2012-2013 CATALOG

THE SOURCE

NEW ENT®

ENGLISH

FIXED-TURNING®

the new standard
in valve seat machining™

ZERO Defect... 100% Perfection!
FIXED-TURNING® in all its forms

CONTOUR-BB™
... the best budget

CONTOUR™
... the extra comfort

CONTOUR™ featured with an IVECO cylinder head

Who is best able to guaranty the 2012 OEM quality requirements on the following operations...	NEWEN FIXED-TURNING® machines		The best Form-Tool seat & guide machines in the market	
	YES	NO	YES	NO
Machine the hardest valve seats with a 100% guaranteed precision and, of course, chatter free	✓			X
Machine round and concentric valve seats 100% of the time regardless of the material to machine	✓			X
Machine round and concentric valve seats for a 100% seal regardless of the diameter of the seat ranging from 14 to 240mm (.55" to 9.45")	✓			X
Machine perfectly round & square valve seat housings within a 0.005mm (.0002") circularity tolerance and perpendicularity of the resting face (OEM tolerance)	✓			X
Machine valve guides with "H7" (OEM Tolerance) automatically	✓			X
Carry out all the machining operations in automatic with depth tolerances within a few hundredths of mm regardless of the diameters of the valve seats and their hardness	✓			X
Guaranty optimum quality with an operator who only has a few days of training	✓			X
Guaranty the same quality for decades to come regardless of the materials and precision levels required	✓			X
Guaranty the machining of all the shapes and profiles with one standard single point cutting tool	✓			X
Guaranty an inventory of the most complex profiles and make them available at any moment with a few simple touches on the screen	✓			X
Guaranty the capacity to machine all types of cylinder heads that may exist, including the ones featuring venturi type shapes (back cuts) below the seats	✓			X

EPOC-XL™
... objective no-limit

EPOC™
... reach for the extreme

Featured with 2 AFR 1450 small block heads mounted side by side, each on a SGC200M.

BE> THINK> INNOVATE>

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NEWEN®

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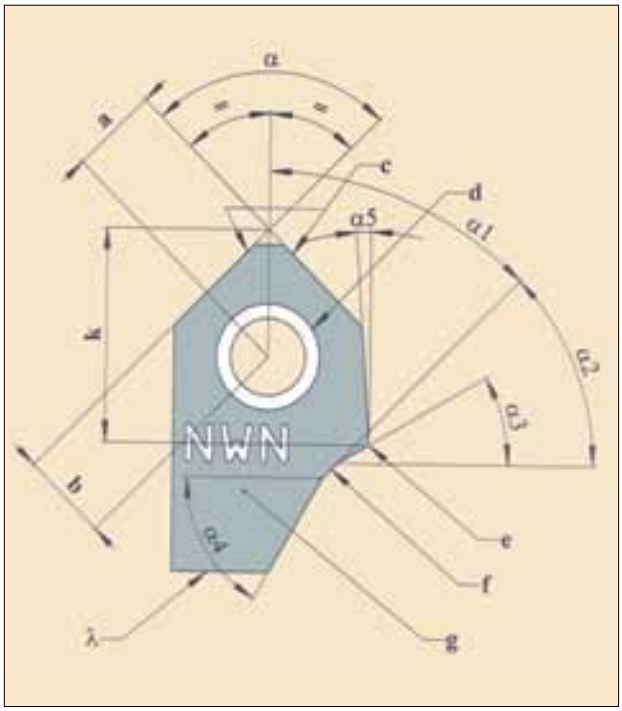
NWN, THE BEST PROFILE MONEY CAN BUY!

- LARGEST INVENTORY
- BEST QUALITY
- BEST PRICE
- NO MINIMUMS
- BEST PERFORMANCE



a,b,c,α

precision positioning of the tip seat angle and proper tightening of the tip result directly from parameters a, b, c and α. Both the positioning of the seat angle of the tip and proper tightening of the tip **are critical** to ensure adequate rigidity of the tool and to eliminate chattering. The tolerances on NEWEN® High-Performance Tips are the strictest of any tips available on the market.

d

the seat angle of the screw hole is designed to ensure maximum pressure on the tips in their housing. NEWEN® T8 torx screws guarantee optimum tightening of the tips.

e

this small radius, made while the tips are being machined, reinforces the tips significantly at this delicate place and allow for longer use of the tips.

f

the machining of the profile is done with a special concave shape which, in turn, allows for the machining of more valve seats between resharpenings. This concave shape also allows the customers who wish to resharpen their tips to do so more times since the above mentioned shape let them remove less material during any given sharpening operation.

g

the carbide used to manufacture NEWEN® tips is of the finest quality and is specially treated to make the cutting edges of the tips as strong as possible.

λ

the base of the tip has a relief angle in order to avoid heeling.

k

this dimension has very close tolerance in order to make the tips completely interchangeable without adjustment of the tool holder and for added precision and considerable time saving.

α1, α2, α3, α4, α5

all the angles are executed with a precision unequaled to date and are controlled automatically while each tip is being machined. NEWEN® tips are machined one at a time to ensure perfect angle accuracy and consistency.

NEWEN® carbide form tips are **cut one at a time guaranteeing maximum precision**.

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NEWEN® CARBIDE FORM TIP REFERENCING SYSTEM

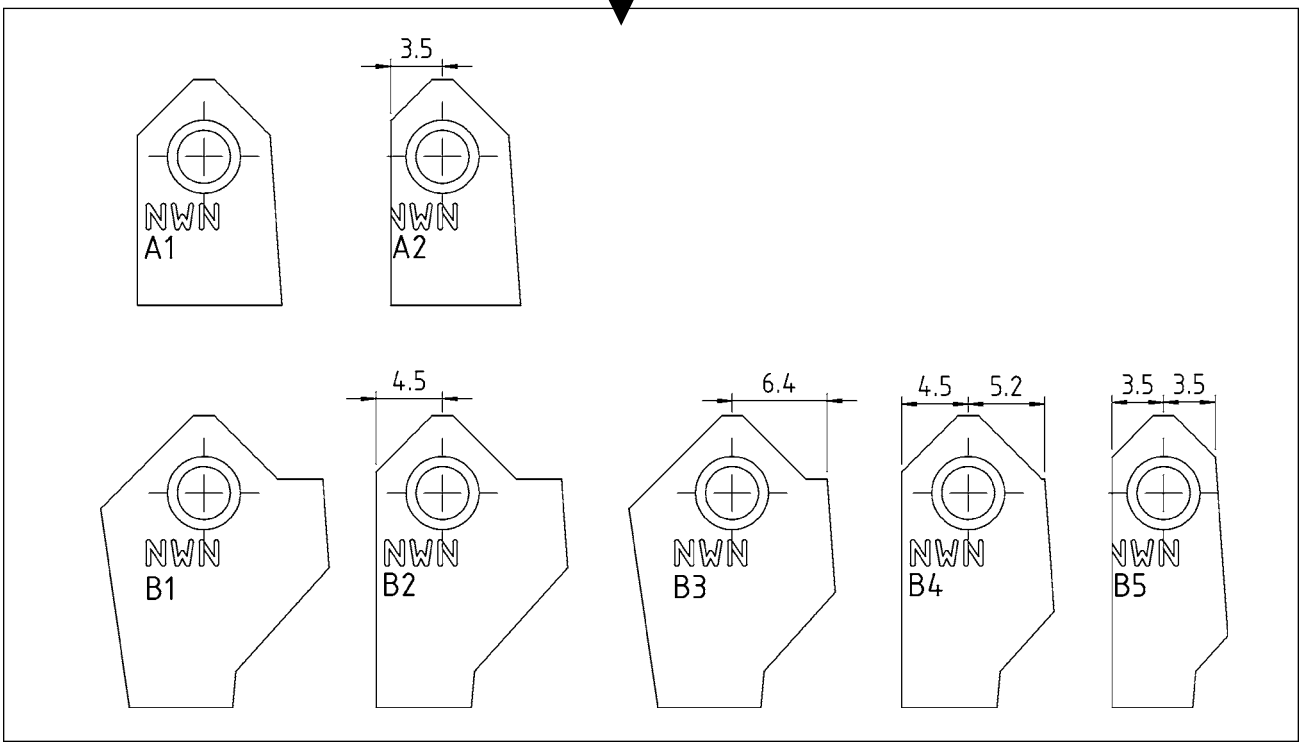
Relief Angles	Blank Size	NEWEN® We've Made Top Quality Affordable™!	Carbide Form Tip Profile Reference. Laser Etching.

W - A 1 - N W N - 4 0 3 8

W	12°	WA1-NWN4038
X	10°	XA1-NWN4038
Y	8°	YA1-NWN4038
Z	Other°	Z6A1-NWN4038

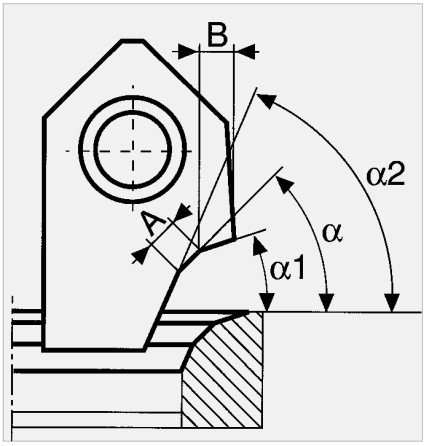
NWN,
Genuine* NEWEN® Carbide Form Tip. Look for **NWN**, the best profile money can buy!
NWN, the only carbide tips that are CNC machined one at a time to ensure perfect angle accuracy and consistency.
* **gen.u.ine** [L *genuinus* native] actually produced by the alleged source or author.

- Open up to **NWN**'s world of unlimited profiles!
- Over 300 stock profiles to choose from.
- Custom profiles available within 1 week from order date and/or blueprint approval.
- Use **NWN-3a-CAD™** to design your custom tips in seconds and lower your costs (refer to page 36).



45°

	NEWEN REFERENCE	A = Seat Width		B = Top Width		α	α1	α2
		mm	in	mm	in	Seat Angle	Top Angle	Throat Angle
In 1	WA1-NWN4183	0.8	.031	1.0	.039	45	32	60
In 2	WA1-NWN4445	1.0	.039	1.0	.039	45	15	60
In 3	WA1-NWN1101	1.0	.039	1.0	.039	45	25	60
In 4	WA1-NWN4028	1.0	.039	1.2	.047	45	30	60
In 5	WA1-NWN4984	1.0	.039	1.2	.047	45	38	52
In 6	WA1-NWN4983	1.0	.039	1.3	.051	45	30	75
In 7	WA1-NWN1102	1.0	.039	1.4	.055	45	25	60
In 8	WA1-NWN4588	1.0	.039	1.6	.063	45	25	52
In 9	WA1-NWN4029	1.0	.039	1.6	.063	45	35	52
In 10	WA1-NWN4030	1.0	.039	1.6	.063	45	35	55
In 11	WA1-NWN4031	1.0	.039	1.6	.063	45	35	60
In 12	WA1-NWN4980	1.0	.039	1.6	.063	45	38	65
In 13	WA1-NWN4017	1.0	.039	1.8	.071	45	15	60
In 14	WA1-NWN4981	1.0	.039	1.8	.071	45	20	75
In 15	WA1-NWN1103	1.0	.039	1.8	.071	45	25	60
In 16	WA1-NWN4090	1.0	.039	1.8	.071	45	30	60
In 17	WA1-NWN4303	1.0	.039	2.0	.079	45	30	60
In 18	WA1-NWN4087	1.0	.039	2.0	.079	45	37	52
In 19	WA1-NWN4903	1.0	.039	2.54	.100	45	37	58
In 20	WA1-NWN4904	1.0	.039	2.54	.100	45	37	64
In 21	WA1-NWN1105	1.0	.039	3.0	.118	45	25	60
In 22	WA1-NWN4451	1.0	.039	3.0	.118	45	30	60
In 23	WA1-NWN4182	1.2	.047	1.2	.047	45	30	60
In 24	WA1-NWN1122	1.2	.047	1.4	.055	45	25	60
In 25	WA1-NWN4016	1.2	.047	1.8	.071	45	15	60
In 26	WA1-NWN4032	1.3	.051	1.0	.039	45	30	60
In 27	WA1-NWN4221	1.3	.051	1.2	.047	45	30	60
In 28	WA1-NWN4480	1.3	.051	1.6	.063	45	30	60
In 29	WA1-NWN4091	1.3	.051	1.8	.071	45	30	60
In 30	WA1-NWN4034	1.3	.051	2.0	.079	45	30	52
In 31	WA1-NWN4035	1.3	.051	2.0	.079	45	30	60
In 32	WA1-NWN4975	1.3	.051	2.0	.079	45	35R1	56
In 33	WA1-NWN4033	1.3	.051	2.0	.079	45	37	52
In 34	WA1-NWN1141	1.4	.055	1.0	.039	45	25	60
In 35	WA1-NWN4036	1.4	.055	1.0	.039	45	30	60
In 36	WA1-NWN1142	1.4	.055	1.4	.055	45	25	60
In 37	WA1-NWN4093	1.4	.055	2.0	.079	45	30	60
In 38	WA1-NWN4109	1.5	.059	1.0	.039	45	15	60
In 39	WA1-NWN4094	1.5	.059	1.0	.039	45	30	60
In 40	WA1-NWN4982	1.5	.059	1.2	.047	45	38	52
In 41	WA1-NWN4978	1.5	.059	1.3	.051	45	30	75
In 42	WA1-NWN4261	1.5	.059	1.4	.055	45	15	60
In 43	WA1-NWN4993	1.5	.059	1.4	.055	45	20	75
In 44	WA1-NWN4241	1.5	.059	1.4	.055	45	25	52
In 45	WA1-NWN4003	1.5	.059	1.4	.055	45	25	60
In 46	WA1-NWN4216	1.5	.059	1.4	.055	45	30	60
In 47	WA1-NWN4025	1.5	.059	1.8	.071	45	15	60
In 48	WA1-NWN4077	1.5	.059	1.8	.071	45	30	52
In 49	WA1-NWN4038	1.5	.059	1.8	.071	45	30	60
In 50	WA1-NWN4037	1.5	.059	1.8	.071	45	37	52
In 51	WA1-NWN4015	1.5	.059	2.0	.079	45	15	60
In 52	WA1-NWN4177	1.5	.059	2.0	.079	45	30	60
In 53	WA1-NWN4986	1.5	.059	3.0	.118	45	30	60
In 54	WA1-NWN1161	1.6	.063	1.0	.039	45	25	60
In 55	WA1-NWN4039	1.6	.063	1.0	.039	45	30	60
In 56	WA1-NWN4135	1.6	.063	1.2	.047	45	30	52



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45°

	NEWEN REFERENCE	A = Seat Width		B = Top Width		α	α1	α2
		mm	in	mm	in	Seat Angle	Top Angle	Throat Angle
In 1	WA1-NWN4136	1.6	.063	1.2	.047	45	30	60
In 2	WA1-NWN4391	1.6	.063	1.4	.055	45	30	60
In 3	WA1-NWN1162	1.6	.063	1.4	.055	45	25	60
In 4	WA1-NWN4481	1.6	.063	1.6	.063	45	15	60
In 5	WA1-NWN4482	1.6	.063	1.6	.063	45	30	52
In 6	WA1-NWN1163	1.6	.063	1.8	.071	45	25	60
In 7	WA1-NWN4361	1.6	.063	1.8	.071	45	30	52
In 8	WA1-NWN4117	1.6	.063	2.0	.079	45	15	60
In 9	WA1-NWN4266	1.6	.063	2.0	.079	45	30	52
In 10	WA1-NWN4040	1.6	.063	2.0	.079	45	30	60
In 11	WA1-NWN4258	1.6	.063	3.0	.055	45	30	60
In 12	WA1-NWN4479	1.7	.067	1.8	.071	45	32	55
In 13	WA1-NWN4007	1.8	.071	1.0	.039	45	30	60
In 14	WA1-NWN4041	1.8	.071	1.6	.063	45	30	60
In 15	WA1-NWN4483	1.8	.071	3.0	.118	45	30	60
In 16	WA1-NWN4145	1.9	.075	0.8	.032	45	30	52
In 17	WA1-NWN4299	1.9	.075	1.2	.047	45	30	52
In 18	WA1-NWN4306	1.9	.075	1.2	.047	45	30	60
In 19	WA1-NWN4169	1.9	.075	1.4	.055	45	30	60
In 20	WA1-NWN4339	1.9	.075	1.6	.063	45	30	60
In 21	WA1-NWN4271	1.9	.075	1.8	.071	45	25	52
In 22	WA1-NWN4146	1.9	.075	1.8	.071	45	30	52
In 23	WA1-NWN4484	1.9	.075	2.0	.079	45	30	52
In 24	WA1-NWN4042	1.9	.075	2.0	.079	45	30	60
In 25	WA1-NWN4012	2.0	.079	1.0	.039	45	15	60
In 26	WA1-NWN1201	2.0	.079	1.0	.039	45	25	60
In 27	WA1-NWN4043	2.0	.079	1.2	.047	45	30	60
In 28	WA1-NWN4987	2.0	.079	1.2	.047	45	38	52
In 29	WA1-NWN4988	2.0	.079	1.2	.047	45	38	65
In 30	WA1-NWN4989	2.0	.079	1.4	.055	45	15	60
In 31	WA1-NWN4990	2.0	.079	1.4	.055	45	20	75
In 32	WA1-NWN1202	2.0	.079	1.4	.055	45	25	60
In 33	WA1-NWN4328	2.0	.079	1.4	.055	45	30	60
In 34	WA1-NWN4006	2.0	.079	1.5	.059	45	30	60
In 35	WA1-NWN4991	2.0	.079	1.6	.063	45	30	60
In 36	WA1-NWN4236	2.0	.079	1.6	.063	45	30	70
In 37	WA1-NWN4485	2.0	.079	1.6	.063	45	30	75
In 38	WA1-NWN4338	2.0	.079	1.78	.070	45	30	55
In 39	WA1-NWN1203	2.0	.079	1.8	.071	45	25	60
In 40	WA1-NWN4097	2.0	.079	2.0	.079	45	30	60
In 41	WA1-NWN4486	2.2	.087	0.6	.024	45	30	60
In 42	WA1-NWN4343	2.2	.087	2.0	.079	45	30	60
In 43	WA1-NWN4021	2.3	.091	1.0	.039	45	15	60
In 44	WA1-NWN4022	2.3	.091	1.8	.071	45	15	60
In 45	WA1-NWN4348	2.3	.091	2.0	.079	45	30	60
In 46	WA1-NWN4992	2.4	.094	1.3	.051	45	30	75
In 47	WA1-NWN1252	2.5	.098	1.4	.055	45	25	60
In 48	WA1-NWN1253	2.5	.098	1.8	.071	45	25	60
In 49	WA1-NWN4487	2.5	.098	2.0	.079	45	30	60
In 50	WA1-NWN1302	3.0	.118	1.4	.055	45	25	60
In 51	WA1-NWN1303	3.0	.118	1.8	.071	45	25	60
In 52								
In 53								
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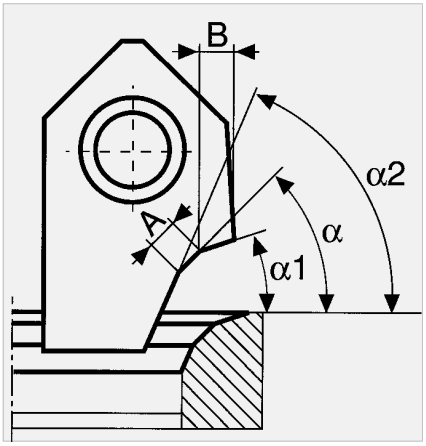

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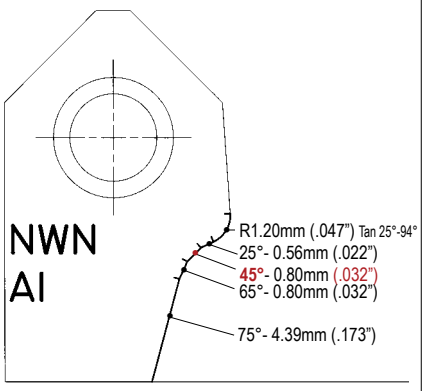

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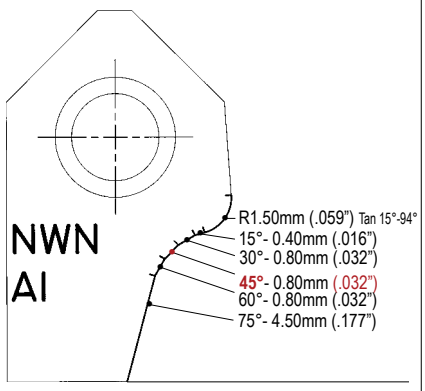

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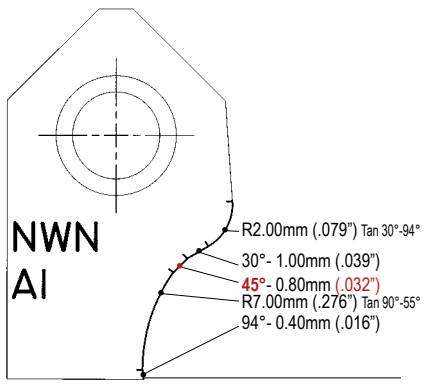

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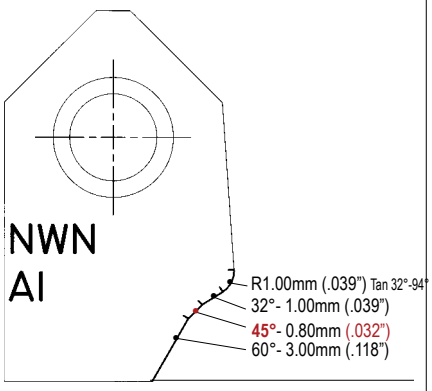

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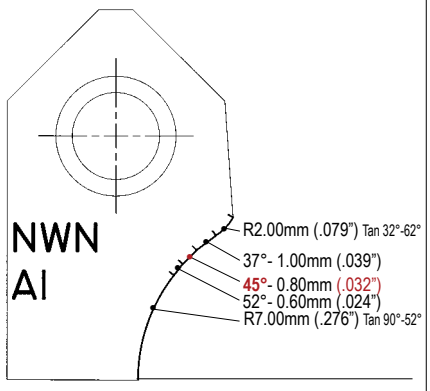

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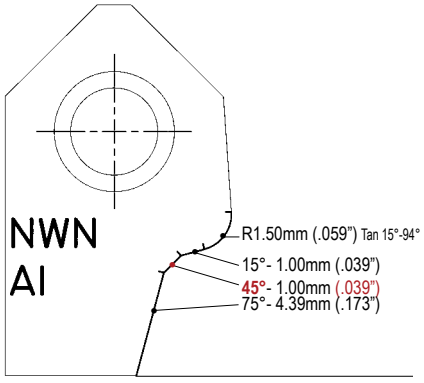

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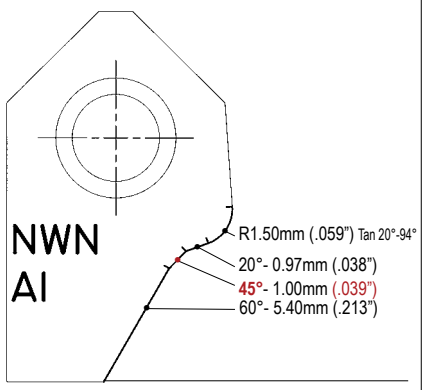

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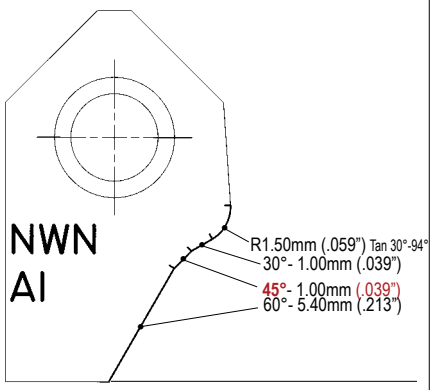

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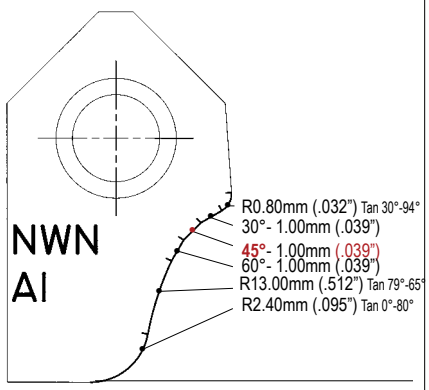

WA1-NWN5118

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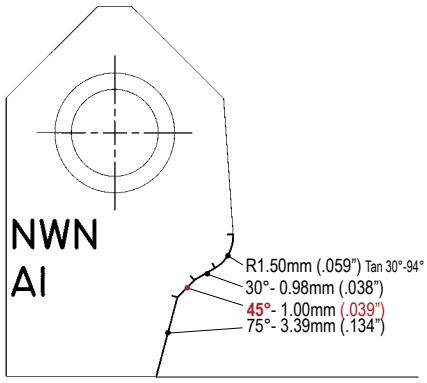
10



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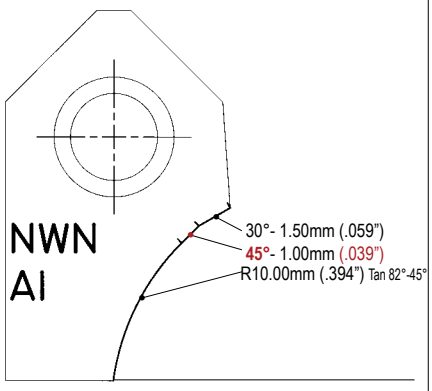

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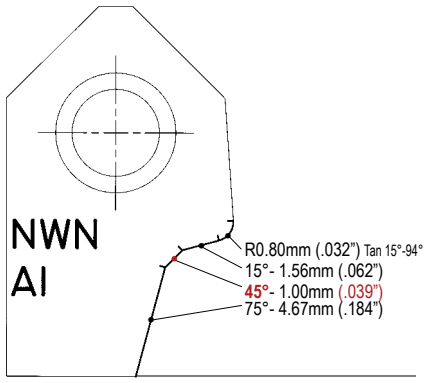
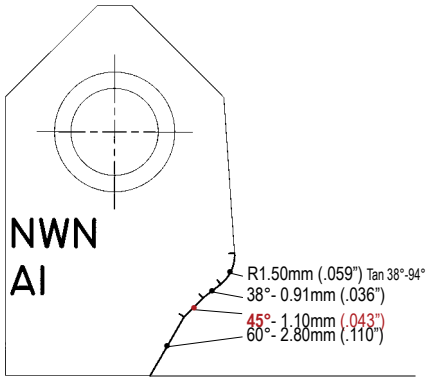


WA1-NWN5122

13



WA1-NWN4498

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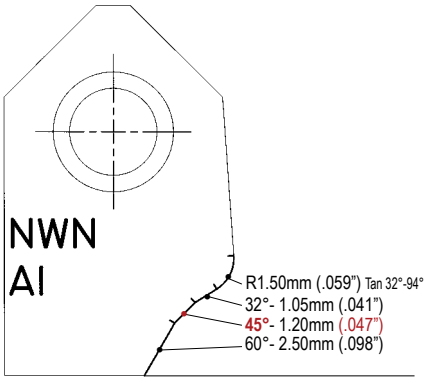

WA1-NWN4497

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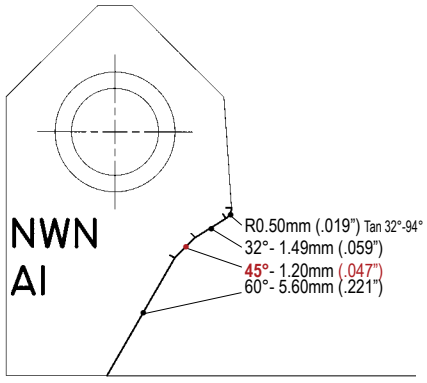

WA1-NWN4247

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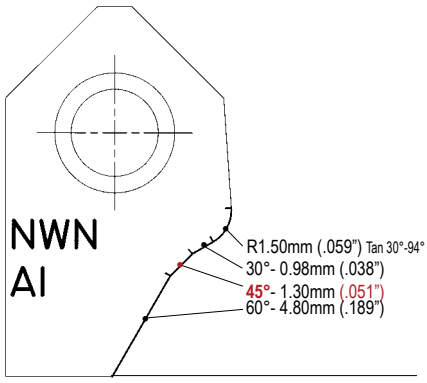
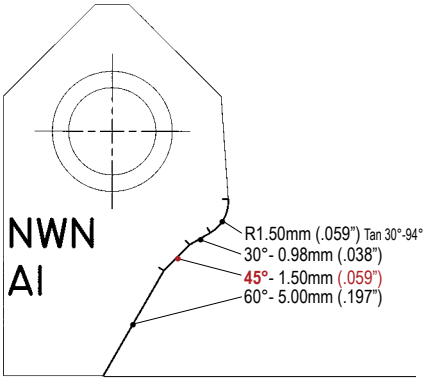


WA1-NWN5449

17



WA1-NWN5436

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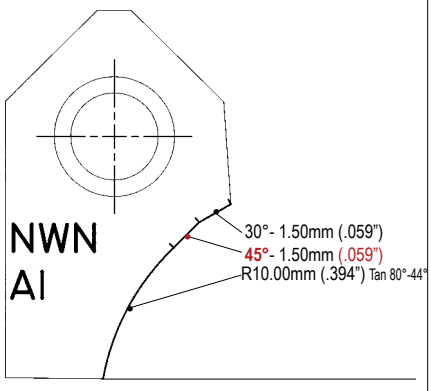

WA1-NWN5119

45.5°...

