



Workblades Inc

We can handle any of your
Manufacturing or Repair Needs

CARBIDE TIPPED

- Rest Blades
- Blades Guides
- Cast Iron Rest Blades
- Gibbs & V-Chutes
- Straightener Blades
- Kicker Bar
- Ceramic Rest Blades
- Ampco Rest Blades
- Step Blades (As Close As .00002)
- Overhead Guide Supports & Blades
- High Speed Steel Rest Blades

CAMS

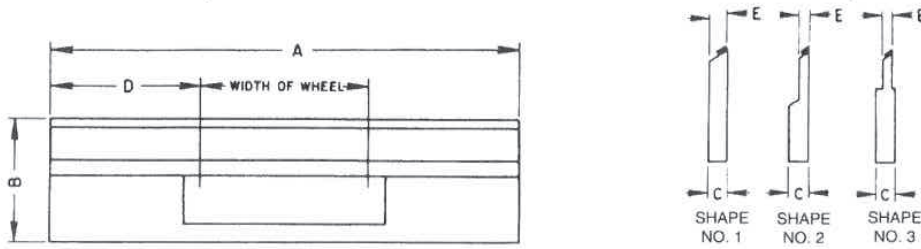
- Grinding Wheel
- Feed Wheel
- Profile
- Followers

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CENTERLESS GRINDER BLADES

FOR THRUFEED WORK RESTS

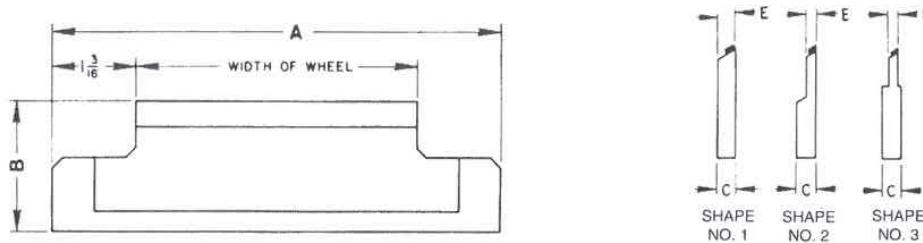


NO. 0 CENTERLESS, MODEL LO AND NO. 107-4 CENTERLESS, MODEL LM

WORKREST WHEEL WIDTH AND TYPE	MAX. WORK LENGTH	WORK DIAMETER RANGE	CARBIDE TIPPED	HIGH SPEED STEEL	SHAPE NUMBER	DIMENSIONS				
						A	B	C	D	E
4" THRUFEED	7"	.030 -.060	261812	258690	3	13.125	2.125	.50	4.25	.025
		.060 -.125	261813	258691	3	13.125	2.125	.50	4.25	.055
		.125 -.250	261814	258692	3	13.125	2.125	.50	4.25	.105
		.250 -.500		261819	3	13.125	2.125	.50	4.25	.234
		.250 -.500	261815		3	13.125	2.125	.50	4.25	.187
		.500 -1.00	261816	261820	2	13.125	2.000	.50	4.25	.468
		1.00 -1.50	275495	275496	1	13.125	1.500	.50	4.25	.500
	10"	.125 -.250	275479	275504	3	17.125	2.125	.50	6.25	.105
		.250 -.500		275505	3	17.125	2.125	.50	6.25	.234
		.250 -.500	275481		3	17.125	2.125	.50	6.25	.187
		.500 -1.00	275482	275506	2	17.125	2.125	.50	6.25	.468
		1.00 -1.50	275483	275507	1	17.125	1.500	.50	6.25	.500

FOR INFEEED WORK RESTS

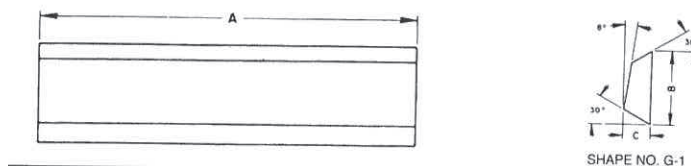
NO.0 CENTERLESS, MODEL LO AND NO. 107-4 CENTERLESS, MODEL LM



WORKREST WHEEL WIDTH AND TYPE	MAX. WORK LENGTH	WORK DIAMETER RANGE	CARBIDE TIPPED	HIGH SPEED STEEL	SHAPE NO.	DIMENSIONS			
						A	B	C	D
4" INFEEED	4"	.030-.060	261807	258694	3	6.375	2.187	.50	.025
		.060-.125	261808	258695	3	6.375	2.187	.50	.055
		.125-.250	261809	258696	3	6.375	2.187	.50	.105
		.250-.500		261817	3	6.375	2.187	.50	.234
		.250-.500	261810		3	6.375	2.187	.50	.187
		.500-1.00	261811	261818	2	6.375	2.125	.50	.468
		1.00-1.50	275498	275493	1	6.375	1.750	.50	.500

GUIDES - THRUFEED WORK RESTS

NO.0 CENTERLESS, MODEL LO AND NO. 107-4 CENTERLESS, MODEL LM

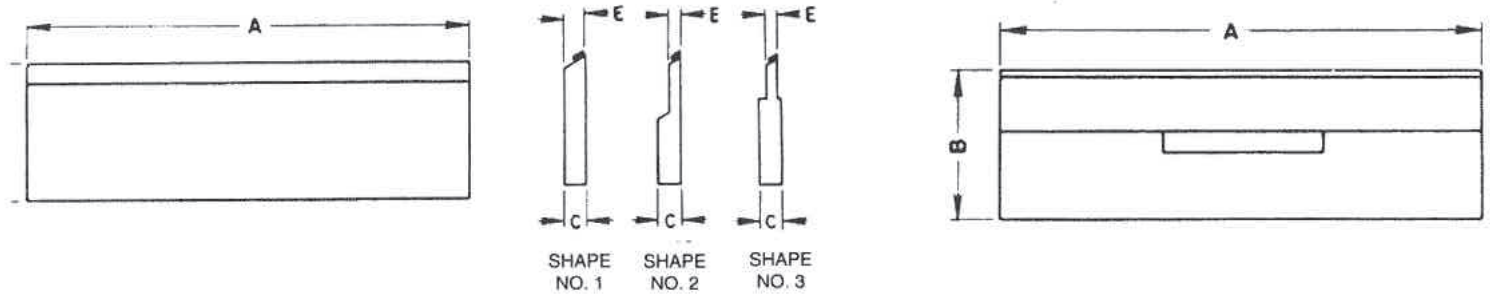


WORKREST WHEEL WIDTH AND TYPE	MAX. WORK LENGTH	WORK DIAMETER RANGE	HIGH SPEED STEEL PART NO.	SHAPE NO.	NO. REQ'D	DIMENSIONS		
						A	B	C
4" THRUFEED	7"	.060 -1.50	HS-258533	G-1	4	4.500	.937	.375
	10"	.060 -1.50	HS-277101	G-1	4	6.500	.937	.375

