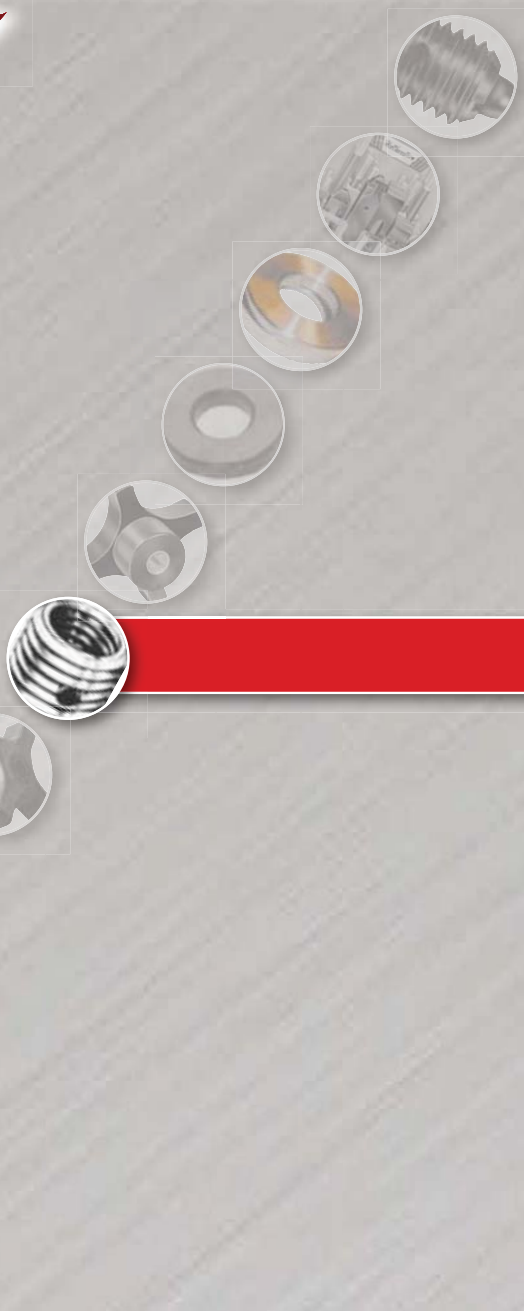




# Northwestern Tools, Inc.

Product Guide for Tooling and Manufacturing

Northwestern



Thread Inserts

## Re-Nu Thread™ Inserts

Re-Nu Thread™ Inserts are used in magnesium, aluminum, cast iron, copper, masonite and plastics. For loading bearing threads in any material.

Re-Nu Thread™ Inserts will not back out or vibrate loose. A locking element in the external thread automatically locks the insert in place. Bolts and screws can be inserted and removed without insert movement.

**We recommend a 90 degree countersink 1/32" larger than the major diameter of the mating thread to prevent damaging the element.**



Re-Nu Thread™ Inserts are left soft to allow altering.

**An inexpensive threaded insert designed to be an easy method of repairing damaged threads.**

No Special Tools Needed. Re-Nu Thread™ Inserts have standard external threads that permit the use of standard drills and taps.

1. Drill hole, countersink. Tap drill size given in dimension charts.
2. Tap hole same size as external thread.
3. Turn insert into place with a bolt and lock nut. Locking element holds in place.



Steel					
Zinc Plate Finish Nylon Pellet Locking Element					
Part No.	Internal Thread	External Thread	Length	Tap Drill Size	Net lbs Per 100
29001	10-24	3/8-16	13/32	5/16	3/4
29002	10-32	3/8-16	13/32	5/16	3/4
29003	1/4-20	7/16-14	7/16	U	1
29004	1/4-28	7/16-14	7/16	U	1
29005	5/16-18	1/2-13	31/64	27/64	1-1/4
29006	5/16-24	1/2-13	31/64	27/64	1-1/4
29007	3/8-16	9/16-12	33/64	31/64	1-1/2
29008	3/8-24	9/16-12	33/64	31/64	1-1/2
29009	7/16-14	5/8-11	21/32	17/32	2
29010	1/2-13	3/4-10	21/32	21/32	3-1/2
29011	1/2-20	3/4-10	21/32	21/32	3-1/4
29012	5/8-11	7/8-9	11/16	49/64	4-1/2
29013	5/8-11	7/8-9	1-1/8	49/64	7-1/2
29014	3/4-10	1-8	25/32	7/8	5-3/4
29015	1-8	1-3/8-12	1-1/4	1-19/64	23-1/2

