DIE GRINDER

STRAIGHT SHAFT GRINDER

METALWORKING MOUNTED POINTS

TYPICAL APPLICATIONS

- Blending contours
- Deburring molded parts
- Mold production
- Off-hand bench grinding
- Tool & die

NORTON 3SG

Norton 3SG mounted wheels are designed for maximum productivity and versatility to lower total-per-part grinding costs.

new

BEST	3SG
FEATURES	***BENEFITS***
• High performance proprietary seeded gel ceramic aluminum oxide abrasive	• Fast stock removal, cool superior cutting • 3 times more life than aluminum oxide wheels, for maximum productivity
• Self-sharpening abrasive	• Less burn, less dressing; most consistent performing mounted point

32A

Norton 32A is the benchmark in mounted points. Its versatility and performance increase your productivity when compared to other aluminum oxide products.

new

BETTER	32A
FEATURES	***BENEFITS***
• Sharp monocrystalline grain	• Outstanding life, free cutting
• Proven bond technology	• Consistent wheel to wheel

PACESETTER

Pacesetter is a stock offering of high-quality, pre-engineered vitrified mounted points, available in a full range of standard shapes and spindles including 1/8" x 1- 1/2", 1/4" x 1-1/2", and some 3/8" x 2".

EXPANDED OFFERING

GOOD	Pacesetter
FEATURES	***BENEFITS***
• 38A abrasive	• Cool cutting, less burn
• Diverse shapes and sizes	• Ideal when initial price is the main consideration • Great choice for small job shops

METALWORKING MOUNTED POINTS – A SHAPES

NEW MINIMUM QUANTITY 5

						BEST		BETTER		GOOD	
SHAPE	SIZE D X T	SPINDLE†	MAX. RPM*	MIN PKG.	STD. PKG	SPEC	UPC NO.	SPEC	UPC NO.	SPEC	PACESETTER UPC NO.
A1	3/4 X 2-1/2	1/4	20,960	5	25	3SG60-T5VH	61463643829	32A60-TVBEM	61463622277	38A CRS	61463624374
A1	3/4 X 2-1/2	1/4	20,960	5	25					38A M	61463624375
A1	3/4 X 2-1/2	1/4	20,960	5	25					38A M H	61463643822
A2	1 X 1-1/4	1/4	32,420	5	25					38A M	61463624376
A3	1 X 2-3/4	1/4	15,530	5	25	3SG60-T5VH	61463644012	32A60-TVBEM	61463636278	38A CRS	61463624377
A3	1 X 2-3/4	1/4	15,530	5	25					38A M	61463624378
A3	1 X 2-3/4	1/4	15,530	5	25					38A M H	61463643830
A4	1-1/4 X 1-1/4	1/4	28,550	5	25					38A CRS	61463624379