CENTERLESS GRINDER BLADES

FOR THRUFEED WORKRESTS

NO. 2 CENTERLESS, MODELS OM, OMV AND EA; NO.3 CENTERLESS, MODEL EA
NO. 4 CENTERLESS, MODEL EA; CINCO 15 CENTERLESS, MODEL DE



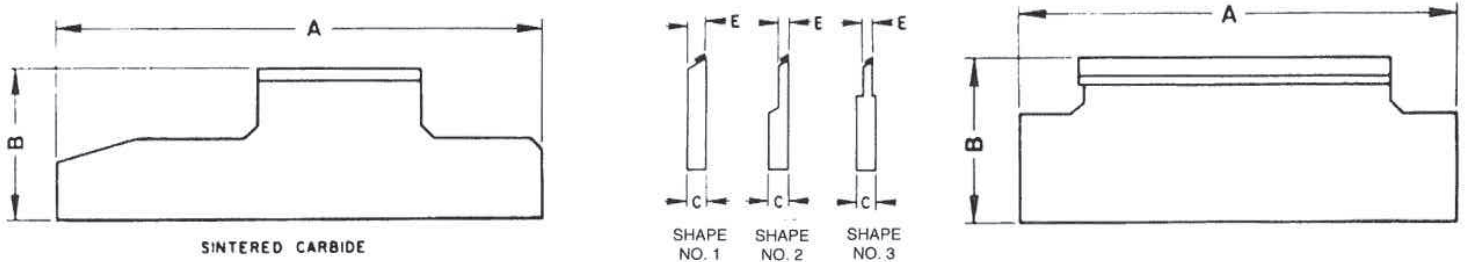
WORK REST WHEEL WIDTH AND TYPE	MAX. WORK LENGTH	WORK DIAMETER RANGE	CARBIDE TIPPED	HIGH SPEED STEEL	SHAPE NO.	DIMENSIONS			
						A	B	C	E
4" THRUFEED	7"	.060-.080	223-1	211284	3	13.75	3.625	.50	.050
		.080-.100	223-2	211285	3	13.75	3.625	.50	.070
		.100-.125	223-3	211286	3	13.75	3.625	.50	.090
		.125-.250	223935	206864	3	13.75	3.625	.50	.100
		.250-.500	223898	206855	3	13.75	3.500	.50	.218
		.500-1.50	223871	206299	2	13.75	3.500	.50	.468
	13"	1.50-3.00	223892	206865	1	13.75	3.000	.50	.500
		.125-.250		210446	3	24.00	3.625	.50	.100
		.250-.500	223895	206859	3	24.00	3.500	.50	.218
		.500-1.50	223870	206298	2	24.00	3.500	.50	.468
4" LOW THRUFEED	7"	2.00-4.75	223871	206299	2	13.75	3.500	.50	.468
	13"	2.00-4.75	223870	206298	2	24.00	3.500	.50	.468
6" THRUFEED	7"	.060-.080	223-4	255853	3	15.25	3.625	.50	.050
		.080-.100	223-5	255854	3	15.25	3.625	.50	.070
		.100-.125	223-6	255855	3	15.25	3.625	.50	.090
		.125-.250	223936	213127	3	15.25	3.625	.50	.100
		.250-.500	223899	213126	3	15.25	3.500	.50	.218
		.500-1.50	223876	206872	2	16.50	3.500	.50	.468
	8"	1.50-3.00	223909	206870	1	16.50	3.000	.50	.500
		.125-.250		213000	3	24.00	3.625	.50	.100
	13"	.250-.500	223896	254953	3	24.00	3.500	.50	.218
		.500-1.50	223870	206298	2	24.00	3.500	.50	.468
		1.50-3.00	223891	206875	1	24.00	3.000	.50	.500
		2.00-4.75	223876	206872	2	16.50	3.500	.50	.468
6" LOW THRUFEED	13"	2.00-4.75	223870	206298	2	24.00	3.500	.50	.468
8" THRUFEED	7"	.060-.080	223-7	255856	3	17.25	3.625	.50	.050
		.080-.100	223-8	255857	3	17.25	3.625	.50	.070
		.100-.125	223-9	255858	3	17.25	3.625	.50	.090
		.125-.250	223937	206863	3	17.25	3.625	.50	.100
		.250-.500	223900	206862	3	17.25	3.500	.50	.218
		.500-1.50	501029	206872	2	17.25	3.500	.50	.468
	13"	1.50-3.00	701029	206870	1	17.25	3.000	.50	.500
		.250-.500	223897	254954	3	24.00	3.500	.50	.218
8" LOW THRUFEED	13"	.500-1.50	223870	206298	2	24.00	3.500	.50	.468
		1.50-3.00	223891	206875	1	24.00	3.000	.50	.500
		2.00-4.75	223876	206872	2	16.50	3.500	.50	.468
10" THRUFEED	7"	2.00-4.75	223870	206298	2	24.00	3.500	.50	.468
		.125-.250	255233	255245	3	19.25	3.625	.50	.090
		.250-.500	255234	255246	3	19.25	3.500	.50	.218
	15"	.500-1.50	255235	255247	2	19.25	3.500	.50	.468
		1.50-3.00	255236	255248	1	19.25	3.000	.50	.500
		.250-.500	255237	255249	3	30.00	3.500	.50	.218
		.500-1.50	255238	255250	2	30.00	3.500	.50	.468
8" HEAVY DUTY (NOS. 3 & 4 ONLY)	18"	1.50-3.00	255239	255251	1	30.00	3.000	.50	.500
		2.00-5.00	223882	207747	1	30.00	5.000	.75	.750
		5.00-6.00	223879	207748	1	30.00	3.875	.75	.750

Blades listed on pages 3 & 4 are available in E dimension sizes .030, .040, .060, .187, .312.