	NEWEN REFERENCE	A = Seat Width		B = Top Width		α	α1	α2
		mm	in	mm	in	Seat Angle	Top Angle	Throat Angle
In 1	WA1-NWN5185	1.5	.059	1.5	.059	45.5	2	75
In 2								
In 3								
In 4								
In 5	WA1-NWN4603	1.2	.047	1.2	.047	46	30	55
In 6	WA1-NWN4601	1.6	.063	0.8	.031	46	35	55
In 7	WA1-NWN4604	1.9	.075	1.2	.047	46	30	52
In 8	WA1-NWN4602	2.2	.087	0.8	.031	46	30	55
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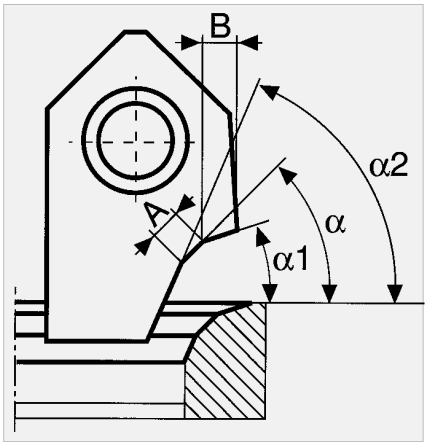

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20°

	NEWEN REFERENCE	A = Seat Width		B = Top Width		α	α1	α2
		mm	in	mm	in	Seat Angle	Top Angle	Throat Angle
In 1	Z6A1-NWN5183	2.0	.079	1.8	.071	20	00	60
In 2	Z6A1-NWN2133	2.0	.079	2.0	.079	20	00	75
In 3	Z6A1-NWN2327	2.0	.079	2.0	.079	20	05	45
In 4	Z6A1-NWN2266	2.3	.091	2.0	.079	20	10	75
In 5	Z6A1-NWN5022	2.5	.098	1.8	.071	20	00	60
In 6	Z6A1-NWN2200	2.5	.098	2.0	.079	20	05	75
In 7	Z6A1-NWN4599	2.5	.098	3.0	.118	20.25	15	60
In 8	Z6A1-NWN5116	2.66	.105	2.8	.110	20.15	15	60
In 9	Z6B1-NWN60182	3.0	.118	1.5	.059	20	15	60
In 10	Z6A1-NWN5205	3.2	.126	N/A	N/A	20	N/A	60
In 11	Z6A1-NWN2402	3.2	.126	2.0	.079	20	05	45
In 12	Z6A1-NWN2091	3.8	.150	1.8	.071	20	11	45
In 13								
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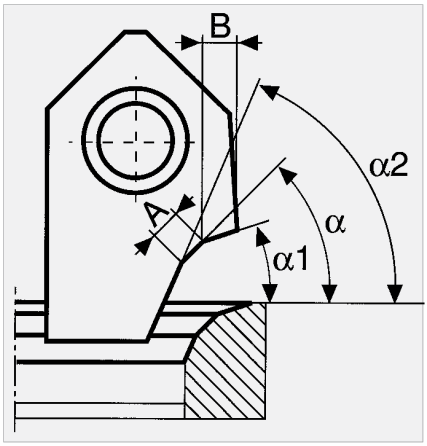

30°

	NEWEN REFERENCE	A = Seat Width		B = Top Width		α	α1	α2
		mm	in	mm	in	Seat Angle	Top Angle	Throat Angle
In 1	WA1-NWN2102	1.0	.039	1.4	.055	30	15	60
In 2	WA1-NWN4999	1.0	.039	1.4	.055	30	23	52
In 3	WA1-NWN3062	1.0	.039	1.6	.063	30	20	52
In 4	WA1-NWN2103	1.0	.039	1.8	.071	30	15	60
In 5	WA1-NWN2000	1.0	.039	2.5	.098	30	15	60
In 6	WA1-NWN3245	1.2	.047	1.0	.039	30	15	60
In 7	WA1-NWN3023	1.3	.051	1.0	.039	30	15	45
In 8	WA1-NWN3065	1.3	.051	2.0	.079	30	15	45
In 9	WA1-NWN3061	1.3	.051	2.0	.079	30	15	60
In 10	WA1-NWN3068	1.5	.059	1.4	.055	30	15	45
In 11	WA1-NWN2152	1.5	.059	1.4	.055	30	15	60
In 12	WA1-NWN4998	1.5	.059	1.4	.055	30	23	52
In 13	WA1-NWN3064	1.5	.059	1.8	.071	30	15	45
In 14	WA1-NWN3016	1.5	.059	1.8	.071	30	15	52
In 15	WA1-NWN2153	1.5	.059	1.8	.071	30	15	60
In 16	WA1-NWN3024	1.5	.059	2.0	.079	30	0	60
In 17	WA1-NWN3200	1.5	.059	2.0	.079	30	15	60
In 18	WA1-NWN3025	1.5	.059	3.0	.118	30	20	60
In 19	WA1-NWN3078	1.6	.063	1.2	.047	30	15	45
In 20	WA1-NWN3194	1.6	.063	1.8	.071	30	15	45
In 21	WA1-NWN3195	1.6	.063	1.8	.071	30	15	52
In 22	WA1-NWN3026	1.6	.063	2.0	.079	30	15	45
In 23	WA1-NWN3067	1.6	.063	2.0	.079	30	15	60
In 24	WA1-NWN4997	1.6	.063	2.2	.087	30	15	60
In 25	WA1-NWN3027	1.8	.071	1.4	.055	30	15	60
In 26	WA1-NWN3146	1.8	.071	2.0	.079	30	15	45
In 27	WA1-NWN3072	1.9	.075	1.0	.039	30	15	45
In 28	WA1-NWN3010	1.9	.075	1.8	.071	30	15	60
In 29	WA1-NWN3029	1.9	.075	2.0	.079	30	15	60
In 30	WA1-NWN3196	2.0	.079	1.2	.047	30	15	45
In 31	WA1-NWN2202	2.0	.079	1.4	.055	30	15	60
In 32	WA1-NWN4995	2.0	.079	1.4	.055	30	23	52
In 33	WA1-NWN2203	2.0	.079	1.8	.071	30	15	60
In 34	WA1-NWN4996	2.0	.079	1.9	.075	30	15	60
In 35	WA1-NWN3084	2.0	.079	2.0	.079	30	15	45
In 36	WA1-NWN3198	2.2	.087	2.0	.079	30	15	60
In 37	WA1-NWN3226	2.4	.095	1.4	.055	30	15	70
In 38	WA1-NWN2252	2.5	.098	1.4	.055	30	15	60
In 39	WA1-NWN2253	2.5	.098	1.8	.071	30	15	60
In 40	WA1-NWN3032	2.5	.098	2.0	.079	30	15	60
In 41	WA1-NWN2254	2.5	.098	2.2	.087	30	15	60
In 42	WA1-NWN3031	2.8	.110	2.0	.079	30	0	60
In 43	WA1-NWN2302	3.0	.118	1.4	.055	30	15	60
In 44	WA1-NWN3199	3.8	.150	3.0	.118	30	20	45
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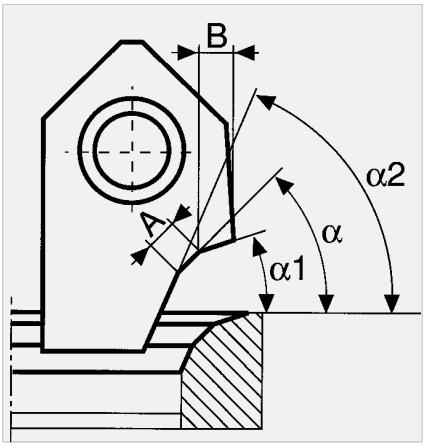

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30.5°...

	NEWEN REFERENCE	A = Seat Width		B = Top Width		α	α1	α2
		mm	in	mm	in	Seat Angle	Top Angle	Throat Angle
In 1	WA1-NWN5457			2.5	.098	30.5		75
In 2	WA1-NWN5364	1.5	.059	1.5	.059	30.5	2	75
In 3								
In 4								
In 5	WA1-NWN5362	1.2	.047	1.4	.055	31	15	60
In 6	WA1-NWN5280	1.5	.059	1.4	.055	31	11	60
In 7	WA1-NWN5158	1.5	.059	1.5	.059	31	2	75
In 8	WA1-NWN5363	2.1	.083	2.0	.079	31	2	60
In 9								
In 10								
In 11								
In 12	WA1-NWN4994	1.5	.059	1.4	.055	37.5	25	75
In 13	WA1-NWN5414	1.6	.063	1.4	.055	37.5	30	60
In 14	WA1-NWN5415	1.6	.063	2.0	.079	37.5	30	60
In 15	WA1-NWN5006	1.8	.071	1.2	.047	37.5	20	52
In 16	WA1-NWN5416	1.9	.075	1.4	.055	37.5	30	60
In 17	WA1-NWN5417	2.0	.079	2.0	.079	37.5	30	60
In 18	WA1-NWN5251			2.0	.079	37.5		75
In 19	WA1-NWN5418	2.1	.083	0.6	.024	37.5	18	52
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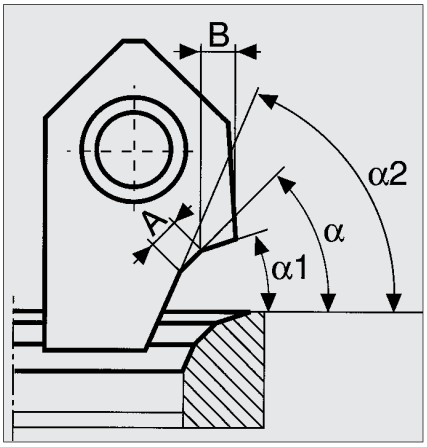
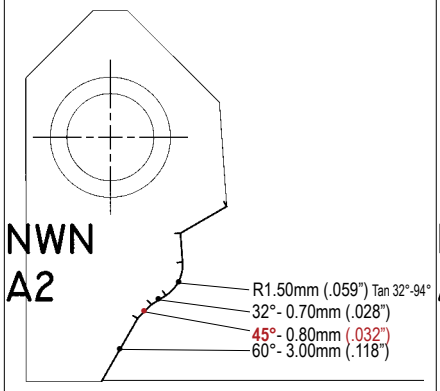


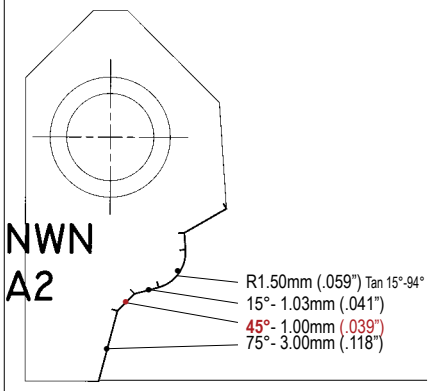
NEWEN DIRECT

19



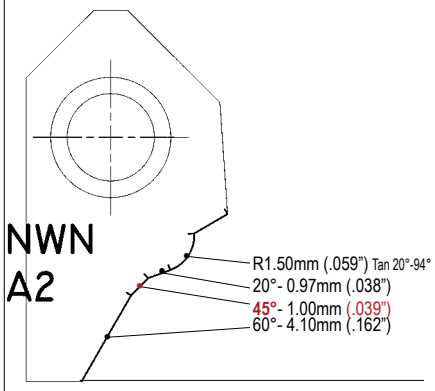
WA2-NWN4496

20



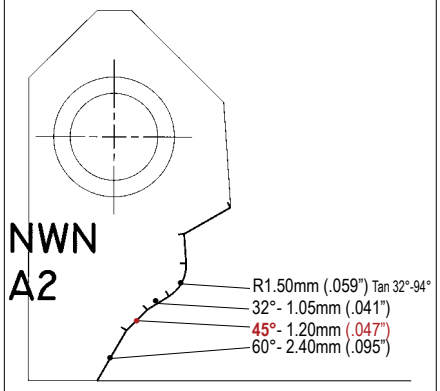
WA2-NWN5448

21



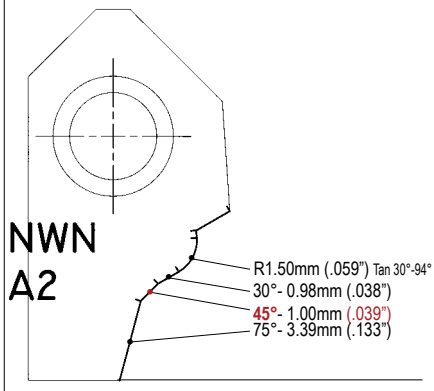
WA2-NWN5442

22



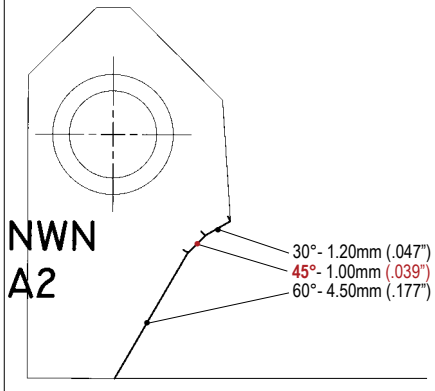
WA2-NWN4497

23



WA2-NWN5439

24



WA2-NWN4028

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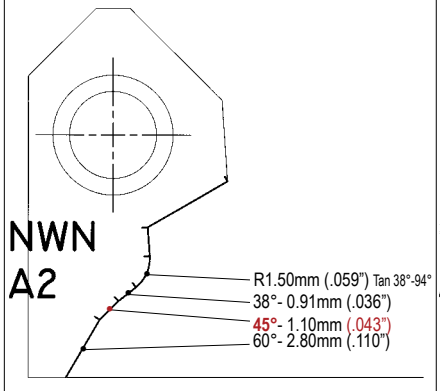
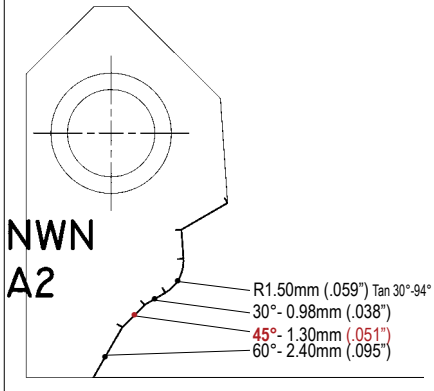


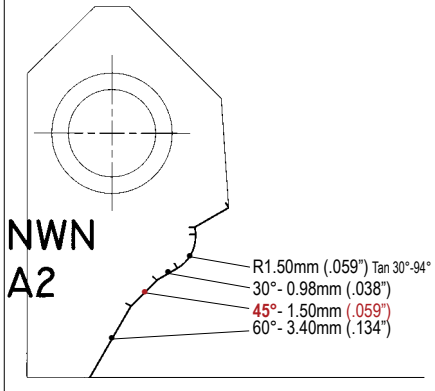
WA2-NWN4498

26



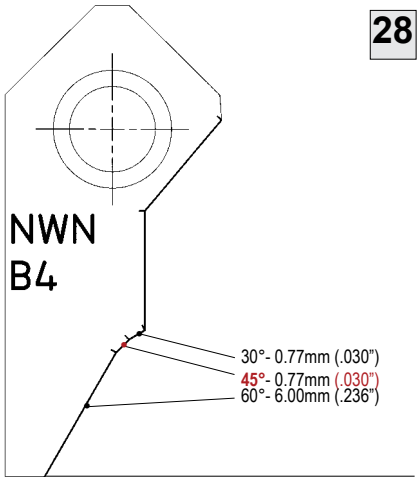
WA2-NWN5449

27



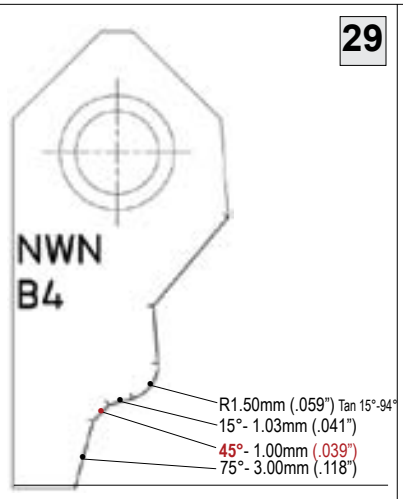
WA2-NWN5436

28



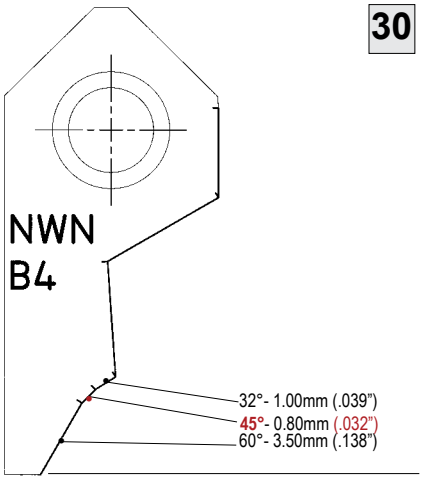
WB4-NWN268

29



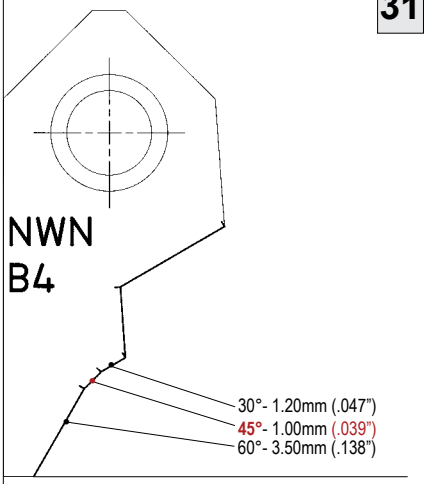
WB4-NWN60252

30



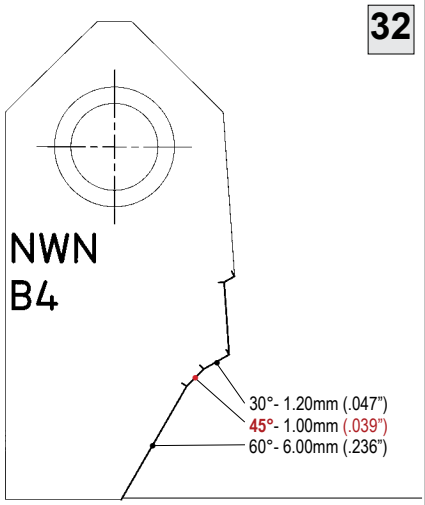
WB4-NWN215

31



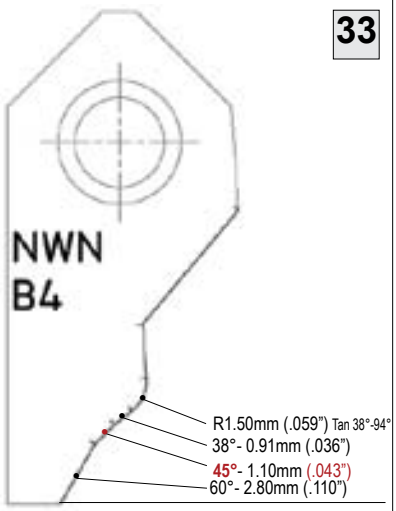
WB4-NWN4028

32



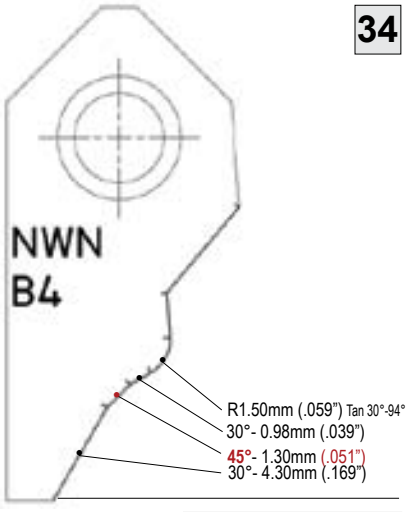
WB4-NWN536

33



WB4-NWN60253

34



WB4-NWN60251

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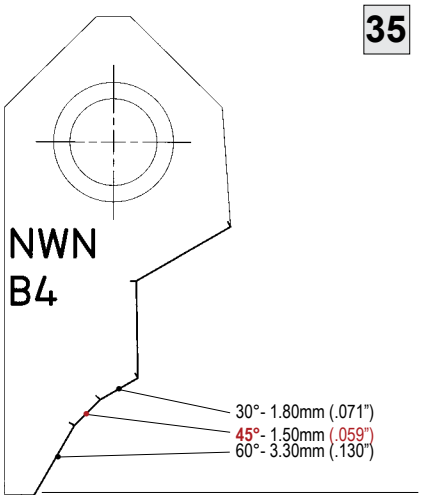

WB4-NWN4038

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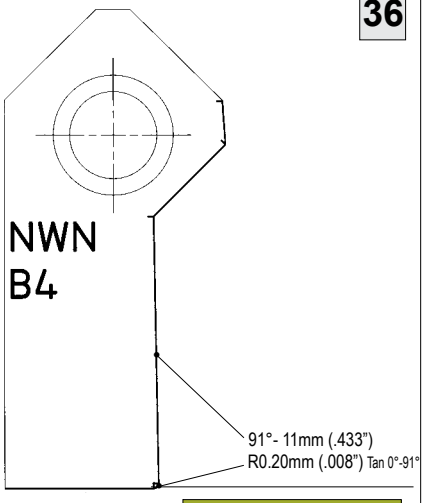
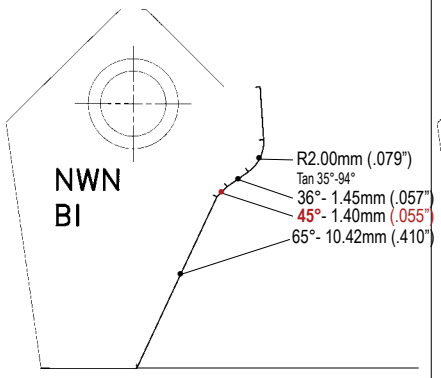


