

TPGH

Triangle-positive Rake With Hole & Chip Breaker

- Positive rake insert for turning, facing and countersinking.
- Single-sided insert with precision ground chip control.
- Use on small machines.
- 11° relief angle.
- Feed range: .005 to .015" IPR.



Insert Standard		Size			Grade
ANSI Standard	ISO Standard	I.C.	T.	R.	
TPGH-21.50	TPGH-110202	1/4"	3/32"	.008"	C2
TPGH-21.50	TPGH-110202	1/4"	3/32"	.008"	C5 C6
TPGH-21.50	TPGH-110202	1/4"	3/32"	.008"	TIN COATED
TPGH-21.51	TPGH-110204	1/4"	3/32"	1/64"	C2
TPGH-21.51	TPGH-110204	1/4"	3/32"	1/64"	C5 C6
TPGH-21.51	TPGH-110204	1/4"	3/32"	1/64"	TIN COATED
TPGH-21.52	TPGH-110208	1/4"	3/32"	1/32"	C2
TPGH-21.52	TPGH-110208	1/4"	3/32"	1/32"	C5 C6
TPGH-21.52	TPGH-110208	1/4"	3/32"	1/32"	TIN COATED
TPGH-231	TPGH-110404	1/4"	3/16"	1/64"	C2
TPGH-231	TPGH-110404	1/4"	3/16"	1/64"	C5 C6
TPGH-231	TPGH-110404	1/4"	3/16"	1/64"	TIN COATED
TPGH-32.52	TPGH-160302	3/8"	5/32"	1/32"	C2
TPGH-32.52	TPGH-160302	3/8"	5/32"	1/32"	C5 C6
TPGH-32.52	TPGH-160302	3/8"	5/32"	1/32"	TIN COATED
TPGH-321	TPGH-160302	3/8"	1/8"	1/64"	C2
TPGH-321	TPGH-160302	3/8"	1/8"	1/64"	C5 C6
TPGH-321	TPGH-160302	3/8"	1/8"	1/64"	TIN COATED
TPGH-322	TPGH-160302	3/8"	1/8"	1/32"	C2
TPGH-322	TPGH-160302	3/8"	1/8"	1/32"	C5 C6
TPGH-322	TPGH-160302	3/8"	1/8"	1/32"	TIN COATED
TPGH-431	TPGH-220404	1/2"	3/16"	1/64"	C2
TPGH-431	TPGH-220404	1/2"	3/16"	1/64"	C5 C6
TPGH-431	TPGH-220404	1/2"	3/16"	1/64"	TIN COATED
TPGH-432	TPGH-220408	1/2"	3/16"	1/32"	C2
TPGH-432	TPGH-220408	1/2"	3/16"	1/32"	C5 C6
TPGH-432	TPGH-220408	1/2"	3/16"	1/32"	TIN COATED

TPU

Triangle - Positive Rake Insert (Utility)

- Use in difficult-to-machine material, long or thin walled parts.
- Utility ground for general purpose machining.
- 11° relief angle.
- Feed range: .003 to .025" IPR.



Insert Standard		Size			Grade
ANSI Standard	ISO Standard	I.C.	T.	R.	
TPU-222	TPUN-110308	1/4"	1/8"	1/32"	C2
TPU-222	TPUN-110308	1/4"	1/8"	1/32"	C5 C6
TPU-222	TPUN-110308	1/4"	1/8"	1/32"	TIN COATED
TPU-322	TPUN-160308	3/8"	1/8"	1/32"	C2
TPU-322	TPUN-160308	3/8"	1/8"	1/32"	C5 C6
TPU-322	TPUN-160308	3/8"	1/8"	1/32"	TIN COATED
TPU-323	TPUN-160312	3/8"	1/8"	3/64"	C2
TPU-323	TPUN-160312	3/8"	1/8"	3/64"	C5 C6
TPU-323	TPUN-160312	3/8"	1/8"	3/64"	TIN COATED
TPU-432	TPUN-220408	1/2"	3/16"	1/32"	C2
TPU-432	TPUN-220408	1/2"	3/16"	1/32"	C5 C6
TPU-432	TPUN-220408	1/2"	3/16"	1/32"	TIN COATED
TPU-433	TPUN-220412	1/2"	3/16"	3/64"	C2
TPU-433	TPUN-220412	1/2"	3/16"	3/64"	C5 C6
TPU-433	TPUN-220412	1/2"	3/16"	3/64"	TIN COATED
TPU-434	TPUN-220416	1/2"	3/16"	1/16"	C2
TPU-434	TPUN-220416	1/2"	3/16"	1/16"	C5 C6
TPU-434	TPUN-220416	1/2"	3/16"	1/16"	TIN COATED