CENTERLESS GRINDER BLADES

FOR INFEEED & ROLLER INFEEED WORK RESTS

NO.2 CENTERLESS, MODELS OM, OMV AND EA; CINCO 15 CENTERLESS, MODEL DE



SINTERED CARBIDE

SHAPE
NO. 1

SHAPE
NO. 2

SHAPE
NO. 3

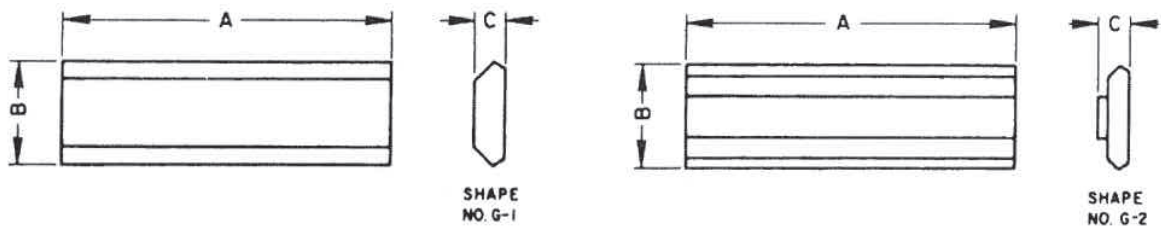
WORK REST WHEEL WIDTH AND TYPE	MAX. WORK LENGTH	WORK DIAMETER RANGE	CARBIDE TIPPED	HIGH SPEED STEEL	SHAPE NO.	DIMENSIONS			
						A	B	C	E
4" INFEEED AND ROLLER IN FEED	4"	.125-.250	223938	206858	3	12.50	3.625	.50	.100
		.250-.500	223872	206854	3	12.50	3.500	.50	.234
		.500-1.50	223877	206873	2	12.50	3.500	.50	.468
		1.50-3.00	223875	206879	1	12.50	3.000	.50	.500
6" INFEEED AND ROLLER INFEEED	6"	.125-.250	223939	206857	3	12.50	3.625	.50	.100
		.250-.500	223901	206860	3	12.50	3.500	.50	.234
		.500-1.50	223874	206868	2	12.50	3.500	.50	.468
		1.50-3.00	223893	206867	1	12.50	3.000	.50	.500
8" INFEEED AND ROLLER INFEEED	8"	.125-.250	223940	206856	3	12.50	3.625	.50	.100
		.250-.500	223854	206861	3	12.50	3.500	.50	.234
		.500-1.50	223878	206874	2	12.50	3.500	.50	.468
		1.50-3.00	223873	206866	1	12.50	3.000	.50	.500

BLADES - INFEEED WORK RESTS NOS. 3 AND 4 CENTERLESS, MODEL EA

4" INFEEED	4"	.500-3.00	223861		2	10.75	4.500	.75	.437
		3.00-6.00	223858		1	10.75	3.625	.75	.750
6" INFEEED	6"	.500-3.00	223859	218282	2	10.75	4.500	.75	.437
		3.00-6.00	223894	218281	1	10.75	3.625	.75	.150
8" INFEEED	8"	.500-3.00	223869	216958	2	10.75	4.500	.75	.437
		3.00-6.00	223856	218614	1	10.75	3.625	.75	.750
10" INFEEED	10"	.500-3.00	223860		2	12.75	4.500	.75	.437
		3.00-6.00	223862		1	10.75	3.625	.75	.750

GUIDES - THRUFEED WORK RESTS

NO.2 CENTERLESS, MODELS OM AND EA; NO. 3 CENTERLESS, MODEL EA; NO. 4 CENTERLESS, MODEL EA; CINCO 15 CENTERLESS, MODEL DE



SHAPE
NO. G-1

SHAPE
NO. G-2

WORK REST WHEEL WIDTH AND TYPE	MAX. WORK LENGTH	WORK DIAMETER RANGE	HIGH SPEED STEEL PART NO.	SHAPE NO.	NO. REQ'D	DIMENSIONS		
						A	B	C
4", 6", 8", 10" THRUFEED	7"	.062-.500	H5223418	G-2	4	4.50	2.328	.50
	7"	.500-3.00	H5223414	G-1	4	4.50	2.328	.25
	13"	.062-.500	H5223487	G-2	4	10.00	2.328	.50
	13"	.500-3.00	H5223488	G-1	4	10.00	2.328	.50
4", 6", 8" LOW THRUFEED	7"	±2.00-4.75	H5223416	G-1	4	4.50	1.906	.25
	13"	±2.00-4.75	H5223492	G-1	4	12.00	1.906	.25
8" HEAVY DUTY THRUFEED (NOS. 3&4 ONLY)	18"	2"-6" (NO. 3) -- 7.50" (NO. 4)	H5223489	G-1	*4	12.00	3.937	.375