Stainless Steel					
Type 303 Nylon Patch Locking Element					
Part No.	Internal Thread	External Thread	Length	Tap Drill Size	Net lbs Per 100
29101	4-40	10-32	7/32	21	1/4
29102	6-32	12-28	1/4	14	1/4
29103	8-32	1/4-28	9/32	3	1/4
29104	10-24	5/16-24	5/16	I	1/2
29105	10-32	5/16-24	5/16	I	1/2
29106	1/4-20	3/8-24	3/8	Q	1/2
29107	1/4-28	3/8-24	3/8	Q	1/2
29108	5/16-18	7/16-20	7/16	25/64	3/4
29109	5/16-24	7/16-20	7/16	25/64	3/4
29110	3/8-16	1/2-20	15/32	29/64	1
29111	3/8-24	1/2-20	15/32	29/64	1
29112	7/16-14	9/16-18	17/32	33/64	1-1/4
29113	7/16-20	9/16-18	17/32	33/64	1-1/4
29114	1/2-13	5/8-18	19/32	37/64	1-3/4
29115	1/2-20	5/8-18	19/32	37/64	1-1/2
29116	5/8-11	3/4-16	11/16	11/16	2-1/2
29117	5/8-18	3/4-16	11/16	11/16	2-1/4

Metric Internal / Metric External								
Steel - Black Oxide Finish or Stainless Nylon Pellet Locking Element								
Steel Part No.	Stainless Steel Part No.	Internal Thread 6H (2B)	External Thread 6g (2A)	Length mm	Length Inch	Tap Drill Size		Net lbs Per 100
29201	29221	M3 x 0.5	M6 x 1.0	6.5	.256	5.0	9	1/4
29202	29222	M4 x 0.7	M8 x 1.25	7.5	.296	6.75	H	1/2
29203	29223	M5 x 0.8	M8 x 1.25	7.5	.296	6.75	H	1/2
29204	29224	M6 x 1.0	M10 x 1.5	10.5	.414	8.5	Q	3/4
29205	29225	M8 x 1.25	M12 x 1.75	12.5	.493	10.0	Y	1
29206	29226	M10 x 1.5	M16 x 2.0	17.0	.670	14.0	35/64	2-3/4
29207	29227	M12 x 1.75	M16 x 2.0	17.0	.670	14.0	35/64	2
29208		M14 x 2.0	M20 x 2.5	18.0	.709	17.5	11/16	3-3/4
29209	29229	M16 x 2.0	M24 x 3.0	20.0	.788	21.0	53/64	6-1/2

Metric Class 6g/6H threads are suitable for applications where inch series Class 2A/2B were used.

\* Closest inch drill Approx. 75% thread

Metric Internal / Inch External					
Steel - Black Oxide Finish Nylon Pellet Locking Element					
Part No.	Int. Thread 6H (2B)	External Thread	Length	Tap Drill Size	Net lbs Per 100
29301	M3 x 0.5	12-24	1/4	16	1/4
29302	M4 x 0.7	1/4-28	9/32	3	1/2
29303	M5 x 0.8	5/16-18	5/16	F	1/4
29304	M6 x 1.0	3/8-16	13/32	5/16	1/2
29305	M8 x 1.25	1/2-13	31/64	27/64	1-1/4
29306	M10 x 1.5	9/16-12	33/64	31/64	1-1/4
29307	M12 x 1.75	3/4-10	21/32	21/32	3-3/4
29308	M14 x 2.0	7/8-9	11/16	49/64	2-3/4
29309	M16 x 2.0	1-8	25/32	7/8	8
29310	M11 x 1.5	5/8-11	19/32	17/32	2-1/2
29016	M14 x 1.25	7/8-14	11/16	13/16	6
29017	M18 x 1.5	1-14	25/32	15/16	7-1/4

