



■ NEWEN® carbide pilots have a standard shank of .375"(**9.52mm**) in diameter that fits all NEWEN® seat & guide machines. They are 100% compatible with all Serdi seat & guide machines and with any .375"(**9.52mm**) ball head systems available on the market today (DCM, Winona, Perterson, Serdi, Neway, K.O. Lee, Snap On, Kwik-Way, NEWEN®....).

■ NEWEN® pilots are made of **Tungsten Carbide** to offer **stability and high wear resistance**. NEWEN® pilots are the only pilots that guarantee both machining quality and precision.

■ Over 100 sizes in **stock** to choose from. Custom sizes available within 1 week ARO.

■ NEWEN® pilots are offered in increments of .0004" (**0.01mm**). Custom and half size carbide pilots also available on special order. Refer to conversion chart and **stock item** listing on following page.

It is highly recommended that your pilots go through the entire valve guide to ensure the best possible centering and to maximize machining results. Inquire about our custom size carbide pilots.





Legend: • Stock • Non-stock

mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
3.96	0.1559	4.64	0.1827	5.32	0.2095	5.99	0.2359	6.67	0.2626	7.35	0.2894
3.97	0.1563	4.65	0.1831	5.33	0.2099	6.00	0.2363	6.68	0.2630	7.36	0.2898
3.98	0.1567	4.66	0.1835	5.34	0.2102	6.01	0.2367	6.69	0.2634	7.37	0.2902
3.99	0.1571	4.67	0.1839	5.35	0.2106	6.02	0.2371	6.70	0.2638	7.38	0.2906
4.00	0.1575	4.68	0.1843	5.36	0.2110	6.03	0.2375	6.71	0.2642	7.39	0.2910
4.01	0.1579	4.69	0.1847	5.37	0.2114	6.04	0.2379	6.72	0.2646	7.40	0.2913
4.02	0.1583	4.70	0.1851	5.38	0.2118	6.05	0.2383	6.73	0.2650	7.41	0.2917
4.03	0.1587	4.71	0.1855	5.39	0.2122	6.06	0.2387	6.74	0.2654	7.42	0.2921
4.04	0.1591	4.72	0.1858	5.40	0.2126	6.07	0.2390	6.75	0.2658	7.43	0.2925
4.05	0.1595	4.73	0.1862	5.41	0.2130	6.08	0.2394	6.76	0.2662	7.44	0.2929
4.06	0.1599	4.74	0.1866	5.42	0.2134	6.09	0.2398	6.77	0.2666	7.45	0.2933
4.07	0.1602	4.75	0.1870	5.43	0.2138	6.10	0.2402	6.78	0.2669	7.46	0.2937
4.08	0.1606	4.76	0.1874	5.44	0.2142	6.11	0.2406	6.79	0.2673	7.47	0.2941
4.09	0.1610	4.77	0.1878	5.45	0.2146	6.12	0.2410	6.80	0.2677	7.48	0.2944
4.10	0.1614	4.78	0.1882	5.46	0.2150	6.13	0.2413	6.81	0.2681	7.49	0.2949
4.11	0.1618	4.79	0.1886	5.47	0.2154	6.14	0.2417	6.82	0.2685	7.50	0.2953
4.12	0.1622	4.80	0.1890	5.48	0.2157	6.15	0.2421	6.83	0.2689	7.51	0.2957
4.13	0.1626	4.81	0.1894	5.49	0.2161	6.16	0.2425	6.84	0.2693	7.52	0.2961
4.14	0.1630	4.82	0.1898	5.50	0.2165	6.17	0.2429	6.85	0.2697	7.53	0.2965
4.15	0.1634	4.83	0.1902	5.51	0.2169	6.18	0.2433	6.86	0.2701	7.54	0.2969
4.16	0.1638	4.84	0.1906	5.52	0.2173	6.19	0.2437	6.87	0.2705	7.55	0.2972
4.17	0.1642	4.85	0.1910	5.53	0.2177	6.20	0.2441	6.88	0.2709	7.56	0.2976
4.18	0.1646	4.86	0.1914	5.54	0.2181	6.21	0.2445	6.89	0.2713	7.57	0.2980
4.19	0.1650	4.87	0.1918	5.55	0.2185	6.22	0.2449	6.90	0.2717	7.58	0.2984
4.20	0.1654	4.88	0.1921	5.56	0.2189	6.23	0.2453	6.91	0.2721	7.59	0.2988
4.21	0.1658	4.89	0.1925	5.57	0.2193	6.24	0.2457	6.92	0.2724	7.60	0.2992