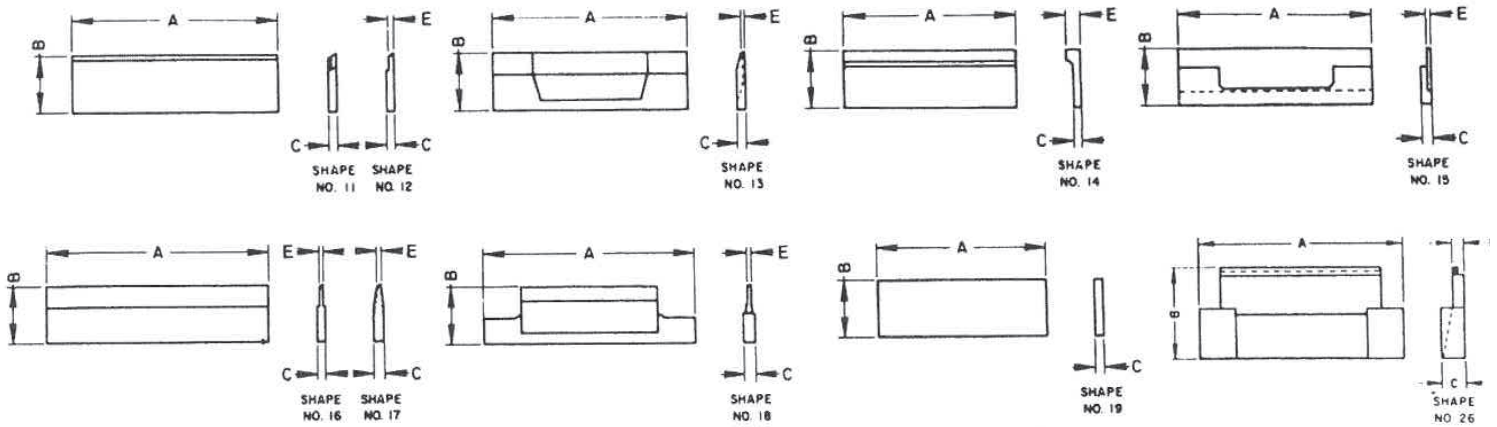
† Low thrufeed work rest not available for No. 4 Centerless Grinder.

‡ Diameter Range 2-5" for No. 3 Centerless Grinder.

*2 Guides only for No. 4 Centerless Grinder.

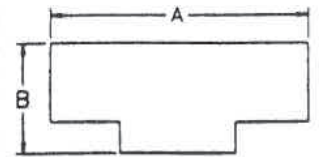
CENTERLESS GRINDER BLADES FOR LONG BAR FIXTURES

NO. 2 CENTERLESS, MODELS OM AND EA; NO. 3 CENTERLESS, MODEL EA; CINCO 15 CENTERLESS, MODEL DE



FIXTURE WHEEL WIDTH AND TYPE	MAX. WORK LENGTH	WORK DIAMETER RANGE	CARBIDE TIPPED	HIGH SPEED	SHAPE NO.	DIMENSIONS			
						A	B	C	E
TYPE "A" LONG BAR 4"- 6" WHEEL	30"	.125 -.250	223902	232563	13	11.750	3.375	.50	.100
		.250 -.500	223903	220580	13	11.750	3.375	.50	.250
		.500 -1.50	223904		12	11.750	3.375	.50	.468
TYPE "B" LONG BAR 4"-6" WHEEL	8 FT.	.030 -.060		217717	26	10.375	2.500	.50	.027
		.060 -.125		208521	26	10.375	2.500	.50	.045
		.125 -.250	223880	208511	26	10.375	2.500	.50	.110
		.250 -.500	223881	208512	26	10.375	2.500	.50	.235
		.500 -.875	223855	53832	19	10.375	2.500	.50	.500
		.875 -1.25	223857	55226	14	10.375	2.500	.50	.875
TYPE "C" LONG BAR	18 FT.	.060 -.125		208521	26	10.375	2.500	.50	.045
		.125 -.250	223880	208511	26	10.375	2.500	.50	.110
		.250 -.500	223881	208512	26	10.375	2.500	.50	.235
		.500 -1.00	223910	219743	17	10.375	3.500	.50	.375
		1.00 -2.00	223890	216620	11	10.375	3.000	.50	.500
TYPE "D" LONG BAR #3 GRINDER ONLY	18 FT.	.125 -.250	232571		18	13.062	3.937	.75	.109
		.250 -.750	232557		18	13.062	3.937	.75	.218
		.750 -2.00	223905		19	13.062	3.750	.75	.750
		2.00 -3.00	223906		19	13.062	3.000	.75	.750
		3.00 -4.00	223907		19	13.062	2.500	.75	.750

CENTERLESS LAPPER BLADES HIGH SPEED STEEL



NO. 2 CENTERLESS, MODELS OM AND EA; NO. 3 CENTERLESS, MODEL EA; CINCO 15 CENTERLESS, MODEL DE

HIGH SPEED STEEL	WORK DIAMETER RANGE	PART NUMBER	DIMENSIONS			
			LENGTH	HEIGHT	THICKNESS	BEARING ANGLE
	.125 -.250	219642	34	4.50	.50	10°
	.187 -.250	219442	34	4.00	.50	15°
	.250 -.500	219441	34	4.00	.50	15°
	.500 -1.50	219443	34	4.00	.50	15°
	.500 -3.00	216643	34	3.875	.50	20°
	3.00 -6.00	216642	34	2.750	.50	20°

CARBIDE TIPPED

CARBIDE TIPPED	.250 -.500	224242	34	4.375		50	15°
	.500 -3.00	224243	34	3.875		.50	20°
	3.00 -6.00	224244	34	3.000		50	20°

CENTERLESS GRINDER BLADES

CHOOSING THE RIGHT BLADE FOR YOUR PART!

BLADE MATERIAL: In general, we recommend starting with a hard material. If problems occur such as scoring of the parts or "pick up" on the blade, compromise is necessary.

DENSE CAST IRON blades are recommended for grinding soft steel parts.

HIGH SPEED STEEL blades are recommended for use by inexperienced operators; for grinding non-ferrous metals, parts with varying hardness from end to end or for job shops that constantly are altering their blades to grind different work diameters. Blades are fabricated from a hardened M-2 steel, inserted into the mild steel body.