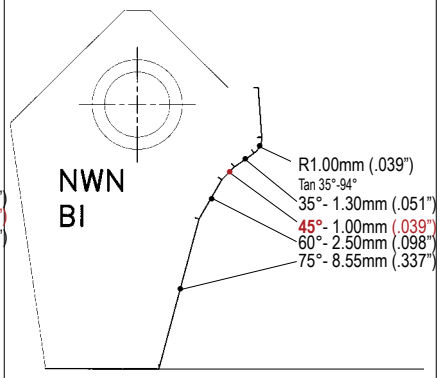
WB4-NWN90-20

37



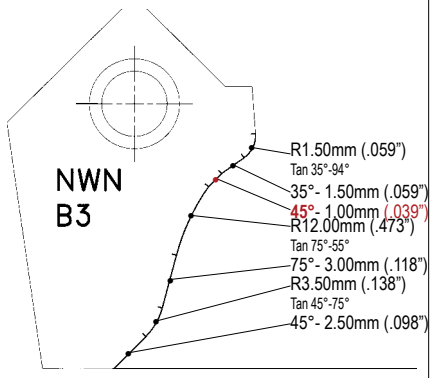
WB1-NWN079

38



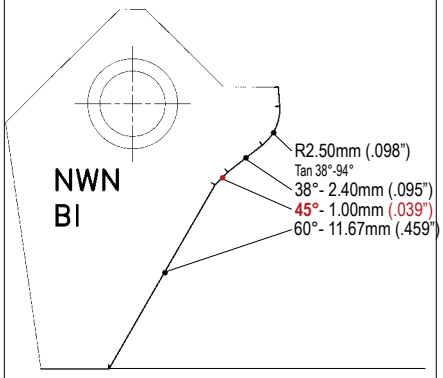
WB1-NWN069

39



WB3-NWN005

40



WB1-NWN068

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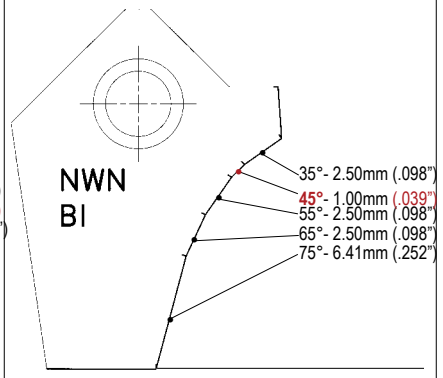

WB1-NWN073

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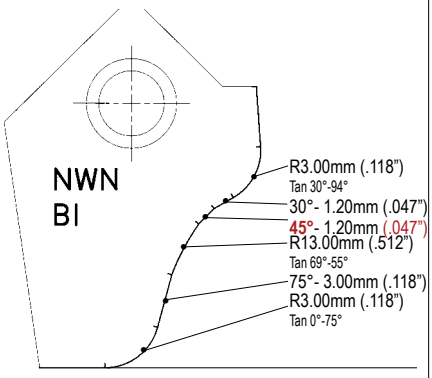

WB1-NWN078

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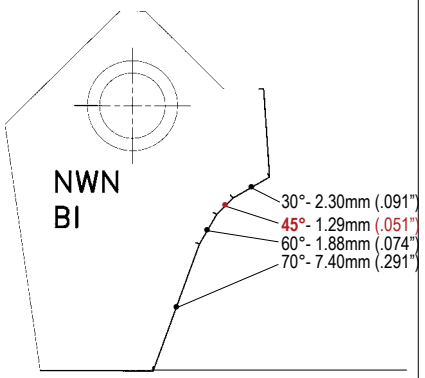
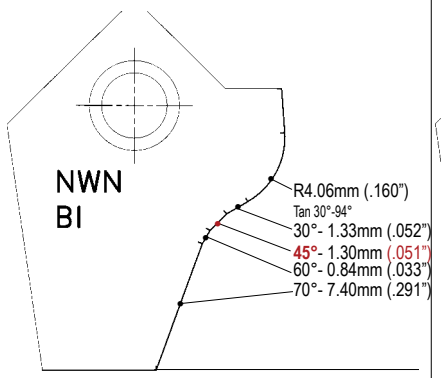


WB1-NWN470

44



WB1-NWN537

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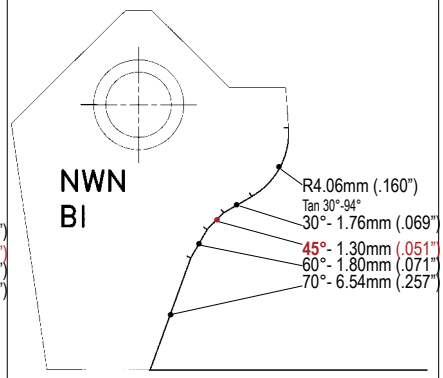

WB1-NWN547

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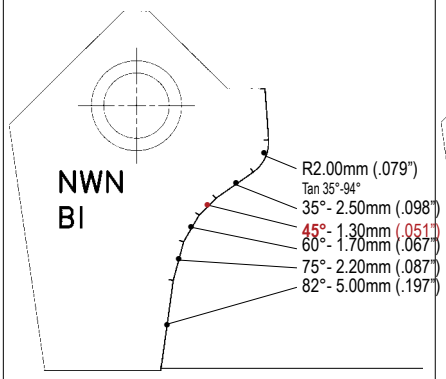
46



WB1-NWN072

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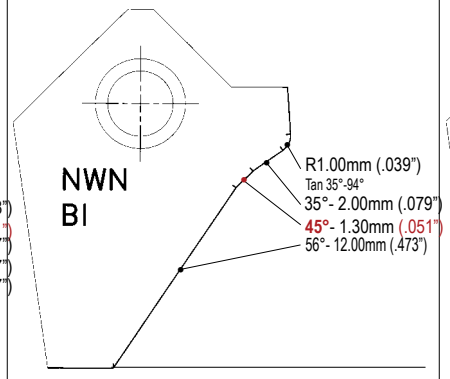

WB1-NWN081

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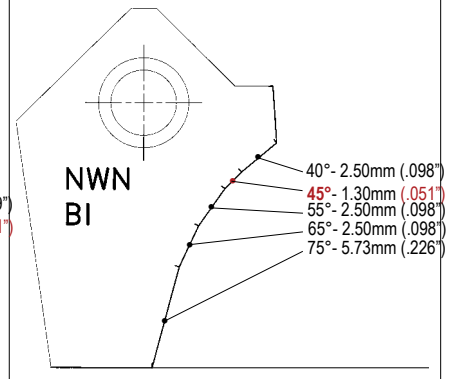

WB1-NWN074

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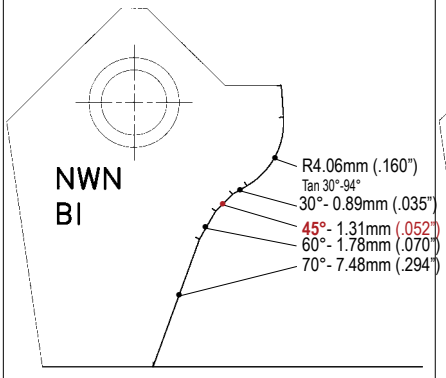

WB1-NWN546

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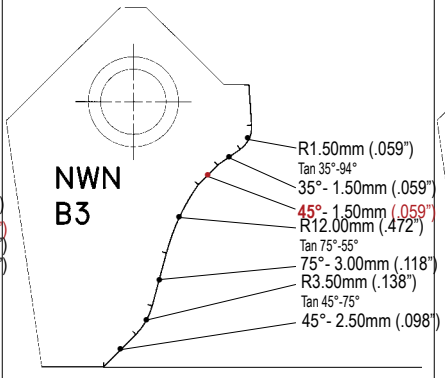

WB3-NWN003

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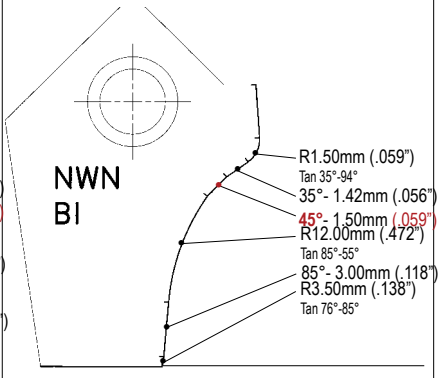

WB1-NWN076

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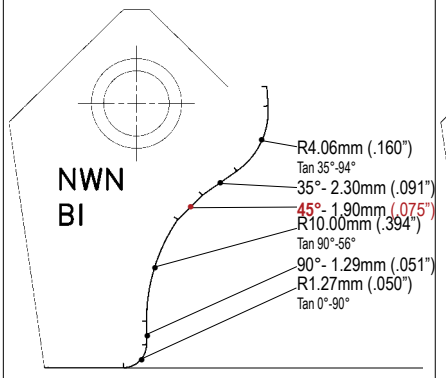

WB1-NWN390

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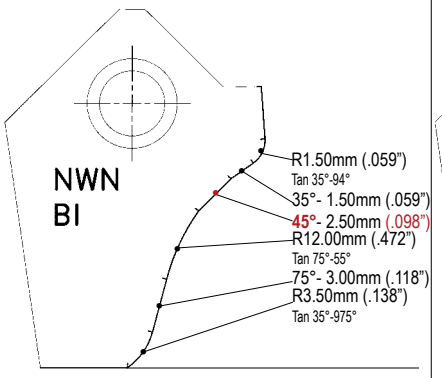

WB1-NWN083

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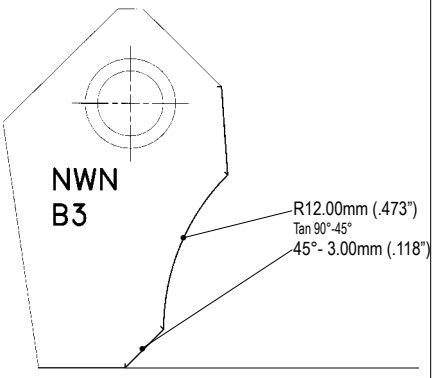

WB3-NWN084

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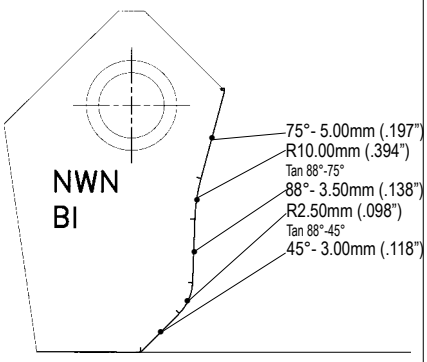

WB1-NWN557

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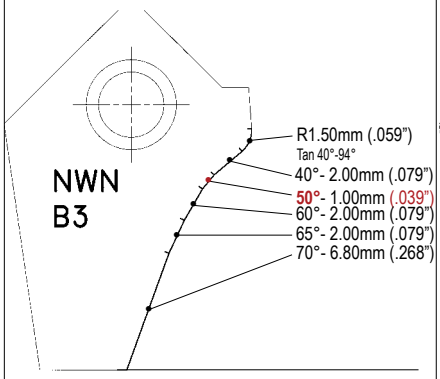

WB3-NWN928

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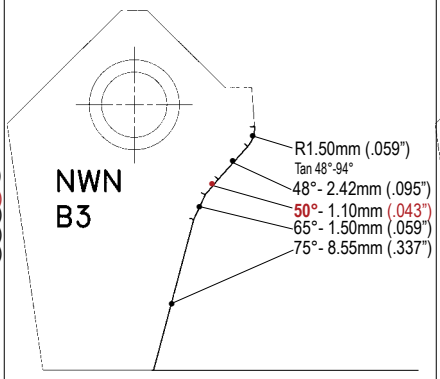

WB3-NWN60057

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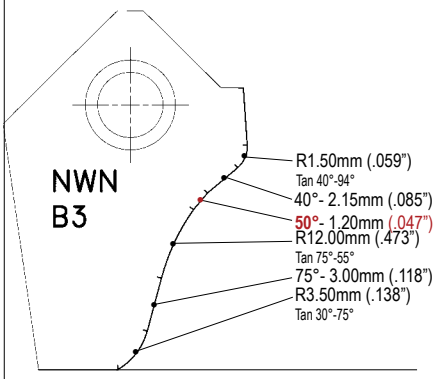

WB3-NWN988

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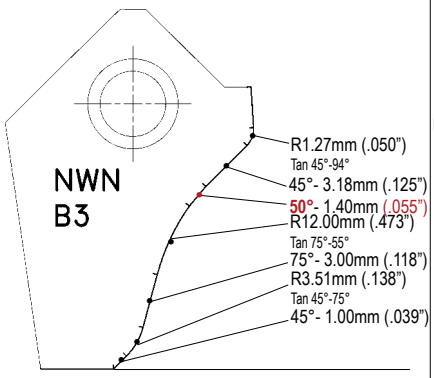

WB3-NWN957

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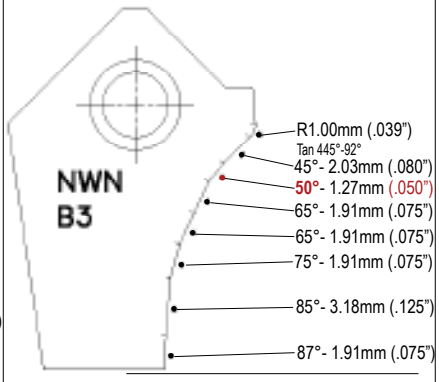

WB3-NWN985

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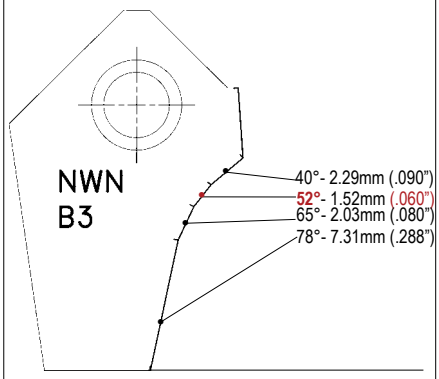
52°

61



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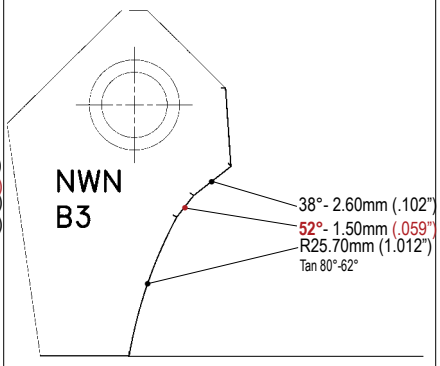

WB3-NWN60100

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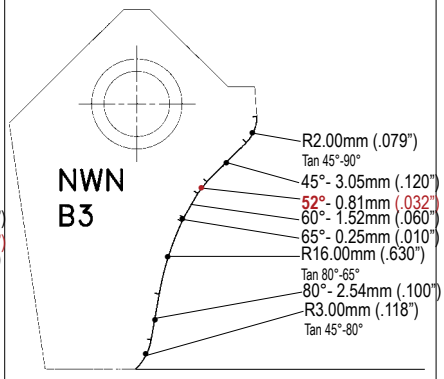

WB3-NWN870

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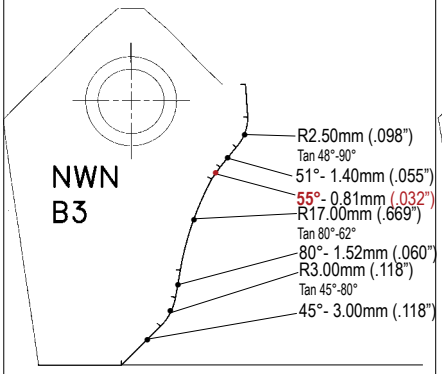
64



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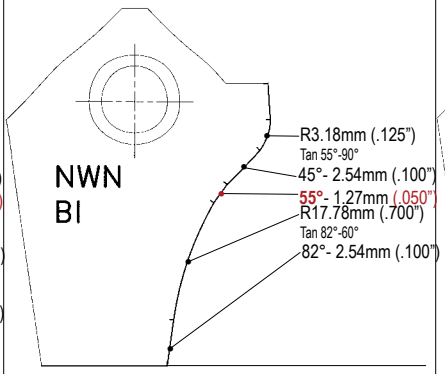

WB1-NWN802

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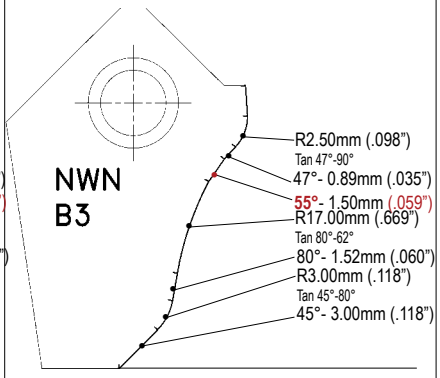

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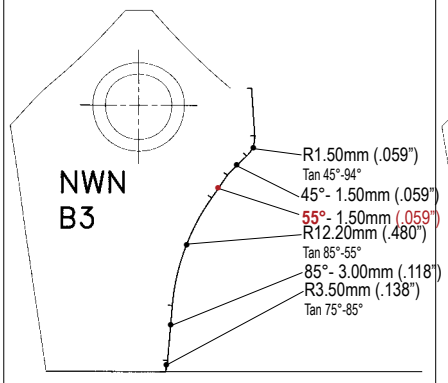
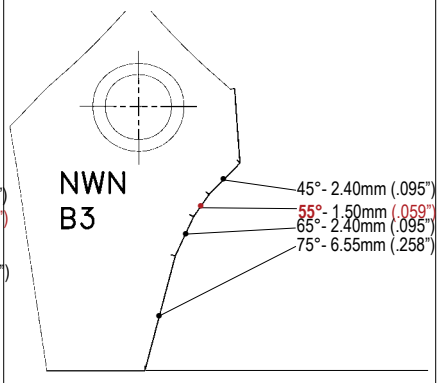


WB3-NWN60009

68



WB3-NWN60045

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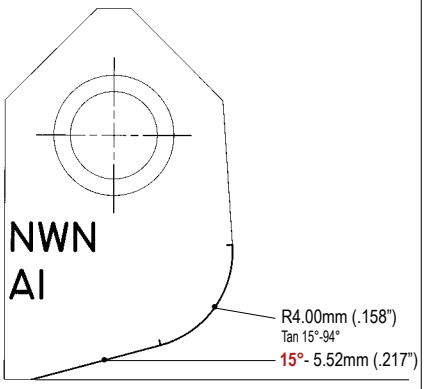
69



WA1-NWN5121

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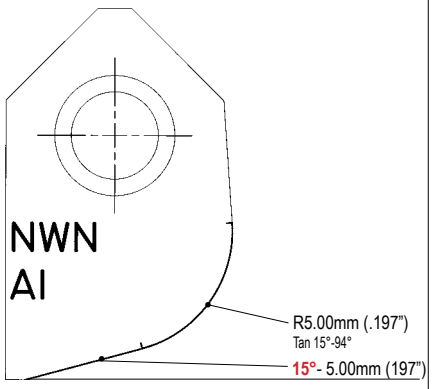

WA1-NWN5428

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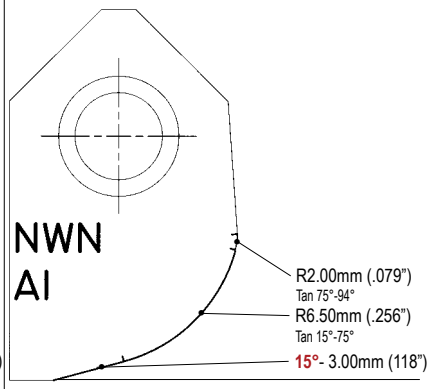

WA1-NWN2002

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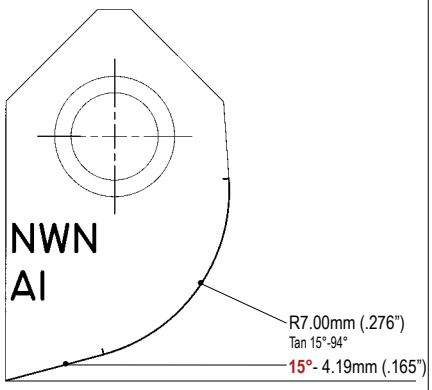

WA1-NWN5429

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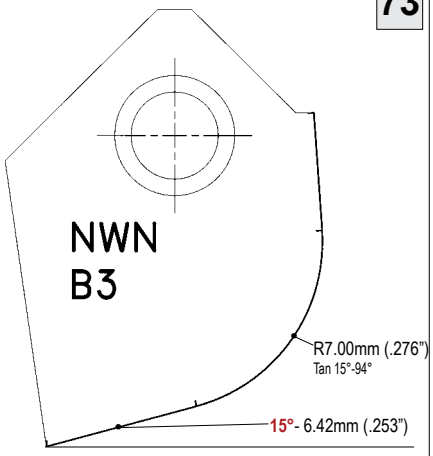

WB1-NWN077

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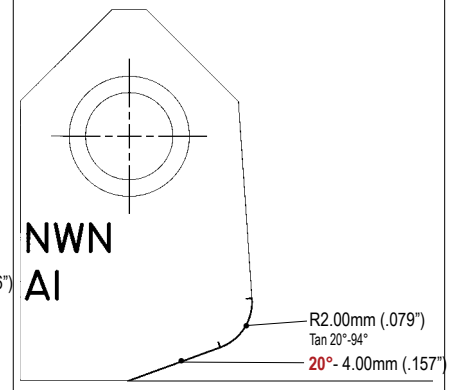

WA1-NWN2003

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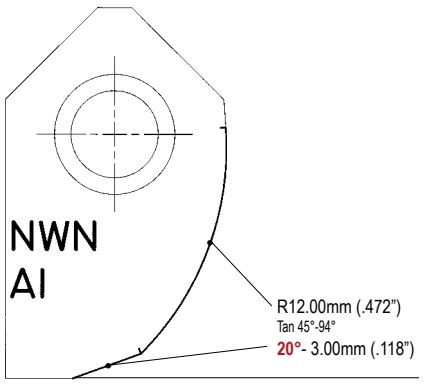

WA1-NWN2004

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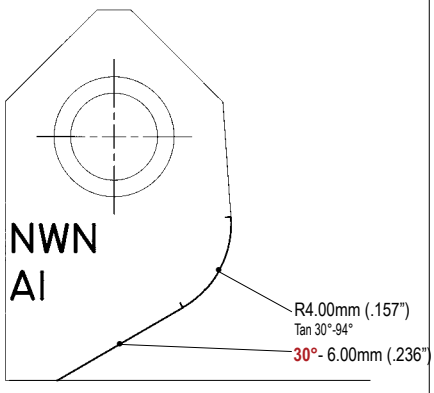

WA1-NWN5168

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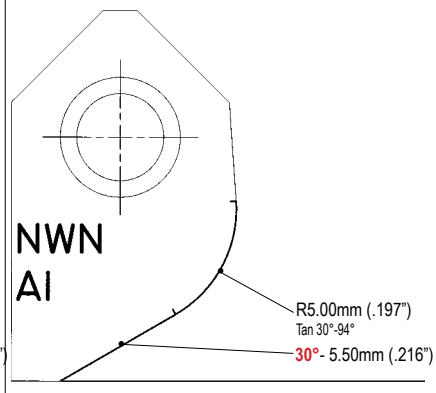

WA1-NWN5079

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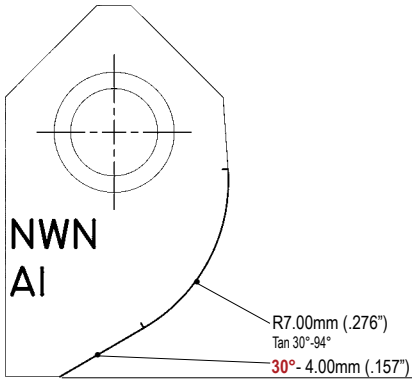

WA1-NWN5430

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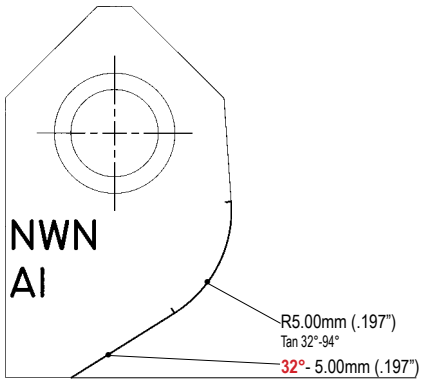

WA1-NWN2005

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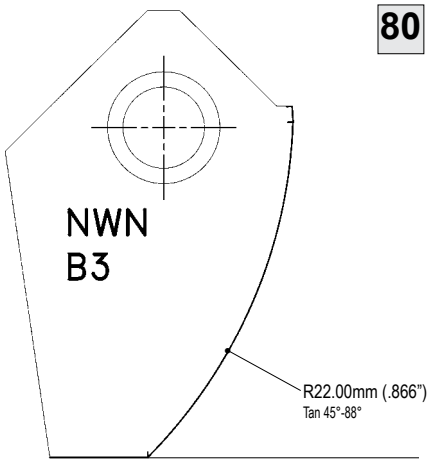
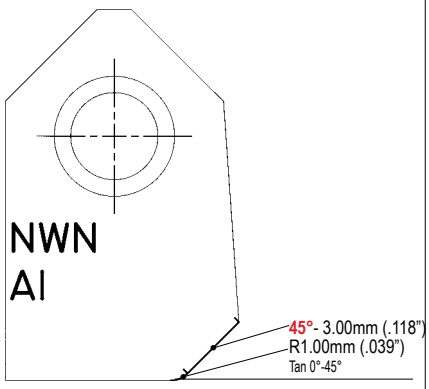


WB3-NWN690

81



WA1-NWN2007

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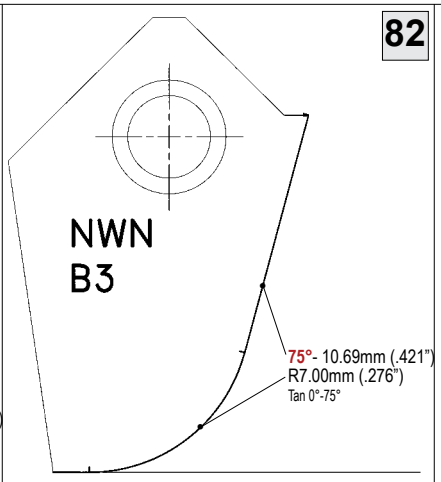