4.22	0.1662	4.90	0.1929	5.58	0.2197	6.25	0.2461	6.93	0.2728	7.61	0.2996
4.23	0.1666	4.91	0.1933	5.59	0.2201	6.26	0.2465	6.94	0.2732	7.62	0.3000
4.24	0.1670	4.92	0.1937	5.60	0.2205	6.27	0.2469	6.95	0.2736	7.63	0.3004
4.25	0.1674	4.93	0.1941	5.61	0.2209	6.28	0.2473	6.96	0.2740	7.64	0.3008
4.26	0.1678	4.94	0.1945	5.62	0.2213	6.29	0.2476	6.97	0.2744	7.65	0.3012
4.27	0.1682	4.95	0.1949	5.63	0.2217	6.30	0.2480	6.98	0.2748	7.66	0.3016
4.28	0.1686	4.96	0.1953	5.64	0.2221	6.31	0.2484	6.99	0.2752	7.67	0.3020
4.29	0.1690	4.97	0.1957	5.65	0.2225	6.32	0.2488	7.00	0.2756	7.68	0.3024
4.30	0.1694	4.98	0.1961	5.66	0.2228	6.33	0.2492	7.01	0.2760	7.69	0.3028
4.31	0.1697	4.99	0.1965	5.67	0.2232	6.34	0.2496	7.02	0.2764	7.70	0.3032
4.32	0.1701	5.00	0.1969	5.68	0.2236	6.35	0.2500	7.03	0.2768	7.71	0.3035
4.33	0.1705	5.01	0.1972	5.69	0.2240	6.36	0.2504	7.04	0.2772	7.72	0.3039
4.34	0.1709	5.02	0.1976	5.70	0.2244	6.37	0.2508	7.05	0.2776	7.73	0.3043
4.35	0.1713	5.03	0.1980	5.71	0.2248	6.38	0.2512	7.06	0.2780	7.74	0.3047
4.36	0.1717	5.04	0.1984	5.72	0.2252	6.39	0.2516	7.07	0.2784	7.75	0.3051
4.37	0.1721	5.05	0.1988	5.73	0.2256	6.40	0.2519	7.08	0.2788	7.76	0.3055
4.38	0.1725	5.06	0.1992	5.74	0.2260	6.41	0.2524	7.09	0.2791	7.77	0.3059
4.39	0.1729	5.07	0.1996	5.75	0.2264	6.42	0.2528	7.10	0.2795	7.78	0.3063
4.40	0.1733	5.08	0.2000	5.76	0.2268	6.43	0.2532	7.11	0.2799	7.79	0.3067
4.41	0.1737	5.09	0.2004	5.77	0.2272	6.44	0.2536	7.12	0.2803	7.80	0.3071
4.42	0.1741	5.10	0.2008	5.78	0.2276	6.45	0.2540	7.13	0.2807	7.81	0.3075
4.43	0.1745	5.11	0.2012	5.79	0.2280	6.46	0.2543	7.14	0.2811	7.82	0.3079
4.44	0.1748	5.12	0.2016	5.80	0.2284	6.47	0.2547	7.15	0.2815	7.83	0.3083
4.45	0.1752	5.13	0.2020	5.81	0.2288	6.48	0.2551	7.16	0.2819	7.84	0.3087
4.46	0.1756	5.14	0.2024	5.82	0.2291	6.49	0.2555	7.17	0.2823	7.85	0.3091
4.47	0.1760	5.15	0.2028	5.83	0.2295	6.50	0.2559	7.18	0.2827	7.86	0.3095
4.48	0.1764	5.16	0.2032	5.84	0.2299	6.51	0.2563	7.19	0.2831	7.87	0.3099
4.49	0.1768	5.17	0.2036	5.85	0.2303	6.52	0.2567	7.20	0.2835	7.88	0.3103
4.50	0.1772	5.18	0.2040	5.86	0.2307	6.53	0.2571	7.21	0.2839	7.89	0.3107
4.51	0.1776	5.19	0.2044	5.87	0.2311	6.54	0.2575	7.22	0.2843	7.90	0.3111
4.52	0.1780	5.20	0.2047	5.88	0.2315	6.55	0.2579	7.23	0.2847	7.91	0.3115
4.53	0.1784	5.21	0.2051	5.89	0.2319	6.56	0.2583	7.24	0.2850	7.92	0.3119
4.54	0.1788	5.22	0.2055	5.90	0.2323	6.57	0.2587	7.25	0.2854	7.93	0.3123
4.55	0.1791	5.23	0.2059	5.91	0.2327	6.58	0.2591	7.26	0.2858	7.94	0.3127
4.56	0.1795	5.24	0.2063	5.92	0.2331	6.59	0.2594	7.27	0.2862	7.95	0.3131
4.57	0.1799	5.25	0.2067	5.93	0.2335	6.60	0.2598	7.28	0.2866	7.96	0.3135
4.58	0.1803	5.26	0.2071	5.94	0.2339	6.61	0.2602	7.29	0.2870	7.97	0.3139
4.59	0.1807	5.27	0.2075	5.95	0.2343	6.62	0.2606	7.30	0.2874	7.98	0.3143
4.60	0.1811	5.28	0.2079	5.96	0.2347	6.63	0.2610	7.31	0.2878	7.99	0.3147
4.61	0.1815	5.29	0.2083	5.97	0.2351	6.64	0.2614	7.32	0.2882	8.00	0.3151
4.62	0.1819	5.30	0.2087	5.98	0.2355	6.65	0.2619	7.33	0.2886	8.01	0.3155
4.63	0.1823	5.31	0.2091			6.66	0.2622	7.34	0.2890	8.02	0.3159