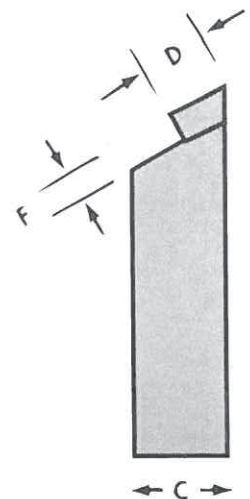
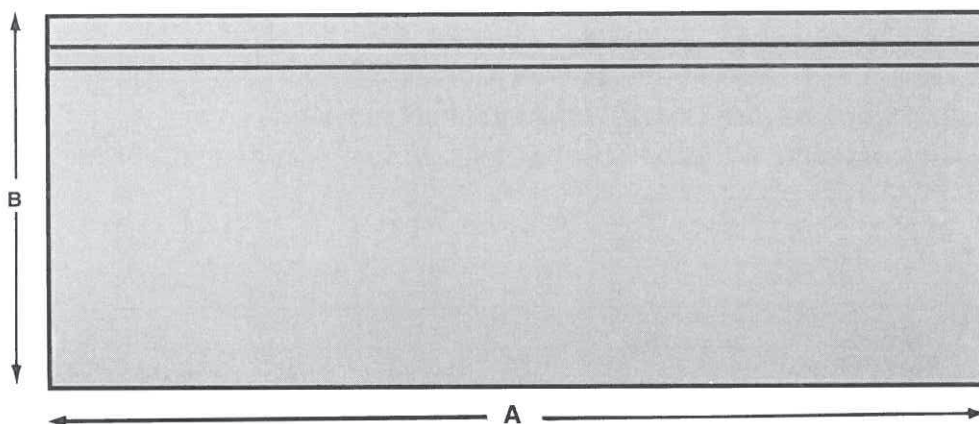
TUNGSTEN CARBIDE TIPPED blades are recommended for grinding hardened steel. This material is the most commonly used because of its excellent wearing qualities.

AMPCO BRONZE blades are recommended for grinding softer materials and stainless steel. CERAMIC TIPPED blades are recommended for grinding aluminum parts. Harder than carbide, ceramic is long wearing, but breaks easily and should only be used by experienced operators.

BLADE ANGLE: 30° is standard. This can change if the length of the work and the length of the blade or the width of wheels is increased, causing chatter. The angle should then be reduced to 25° so the side pressure on the blade is reduced. Likewise, the larger the work diameter, the smaller the blade angle required.

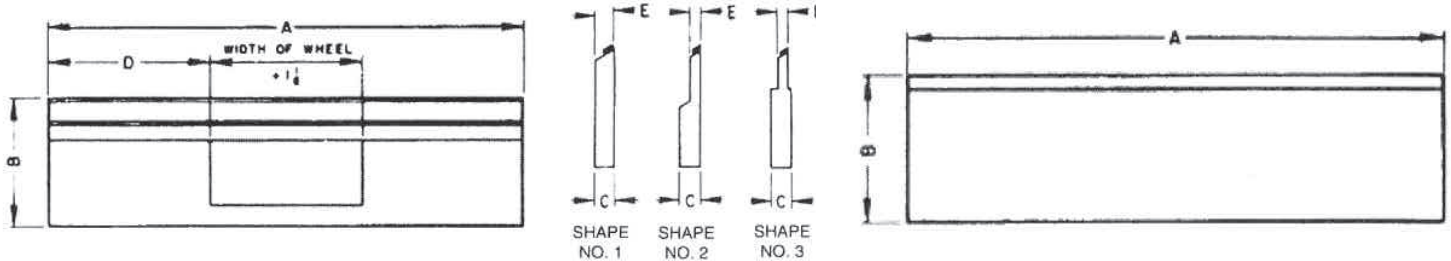
BLADE THICKNESS AND SIZE: The length of the blade is determined by the width of the wheels and the length of the part. The general rule for thrufeed grinding is that the wheel should cover 2/3 of the part going in, 2/3 going out. The thickness of the blade (E dimension) should be slightly less than the work diameter.

Retipping and/or regrinding of carbide tipped blades can be quoted over the phone if you provide us with the information below:



CENTERLESS GRINDER BLADES FOR THRUFEED WORK RESTS

NO. 2 CENTERLESS, MODEL LO; NO. 220-8 CENTERLESS, MODEL LR;
NO. 3 CENTERLESS, MODEL LL; AND NO. 325-12, 330-15 CENTERLESS, MODELS LR AND DE



WORK REST						DIMENSIONS			
WHEEL WIDTH AND TYPE	MAX. WORK LENGTH	WORK DIAMETER RANGE	CARBIDE TIPPED	HIGH SPEED STEEL	SHAPE NO.	A	B	C	E
4" THRUFEED	9"	.060-.080	263037-4	263033	3	15.625	3.875	.625	.050
		.080-.100	263037-5	263035	3	15.625	3.875	.625	.065
		.100-.125	263037-6	263036	3	15.625	3.875	.625	.085
		.125-.250	263037	263039	3	15.625	3.875	.625	.090
		.250-.500	263048	263050	3	15.625	3.875	.625	.187
		.500-1.50	263065	263067	2	15.625	3.500	.625	.406
	13"	1.50-3.00	263076	263077	1	15.625	3.000	.625	.625
		.125-.250		263040	3	20.625	3.875	.625	.090
		.250-.500	236051	263053	3	20.625	3.875	.625	.187
		.500-1.50	263068	263070	2	20.625	3.500	.625	.406
4" LOW THRUFEED	9"	1.50-3.00	263082	263084	1	24.625	3.000	.625	.625
		2.00-3.50	266583		1	15.625	4.500	.750	.750
6" THRUFEED AND TYPE "V"	9"	3.00-4.75	266585		1	15.625	3.750	.750	.750
		.060-.080	263041-1	263034	3	17.625	3.875	.625	.050
		.125-.250	263041	263043	3	17.625	3.875	.625	.090
		.250-.500	263054	263056	3	17.625	3.875	.625	.187
		.500-1.50	274052		2	17.625	3.500	.625	.406
LONG BAR FIXTURES	13"	1.50-3.00	274051		1	17.625	3.000	.625	.625
		.125-.250	263057-1	263045	3	24.625	3.875	.625	.090
		.250-.500	263057	263059	3	24.625	3.875	.625	.187
		500-1.50	263074	263075	2	24.625	3.500	.625	.406
6" LOW THRUFEED	9"	1.50-3.00	263082	263084	1	24.625	3.000	.625	.625
		2.00-3.50	266587	266588	1	17.625	4.500	.750	.750
8" THRUFEED AND TYPE "V" LONG BAR	9"	3.00-4.75	266589	266590	1	17.625	3.750	.750	.750
		.125-.250	263046	263047	3	19.625	3.875	.625	.090
		.250-.500	263060	263061	3	19.625	3.875	.625	.187
		.500-1.50	263071	263073	2	19.625	3.500	.625	.406
		.500-1.50	‡271658		1	19.25	3.500	.625	.625
		1.50-3.00	263079	263081	1	19.625	3.000	.625	.625
FIXTURES	13"	1.50-3.00	‡271657		1	19.25	3.000	.625	.625
		.250-.500	263062	263064	3	24.625	3.875	.625	.187
		.500-1.50	263074	263075	2	24.625	3.500	.625	.406
8" LOW THRUFEED	9"	1.50-3.00	263082	263084	1	24.625	3.000	.625	.625
		2.00-3.50	266591		1	19.625	4.500	.750	.750
10" THRUFEED	9"	3.00-4.75	266593		1	19.625	3.750	.750	.750
		.500-1.50	266208		1	21.500	5.000	.750	.375
		1.50-3.50	266210		3	21.500	4.500	.750	.750
8" HEAVY DUTY THRUFEED	16"	2.50-4.00	266581		1	21.500	3.750	.750	.750
		2.00-3.50	266203		1	33.000	4.750	.750	.750
		3.00-5.50	266205		1	33.000	4.000	.750	.750
		5.00-6.00	266207		1	33.000	3.250	.750	.750