WB3-NWN002

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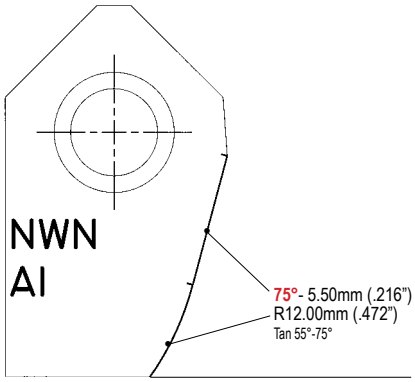

WA1-NWN2008

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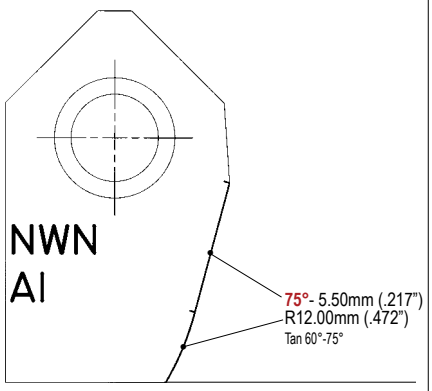

WA1-NWN2009

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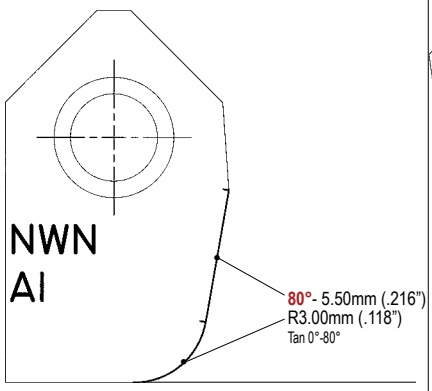
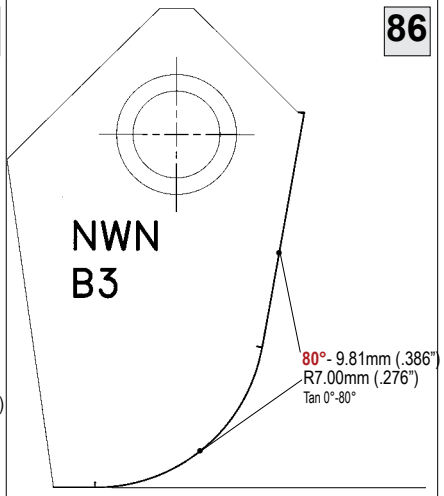


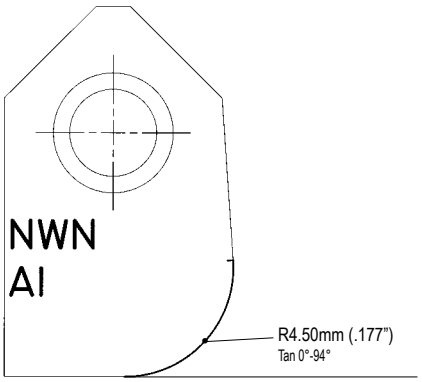
WA1-NWN2010

86



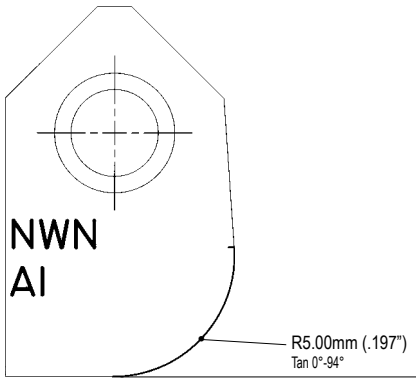
WB3-NWN033

87



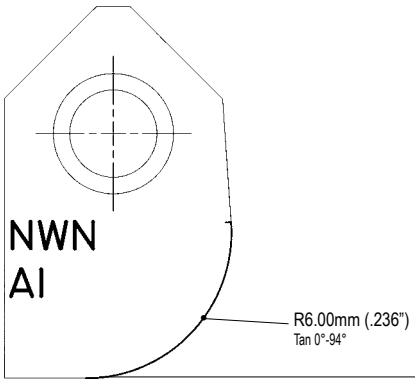
WA1-NWN21045

88



WA1-NWN21050

89



WA1-NWN2011

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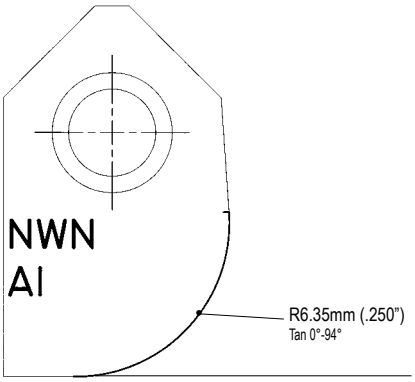
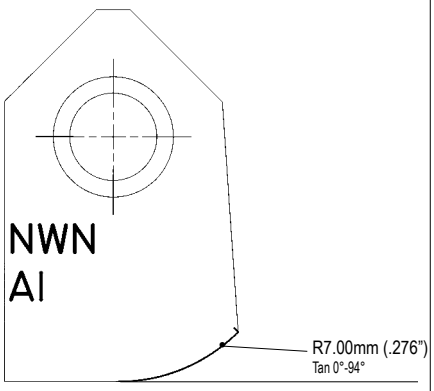


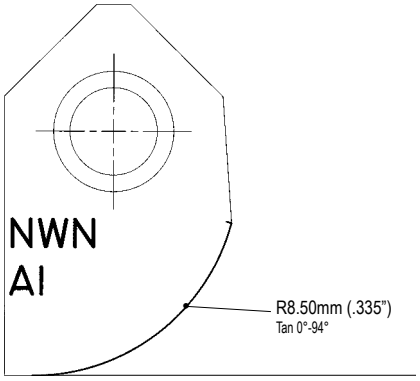
WA1-NWN2012

91



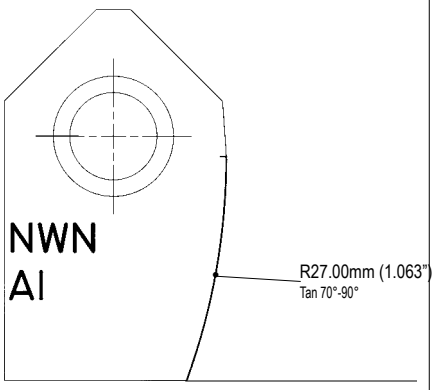
WA1-NWN2013

92



WA1-NWN2014

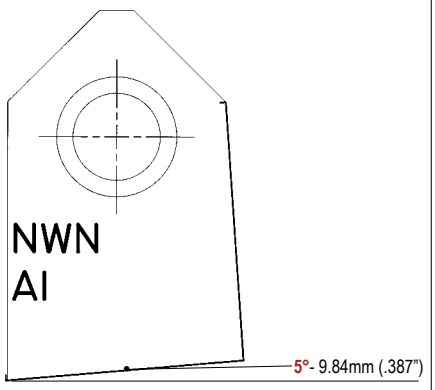
93



WA1-NWN2015

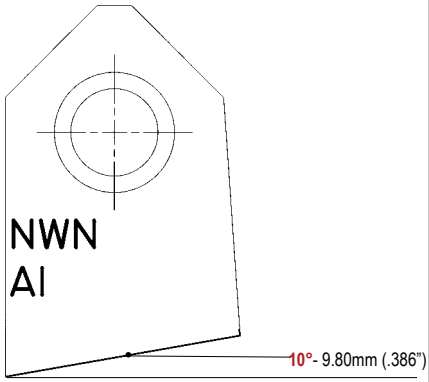
NEWEN DIRECT

94



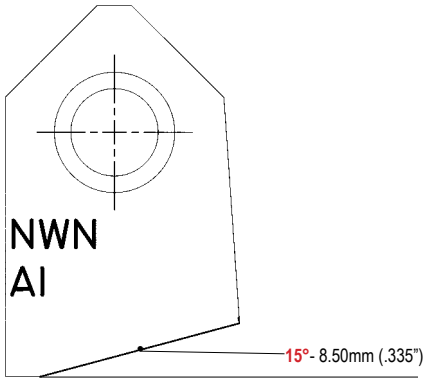
WA1-NWN5

95



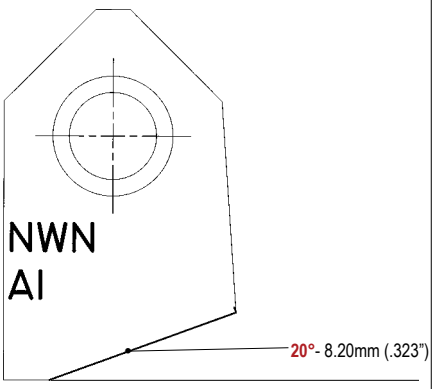
WA1-NWN10

96



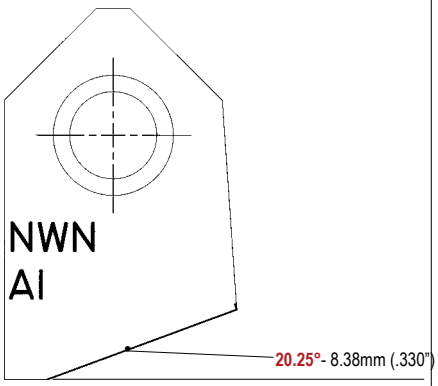
WA1-NWN15

97



WA1-NWN20

98



WA1-NWN20C

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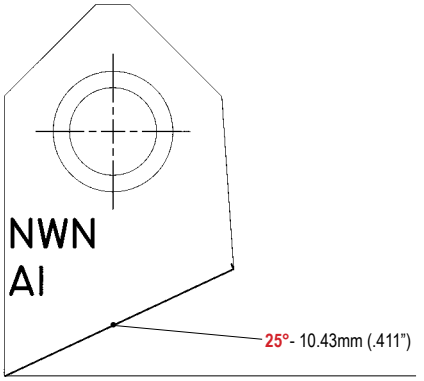
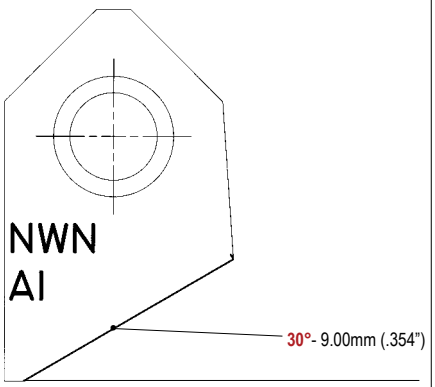


WA1-NWN25

100



WA1-NWN30

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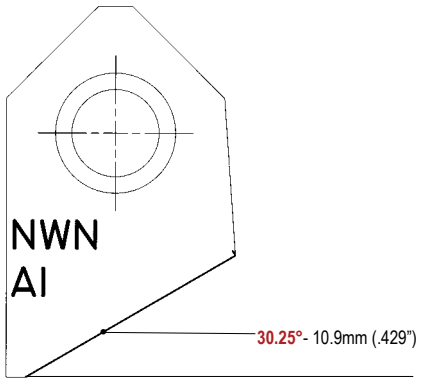

WA1-NWN30C

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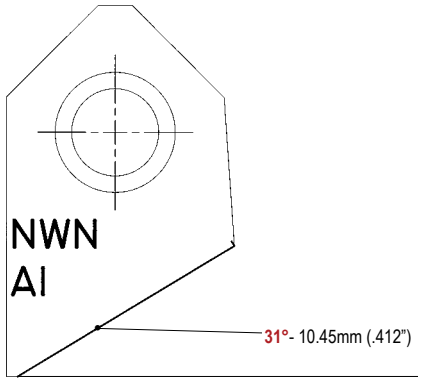

WA1-NWN31

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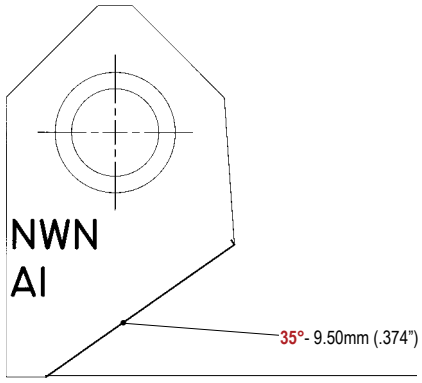
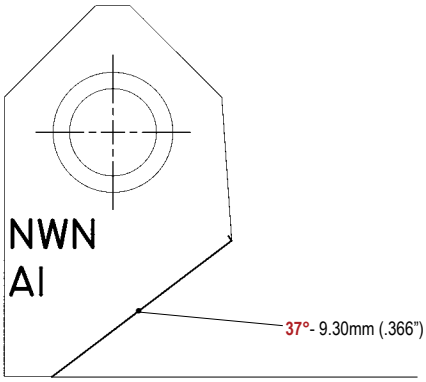


WA1-NWN35

104



WA1-NWN37

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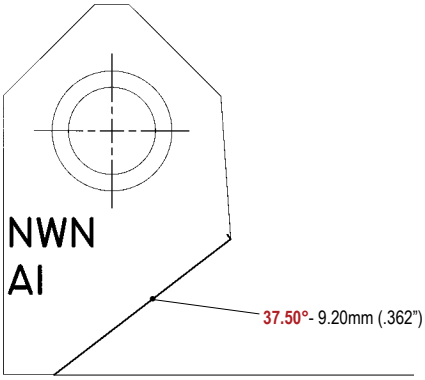

WA1-NWN37D

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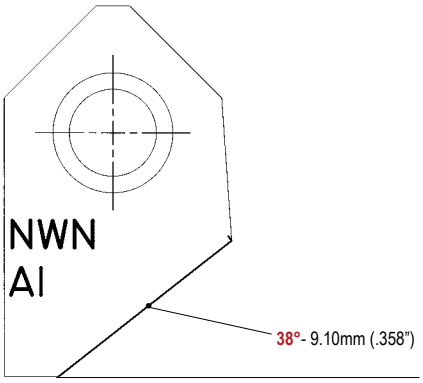

WA1-NWN38

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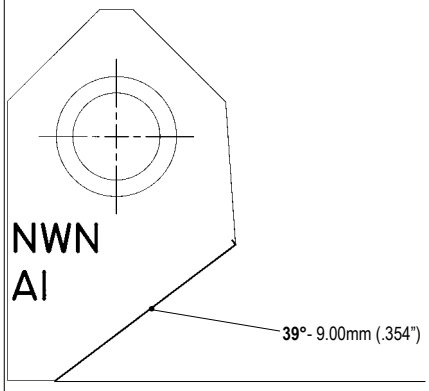

WA1-NWN39

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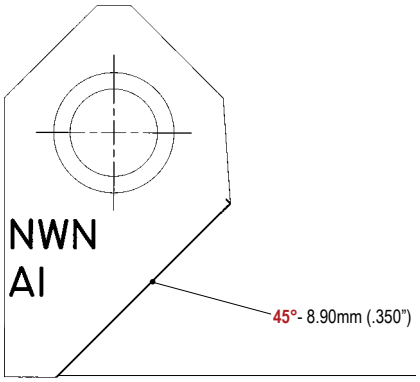

WA1-NWN45

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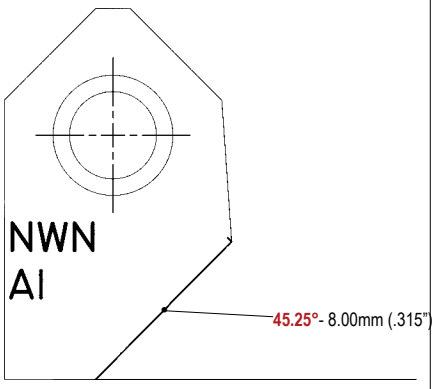

WA1-NWN4888

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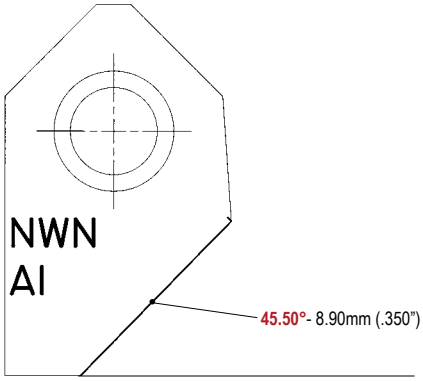

WA1-NWN45C

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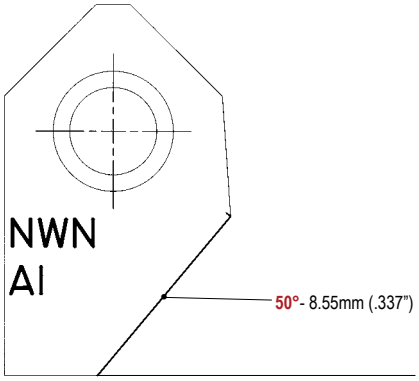

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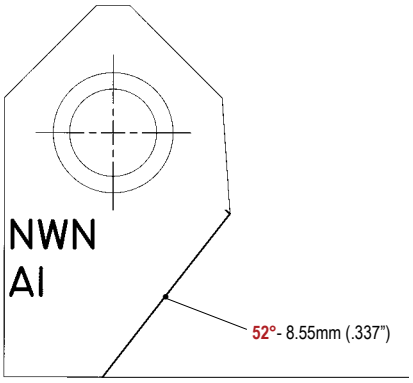
112



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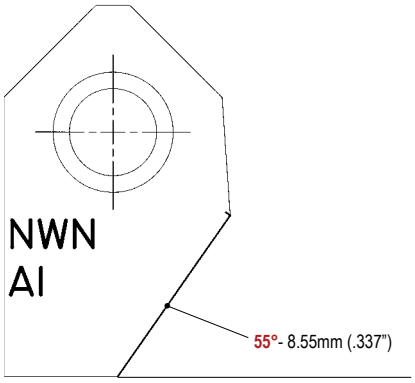
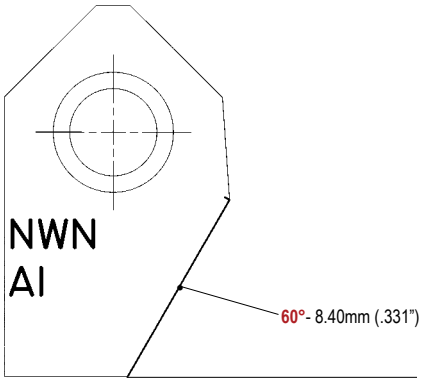


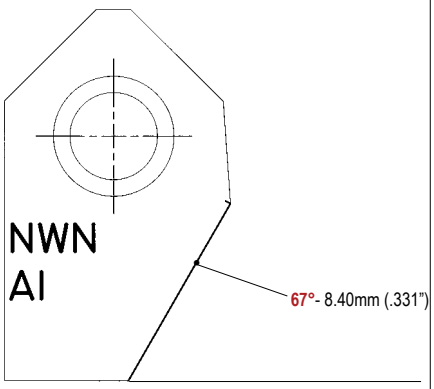
WA1-NWN55

114



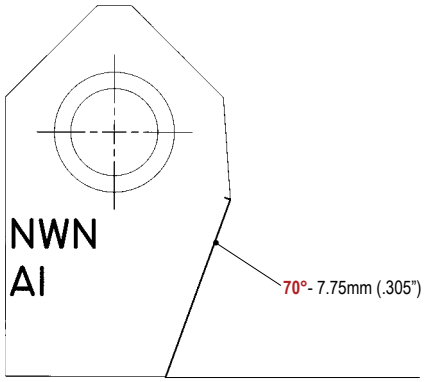
WA1-NWN60

115



WA1-NWN67

116



WA1-NWN70

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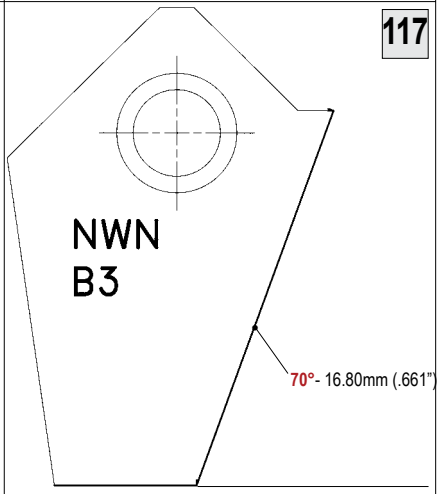
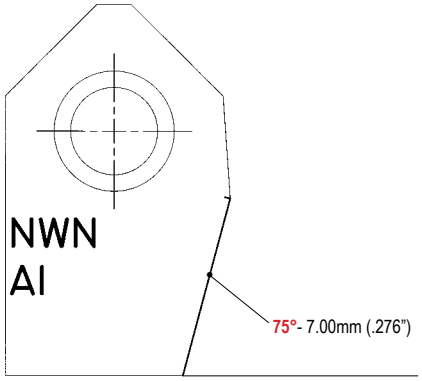


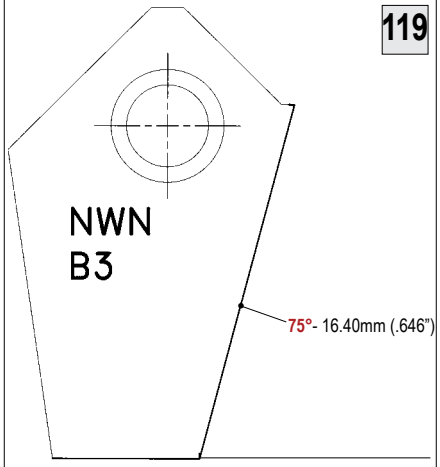
WB3-NWN070

118



WA1-NWN75

119



WB3-NWN085

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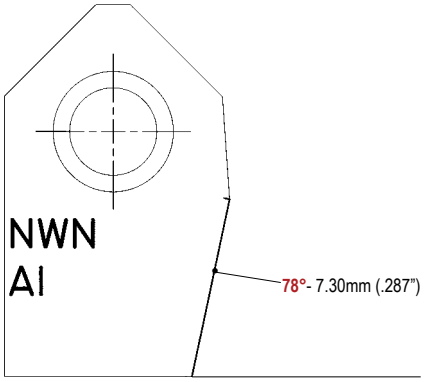

WA1-NWN78

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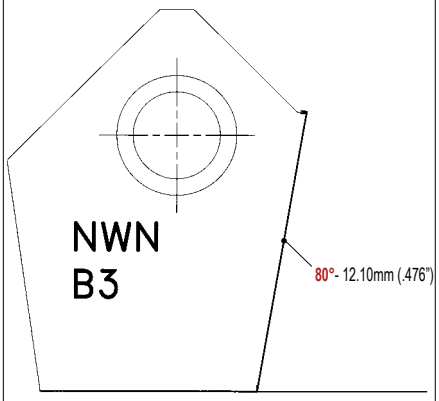
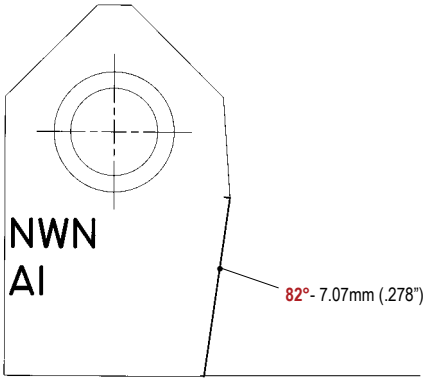


WB3-NWN080

122



WA1-NWN82

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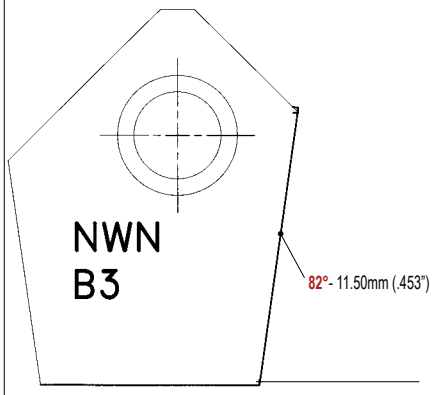

WB3-NWN082

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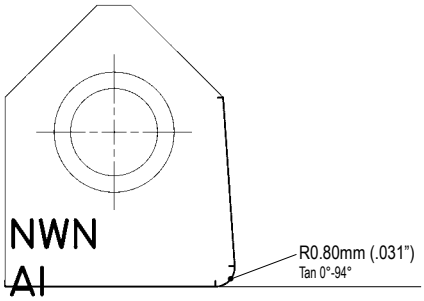
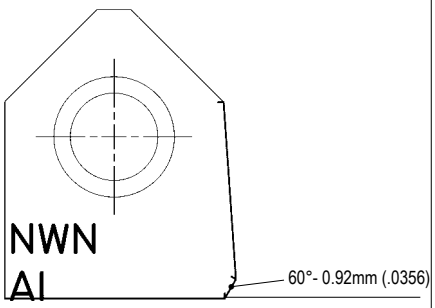


• Nose Radius best for Aluminum applications

WA1-NWN90-12

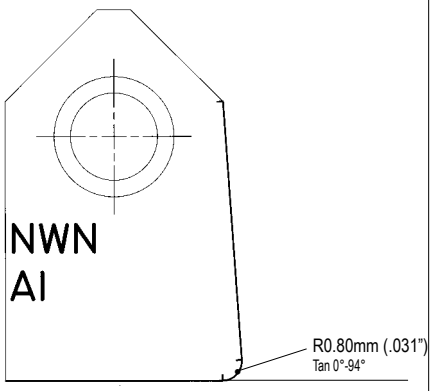
125



• Chamfer best for Cast Iron applications

WA1-NWN91-12

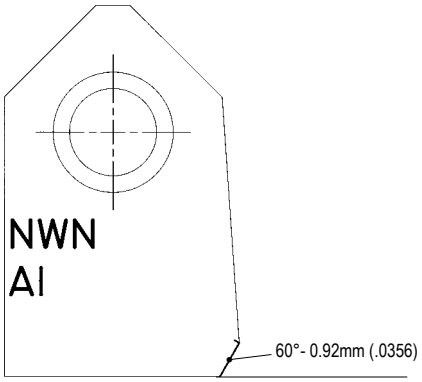
126



• Nose Radius best for Aluminum applications

WA1-NWN90-16

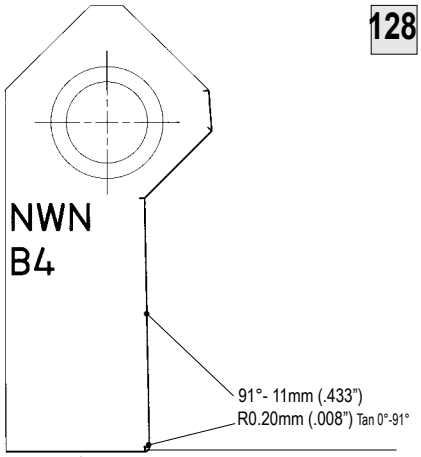
127



• Chamfer best for Cast Iron applications

WA1-NWN91-16

128



WB4-NWN90-20

NEWEN® DIRECT

NWN-HP

NEWEN® **High Performance** carbide form tip package (7 carbide form tips). Includes one each of the following carbide form tip:

WA1-NWN5118, WA1-NWN5119, WA1-NWN5120, WA1-NWN5121, WB3-NWN002, WB3-NWN003, WB3-NWN005.

