* A.	Slide Pin Counter Bore	Max	3.754		4.754	

Note: *Primary surfaces subjected to wear. It must be recognized that stated wear limits, particularly on both mating parts or on several parts, will result in below standard performance.

#Excessively worn slidepin bores may be reworked for special 1/16 oversize diameter slidepins.

KT-300C/D PUMP DIMENSION FOR MAJOR DYNAMIC COMPONENTS

		Standard Limits	Suggested Wear Limits
Cylinder			
A.	Long Bore, Diameter	Max 8.879	8.884
B.	Short Bore, Diameter	Max 9.004	9.009
#* C.	Slide Pin Bore Diameter	Max 4.752	4.754
D.	Long Cylinder Bore Depth	Max 15.002	
E.	Short Cylinder Bore Depth	Max 4.502	
	(Closed Head Side w/ Wall Installed)	Max 4.999	
Slide Pins			
* A.	OD, Long	Min 4.745	4.7425
	OD, Short	Min 4.7455	4.743
B.	Slot Length, Long	Max 9.001	
	Slot Length, Short	Max 4.501	
* C.	Slot Width	Max 2.001	2.003
Piston			
A.	OD, Long	Min 6.117	
	OD, Short	Min 6.242	
* B.	ID	Max 5.377	5.3795
C.	Length, Long	Min 8.493	
	Length, Short	Min 4.494	
* D.	Slide Width, long	Min 1.9935	1.992
	Slide Width, short	Min 1.9945	1.993
Cam			
* A.	OD	Min 5.371	5.368
B.	Bore	Max 2.001	
Shaft			
* A.	Under Bearings	Min 1.937	1.935
B.	Under Shaft seal	Min 1.874	
Bearings (Installed)			
* A.	ID	Max 1.942	1.944

Head

* A.	Slime Pin Counter Bore	Max	4.754
------	------------------------	-----	-------

Note: *Primary surfaces subjected to wear. It must be recognized that stated wear limits, particularly on both mating parts or on several parts, will result in below standard performance.

#Excessively worn slidepin bores may be reworked for special 1/16 oversize diameter slidepins.

KT-500C/D PUMP DIMENSION FOR MAJOR DYNAMIC COMPONENTS

			Standard Limits	Suggested Wear Limits
Cylinder				
A.	Long Bore, Diameter	Max	11.880	11.886
B.	Short Bore, Diameter	Max	12.005	12.011
#* C.	Slide Pin Bore Diameter	Max	6.502	6.505
D.	Long Cylinder Bore Depth	Max	16.502	
E.	Short Cylinder Bore Depth	Max	5.002	
	(Closed Head Side w/ Wall Installed)	Max	4.998	
Slide Pins				
* A.	OD, Long	Min	6.492	6.490
	OD, Short	Min	6.493	6.491
B.	Slot Length, Long	Max	10.001	
	Slot Length, Short	Max	5.001	
* C.	Slot Width	Max	2.501	2.503
Piston				
A.	OD, Long	Min	8.363	
	OD, Short	Min	8.49	
* B.	ID	Max	7.002	7.005
C.	Length, Long	Min	9.992	
	Length, Short	Min	9.993	
* D.	Slide Width, long	Min	2.4905	2.4885
	Slide Width, short	Min	2.4915	2.4895
Cam				
* A.	OD	Min	6.995	6.992
B.	Bore	Max	2.501	
Shaft				
* A.	Under Bearings	Min	2.3745	2.3725
B.	Under Shaft seal	Min	2.124	

Bearings (Installed)

* A.	ID	Max	2.380	2.382
------	----	-----	-------	-------

Head

* A.	Sline Pin Counter Bore	Max	6.505	
------	------------------------	-----	-------	--

Note: *Primary surfaces subjected to wear. It must be recognized that stated wear limits, particularly on both mating parts or on several parts, will result in below standard performance.

#Excessively worn slidepin bores may be reworked for special 1/16 oversize diameter slidepins.