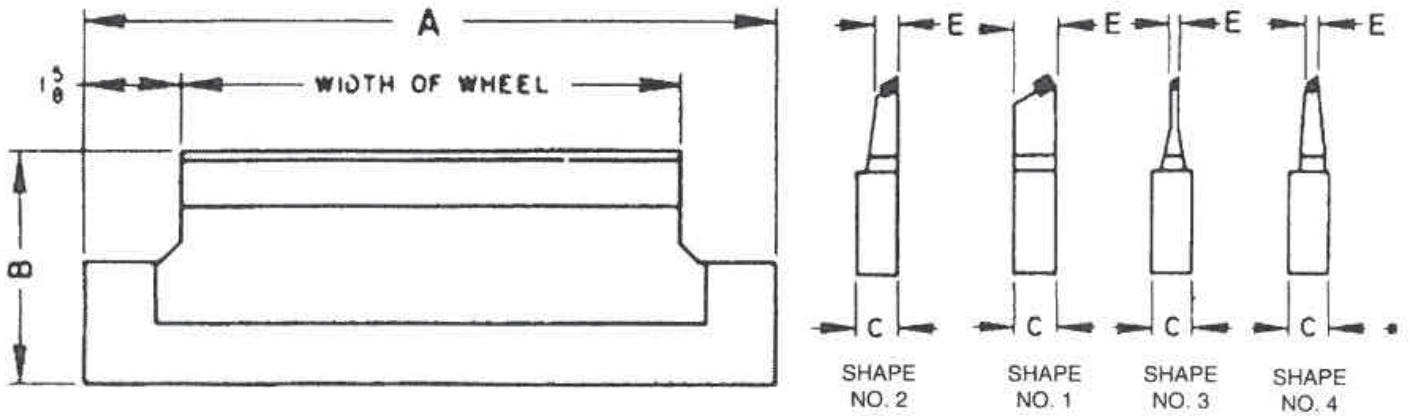
NOTE: When the total weight of the workpiece exceeds 15 pounds and close tolerances and high finishes are required, consult the factory for blade recommendations. These blades are designed for a range of parts. There will be applications where the center clamp screw in the work rest body will not clamp the blade.

*Minimum work diameter recommended for the No. 3 Centerless Grinder is 1/2". Blades listed for work diameters below this minimum for No. 2 Centerless Grinder only.

‡For long bar work which does not come to the machine relatively straight use these blades which incorporate a reduced top angle.

CENTERLESS GRINDER BLADES FOR INFEED AND ROLLER INFEED WORK RESTS

NO. 2 CENTERLESS, MODEL LO; NO. 220 -8 CENTERLESS, MODEL LR; NO. 3 CENTERLESS, MODELS LL, LR AND DE
NOS. 325-12, 330-15 AND 430-12 CENTERLESS, MODELS LR AND DE



WORK REST	MAX. WORK LENGTH	*WORK DIAMETER RANGE	CARBIDE TIPPED	HIGH SPEED STEEL	SHAPE NO.	DIMENSIONS			
WHEEL WIDTH AND TYPE						A	B	C	E
4" INFEED AND ROLLER INFEED	4"	.125-.250	263000	263002	3	8.0	3.875	.625	.090
		.250-.500	263008	263010	4	8.0	3.750	.625	.187
		.500-1.50	263017	263019	2	8.0	3.375	.625	.437
		1.50-2.375	263636	263637	1	8.0	3.000	.625	.625
		2.375-3.00	263026	263027	1	8.0	2.750	.625	.625
6" INFEED AND ROLLER INFEED	6"	.125-.250	263003	263005	3	10.0	3.875	.625	.090
		.250-.500	263011	263013	4	10.0	3.750	.625	.187
		.500-1.50	263020	263022	2	10.0	3.375	.625	.437
		1.50-2.375	263638	263640	1	10.0	3.000	.625	.625
		2.375-3.00	263028	263030	1	10.0	2.750	.625	.625
8" INFEED AND ROLLER INFEED	8"	.125-.250	263006	263007	3	12.0	3.875	.625	.090
		.250-.500	263014	263016	4	12.0	3.750	.625	.187
		.500-1.50	263023	263025	2	12.0	3.375	.625	.437
		1.50-2.375	263641	263642	1	12.0	3.000	.625	.625
		2.375-3.00	263031	263032	1	12.0	2.750	.625	.625
10" INFEED	10"	.500-1.50	266557		2	14.0	5.000	.750	.375
		1.50-3.00	266559		1	14.0	4.375	.750	.750
		2.50-4.00	266561		1	14.0	3.750	.750	.750
12" IN FEED	12"	.500-1.50	266563		2	15.5	5.000	.750	.275
		1.50-3.00	266565		1	15.5	4.375	.750	.750
		2.50-4.00	266567		1	15.5	3.750	.750	.750
15" IN FEED	15"	.500-1.50	266569		2	19.0	4.812	.750	.437
		1.50-3.00	266571		1	19.0	4.812	.750	.750
		2.50-4.00	266573		1	19.0	3.562	.750	.750