NWN-JM

NEWEN® **Japanese Motorcycle** carbide form tip package (5 carbide form tips). Includes one each of the following carbide form tip:

WA1-NWN4183, WA1-NWN5043, WA1-NWN5122, WA1-NWN5442, WA1-NWN5439.

NWN-HD

NEWEN® **Harley Davidson** carbide form tip package (3 carbide form tips). Includes one each of the following carbide form tip:

WA1-NWN5043, WA1-NWN4093, WA1-NWN4247.

NWN-AD

NEWEN® **Automotive & Diesel** carbide form tip package (20 carbide form tips). Includes one each of the following carbide form tip:

WA1-NWN30, WA1-NWN45, WA1-NWN75, WA1-NWN90-16, WA1-NWN3023, WA1-NWN3026, WA1-NWN3072, WA1-NWN5006, WA1-NWN4028, WA1-NWN4221, WA1-NWN4033, WA1-NWN4035, WA1-NWN4038, WA1-NWN4037, WA1-NWN4136, WA1-NWN4040, WA1-NWN4146, WA1-NWN4042, WA1-NWN5457, WA1-NWN5121.

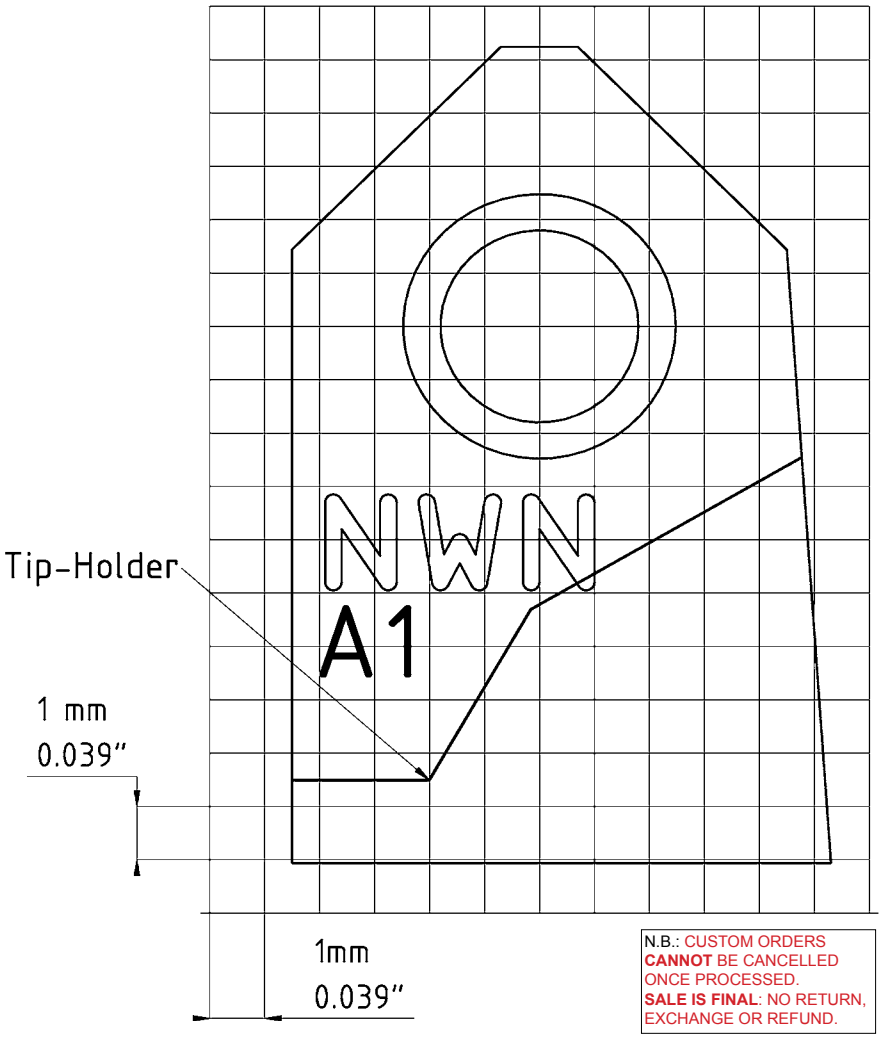
E-mail: contact@newen.com - **Website: www.newen.com**

From: _____ **Tel:** Country Code: _____ City Code: _____ _____

_____ **Fax:** Country Code: _____ City Code: _____ _____

_____ **Email:** _____

_____ **Website:** _____



Purchase Order No.:

Date:

Designed by:

Approved by:

Material:

Relief Angle:

Quantity:

Ship Via (UPS or Fedex): _____

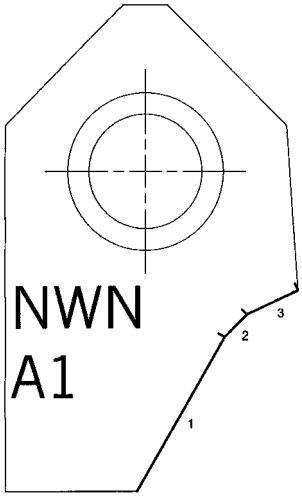
UPS/FEDEX ACCT. No.:

Shipper's identification No. for customs purposes (V.A.T., Importers No., R.F.C. No., etc...): _____

Ship To (if different from above): _____

N.B.: CUSTOM ORDERS **CANNOT** BE CANCELLED ONCE PROCESSED.
SALE IS FINAL: NO RETURN, EXCHANGE OR REFUND.

SEGMENT NO.	DELTA X mm or inch	LENGTH mm or inch	ANGLE degree	TAN (β1°)	TAN (β2°)	RADIUS mm or inch



From: _____ Tel: Country Code: _____ City Code: _____ _____

_____ Fax: Country Code: _____ City Code: _____ _____

_____ Email: _____

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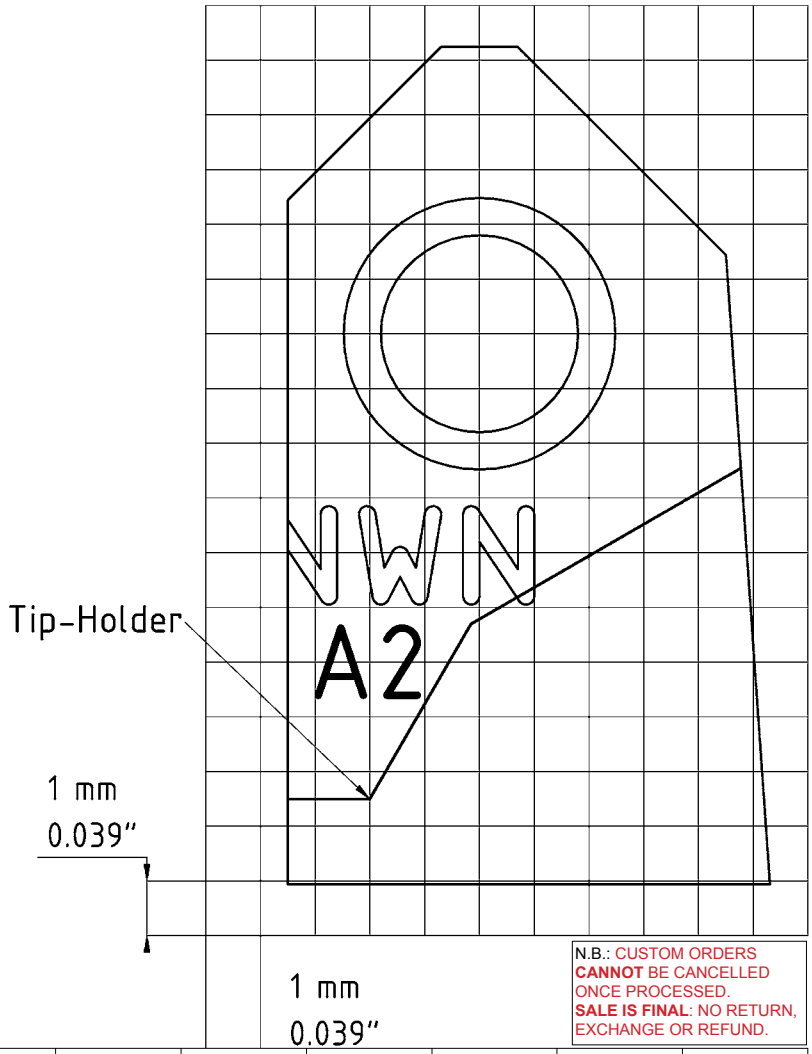

Purchase Order No.:

Date:

Designed by:

Approved by:

Material:

Relief Angle:

Quantity:

Ship Via (UPS or Fedex): _____

UPS/FEDEX ACCT. No.:

Shipper's identification No. for customs purposes (V.A.T., Importers No., R.F.C. No., etc...): _____

Ship To (if different from above): _____

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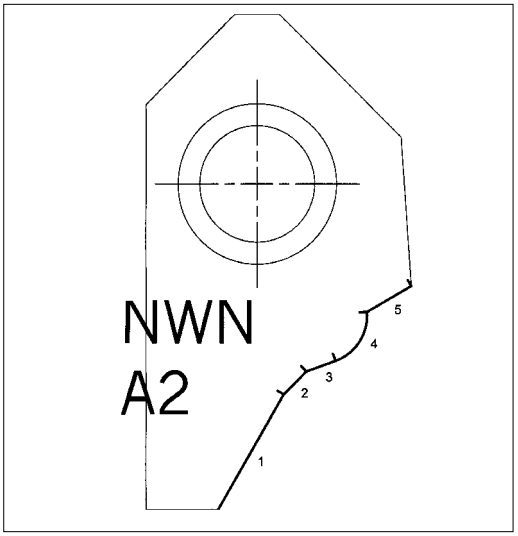
SEGMENT NO.	DELTA X mm or inch	LENGTH mm or inch	ANGLE degree	TAN (β1°)	TAN (β2°)	RADIUS mm or inch

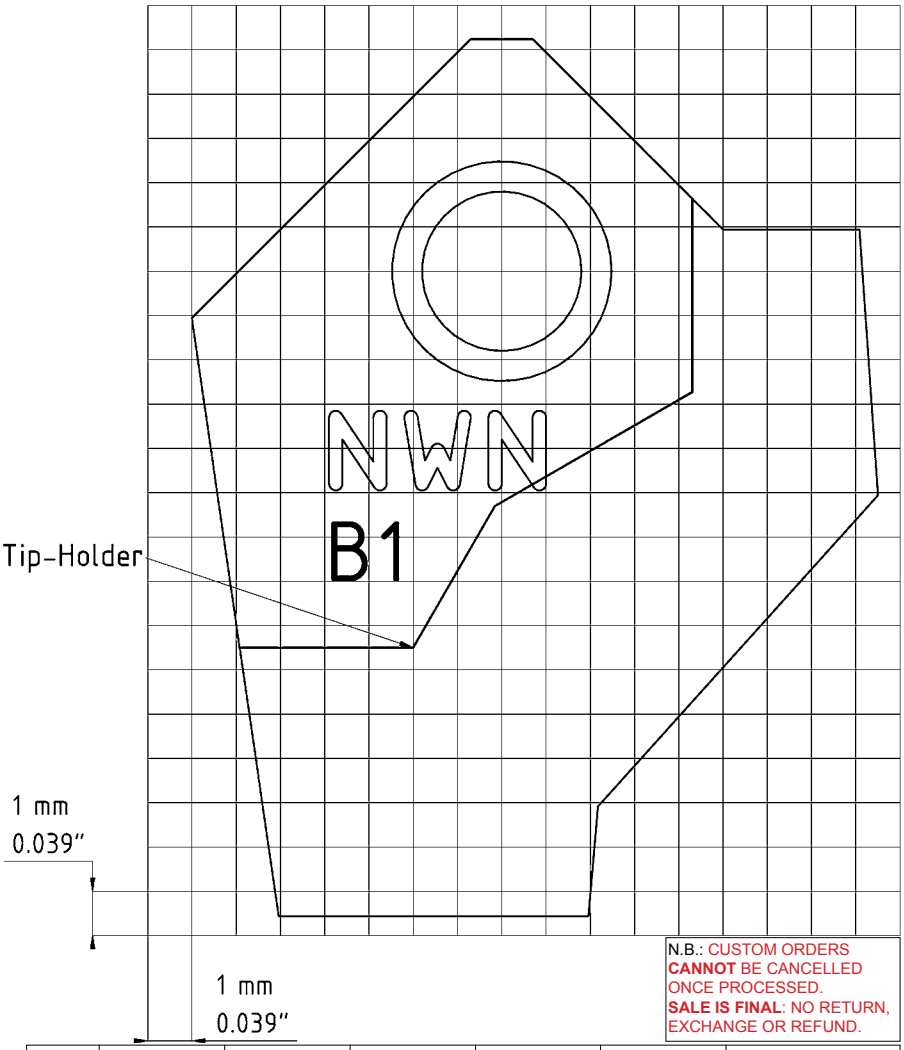


From: _____ Tel: Country Code: _____ City Code: _____ _____

_____ Fax: Country Code: _____ City Code: _____ _____

_____ Email: _____

_____ Website: _____



Purchase Order No.:

Date:

Designed by:

Approved by:

Material:

Relief Angle:

Quantity:

Ship Via (UPS or Fedex): _____

UPS/FEDEX ACCT. No.:

Shipper's identification No. for customs purposes (V.A.T., Importers No., R.F.C. No., etc...): _____

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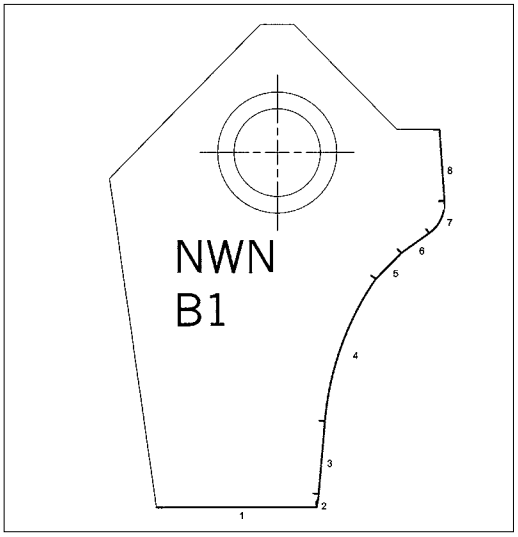
SEGMENT NO.	DELTA X mm or inch	LENGTH mm or inch	ANGLE degree	TAN (β1°)	TAN (β2°)	RADIUS mm or inch

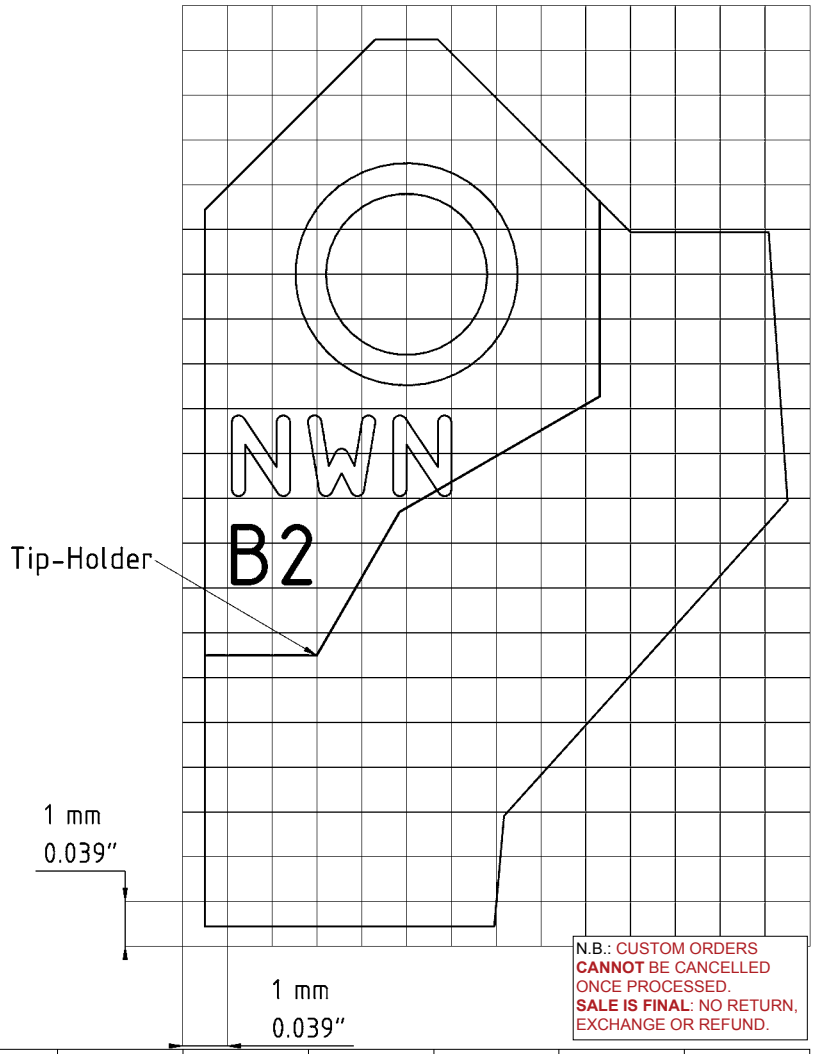


From: _____ **Tel:** Country Code: _____ City Code: _____ _____

_____ **Fax:** Country Code: _____ City Code: _____ _____

_____ **Email:** _____

_____ **Website:** _____



N.B.: CUSTOM ORDERS **CANNOT** BE CANCELLED ONCE PROCESSED.
SALE IS FINAL: NO RETURN, EXCHANGE OR REFUND.

Purchase Order No.:

Date:

Designed by:

Approved by:

Material:

Relief Angle:

Quantity:

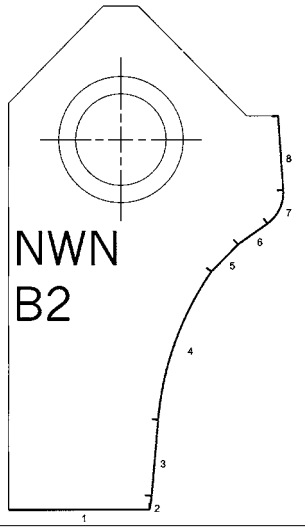
Ship Via (UPS or Fedex): _____

UPS/FEDEX ACCT. No.:

Shipper's identification No. for customs purposes (V.A.T., Importers No., R.F.C. No., etc...): _____

Ship To (if different from above): _____

SEGMENT NO.	DELTA X mm or inch	LENGTH mm or inch	ANGLE degree	TAN (β1°)	TAN (β2°)	RADIUS mm or inch

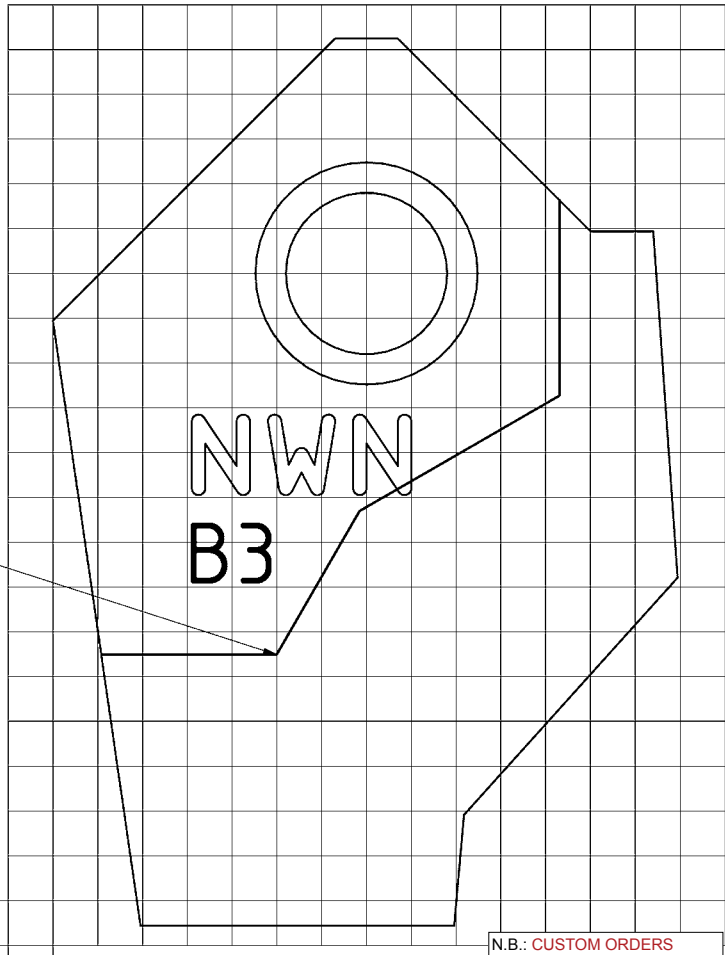


From: _____ **Tel:** Country Code: _____ City Code: _____ _____

_____ **Fax:** Country Code: _____ City Code: _____ _____

_____ **Email:** _____

_____ **Website:** _____



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Quantity:

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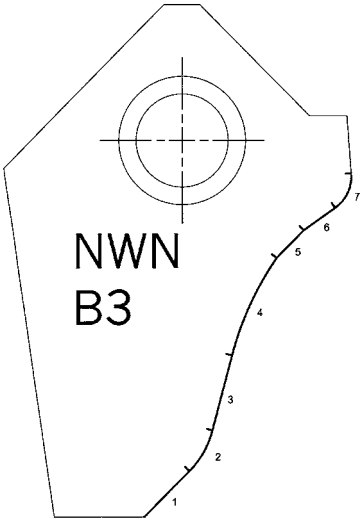
SEGMENT NO.	DELTA X mm or inch	LENGTH mm or inch	ANGLE degree	TAN (β1°)	TAN (β2°)	RADIUS mm or inch

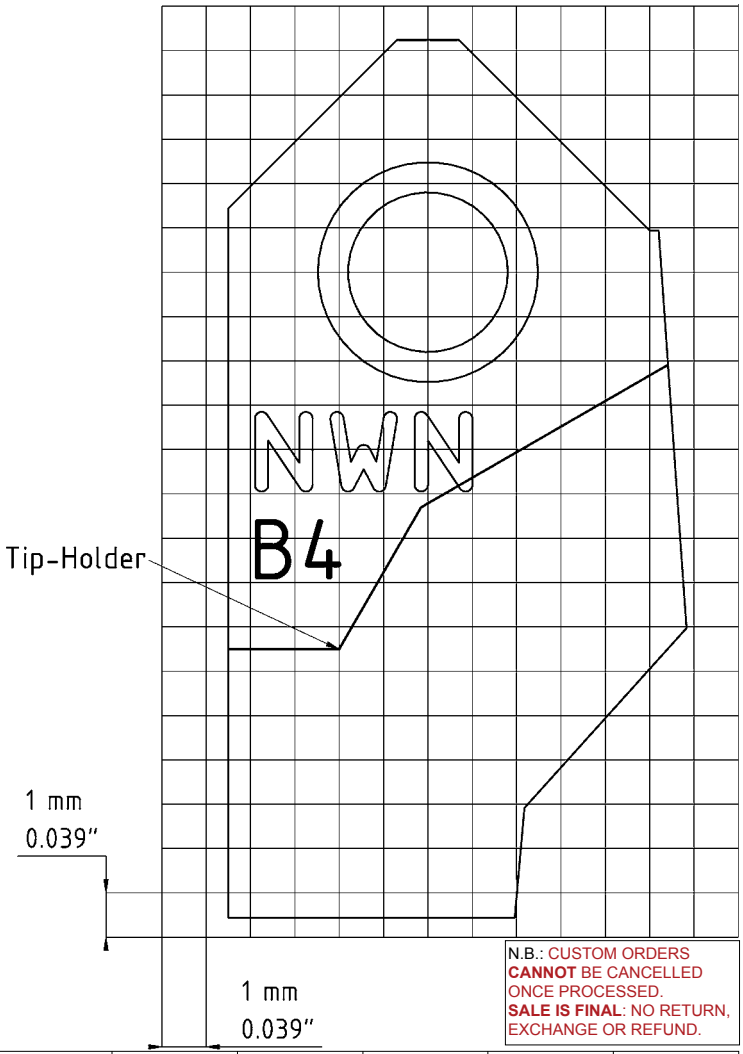


From: _____ **Tel:** Country Code: _____ City Code: _____ _____

_____ **Fax:** Country Code: _____ City Code: _____ _____

_____ **Email:** _____

_____ **Website:** _____



Purchase Order No.:

Date:

Designed by:

Approved by:

Material:

Relief Angle:

Quantity:

Ship Via (UPS or Fedex): _____

UPS/FEDEX ACCT. No.:

Shipper's identification No. for customs purposes (V.A.T., Importers No., R.F.C. No., etc...): _____

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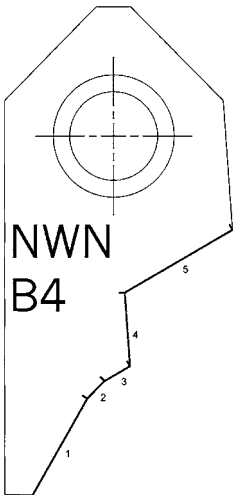
SEGMENT NO.	DELTA X mm or inch	LENGTH mm or inch	ANGLE degree	TAN (β1°)	TAN (β2°)	RADIUS mm or inch