TPMR

Triangle-positive Rake Insert With Chip Control

- Single-sided with molded chip control.
- Feed range .005 to .015" per revolution.
- 11° relief angle.



Insert Standard		Size			Grade
ANSI Standard	ISO Standard	I.C.	T.	R.	
TPMR-221	TPMR-110304	1/4"	1/8"	1/64"	C2
TPMR-221	TPMR-110304	1/4"	1/8"	1/64"	C5 C6
TPMR-221	TPMR-110304	1/4"	1/8"	1/64"	TIN COATED
TPMR-222	TPMR-110308	1/4"	1/8"	1/32"	C2
TPMR-222	TPMR-110308	1/4"	1/8"	1/32"	C5 C6
TPMR-222	TPMR-110308	1/4"	1/8"	1/32"	TIN COATED
TPMR-321	TPMR-160304	3/8"	1/8"	1/64"	C2
TPMR-321	TPMR-160304	3/8"	1/8"	1/64"	C5 C6
TPMR-321	TPMR-160304	3/8"	1/8"	1/64"	TIN COATED

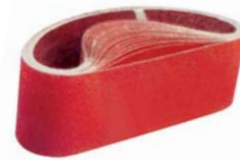
VNMG

35° Diamond With Hole & Molded Chipbreaker

- Molded chip control on both sides.
- Feed range .008 to .018"
- Per revolution.
- 0° relief angle.



Insert Standard		Size			Grade
ANSI Standard	ISO Standard	I.C.	T.	R.	
VNMG-331	VNMG-160404	3/8"	3/16"	1/64"	C2
VNMG-331	VNMG-160404	3/8"	3/16"	1/64"	C5 C6
VNMG-331	VNMG-160404	3/8"	3/16"	1/64"	TIN COATED
VNMG-332	VNMG-160408	3/8"	3/16"	1/32"	C2
VNMG-332	VNMG-160408	3/8"	3/16"	1/32"	C5 C6
VNMG-332	VNMG-160408	3/8"	3/16"	1/32"	TIN COATED
VNMG-431	VNMG-220404	1/2"	3/16"	1/64"	C2
VNMG-431	VNMG-220404	1/2"	3/16"	1/64"	C5 C6
VNMG-431	VNMG-220404	1/2"	3/16"	1/64"	TIN COATED



**Abrasive Belts**  
**Aluminum Oxide-Resin Bond Cloth**

For general purpose grinding and finishing.



Size	Grit	Model No.
1" x 30"	36	B130-36
	60	B130-60
	80	B130-80
	100	B130-100
	120	B130-120
	180	B130-180
1" x 42"	36	B142-36
	40	B142-40
	50	B142-50
	60	B142-60
	80	B142-80
	100	B142-100
1" x 72"	36	B172-36
	50	B172-50
	60	B172-60
	80	B172-80
	120	B172-120
	180	B172-180
1-1/2 x 60"	40	B1560-40
	50	B1560-50
	60	B1560-60
	80	B1560-80
	120	B1560-120
	150	B1560-150
2" x 30"	60	B230-60
	80	B230-80
	120	B230-120
	220	B230-220
	36	B248-36
	40	B248-40
2" x 48"	50	B248-50
	60	B248-60
	80	B248-80
	100	B248-100
	120	B248-120
	150	B248-150
2" x 60"	36	B260-36
	40	B260-40
	50	B260-50
	60	B260-60
	80	B260-80
	100	B260-100