Lead time
for
non-stock
items:
1 week
from date
of order



Legend: • Stock • Non-stock

mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	Lead time for non-stock items: 1 week from date of order
8.03	0.3161	8.71	0.3429	9.39	0.3697	10.07	0.3965	12.59	0.4957	
8.04	0.3166	8.72	0.3433	9.40	0.3701	...	...	12.60	0.4961	
8.05	0.3169	8.73	0.3437	9.41	0.3705	10.25	0.4035	12.61	0.4965	
8.06	0.3173	8.74	0.3441	9.42	0.3709	10.26	0.4039	12.62	0.4969	
8.07	0.3177	8.75	0.3445	9.43	0.3713	10.27	0.4043	12.63	0.4972	
8.08	0.3181	8.76	0.3449	9.44	0.3717	10.28	0.4047	12.64	0.4976	
8.09	0.3185	8.77	0.3453	9.45	0.3720	10.29	0.4051	12.65	0.4980	
8.10	0.3189	8.78	0.3457	9.46	0.3724	10.30	0.4055	12.66	0.4984	
8.11	0.3193	8.79	0.3461	9.47	0.3728	10.31	0.4059	12.67	0.4988	
8.12	0.3197	8.80	0.3465	9.48	0.3732	10.32	0.4063	12.68	0.4992	
8.13	0.3201	8.81	0.3469	9.49	0.3736	10.33	0.4067	12.69	0.4996	
8.14	0.3205	8.82	0.3472	9.50	0.3740	10.34	0.4071	12.70	0.5000	
8.15	0.3209	8.83	0.3476	9.51	0.3744	10.35	0.4075	12.71	0.5004	
8.16	0.3213	8.84	0.3480	9.52	0.3748	10.36	0.4079	12.72	0.5008	
8.17	0.3217	8.85	0.3484	9.53	0.3752	10.37	0.4083	12.73	0.5012	
8.18	0.3221	8.86	0.3488	9.54	0.3756	10.38	0.4087	12.74	0.5016	
8.19	0.3225	8.87	0.3492	9.55	0.3760	10.39	0.4091	12.75	0.5020	
8.20	0.3228	8.88	0.3496	9.56	0.3764	10.40	0.4094	12.76	0.5024	
8.21	0.3232	8.89	0.3500	9.57	0.3768	10.41	0.4098	12.77	0.5028	
8.22	0.3236	8.90	0.3504	9.58	0.3772	10.42	0.4102	12.78	0.5031	
8.23	0.3240	8.91	0.3508	9.59	0.3776	10.43	0.4106	12.79	0.5035	
8.24	0.3244	8.92	0.3512	9.60	0.3780	10.44	0.4110	12.80	0.5039	
8.25	0.3248	8.93	0.3516	9.61	0.3783	10.45	0.4114	...	...	
8.26	0.3252	8.94	0.3520	9.62	0.3787	10.46	0.4118	14.20	0.5591	
8.27	0.3256	8.95	0.3524	9.63	0.3791	...	...	14.21	0.5594	
8.28	0.3260	8.96	0.3528	9.64	0.3795	10.96	0.4315	14.22	0.5598	
8.29	0.3264	8.97	0.3531	9.65	0.3799	10.97	0.4319	14.23	0.5602	
8.30	0.3268	8.98	0.3535	9.66	0.3803	10.98	0.4323	14.24	0.5606	
8.31	0.3271	8.99	0.3539	9.67	0.3807	10.99	0.4327	14.25	0.5610	
8.32	0.3275	9.00	0.3543	9.68	0.3811	11.00	0.4331	14.26	0.5614	
8.33	0.3279	9.01	0.3547	9.69	0.3815	11.01	0.4335	14.27	0.5618	