## Re-Nu Thread™ Repair Kits

Steel				
<b>Zinc Plate Finish Kit No. 30001 Coarse Internal / Coarse External</b>				
Kit Consists of Quantity	Insert	Internal Thread	External Thread	Net lbs Per Kit
8	29001	10-24	3/8-16	1-1/2
8	29003	1/4-20	7/16-14	
8	29005	5/16-18	1/2-13	
6	29007	3/8-16	9/16-12	
6	29010	1/2-13	3/4-10	
4	29012	5/8-11	7/8-9	
4	29014	3/4-10	1-8	
<b>Zinc Plate Finish Kit No. 30002 Fine Internal / Coarse External</b>				
Kit Consists of Quantity	Insert	Internal Thread	External Thread	Net lbs Per Kit
8	29002	10-32	3/8-16	1-1/2
8	29004	1/4-28	7/16-14	
8	29006	5/16-24	1/2-13	
6	29008	3/8-24	9/16-12	
6	29011	1/2-20	3/4-10	
4	29016	M14 x 1.25	*7/8-14	
4	29017	M18 x 1.5	*1-14	
<b>Black Oxide Finish Kit No. 30201 Metric Internal / Metric External</b>				
Kit Consists of Quantity	Insert	Internal Thread	External Thread	Net lbs Per Kit
10	29202	M4 x 0.7	M8 x 1.25	1-1/2
10	29203	M5 x 0.8	M8 x 1.25	
10	29204	M6 x 1.0	M10 x 1.5	
10	29205	M8 x 1.25	M12 x 1.75	
8	29206	M10 x 1.5	M16 x 2.0	
6	29207	M12 x 1.75	M16 x 2.0	
4	29209	M16 x 2.0	M24 x 3.0	
<b>Black Oxide Finish Kit No. 30301 Metric Internal / Inch External</b>				
Kit Consists of Quantity	Insert	Internal Thread	External Thread	Net lbs Per Kit
10	29302	M4 x 0.7	1/4-28	1-1/2
10	29303	M5 x 0.8	5/16-18	
10	29304	M6 x 1.0	3/8-16	
10	29305	M8 x 1.25	1/2-13	
8	29306	M10 x 1.5	9/16-12	
6	29307	M12 x 1.75	3/4-10	
4	29309	M16 x 2.0	1-8	

Because special tools are not needed for Re-Nu Thread™ installation, these kits provide a quick, easy way to repair a wide range of threaded holes in many materials.

Contains assorted sizes and quantities of the most popular Re-Nu Thread™ Inserts.

Refills for the kits or any size Re-Nu Thread™ Inserts can be purchased separately, page 74.

\*Fine Thread.

Type 303 Stainless Steel				
<b>Kit No. 30101 Coarse Internal / Fine External</b>				
Kit Consists of Quantity	Insert	Internal Thread	External Thread	Net lbs Per Kit
8	29104	10-24	5/16-24	1
8	29106	1/4-20	3/8-24	
8	29108	5/16-18	7/16-20	
8	29110	3/8-16	1/2-20	
6	29112	7/16-14	9/16-18	
6	29114	1/2-13	5/8-18	
4	29116	5/8-11	3/4-16	
<b>Kit No. 30102 Fine Internal / Fine External</b>				
Kit Consists of Quantity	Insert	Internal Thread	External Thread	Net lbs Per Kit
8	29105	10-32	5/16-24	1
8	29107	1/4-28	3/8-24	
8	29109	5/16-24	7/16-20	
8	29111	3/8-24	1/2-20	
6	29113	7/16-20	9/16-18	
6	29115	1/2-20	5/8-18	
4	29117	5/8-18	3/4-16	
<b>Kit No. 30202 Metric Internal / Metric External</b>				
Kit Consists of Quantity	Insert	Internal Thread	External Thread	Net lbs Per Kit
10	29222	M4 x 0.7	M8 x 1.25	1-1/2
10	29223	M5 x 0.8	M8 x 1.25	
10	29224	M6 x 1.0	M10 x 1.5	
10	29225	M8 x 1.25	M12 x 1.75	
8	29226	M10 x 1.5	M16 x 2.0	
6	29227	M12 x 1.75	M16 x 2.0	
4	29229	M16 x 2.0	M24 x 3.0	



Packaged in a convenient, sturdy, styrene box for use in home, shop or field.