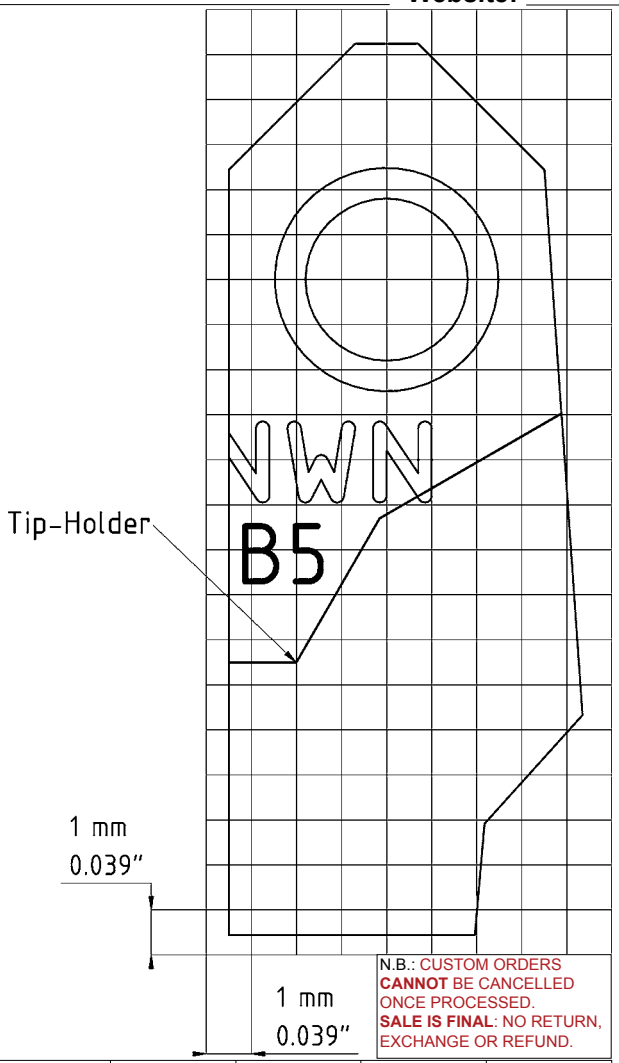


From: _____ **Tel:** Country Code: _____ City Code: _____ _____

Fax: Country Code: _____ City Code: _____ _____

Email: _____

Website: _____



Purchase Order No.:

Date:

Designed by:

Approved by:

Material:

Relief Angle:

Quantity:

Ship Via (UPS or Fedex): _____

UPS/FEDEX ACCT. No.:

Shipper's identification No. for customs purposes (V.A.T., Importers No., R.F.C. No., etc...): _____

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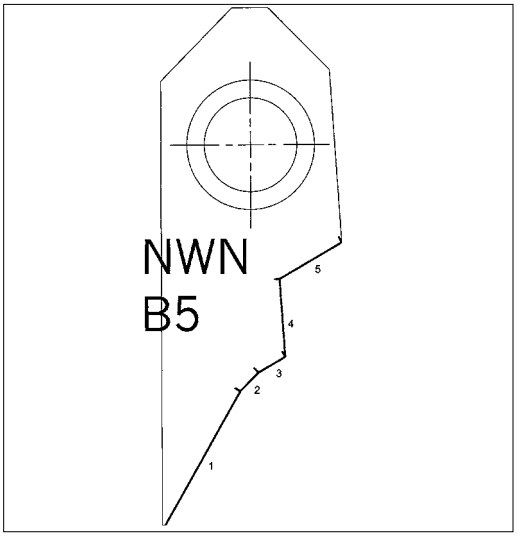
SEGMENT NO.	DELTA X mm or inch	LENGTH mm or inch	ANGLE degree	TAN (β1°)	TAN (β2°)	RADIUS mm or inch



NEWEN®

NWN 3a CAD™

PROFESSIONAL CARBIDE TIP DESIGN AND MANAGEMENT FOR BUSINESS. *A NEWEN EXCLUSIVE.* *Copyright © 2000 NEWEN®. All Rights Reserved. Patents Pending.*

- Create your own profile: any shape, any blank, any relief angles in less than a minute with NEWEN®'s user friendly NWN-3a-CAD™ interactive software.
- Integrated **TOOL SETTING CALCULATOR™**: set your tools EXACTLY within seconds; eliminate inaccurate tool setting fixtures.
- Gain precision, quality & consistency.
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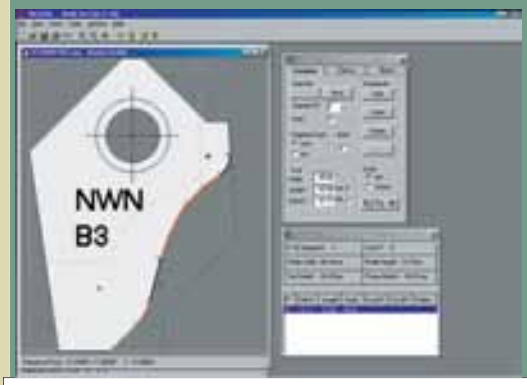
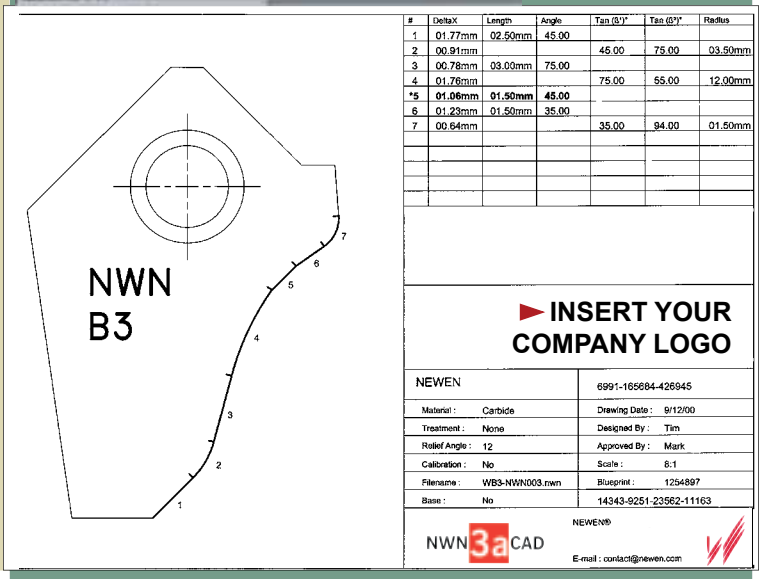
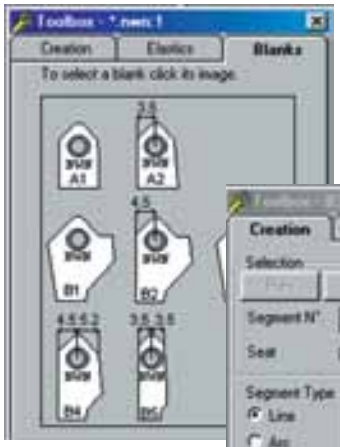
- Built-in Library of the most popular forms tips sold. Open an existing profile and use NEWEN® TOOL SETTING CALCULATOR™ to set your tools or open an existing profile and use it as a template to create a new profile.
- **NWN-3a-CAD™ EXPERT** with technical notes and tips to help you create the perfect carbide tip profile.
- Save money.
- Create personalized blueprints with NEWEN® built-in templates for blueprinting.
- Create & manage your own library.
- Shorten your lead times.
- No more frustration.
- Maximize your possibilities.
- **Instant design, instant gratification, total flexibility.**
- Exclusively from NEWEN®.



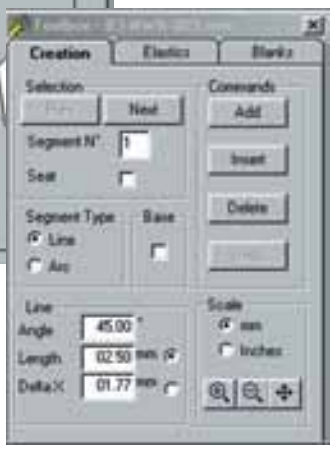
1 Create your own profile, any shape, any relief angle, any blank, within seconds.



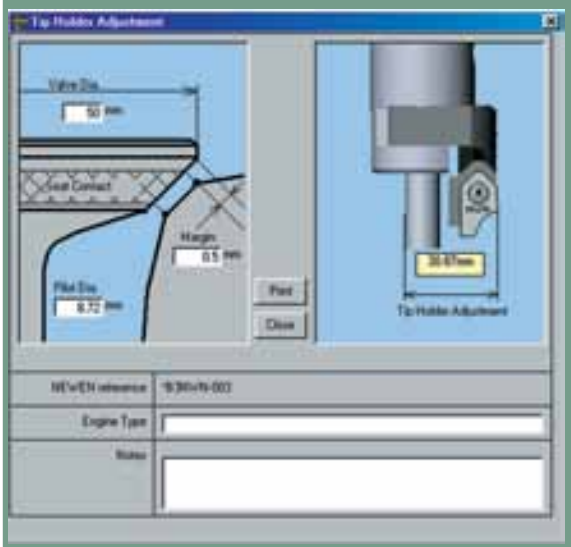
2 Create personalized blueprints with easy to use NEWEN® built-in templates.



4 Select the best suited blank for your profile.

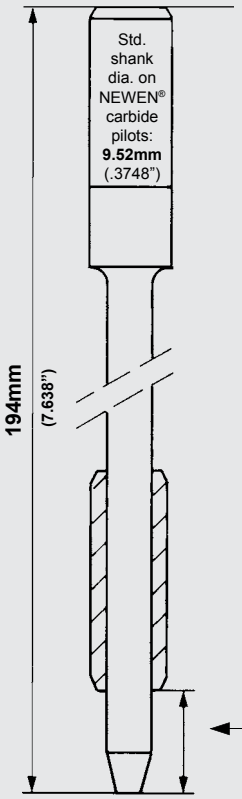


5 Total flexibility offered with NWN-3a-CAD™ Tool Boxes.



3 Use NWN-3a-CAD™ integrated **Tool Setting Calculator™** to set your tools exactly within seconds and eliminate inaccurate tool setting fixtures.

E-mail: contact@newen.com - **Website: www.newen.com**



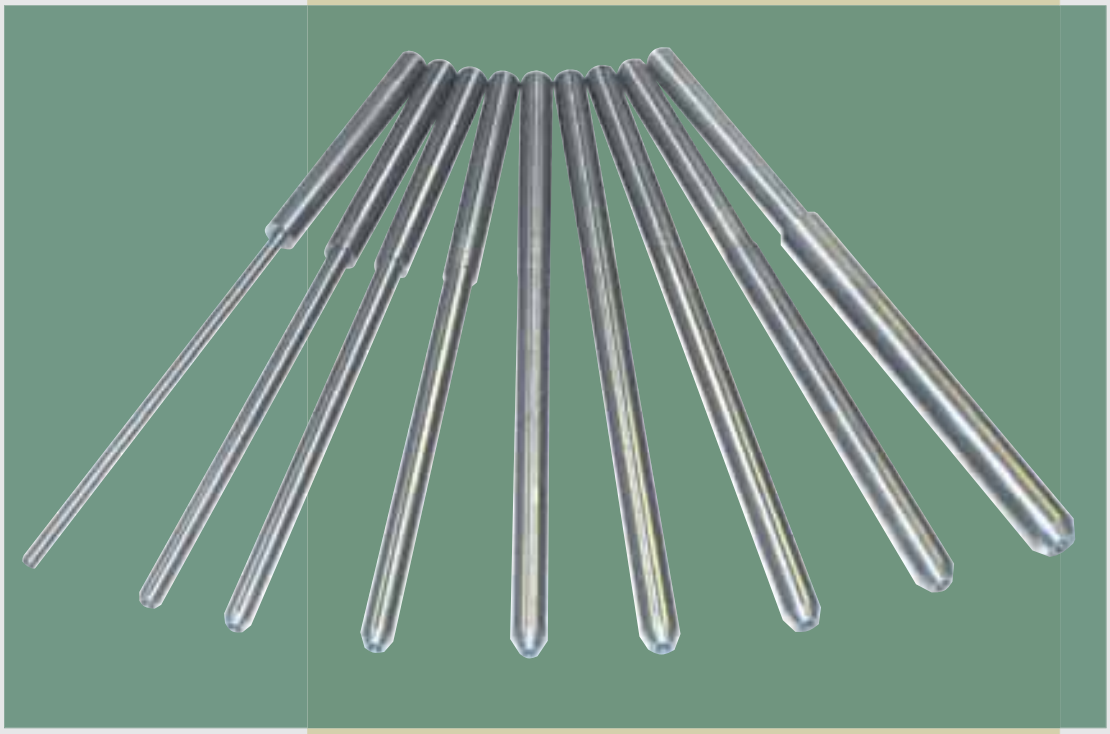
- NEWEN® carbide pilots have a standard shank of .375"**(9.52mm)** in diameter that fits all NEWEN® seat & guide machines. They are 100% compatible with all Serdi seat & guide machines and with any .375"**(9.52mm)** ball head systems available on the market today (DCM, Winona, Perterson, Serdi, Neway, 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, **1-800-639-3693 (USA).**



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	0.2340	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	0.2319	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

E-mail: contact@newen.com - **Website: www.newen.com**

Legend: • Stock • Non-stock

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

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

NEWEN® DIRECT

NWN-PLT/IA

NEWEN® **Import Automotive** carbide pilot package (12 pilots). Includes one each of the following pilots:

5.48mm **(.2157")**, 5.50mm **(.2165")**, 6.58mm **(.2591")**, 6.60mm **(.2598")**, 6.98mm **(.2748")**, 7.00mm **(.2756")**, 7.98mm **(.3142")**, 8.00mm **(.3150")**, 8.01mm **(.3154")**, 8.03mm **(.3161")**, 8.98mm **(.3535")** and 9.00mm **(.3543")**.

NWN-PLT/DA

NEWEN® **Domestic Automotive** carbide pilot package (12 pilots). Includes one each of the following pilots:

7.89mm **(.3106")**, 7.91mm **(.3114")**, 7.93mm **(.3122")**, 8.05mm **(.3169")**, 8.06mm **(.3173")**, 8.69mm **(.3421")**, 8.70mm **(.3425")**, 8.71mm **(.3429")**, 9.45mm **(.3720")**, 9.47mm **(.3728")**, 9.49mm **(.3736")** and 9.51mm **(.3744")**.

NWN-PLT/D

NEWEN® **Diesel** carbide pilot package (8 pilots). Includes one each of the following pilots:

6.34mm **(.2496")**, 6.36mm **(.2504")**, 11.08mm **(.4362")**, 11.10mm **(.4370")**, 11.47mm **(.4516")**, 11.49mm **(.4529")**, 12.68mm **(.4992")** and 12.70mm **(.5000")**.

NWN-PLT/HD

NEWEN® **Harley-Davidson** carbide pilot package (11 pilots). Includes one each of the following pilots:

7.89mm **(.3106")**, 7.90mm **(.3110")**, 7.92mm **(.3118")**, 8.67mm **(.3413")**, 8.69mm **(.3421")**, 8.71mm **(.3429")**, 9.55mm **(.3760")**, 9.57mm **(.3768")**, 9.59mm **(.3776")**, 9.61mm **(.3783")** and 9.63mm **(.3791")**.

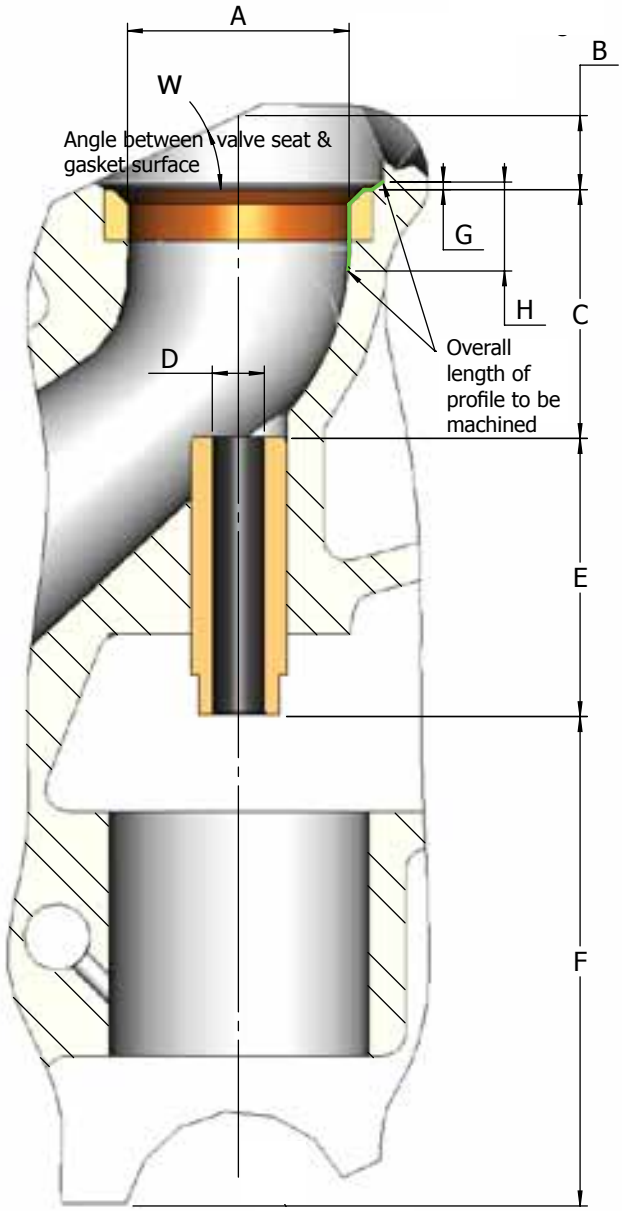
NWN-PLT/JM

NEWEN® **Japanese Motorcycle** carbide pilot package (17 pilots). Includes one each of the following pilots:

3.99mm **(.1571")**, 4.00mm **(.1575")**, 4.49mm **(.1769")**, 4.50mm **(.1772")**, 4.99mm **(.1965")**, 5.00mm **(.1969")**, 5.48mm **(.2157")**, 5.49mm **(.2161")**, 5.50mm **(.2165")**, 5.99,mm **(.2358")**, 6.00mm **(.2362")**, 6.59mm **(.2594")**, 6.60mm **(.2598")**, 6.99mm **(.2752")**, 7.00mm **(.2756")**, 7.99mm **(.3146")** and 8.00mm **(.3150")**.

E-mail: contact@newen.com - **Website: www.newen.com**

REAMER DATA ORDER SHEET



MEASURING UNIT *used to fill out form:* ☐ INCH ☐ MM

Guide Diameter
BEFORE REAMING: Diameter D _____ Tolerance _____

Guide Diameter
AFTER REAMING: Diameter D_____ Tolerance* ☐ H6 ☐ H7

TOLERANCE TABLE*					
		D	Tolerance	D	Tolerance
H7	Inch	.1181 to .2362	+ .00048 + 0	.2362 to .3937	+ .0006 + 0
	mm	3 to 6	+ 0.012 + 0	6 to 10	+ 0.015 + 0
H6	Inch	.1181 to .2362	+.00032 + 0	.2362 to .3937	+.00036 + 0
	mm	3 to 6	+ 0.008 + 0	6 to 10	+ 0.009 + 0

Select *Machine Model* you will be using this reamer on:
____SUPER100™ ____GII-LTD™ ____GII™ _____OTHER

This reamer will be used for:
____ Guide reaming ONLY ____ COMBINATION guide reaming & valve seat machining

*Tool Holder used:*_____

Reaming of guide will be done from the valve seat side _____ or from the back side of the cylinder head _____ *(reaming from the back side requires a shorter reamer and thus guarantying better results).*

Please, fill out table below with geometric dimensions of your cylinder head:

A	**B**	**C**
E	**F**	**G**
H	**W**	

APPLICATION

Make: _____

Model _____

Engine Type: _____

Year: _____

Guide Material: _____

N.B.: CUSTOM ORDERS **CANNOT** BE CANCELLED ONCE PROCESSED.
SALE IS FINAL: NO RETURN, EXCHANGE OR REFUND.

Company:

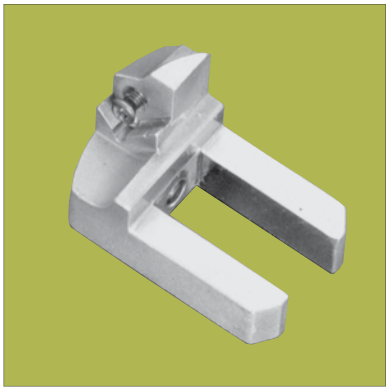
Contact:

Address:

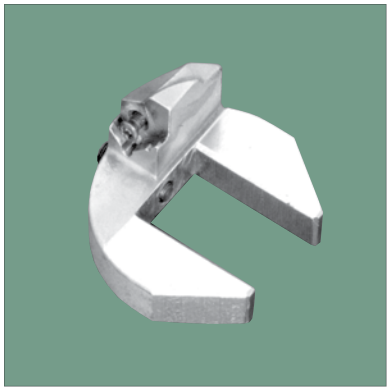
Country:
Tel:
Fax:
Email:

NWN2000
Tip Holder, Diameter Range:
18-30mm **(0.709”- 1.181”)**.
•Fits NWN5100F, NWN5100F-L1, NWN5100F-L2 tool holders,
(100% compatible with Serdi tool holders) and small body Ball Heads sold on the market.

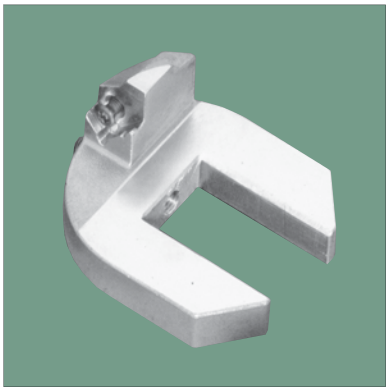
NWN2001
Tip Holder, Diameter Range:
28-42mm **(1.102”-1.653”)**.
•Fits NWN5100F, NWN5100F-L1, NWN5100F-L2 tool holders,
(100% compatible with Serdi tool holders) and small body Ball Heads sold on the market.



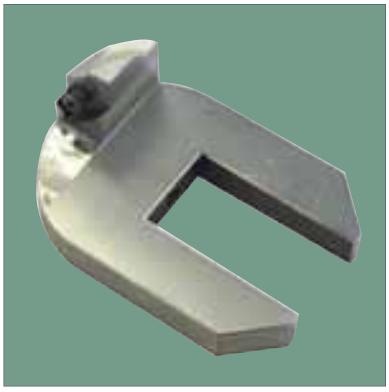
NWN2002
Tip Holder, Diameter Range:
40-60mm **(1.575”-2.362”)**.
•Fits NWN5100F, NWN5100F-L1, NWN5100F-L2 tool holders,
(100% compatible with Serdi tool holders) and small body Ball Heads sold on the market.



NWN2003
Tip Holder, Diameter Range:
40-60mm **(1.575” -2.362”)**.
•Fits NWN5300, NWN5300-L1 tool holders,
(100% compatible with Serdi tool holders) and wide body Ball Heads sold on the market.



NWN2004
Tip Holder, Diameter Range:
58-80mm **(2.285” -3.150”)**.
•Fits NWN5300, NWN5300-L1 tool holders,
(100% compatible with Serdi tool holders) and wide body Ball Heads sold on the market.



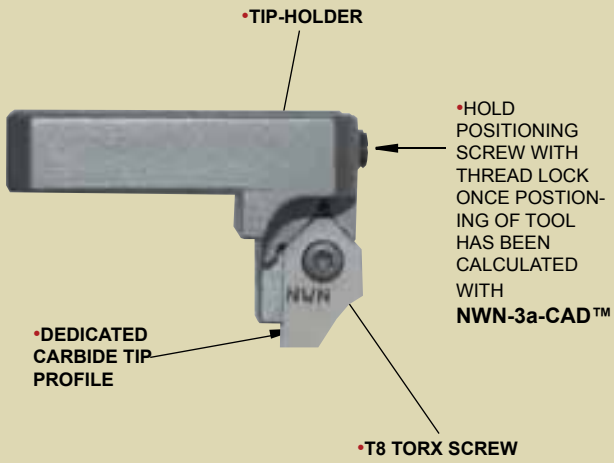
NWN2005
Tip Holder, Diameter Range:
78-120mm **(3.071”-4.724”)**.
•Fits NWN5300, NWN5300-L1, NWN5500 tool holders,
(100% compatible with Serdi tool holders) and wide body Ball Heads sold on the market.

Carbide form Tips need to seat properly withing tip-holder. Please check your tip-holders on a regular basis and replace them as needed to maintain optimum machining quality.

E-mail: contact@newen.com - **Website: www.newen.com**

■ PRE-SET TIP HOLDERS FOR YOUR MOST COMMON HEADS AND:

- Save time
- Keep job quality consistent over time
- Prolong tips and tip holders life
- Minimize tooling wear
- Increase profitability



NWN-THR20

■ NWN tip holders are 100% compatible with Serdi seat & guide machines and 3 Angle Tooling Conversion Kits (NEWEN, K-Line, Goodson, Atlas, Regis, DCM, Winona, Kwik-way, Serdi, Peterson, Sunnen....).