8.34	0.3283	9.02	0.3551	9.70	0.3819	11.02	0.4339	14.28	0.5622	
8.35	0.3287	9.03	0.3555	9.71	0.3823	11.03	0.4343	14.29	0.5626	
8.36	0.3291	9.04	0.3559	9.72	0.3827	11.04	0.4346	14.30	0.5630	
8.37	0.3295	9.05	0.3563	9.73	0.3831	11.05	0.4350	14.31	0.5634	
8.38	0.3299	9.06	0.3567	9.74	0.3835	11.06	0.4354	14.32	0.5638	
8.39	0.3303	9.07	0.3571	9.75	0.3839	11.07	0.4358	14.33	0.5642	
8.40	0.3307	9.08	0.3575	9.76	0.3843	11.08	0.4362	14.34	0.5646	
8.41	0.3311	9.09	0.3579	9.77	0.3846	11.09	0.4366	14.35	0.5650	
8.42	0.3315	9.10	0.3583	9.78	0.3850	11.10	0.4370	14.36	0.5654	
8.43	0.3319	9.11	0.3587	9.79	0.3854	11.11	0.4374	14.37	0.5657	
8.44	0.3323	9.12	0.3591	9.80	0.3858	...	...	14.38	0.5661	
8.45	0.3327	9.13	0.3595	9.81	0.3862	11.45	0.4508	14.39	0.5665	
8.46	0.3331	9.14	0.3598	9.82	0.3866	11.46	0.4512	14.40	0.5669	
8.47	0.3335	9.15	0.3602	9.83	0.3870	11.47	0.4516	...	...	
8.48	0.3339	9.16	0.3606	9.84	0.3874	11.48	0.4520	15.75	0.6201	
8.49	0.3343	9.17	0.3610	9.85	0.3878	11.49	0.4524	15.76	0.6205	
8.50	0.3347	9.18	0.3614	9.86	0.3882	11.50	0.4528	15.77	0.6209	
8.51	0.3350	9.19	0.3618	9.87	0.3886	11.51	0.4531	15.78	0.6213	
8.52	0.3354	9.20	0.3622	9.88	0.3890	11.52	0.4535	15.79	0.6217	
8.53	0.3358	9.21	0.3626	9.89	0.3894	...	...	15.80	0.6220	
8.54	0.3362	9.22	0.3630	9.90	0.3898	11.98	0.4717	15.81	0.6224	
8.55	0.3366	9.23	0.3634	9.91	0.3902	11.99	0.4720	15.82	0.6228	
8.56	0.3370	9.24	0.3638	9.92	0.3906	12.00	0.4724			
8.57	0.3374	9.25	0.3642	9.93	0.3909	12.01	0.4728			
8.58	0.3378	9.26	0.3646	9.94	0.3913	12.02	0.4732			
8.59	0.3382	9.27	0.3650	9.95	0.3917	...	...			
8.60	0.3386	9.28	0.3654	9.96	0.3921	12.48	0.4913			
8.61	0.3390	9.29	0.3657	9.97	0.3925	12.49	0.4917			
8.62	0.3394	9.30	0.3661	9.98	0.3929	12.50	0.4921			
8.63	0.3398	9.31	0.3665	9.99	0.3933	12.51	0.4925			
8.64	0.3402	9.32	0.3669	10.00	0.3937	12.52	0.4929			
8.65	0.3406	9.33	0.3673	10.01	0.3941	12.53	0.4933			
8.66	0.3409	9.34	0.3677	10.02	0.3945	12.54	0.4937			
8.67	0.3413	9.35	0.3681	10.03	0.3949	12.55	0.4941			
8.68	0.3417	9.36	0.3685	10.04	0.3953	12.56	0.4945			
8.69	0.3421	9.37	0.3689	10.05	0.3957	12.57	0.4949			
8.70	0.3425	9.38	0.3693	10.06	0.3961	12.58	0.4953			