Size	Grit	Model No.
2" x 60"	50	B260-50
	60	B260-60
	80	B260-80
	100	B260-100
	120	B260-120
	180	B260-180
2" x 72"	36	B272-36
	40	B272-40
	50	B272-50
	60	B272-60
	80	B272-80
	100	B272-100
2" x 132"	36	B2132-36
	50	B2132-50
	60	B2132-60
	80	B2132-80
	120	B2132-120
	150	B2132-150
2-1/2 x 60"	36	B2560-36
	40	B2560-40
	50	B2560-50
	60	B2560-60
	80	B2560-80
	100	B2560-100
2-1/2 x 72"	36	B2572-36
	50	B2572-50
	60	B2572-60
	80	B2572-80
	120	B2572-120
	150	B2572-150
3" x 21"	36	B321-36
	40	B321-40
	50	B321-50
	60	B321-60
	80	B321-80
	100	B321-100

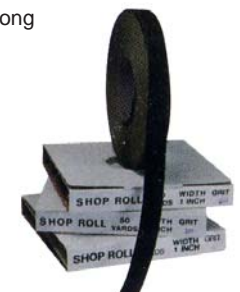
Size	Grit	Model No.
3" x 21"	100	B321-100
	120	B321-120
	150	B321-150
	180	B321-180
	36	B324-36
	40	B324-40
3" x 24"	50	B324-50
	60	B324-60
	80	B324-80
	100	B324-100
	120	B324-120
	150	B324-150
3" x 132"	36	B3132-36
	40	B3132-40
	50	B3132-50
	60	B3132-60
	80	B3132-80
	100	B3132-100
4" x 24"	36	B424-36
	40	B424-40
	50	B424-50
	60	B424-60
	80	B424-80
	100	B424-100
4" x 36"	36	B436-36
	40	B436-40
	50	B436-50
	60	B436-60
	80	B436-80
	100	B436-100
4" x 48"	60	B448-60
	80	B448-80
	100	B448-100
	120	B448-120
	150	B448-150
	180	B448-180

Size	Grit	Model No.
4" x 54"	36	B454-36
	40	B454-40
	50	B454-50
	60	B454-60
	80	B454-80
	100	B454-100
4" x 132"	36	B4132-36
	40	B4132-40
	50	B4132-50
	60	B4132-60
	80	B4132-80
	120	B4132-120
6" x 48"	36	B648-36
	40	B648-40
	50	B648-50
	60	B648-60
	80	B648-80
	100	B648-100
8" x 107"	36	B8107-36
	40	B8107-40
	50	B8107-50
	60	B8107-60
	80	B8107-80
	100	B8107-100
37" x 60"	60	B3760-60
	80	B3760-80
	100	B3760-100
	120	B3760-120
	150	B3760-150
	180	B3760-180

**Coated Abrasive Sheets and Rolls**  
**Shop Rolls**

- 50 yds, Aluminum oxide cloth
- Excellent in grain adherence
- Economy in usage
- Efficient cutting
- Clean sanding

Model No.			Grit
1"	1-1/2"	2"	
CR1-40	CR15-40	CR2-40	40#
CR1-60	CR15-60	CR2-60	60#
CR1-80	CR15-80	CR2-80	80#
CR1-100	CR15-100	CR2-100	100#
CR1-120	CR15-120	CR2-120	120#
CR1-150	CR15-150	CR2-150	150#
CR1-180	CR15-180	CR2-180	180#
CR1-220	CR15-220	CR2-220	220#
CR1-240	CR15-240	CR2-240	240#
CR1-320	CR15-320	CR2-320	320#
CR1-400	CR15-400	CR2-400	400#



Model No.: CRIS-80/120/180

**Aluminum Oxide Cloth Sheets**

(9" x 11")

Model No.	Grit	Model No.	Grit
CS-40	40#	CS-150	150#
CS-60	60#	CS-180	180#
CS-80	80#	CS-240	240#
CS-100	100#	CS-320	320#
CS-120	120#		



**Wet or Dry Silicon Carbide Finishing Paper**

(9" x 11")

Model No.	Grit	Model No.	Grit
SCP-60	60#	SCP-280	280#
SCP-80	80#	SCP-320	320#
SCP-100	100#	SCP-360	360#
SCP-120	120#	SCP-400	400#
SCP-180	180#	SCP-500	500#
SCP-220	220#	SCP-600	600#
SCP-240	240#		