■ NWN-THR6

Tip holder kit. Includes:
- Any 6 tip-holders of your choice*
- Any 6 stock WA1-NWN** high performance carbide tips of your choice.
- 6 T8 torx screws.
- 1 Bench top/wall mount rack & 10 labels *(accommodates up to 20 tip-holders).*

■ NWN-THR12

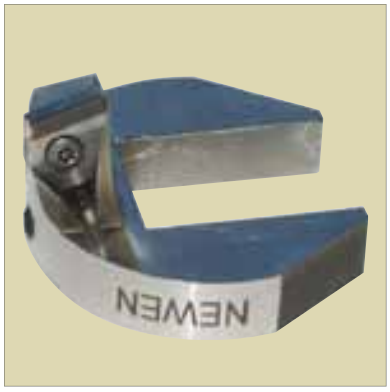
Tip holder kit. Includes:
- Any 12 tip-holders of your choice*
- Any 12 stock WA1-NWN** high performance carbide tips of your choice.
- 12 T8 torx screws.
- 1 Bench top/wall mount rack & 10 labels *(accommodates up to 20 tip-holders).*

■ NWN-THR20

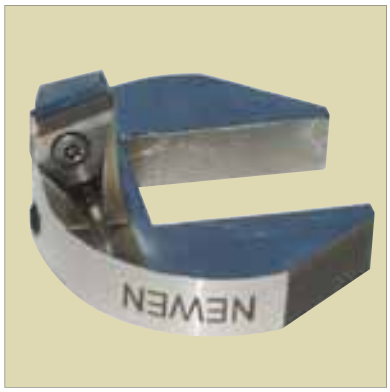
Tip holder kit. Includes:
- Any 20 tip-holders of your choice*
- Any 20 stock WA1-NWN** high performance carbide tips of your choice.
- 20 T8 torx screws.
- 1 Bench top/wall mount rack & 10 labels *(accommodates up to 20 tip-holders).*

** 3 different sizes to choose from: NWN2000, NWN2001 & NWN2002 [capacity ranging from 0.709" to 2.362" (18mm-60mm)].*
*** Any standard stock "A" blank profiles. Over 300 stock profiles to choose from.*

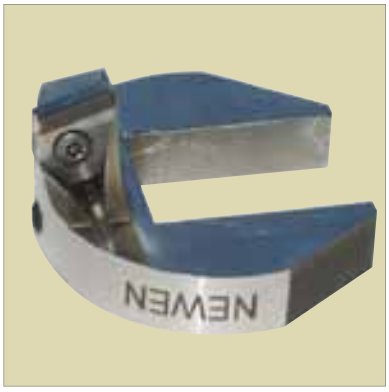
NOTE: 1. Additional carbide tips and/or custom tips may be ordered or special ordered. 2. All parts from kit may also be purchased separately.



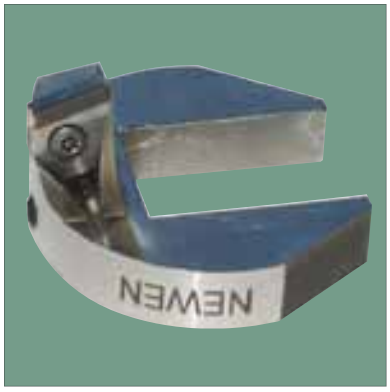
NWN2002-CBN-15
15.25° Single Angle Tip Holder,
Diameter Range:
40-60mm **(1.575”-2.362”)**.
•Fits NWN5100F, NWN5100F-L1,
NWN5100F-L2 tool holders,
(100% compatible with Serdi tool holders) and small body Ball Heads sold on the market.



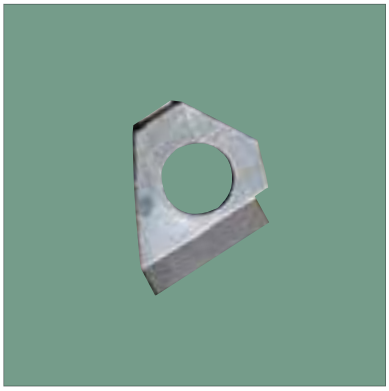
NWN2002-CBN-20
20.25° Single Angle Tip Holder,
Diameter Range:
40-60mm **(1.575”-2.362”)**.
•Fits NWN5100F, NWN5100F-L1,
NWN5100F-L2 tool holders,
(100% compatible with Serdi tool holders) and small body Ball Heads sold on the market.



NWN2002-CBN-30
30.25° Single Angle Tip Holder,
Diameter Range:
40-60mm **(1.575”-2.362”)**.
•Fits NWN5100F, NWN5100F-L1,
NWN5100F-L2 tool holders,
(100% compatible with Serdi tool holders) and small body Ball Heads sold on the market.

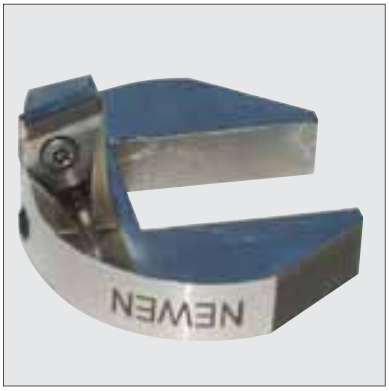


NWN2002-CBN-45
45.25° Single Angle Tip Holder,
Diameter Range:
40-60mm **(1.575”-2.362”)**.
•Fits NWN5100F, NWN5100F-L1,
NWN5100F-L2 tool holders,
(100% compatible with Serdi tool holders) and small body Ball Heads sold on the market.



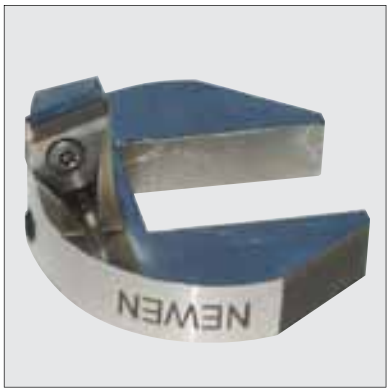
NWN-BN200
Universal Single Angle CBN cutter.
High Grade CBN for Hard Applications (stellites, Powder Metals, Induction Hardened Materials...)
•Fits NWN2002-CBN-15,
NWN2002-CBN-20,
NWN2002-CBN-30,
NWN2002-CBN45 Tip Holders.)

E-mail: contact@newen.com - **Website: www.newen.com**



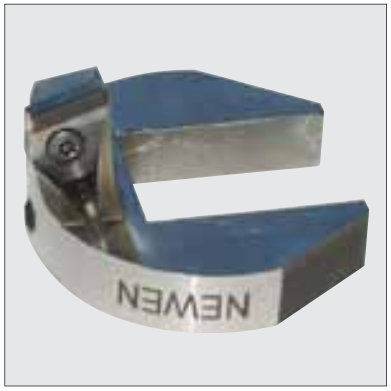
NWN2003-CBN-15
15.25° Single Angle Tip Holder,
Diameter Range:
40-60mm **(1.575" -2.362")**.

NWN2004-CBN-15
15.25° Single Angle Tip Holder,
Diameter Range:
58-80mm **(3.071" -4.724")**.
•Fits NWN5300, NWN5300-L1 tool holders,
(100% compatible with Serdi tool holders and wide body Ball Heads sold on the market).



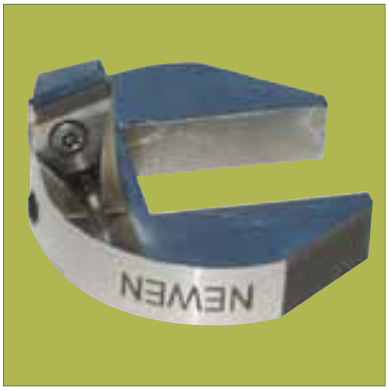
NWN2003-CBN-20
20.25° Single Angle Tip Holder,
Diameter Range:
40-60mm **(1.575" -2.362")**.

NWN2004-CBN-20
20.25° Single Angle Tip Holder,
Diameter Range:
58-80mm **(3.071" -4.724")**.
•Fits NWN5300, NWN5300-L1 tool holders,
(100% compatible with Serdi tool holders and wide body Ball Heads sold on the market).



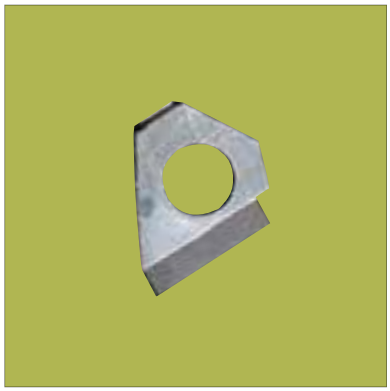
NWN2003-CBN-30
30.25° Single Angle Tip Holder,
Diameter Range:
40-60mm **(1.575" -2.362")**.

NWN2004-CBN-30
30.25° Single Angle Tip Holder,
Diameter Range:
58-80mm **(3.071" -4.724")**.
•Fits NWN5300, NWN5300-L1 tool holders,
(100% compatible with Serdi tool holders and wide body Ball Heads sold on the market).

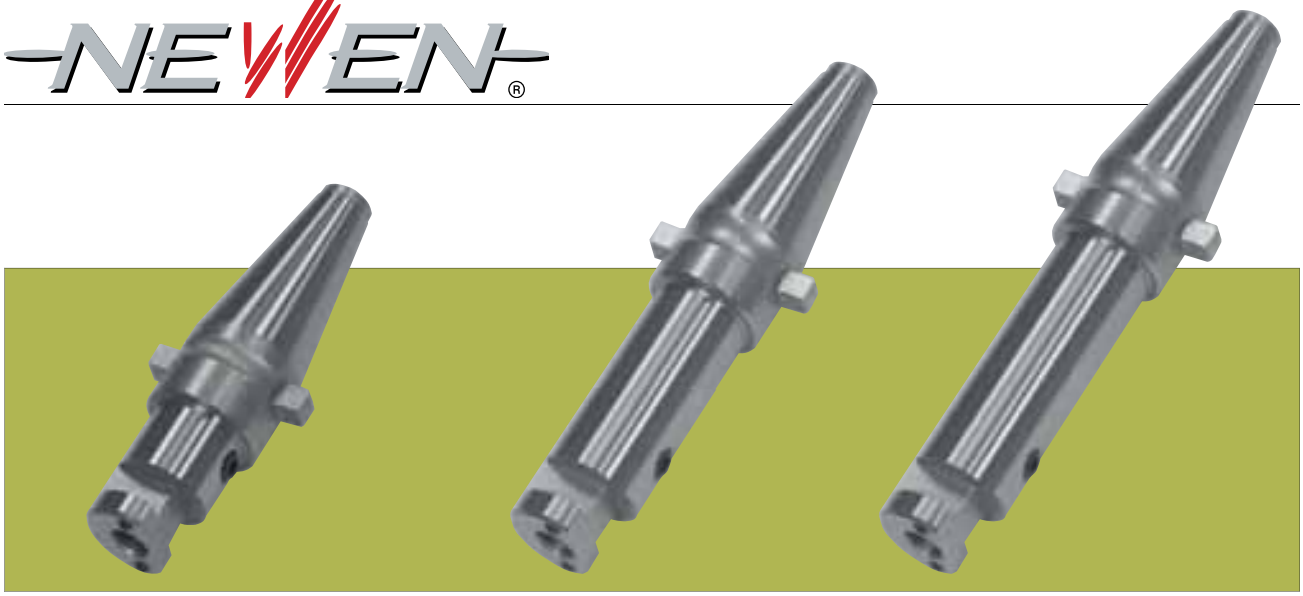


NWN2003-CBN-45
45.25° Single Angle Tip Holder,
Diameter Range:
40-60mm **(1.575" -2.362")**.

NWN2004-CBN-45
45.25° Single Angle Tip Holder,
Diameter Range:
58-80mm **(3.071" -4.724")**.
•Fits NWN5300, NWN5300-L1 tool holders,
(100% compatible with Serdi tool holders and wide body Ball Heads sold on the market).



NWN-BN300
Universal Single Angle CBN cutter. High Grade CBN for Hard Applications (stellites, Powder Metals, Induction Hardened Materials...)
•Fits NWN2003-CBN-15, NWN2003-CBN-20, NWN2003-CBN-30, NWN2003-CBN45 Tip Holders.)



NWN5100F
Tool-Holder, Capacity: 18-60mm **(0.709”-2.362”).**
•Uses tip holders NWN2000, NWN2001 & NWN2002. Used on NEWEN® & Serdi (with the exception of the Serdi Light/Pro & Micro) seat & guide machines.

NWN5100F-L1
Tool-Holder, 1”longer than NWN5100F.
Capacity: 18-60mm **(0.709”-2.362”)**
•Uses tip holders NWN2000, NWN2001 & NWN2002. Used on NEWEN® & Serdi (with the exception of the Serdi Light/Pro & Micro) seat & guide machines.

NWN5100F-L2
Tool-Holder, 2”longer than NWN5100F.
Capacity: 18-60mm **(0.709”-2.362”)**
•Uses tip holders NWN2000, NWN2001 & NWN2002. Used on NEWEN® & Serdi (with the exception of the Serdi Light/Pro & Micro) seat & guide machines.

NWN5300
Tool-Holder, Capacity: 40-120mm **(2.285”-3.150”).**
•Uses tip holders NWN2003, NWN2004, NWN2005, NWN2003-CBN-15, NWN2003-CBN-20, NWN2003-CBN-30, NWN2003-CBN-45. Used on NEWEN® & Serdi (with the exception of the Serdi Light/Pro & Micro) seat & guide machines.

NWN5300-L1
Tool-Holder, 1” longer than NWN5300. Capacity: 40-120mm **(2.285”-3.150”).**
•Uses tip holders NWN2003, NWN2004, NWN2005, NWN2003-CBN-15, NWN2003-CBN-20, NWN2003-CBN-30, NWN2003-CBN-45. Used on NEWEN® & Serdi (with the exception of the Serdi Light/Pro & Micro) seat & guide machines.

NWN-TCF
NEWEN® tool clamping fixture for collet chuck holder & other NEWEN® ISO 30 tool holders.

E-mail: contact@newen.com - **Website: www.newen.com**

NWN5100-95
Tool Holder for CNC machining centers.
Shank size: 25.4mm **(1”)**; Length: 95mm **(3.74”)**; Diameter range: 18-60mm **(0.709”-2.362”)**.
•Uses tip holders NWN2000, NWN2001 & NWN2002.

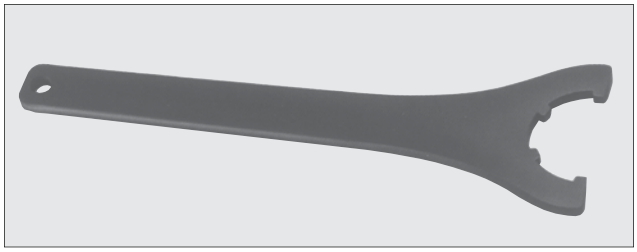
NWN5100-120
Tool Holder for CNC machining centers.
Shank size: 25.4mm **(1”)**; Length: 120mm **(4.73”)**; Diameter range: 18-60mm **(0.709”-2.362”)**.
•Uses tip holders NWN2000, NWN2001 & NWN2002.

NWN5100-145
Tool Holder for CNC machining centers.
Shank size: 25.4mm **(1”)**; Length: 145mm **(5.71”)**; Diameter range: 18-60mm **(0.709”-2.362”)**.
•Uses tip holders NWN2000, NWN2001 & NWN2002.

NWN5300-95
Tool Holder for CNC machining centers.
Shank size: 25.4mm **(1”)**; Length: 95mm **(3.74”)**; Diameter range: 40-120mm **(1.575”-4.724”)**.
•Uses tip holders NWN2003, NWN2004 & NWN2005.

NWN5300-120
Tool Holder for CNC machining centers.
Shank size: 25.4mm **(1”)**; Length: 120mm **(4.73”)**; Diameter range: 40-120mm **(1.575”-4.724”)**.
•Uses tip holders NWN2003, NWN2004 & NWN2005.

NWN5300-145
Tool Holder for CNC machining centers.
Shank size: 25.4mm **(1”)**; Length: 145mm **(5.71”)**; Diameter range: 40-120mm **(1.575”-4.724”)**.
•Uses tip holders NWN2003, NWN2004 & NWN2005.



NWN-ER32SW
ER-32 spanner wrench.

NWN-ER32CN
ER-32 clamping nut.

NWN-ADPT2
Adaptor for morse #2 to NEWEN® taper or Serdi taper.

NWN-CC
ER-32 collet chuck.

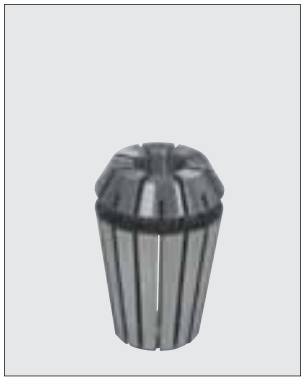
NWN-PRCH
Precision chuck with MT2 shank *(requires NWN-ADPT2)*.

NWN-RA
ER-20 reamer attachment- reamer cpty.: **1/16"-1/2"** (1-12mm).

NWN-TA
ER-32 tapping attachment
Tap cpty.: **3/32"-25/32"** (2-20mm) *(requires NWN-CC)*.

NWN-TCF
NEWEN® tool clamping fixture for collet chuck holder & other NEWEN® tool holders.

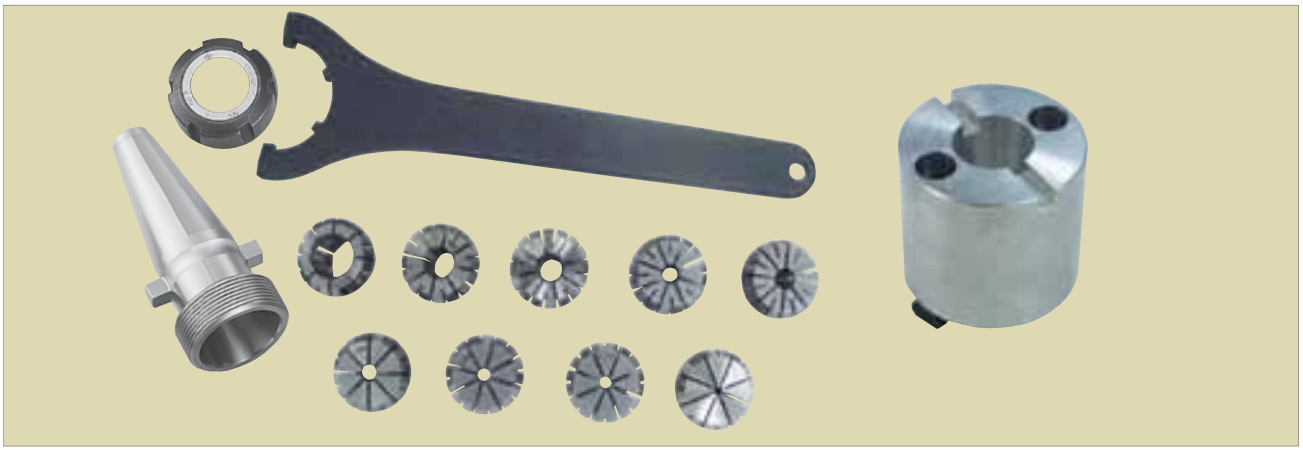
NWN-ER32SC
ER-32 spring collet - *sizes available:*
3/32" (2-3mm), **1/8"** (3-4mm), **3/16**" (4-5mm), **7/32"** (5-6mm), **1/4"** (6-7mm), **5/16"** (7-8mm), **11/32"** (8-9mm), **3/8"** (9-10mm), **13/32"** (10-11mm), **7/16"** (11-12mm), **1/2"** (12-13mm), **17/32"** (13-14mm), **9/16"** (14-15mm), **5/8"** (15-16mm), **21/32"** (16-17mm), **11/16"** (17-18mm), **3/4"** (18-19mm) and **25/32"** (19-20mm).



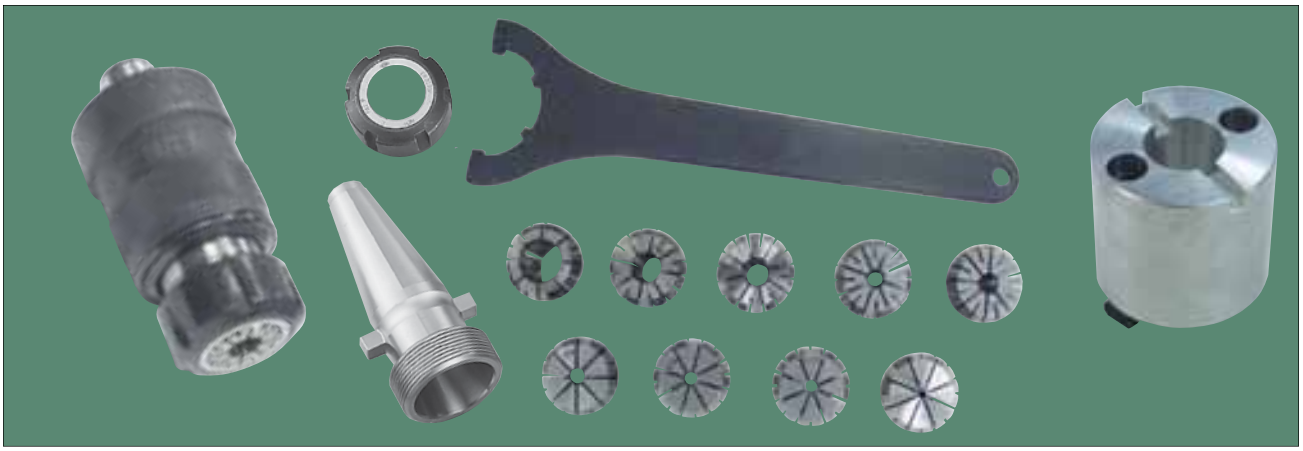
NWN-ER20SC
ER-20 spring collet - *sizes available:*
1/8" (3-4mm), **3/16**" (4-5mm), **7/32"** (5-6mm), **1/4"** (6-7mm), **5/16"** (7-8mm), **11/32"** (8-9mm), **3/8"** (9-10mm), **13/32"** (10-11mm), **7/16"** (11-12mm) and **1/2"** (12-13mm).

E-mail: contact@newen.com - **Website: www.newen.com**

NWN-5CCS
ER-32 collet chuck, ER-32 clamping nut, ER-32 spanner wrench, tool clamping fixture & (5) ER-32 collets (1/4”, 5/16”, 3/8”, 7/16”, 11/32”).



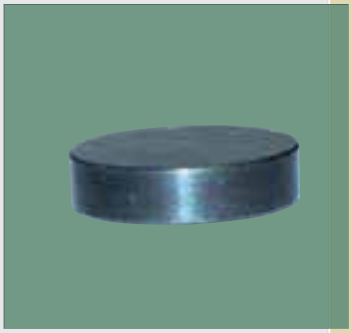
NWN-9CCS
ER-32 collet chuck, ER-32 clamping nut, ER-32 spanner wrench, tool clamping fixture & (9) ER-32 collets (1/4”, 5/16”, 3/8”, 7/16”, 11/32”, 9/16”, 5/8”, 11/16” & 3/4”).



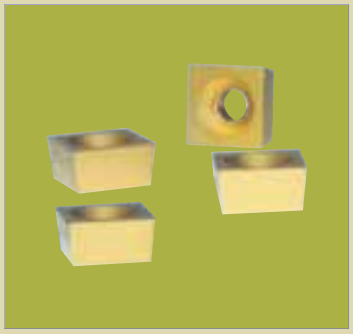
NWN-CCTAS
ER-32 collet chuck and tapping attachment; *includes:* (1) NWN-9CCS and (1) NWN-TA.

FIXED CUTTERS are conceived and designed for valve seat counterboring. All geometrical and dimensional features are met. Those indexable fixed cutters use two replaceable titanium nitrate coated inserts, each with four cutting edges. Each fixed cutter comes with two inserts and one torx wrench (replacement inserts and screws available).

NEWEN REF.	DESCRIPTION *Fits NEWEN® 5100F tool holder, NEWEN® ball heads and Serdi Tooling (25mm Arbor).*	CAPACITY
NWN-FC1-1/4	Fixed cutter	1-1/4" ***(1.2500")***
NWN-FC1-5/16	Fixed cutter	1-5/16" ***(1.3125")***
NWN-FC1-3/8	Fixed cutter	1-3/8" ***(1.3750")***
NWN-FC1-7/16	Fixed cutter	1-7/16" ***(1.4375")***
NWN-FC1-1/2	Fixed cutter	1-1/2" ***(1.5000")***
NWN-FC1-9/16	Fixed cutter	1-9/16" ***(1.5625")***
NWN-FC1-5/8	Fixed cutter	1-5/8" ***(1.6250")***
NWN-FC1-11/16	Fixed cutter	1-11/16" ***(1.6875")***
NWN-FC1-3/4	Fixed cutter	1-3/4" ***(1.7500")***
NWN-FC1-13/16	Fixed cutter	1-13/16" ***(1.8125")***
NWN-FC1-7/8	Fixed cutter	1-7/8" ***(1.8750")***
NWN-FC1-15/16	Fixed cutter	1-15/16" ***(1.9375")***
NWN-FC2	Fixed cutter	2"
NWN-FC2-1/16	Fixed cutter	2-1/16" ***(2.0625")***
NWN-FC2-1/8	Fixed cutter	2-1/8" ***(2.1250")***
NWN-FC2-3/16	Fixed cutter	2-3/16" ***(2.1875")***
NWN-FC2-1/4	Fixed cutter	2-1/4" ***(2.2500")***
NWN-FC2-5/16	Fixed cutter	2-5/16" ***(2.3125")***
NWN-FC2-3/8	Fixed cutter	2-3/8" ***(2.3750")***
NWN-FC2-7/16	Fixed cutter	2-7/16" ***(2.4375")***
NWN-FC2-1/2	Fixed cutter	2-1/2" ***(2.5000")***



NWN-FCW
Fixed cutter hardened lock screw insert.



NWN-FC3/8C
Titanium nitrate coated insert (3/8").

FIXED CUTTER
See above for sizes.

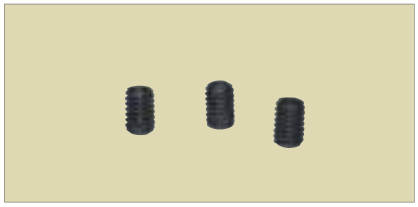
E-mail: contact@newen.com - **Website: www.newen.com**

NWN-T8
T8 torx screw for carbide form tips attachment (set of 5).