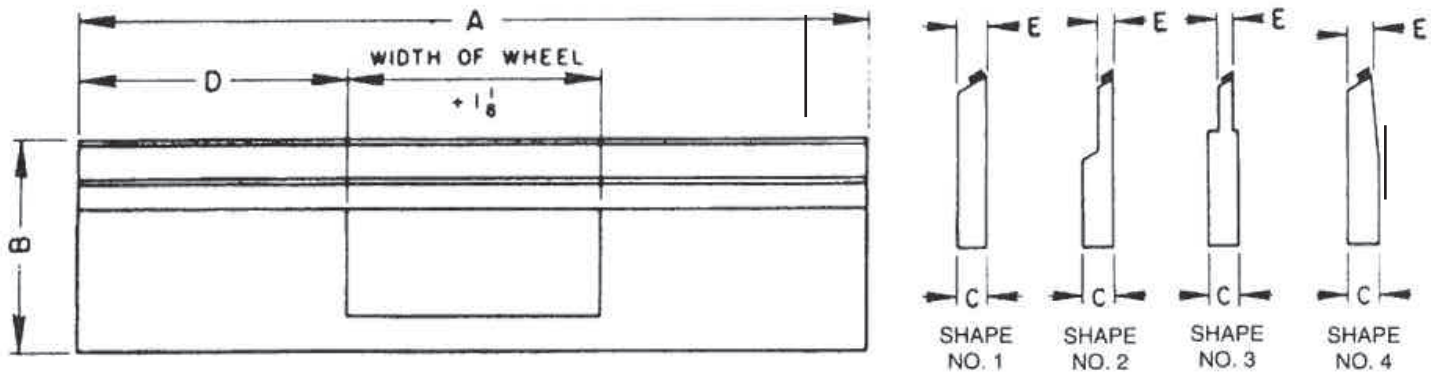
NOTE: When the total weight of the workpiece exceeds 15 pounds and close tolerances and high finishes are required, consult the factory for blade recommendations. These blades are designed for a range of parts. There will be applications where the center clamp screw in the work rest body will not clamp the Blade

*Minimum work diameter recommended for the No. 3 Centerless Grinder is 1/2". Blades listed for work diameters below this minimum for No. 2 Centerless Grinder only.

CENTERLESS GRINDER BLADES FOR THRUFEED WORK RESTS

NO. 230-10 TWIN GRIP CENTERLESS, MODEL DE

NOS. 340-20 AND 440-20 TWIN GRIP CENTERLESS MODEL DE - SHORT GUIDES

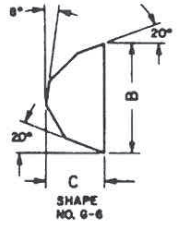
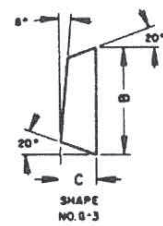
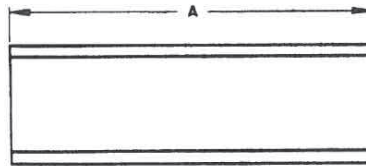
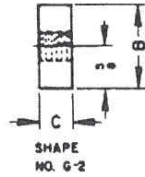
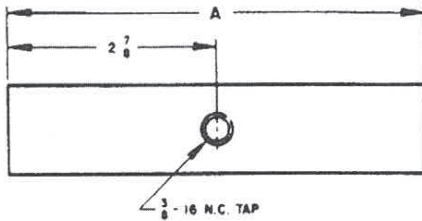


WORKREST WHEEL WIDTH AND TYPE	*MAX. WORK LENGTH	WORK DIAMETER RANGE	CARBIDE TIPPED	HIGH SPEED STEEL	SHAPE NO.	DIMENSIONS			
						A	B	C	E
10" THRUFEED	9"	.060-.080		3414006	2	21.625	5.260	.75	.040
		.080-.125		3414007	2	21.625	5.260	.75	.060
		.125-.250	409807		2	21.625	5.470	.75	.080
		.250-.500	409803		2	21.625	5.440	.75	.220
		.500-1.00	409804		2	21.625	5.250	.75	.380
		1.00-1.50	3411472		2	21.625	5.120	.75	.380
		1.50-2.00	3414097		1	21.625	5.000	.75	.750
		2.00-2.50	3412145		1	21.625	4.880	.75	.750
20" THRUFEED SHORT GUIDES	9"	2.50-3.00	3414009		1	21.625	4.430	.75	.750
		3.00-4.00	3414010		1	71.675	4.950	.75	.750
		.500-.750	401079		3	31.625	4.156	.75	.343
		.750-1.25	401081		4	31.625	3.906	.75	.620
		1.25-1.625	401082		1	31.625	3.784	.75	.750
		1.50-1.937	401085		1	31.625	3.656	.75	.750
		1.875-2.312	401086		1	31.625	3.500	.75	.750
		2.25-2.625	401088		1	31.625	3.343	.75	.750
20" THRUFEED LONG GUIDES	15"	2.625-3.062	401090		1	31.625	3.187	.75	.750
		.500-.750	401078		3	36.625	4.156	.75	.343
		.750-1.250	401080		4	36.625	3.906	.75	.620
		1.25-1.625	401083		1	36.625	3.781	.75	.750
		1.50-1.937	401084		1	36.625	3.650	.75	.750
		1.875-2.312	401087		1	36.625	3.500	.75	.750
		2.25-2.625	401089		1	36.625	3.343	.75	.750
		2.625-3.062	401091		1	36.625	3.187	.75	.750

Worklength limitation for standard thrufeed work only. Long bar work that has been straightened may be ground in lengths up to 20" with proper fixture.