A4	1-1/4 X 1-1/4	1/4	28,550	5	25					38A M	61463624380
A5	3/4 X 1-1/8	1/4	38,550	5	25	3SG60-T5VH	61463644013	32A60-TVBEM	61463607329	38A CRS	61463624381
A5	3/4 X 1-1/8	1/4	38,550	5	25					38A M	61463624382
A5	3/4 X 1-1/8	1/4	38,550	5	25					38A M H	61463643831
A6	3/4 X 1-1/8	1/4	38,550	5	25					38A M	61463624383
A11	7/8 X 2	1/4	25,420	5	25					38A CRS	61463624384
A11	7/8 X 2	1/4	25,420	5	25					38A M	61463624385
A12	11/16 X 1-1/4	1/4	38,050	5	25					38A CRS	61463624387
A12	11/16 X 1-1/4	1/4	38,050	5	25					38A M	61463624388
A13	1-1/8 X 1-1/8	1/4	31,850	5	25					38A M	61463624389
A14	11/16 X 7/8	1/4	43,440	5	25					38A M	61463624390
A15	1/2 X 1-1/16	1/4	50,510	5	25					38A M	61463624391
A21	1 X 1	1/4	35,510	5	25					38A M	61463624392
A22	3/4 X 5/8	1/4	46,120	5	25					38A M	61463624393
A23	3/4 X 1	1/4	40,300	5	25					38A M	61463624394
A24	1/4 X 3/4	1/4	56,000	5	25	3SG60-T5VH	61463644014	32A60-TVBEM	61463643890	38A M	61463624395
A24	1/4 X 3/4	1/4	56,000	5	25					38A M H	61463643832
A25	1" BALL	1/4	35,510	5	25	3SG60-T5VH	61463644015			38A M	61463624396
A25	1" BALL	1/4	35,510	5	25					38A M H	61463643833
A26	5/8" BALL	1/4	48,980	5	25	3SG60-T5VH	61463644016	32A60-TVBEM	61463643891	38A M	61463624397
A26	5/8" BALL	1/4	48,980	5	25					38A M H	61463643834
A31	1-3/8 X 1	1/4	27,780	5	25					38A CRS	61463624398
A31	1-3/8 X 1	1/4	27,780	5	25					38A M	61463624399
A32	1 X 5/8	1/4	38,200	5	25					38A M	61463624400
A33	1 X 1/2	1/4	38,200	5	25					38A M	61463624401
A34	1-1/2 X 3/8	1/4	25,460	5	25					38A M	61463624402
A35	1 X 3/8	1/4	38,200	5	25					38A M	61463624403
A36	1-5/8 X 3/8	1/4	23,510	5	25	3SG60-T5VH	61463644017	32A60-TVBEM	61463643892	38A M	6
A36			1-5/8 X 3/8	1/4	23,510	5	25			38A M H	61463643
A37			1-1/4 X 1/4	1/4	30,560	5	25	3SG60-T5VH	61463644018	32A60-TVBEM	6
A37			1-1/4 X 1/4	1/4	30,560	5	25			38A M H	61463643
A38			1 X 1	1/4	35,510	5	25	3SG60-T5VH	61463644019	32A60-TVBEM	6
A38			1 X 1	1/4	35,510	5	25			38A M H	61463643
A39			3/4 X 3/4	1/4	44,030	5	25	3SG60-T5VH	61463644020	32A60-TVBEM	6
A39			3/4 X 3/4	1/4	44,030	5	25			38A M H	61463643
A40	3/4" BALL	1/4	44,030	5	25					38A M	61463624408