KT-850C MECHANICAL VACUUM PUMP
DIMENSIONS FOR MAJOR DYNAMIC COMPONENTS

			Standard Limits	Suggested Wear Limits
Cylinder				
A.	Long Bore, Diameter	13.878	+ .003	13.887
B.	Short Bore, Diameter	14.003	+ .003	14.012
#* C.	Slide Pin Bore Diameter	7.251	± .001	7.255
D.	Long Cylinder Bore Depth	22.5	+ .003	
E.	Short Cylinder Bore Depth (Cylinder head side with wall installed)	7.0015	- .0025	
Slide Pins				
#* A.	OD, Long	7.242	- .002	7.238
	OD, Short	7.243	- .0015	7.237
B.	Slot Length, Long	14.001	- .002	
	Slot Length, Short	7.001	- .0015	
* C.	Slot Width	3.000	+ .002	3.004
Pistons				
A.	OD, Long	9.355	+ .001 - .002	
	OD, Short	9.48	+ .001 - .002	
* B.	ID	8.000	+ .002	8.005
C.	Length, Long	13.991	± .001	
	Length, Short	6.993	± .001	
* D.	Slide Width, Long	2.991	- .002	2.987
	Slide Width, Short	2.992	- .002	2.988

Cam

M-D Pneumatics® KINNEY®

4840 W. Kearney St.
Springfield, MO 65803

* A. Outside Diameter	7.995	- .001	7.991
B. Bore	2.750	+ .001	

Shaft

* A. Under Bearings	2.6245	+ .0005	2.622
B. Under Shaft seal	2.499	+ .002	

Bearings (Installed)

* A. Inside Diameter	2.629	+ .002	2.632
----------------------	-------	--------	-------

Head

A. Slide Pin Counter Bore	7.254		
---------------------------	-------	--	--

Note:

* Primary surfaces subjected to wear. It must be recognized that stated wear limits,

* Excessively worn slidepin bores may be reworked for special 1/16" oversize diameter slidepins.

KDH-130 / 150

		Standard Limits	Suggested Wear Limits
Cylinder			
A.	Cylinder Bore Diameter	Max. 8.003	8.008
#*	B. Slide Pin Bore Diameter	Max. 3.002	3.005
C.	Cylinder Bore Depth	Max. 8.002	8.005
D.	Bore Center Distance	4.843/4.845	-
Slide Pins			
#*	A. Outside Diameter	Min. 2.9975	2.995
B.	Slot Length	Max. 8.002	8.004
*	C. Slot Width	Max. 1.5055	1.507
Pistons			
A.	Outside Diameter	Min. 5.493	5.489
*	B. Inside Diameter	Max. 4.753	4.7555
C.	Length	Min. 7.995	7.993
*	D. Slide Width	Min. 1.501	1.499
Cam			
*	A. Outside Diameter	Min. 7.995	-.001
B.	Bore	Max. 2.750	+.001
Shaft			
A.	Under bearings & under shaft seal	Min. 1.498	1.496
Bearings (Installed)			
*	A. Inside Diameter	Max. 1.501	1.504
Head			
A.	Slide Pin Counter Bore	Max. 3.0035	-

Note:

* Primary surfaces subjected to wear. It must be recognized that stated wear limits,

* Excessively worn slidepin bores may be reworked for special 1/16" oversize diameter slidepins.

KC-15, KD30/50 PUMP DIMENSION FOR MAJOR DYNAMIC COMPONENTS

		Standard Limits	Suggested Wear Limits
Cylinder			
A.	Cylinder Bore Diameter	Max. 5.0015	5.004
* B.	Slide Pin Bore Diameter	Max. 2.127	2.129
C.	Cylinder Bore Depth	Max. 5.0015	5.0025
Slide Pins			
* A.	Diameter	Min. 2.124	2.1225
B.	Slot Length	Max. 0.0015	5.0025
* C.	Slot Width	Max. 0.255	1.2565
Pistons			
A.	Outside Diameter	Min. 3.495 Δ	3.493
* B.	Inside Diameter	Max. 2.941	2.943
C.	Length	Min. 4.997	4.995
* D.	Slide Width	Min. 1.251	1.2495
Cam			
* A.	Diameter	Min. 2.9375	2.936
B.	Bore	Max. 0.9385	
Shaft			
A.	Under Bearings	Min. 0.787	0.786
B.	Under Shaft seal	Min. 0.749	
Bearing (C.I.) KD-30/50			
A.	Inside Diameter	Max. 0.790	0.7915

Note: *Primary surfaces subjected to wear. It must be recognized that stated wear limits, particularly on both mating parts or on several parts, will result in below standard performance.

Δ Min. KD-50 piston OD is 3.491 with suction quadrant feathering to 3.485 dia. adjacent to slide.