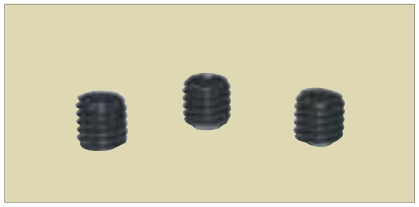
NWN-THS2000-1
Tip holder adj. screw for NWN2000 & NWN2001 tip holder - **5 x 10mm** (set of 10).

NWN-THS2002-3
Tip holder adj. screw for NWN2002 & NWN2003 tip holder - **5 x 16mm** (set of 10).

NWN-THS2004
Tip holder adj. screw for NWN2004 tip holder - **5 x 20mm** (set of 10).

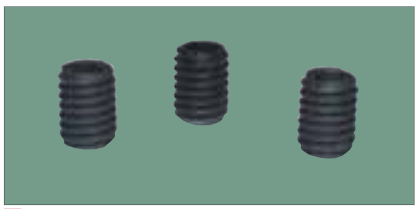


NWN-THLS
Tip holder lock screw for NWN5100F, NWN5100F-L2 & Ball Heads - **4mm x 6mm** (set of 10).

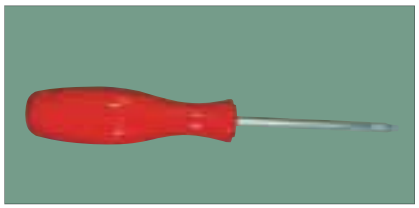


NWN-PLTS
Pilot lock screw for NWN5100F & NWN5100F-L2 - **8 x 8mm** (set of 10).

NWN-PLTSB
Pilot lock screw for ball heads. Tip holder lock screw for NWN5300 tool holder & wide body ball heads - **6 x 8mm** (set of 10).



NWN-PLTSWB
Pilot lock screw for NWN5300 tool holder & wide body ball heads - **8 x 16 mm** (set of 10).



NWN101
T8 x 60 Torx driver.

NWN100
T8 torx L-key.

NWN120
Kit with (2) T8 torx L-keys and (10) T8 torx screws.

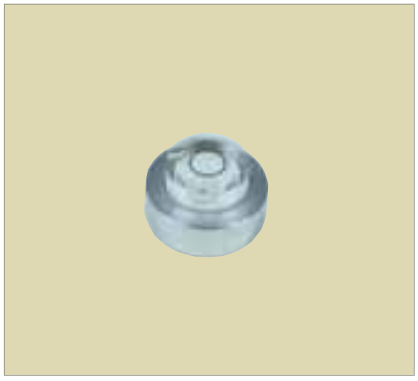
SGC607
1.5mm-10mm 9 Key-long Hex-L key set.

NWN-PCG/MM
NEWEN® puppitast concentricity gauge (mm).
Graduation / Accuracy: **0.001mm**
*Range: **1mm***.

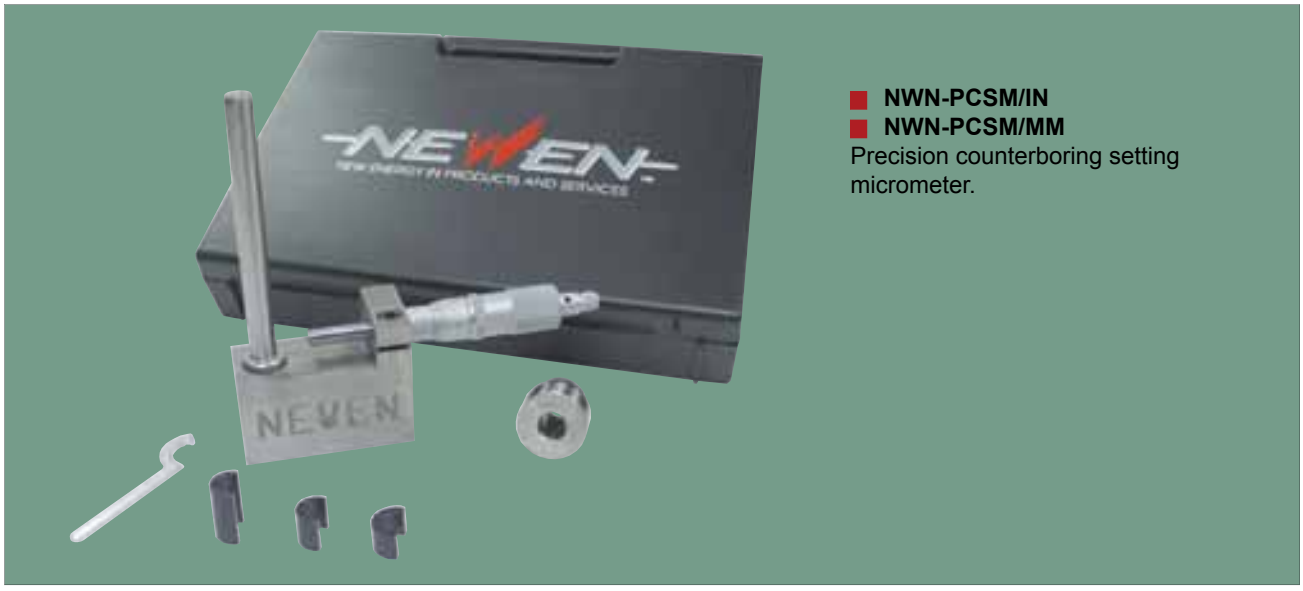
NWN-PCG/IN
NEWEN® puppitast concentricity gauge (inch).
Graduation / Accuracy: **.0001”**
Range: **.039”**.

NWN-TSFA
High precision tool setting fixture with interchangeable point.

NWN-TLEVEL
Adjustable high precision valve guide level.

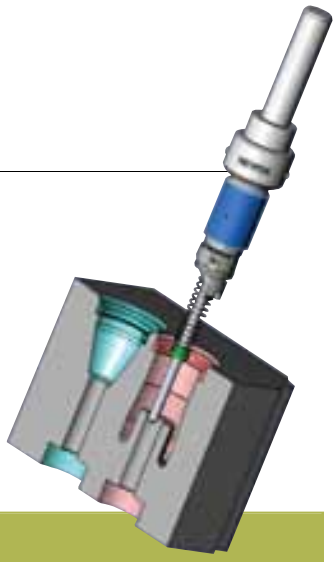


SM374
Bull’s eye level.

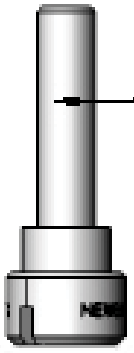


NWN-PCSM/IN
NWN-PCSM/MM
Precision counterboring setting micrometer.

E-mail: contact@newen.com - **Website: www.newen.com**

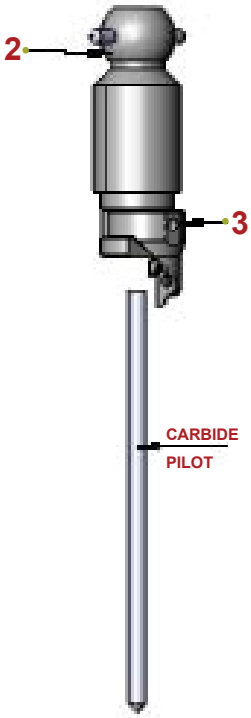


■ Upgrade your current guide & seat machine and/or milling machine to use the **leading 3 ANGLE SYSTEM** by NEWEN® and open up to NEWEN®'s **world of unlimited carbide tip profiles!**



1 • DRIVE ADAPTOR *(includes 1 drive adaptor of your choice):*

NWN-SNTA	Drive adaptor for Sunnen & Tobin Arp machines.
NWN-CM3	#3 morse taper adaptor.
NWN-CM4	#4 morse taper adaptor.
NWN-3/4SS	Straight 3/4" shank for Bridgeport, DCM or any milling machine.



2 • BALL HEAD *(includes 1 ball head of your choice):*

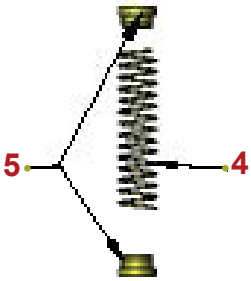
NWN-BH375F	.375" ID for Mira, Serdi, Kwik-Way, Neway, Winona, Peterson, NEWEN pilots..
NWN-BH385F	.385" ID for Sioux pilots.
NWN-BH389F	.389" ID for Tobin Arp pilots.
NWN-BH390F	.390" ID for Sunnen pilots.
NWN-BH437F	.437" ID for Kwik-Way pilots.

3 • TIP HOLDERS *(includes all 3 tip-holders):*

NWN2000	Tip Holder, Capacity 18-30mm (.709"-1.181").
NWN2001	Tip Holder, Capacity 28-42mm (1.102"-1.653").
NWN2002	Tip Holder, Capacity 40-60mm (1.575"-2.362").

HIGH PERFORMANCE CARBIDE TIP STARTER KIT *(includes 1 each of the following):*

WA1-NWN90-16	90 degree Ctip
WA1-NWN45	45 degree Ctip
WA1-NWN30	30 degree Ctip
WA1-NWN4035	13 (.051")-20 (.079")-45-30-60 Ctip
WA1-NWN4038	15 (.059")-18 (.071")-45-30-60 Ctip
WA1-NWN1163	16 (.063")-18 (.071")-45-25-60 Ctip
WA1-NWN1202	20 (.079")-14 (.055")-45-25-60 Ctip
WA1-NWN3023	13 (.051")-10 (.039")-30-15-45 Ctip
WA1-NWN3068	15 (.059")-14 (.055")-30-15-45 Ctip
WA1-NWN2202	20 (.079")-14 (.055")-30-15-60 Ctip



4 • BOUNCE SPRINGS *(includes 1 each of the following):*

NWN-SSS	Set of 3 small stainlesss steel bounce springs.
NWN-SSL	Set of 4 large stainless steel bounce springs.

5 • BUSHINGS *(includes 1 each of the following):*

NWN-BS	Complete set of bushings (range: 6-11mm & 3/8")

TOOL SETTING FIXTURE *(includes 1 each of the following):*

NWN-TSFA	High precision tool setting fixture with interchangeable point

TORX SCREWS *(includes 1 each of the following):*

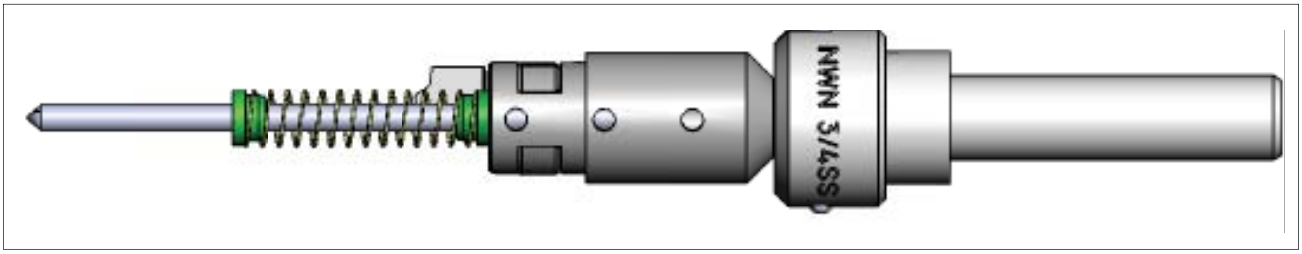
NWN-T8	Set of 5 T8 torx screw

TORX L KEY *(includes 1 each of the following):*

NWN100 Torx L Key

SELECT YOUR DRIVE ADAPTOR & BALL HEAD & ORDER YOUR KIT ACCORDINGLY:

- **NWN-3AKIT-1** (Comes with NWN-SNTA & NWN-BH375F)
- **NWN-3AKIT-2** (Comes with NWN-SNTA & NWN-BH385F)
- **NWN-3AKIT-3** (Comes with NWN-SNTA & NWN-BH389F)
- **NWN-3AKIT-4** (Comes with NWN-SNTA & NWN-BH390F)
- **NWN-3AKIT-5** (Comes with NWN-SNTA & NWN-BH437F)
- **NWN-3AKIT-6** (Comes with NWN-CM3 & NWN-BH375F)
- **NWN-3AKIT-7** (Comes with NWN-CM3 & NWN-BH385F)
- **NWN-3AKIT-8** (Comes with NWN-CM3 & NWN-BH389F)
- **NWN-3AKIT-9** (Comes with NWN-CM3 & NWN-BH390F)
- **NWN-3AKIT-10** (Comes with NWN-CM3 & NWN-BH437F)
- **NWN-3AKIT-11** (Comes with NWN-CM4 & NWN-BH375F)
- **NWN-3AKIT-12** (Comes with NWN-CM4 & NWN-BH385F)
- **NWN-3AKIT-13** (Comes with NWN-CM4 & NWN-BH389F)
- **NWN-3AKIT-14** (Comes with NWN-CM4 & NWN-BH390F)
- **NWN-3AKIT-15** (Comes with NWN-CM4 & NWN-BH437F)
- **NWN-3AKIT-21** (Comes with NWN-3/4SS & NWN-BH375F)
- **NWN-3AKIT-22** (Comes with NWN-3/4SS & NWN-BH385F)
- **NWN-3AKIT-23** (Comes with NWN-3/4SS & NWN-BH389F)
- **NWN-3AKIT-24** (Comes with NWN-3/4SS & NWN-BH390F)
- **NWN-3AKIT-25** (Comes with NWN-3/4SS & NWN-BH437F)



NWN-SNTA
Drive adaptor for Sunnen, Tobin Arp & Berco machines.

NWN-CM3
3 morse taper adaptor (commonly used on Winona Van Norman, Peterson, Kwik-Way, Zan Rosso seat & guide machines).

NWN-CM4
4 morse taper (Kwik-Way, Winona Van Norman....seat & guide

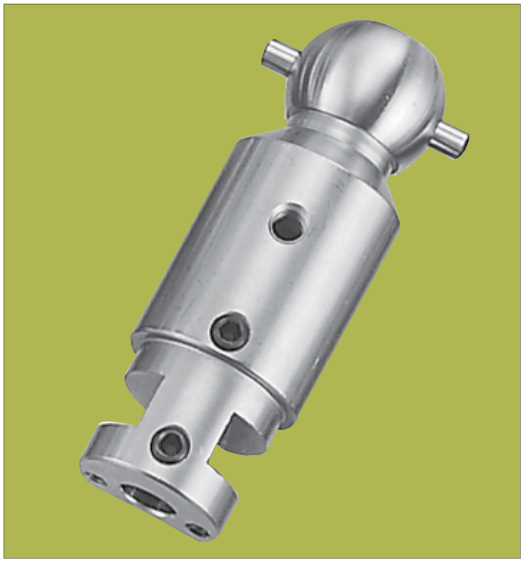
NWN-3/4SS
3/4” straight shank adaptor (commonly used on DCM machines, vertical mills (bridgeport...).

NEWEN® DIRECT

E-mail: contact@newen.com - **Website: www.newen.com**

NEWEN ball heads are:
• **Heat treated** not to deform over time
• **Precision ground** on the outside to use NWN Fixed Cutters

NEWEN ball heads can be used with either **dead or live pilots** and have **a standard 1" ball** to use with your existing tooling.



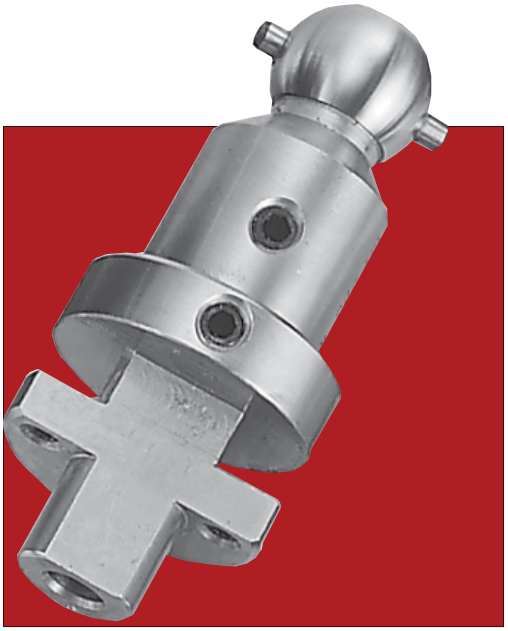
NWN-BH375F
Ball head, diameter .375" **(9.52mm)** for Mira, Serdi, K.O. Lee, Snap On, Neway, Winona, Peterson, Kwik-Way & NEWEN® pilots *(uses tip holders, NWN2000, NWN2001 & NWN2002)*.

NWN-BH385F
Ball head, diameter .385" **(9.78mm)** for Sioux pilots *(uses tip holders, NWN2000, NWN2001 & NWN2002)*.

NWN-BH389F
Ball head, diameter .389" **(9.88mm)** for Tobin Arp pilots *(uses tip holders, NWN2000, NWN2001 & NWN2002)*.

NWN-BH390F
Ball head, diameter .390" **(9.91mm)** for Sunnen pilots *(uses tip holders, NWN2000, NWN2001 & NWN2002)*.

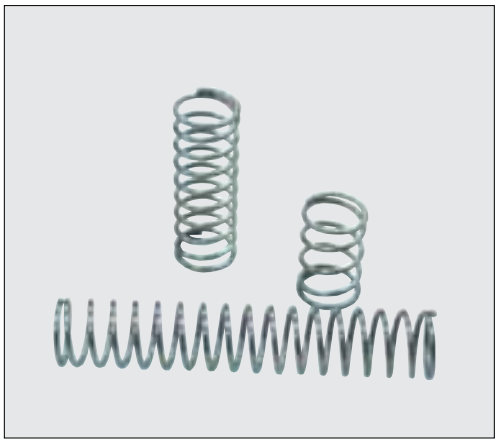
NWN-BH437F
Ball head, diameter .437" **(11.10mm)** for Kwik-Way pilots *(uses tip holders, NWN2000, NWN2001 & NWN2002)*.



NWN-BH375W
Wide Body Ball head, diameter .375" **(9.52mm)** for Mira, Serdi, K.O. Lee, Snap On, Neway, Winona, Peterson, Kwik-Way & NEWEN® pilots *(uses tip holders, NWN2003, NWN2004 , NWN2005, NWN2003-CBN-15, NWN2003-CBN-20, NWN2003-CBN-30, NWN2003-CBN-45)*.

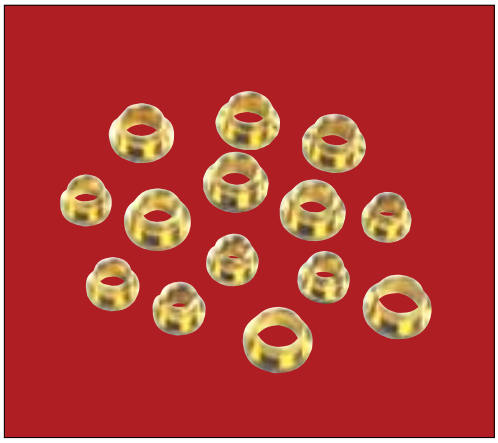
NWN-BH385W
Wide Body Ball head, diameter .385" **(9.78mm)** for Sioux pilots *(uses tip holders, NWN2003, NWN2004, NWN2005, NWN2003-CBN-15, NWN2003-CBN-20, NWN2003-CBN-30, NWN2003-CBN-45)*.

NEWEN DIRECT



NWN-SSS
Set of 3 small stainless steel springs.

NWN-SSL
Set of 4 large stainless steel springs.



NWN-BS
Brass bushing set (6mm ID, 7mm ID, 8mm ID, 9mm ID, 10mm ID, 11mm ID and 3/8” ID). For use with NEWEN® springs.

NEWEN® D.I.Y. KIT: IN-HOUSE MACHINE MAINTENANCE KIT FOR SERDI SEAT & GUIDE MACHINES.

A few hours of your time will make wonders on your Serdi machine!

With this kit, NEWEN® gives you the opportunity to stay in control of your machine at all times. You can now make sure that your machine will never be out of service for any extended period of time. You will not only cut downtime, but you will ensure that your machine operates at its peak performance at all times. NEWEN® maintenance kit is easy to use and will take you step by step through all repair procedures.

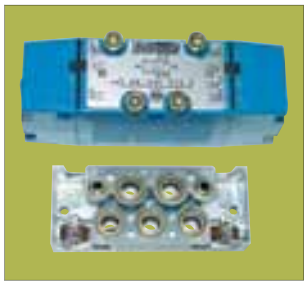
NMS1000
Pneumatic control switch.
(Serdi ref. S.1718).

NMS-MKIT
Complete D.I.Y.™ maintenance kit for Serdi 50, 60, 100, 101 & 110. Includes step by step manual with text and drawings.

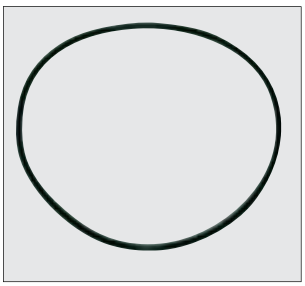
NMS1001
Pneumatic control switch.
(Serdi ref. S.1722).

NMS1100
Pressure regulator
- Machine head.
(Serdi ref. S.1804).

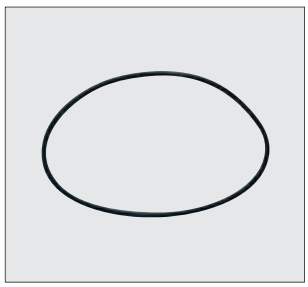
NMS1200
Pneumatic distributor
- Machine head, sphere & parallels.
(Serdi ref. S.1810/1710).



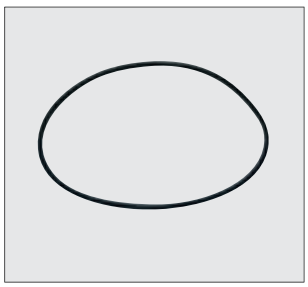
NMS1201
Pneumatic distributor
- Machine feet.
(Serdi ref. S.1709).



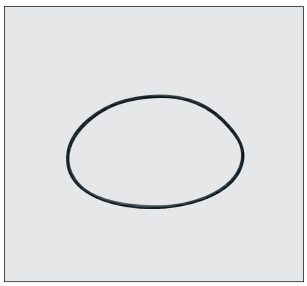
NMS1300
Sphere O-ring (set of 16 O-rings) - Machine feet.
(Serdi ref. S.0406).



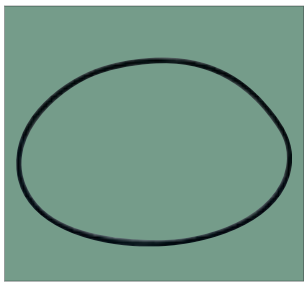
NMS1301
Sphere O-ring (set of 8 O-rings) - Machine feet.
(Serdi ref. S.0407).



NMS1302
Central piston O-ring (set of 8 O-rings) - Machine feet.
(Serdi ref. S.0416).

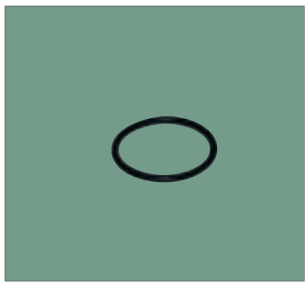


NMS1303
Central piston O-ring (set of 4 O-rings) - Machine feet.
(Serdi ref. S.0417).

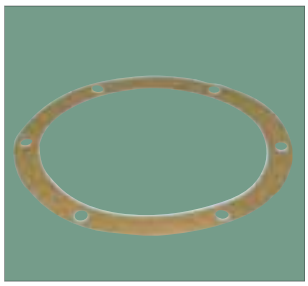


NMS1304
External bolt & piston O-Ring
(Serdi ref. S.0418).

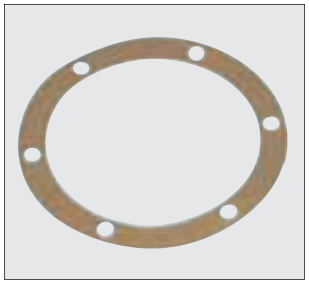
NMS1305
Internal piston
O-Ring - Machine head.
(Serdi ref. S.1212).



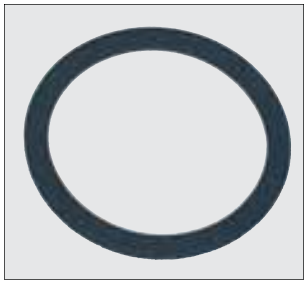
NMS1306
Sphere pivot O-Ring - Machine head.
(Serdi ref. S.1208).



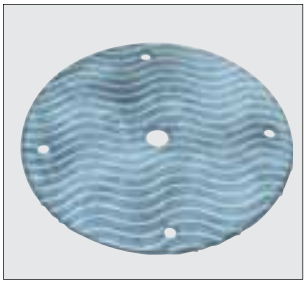
NMS1307
Sphere paper gasket (set of 8 gaskets) - Machine feet.



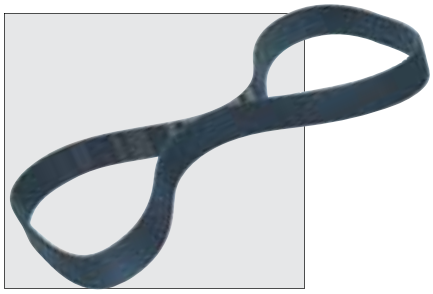
NMS1308
Central piston paper gasket (set of 4 gaskets) - Machine feet.
(Serdi ref. S.0418).



NMS1309
Flat rubber gasket
(Serdi ref. S.1206).



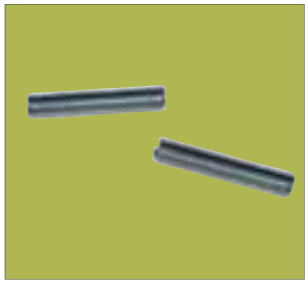
NMS1400
Head locking membrane (set of 2 membranes)
(Serdi ref. S.1004).



NMS1500
Motor Belt
(Serdi ref. S.1313).

NMS1501
Spindle belt
(Serdi ref. S.1426).

NMS1502
Spindle belt (short) for ERR100.



NMS1600
Safety roll pin (set of 2 pins)
(Serdi ref. S.1319).

NMS1700
Spindle damper
(Serdi ref. S.1447).

NMS1800
Machine head metal cover screws pneumatic control switch (set of 15 screws)
(Serdi ref. S.1603).

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