†STANDARD SHANK SIZE IS 1/8" OR 1/4" X 1-1/2".
*MAXIMUM OPERATING SPEED BASED ON 1/2" OVERHANG.

Note new speeds as defined by ANSI B7.1-2000 on pages 119 - 136.

SpecCheck
PACESETTER SPECIFICATIONS

SPECIFICATION	GRIT / GRADE
CRS	Coarse - 36 grit / hard grade
M	Medium - 60 grit / medium grade
M H	Medium - 60 grit / hard grade
M/F	Medium/fine - 90 grit / medium grade
M/F H	Medium/fine - 90 grit / hard grade

METALWORKING MOUNTED POINTS – W SHAPES (CONTINUED)

NEW MINIMUM QUANTITY 5

						BEST		BETTER		GOOD	
SHAPE	SIZE D X T	SPINDLE†	MAX. RPM*	MIN PKG.	STD. PKG	SPEC	UPC NO.	SPEC	UPC NO.	SPEC	PACESETTER UPC NO.
W178	3/8 X 1	1/8	29,760	5	25					38A M	61463624519
W179	3/8 X 1-1/4	1/8	39,760	5	25					38A M	61463624520
W181	1/2 X 1/16	1/8	73,440	5	25					38A M	61463624521
W182	1/2 X 1/8	1/8	66,810	5	25					38A M	61463624522
W183	1/2 X 1/4	1/8	57,510	5	25					38A M	61463624523
W184	1/2 X 3/8	1/8	49,680	5	25					38A M	61463624524
W185	1/2 X 1/2	1/8	42,750	5	25	3SG60-T5VH	61463644046	32A60-TVBEM	61463606981	38A M	61463624525
W185	1/2 X 1/2	1/4	44,470	5	25	3SG60-T5VH	61463644047	32A60-TVBEM	61463644002	38A M	61463624526
W185	1/2 X 1/2	1/8	42,750	5	25					38A M H	61463643875
W185	1/2 X 1/2	1/4	44,470	5	25					38A M H	61463643876
W185	1/2 X 1/2	1/8	42,750	5	25					38A M/F	61463624527
W186	1/2 X 3/4	1/8	31,220	5	25					38A M	61463624597
W186	1/2 X 3/4	1/4	40,500	5	25	3SG60-T5VH	61463644048	32A60-TVBEM	61463644003	38A M	61463624528
W186	1/2 X 3/4	1/4	40,500	5	25					38A M H	61463643877
W187	1/2 X 1	1/8	22,630	5	25					38A M	61463624529
W188	1/2 X 1-1/2	1/4	31,070	5	25	3SG60-T5VH	61463644049	32A60-TVBEM	61463644004	38A M	61463624530
W188	1/2 X 1-1/2	1/4	31,070	5	25					38A M H	61463643878
W189	1/2 X 2	1/4	26,830	5	25					38A M	61463624531
W190	5/8 X 1/16	1/8	61,120	5	25					38A M	61463624532
W191	5/8 X 1/8	1/8	59,390	5	25					38A M	61463624533
W192	5/8 X 1/4	1/8	50,240	5	25					38A M	61463624534
W193	5/8 X 3/8	1/8	42,550	5	25					38A M	61463624535
W194	5/8 X 1/2	1/4	42,190	5	25					38A M	61463624537
W194	5/8 X 1/2	1/8	35,770	5	25					38A M	61463624536
W195	5/8 X 3/4	1/8	24,530	5	25					38A M	61463624538
W196	5/8 X 1	1/4	34,670	5	25					38A M	61463624539
W197	5/8 X 2	1/4	24,550	5	25					38A M	61463624540
W198	5/8 X 2-1/2	1/4	21,950	5	25					38A M	61463624541
W199	3/4 X 1/16	1/8	50,930	5	25					38A M	61463624542
W200	3/4 X 1/8	1/8	50,930	5	25	3SG60-T5VH	61463644050	32A60-TVBEM	61463644005	38A M	61463624543
W200	3/4 X 1/8	1/8	50,930	5	25					38A M H	61463643879
W200	3/4 X 1/8	1/8	50,930	5	25					38A M/F	61463624544
W201	3/4 X 1/4	1/8	43,330	5	25					38A M	61463624545
W202	3/4 X 3/8	1/8	35,790	5	25					38A M	61463624546
W203	3/4 X 1/2	1/8	29,150	5	25					38A M	61463624547
W203	3/4 X 1/2	1/4	40,480	5	25	3SG60-T5VH	61463644051	32A60-TVBEM	61463644006	38A M	61463624548
W203	3/4 X 1/2	1/4	40,480	5	25					38A M H	61463643880
W204	3/4 X 3/4	1/4	36,510	5	25	3SG60-T5VH	61463644052	32A60-TVBEM	61463606264	38A M	61463624549
W204	3/4 X 3/4	1/4	36,510	5	25					38A M H	61463643881
W205	3/4 X 1	1/4	32,950	5	25	3SG60-T5VH	61463644053	32A60-TVBEM	61463613887	38A M	61463624550
W205	3/4 X 1	1/4	32,950	5	25					38A M H	61463643882
W206	3/4 X 1-1/4	1/4	29,810	5	25					38A M	61463624551
W207	3/4 X 1-1/2	1/4	27,070	5	25	3SG60-T5VH	61463644054	32A60-TVBEM	61463644007	38A M	61463624552
W207	3/4 X 1-1/2	1/4	27,070	5	25					38A M H	61463643883
W208	3/4 X 2	1/4	22,830	5	25	3SG60-T5VH	61463644055	32A60-TVBEM	61463644008	38A M	61463624553
W208	3/4 X 2	1/4	22,830	5	25					38A M H	61463643884
W209	3/4 X 2-1/2	1/4	20,240	5	25					38A M	61463624554
W210	7/8 X 1/16	1/8	43,650	5	25					38A M	61463624555
W211	7/8 X 1/8	1/8	43,650	5	25					38A M	61463624556

†STANDARD SHANK SIZE IS 1/8" OR 1/4" X 1-1/2".
*MAXIMUM OPERATING SPEED BASED ON 1/2" OVERHANG.

Note new speeds as defined by ANSI B7.1-2000 on pages 119 - 136.