CENTERLESS GRINDER GUIDES FOR THRUFEED WORK RESTS - TYPE V LONG BAR FIXTURES

NO. 2 CENTERLESS, MODEL LO; NO. 220-8 CENTERLESS, MODEL LR;
NO. 230-10 CENTERLESS, MODEL DE;
NO. 3 CENTERLESS, MODEL LL;
Nos. 325-12 AND 330-15 CENTERLESS, MODELS LR AND DE



WORKREST WHEEL WIDTH AND TYPE	*MAX. WORK LENGTH	WORK DIAMETER RANGE		PART NO.	SHAPE NO.	NO. REQ'D.	DIMENSIONS		
		NO. 2 CENTERLESS	NO. 3 CENTERLESS				A	B	C
4"-6"-8" THRUFEED AND TYPE "A" AND TYPE "B" LONG BAR FIXTURES	13"	.060 -3.00	.500 -3.00	MS271253	G-2	2	5.75	1.25	.500
	9"	.060 -3.00	.500 -3.00	H 5278030†	G-3	2	5.75	1.75	.625
	13"	.060 -3.00	.500 -3.00	HS278031t	G-3	2	8.00	1.75	.625
	13"	.060 -3.00	.500 -3.00	MS296746±	G-3	2	5.75	2.00	.500
	13"	.060 -3.00	.500 -3.00	MS4041801	G-3	2	8.00	2.00	.500
10" THRUFEED	13"		.500 -4.00	MS271253	G-2	2	5.75	1.75	.500
	9"		.500 -4.00	HS278030t	G-3	2	5.75	1.75	.625
	13"		.500 -4.00	HS278031t	G-3	2	8.00	1.75	.625
	9"	.125 -500		HS408845	G-6	2	5.75	1.75	.937
4"-6"-8" LOW THRUFEED 6"-8" LOW THRUFEED	13"	2.00 -4.75	2.00 -6.00	MS271253	G-2	2	5.75	1.25	.500
	9"	2.00 -4.75	2.00 -6.00	HS278030t	G-3	2	5.75	1.75	.625
	13"	2.00 -4.75	2.00 -6.00	HS278031t	G-3	2	8.00	1.75	.625
	13"	2.00 -4.75		HS264806	G-2	2	5.25	1.75	.500

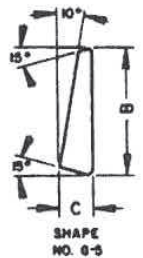
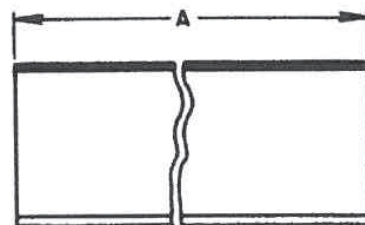
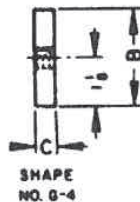
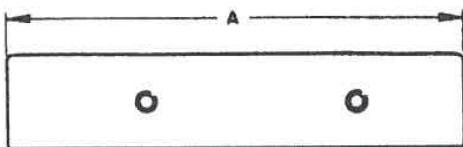
*Work length limitation for standard thrufeed work only. Lengths up to 100" may be ground using Type "V" Long Bar Fixtures.

**230-10 Twin Grip only

†Available with carbide insert.

CENTERLESS GRINDER GUIDES FOR HEAVY DUTY THRUFEED WORK RESTS

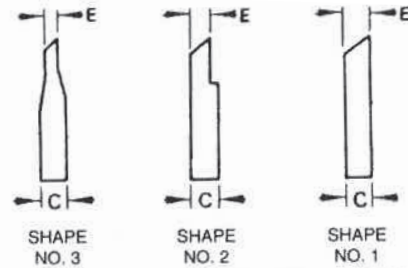
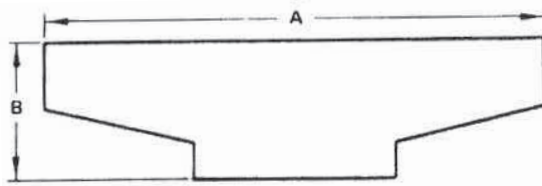
NO. 3 CENTERLESS, MODEL LL;
Nos. 325-12, 330-15, AND 340-20 CENTERLESS, MODELS LR AND DE



WORKREST WHEEL WIDTH AND TYPE	MAX. WORK LENGTH	WORK DIAMETER RANGE	PART NUMBER	SHAPE NO.	NO. REQ'D	DIMENSIONS		
						A	B	C
8" HEAVY DUTY THRUFEED	16"	2.0-6.0	MS265358 (Left Front)	G-4	1	12.25	2.250	.500
		2.0-6.0	MS263359 (Left Rear)	G-4	1	12.25	2.250	.500
		2.0-6.0	HS278032	G-5	2	12.00	3.125	.875

CENTERLESS GRINDER BLADES FOR THRUFEED WORK RESTS - SHORT GUIDES

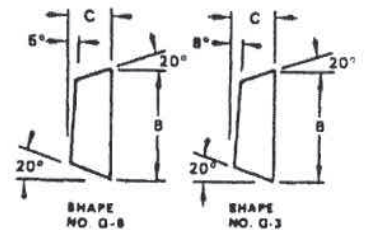
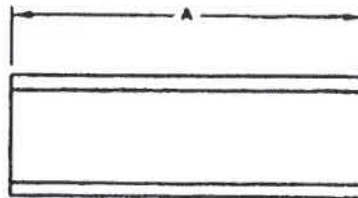
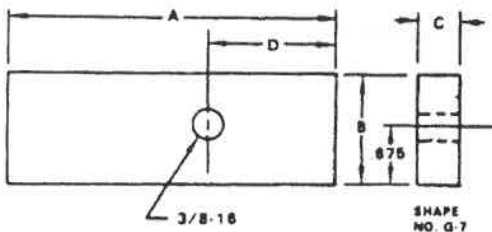
NO. 220-8 CENTERLESS, MODELS AE & RK; NO. 230-12 TWIN GRIP CENTERLESS, MODEL AE
NO. 350-20 TWIN GRIP CENTERLESS, MODELS AE & RK



WORKREST	MAX. WORK LENGTH	WORK DIAMETER RANGE	CARBIDE TIPPED PART NO.	SHAPE NO.	DIMENSIONS			
WHEEL WIDTH AND TYPE					A	B	C	E
8" THRUFEED	9.50"	.062 -.100	3422675	3	20.44	7.18	.79	.050
		.098 -.197	3422681	3	20.44	7.18	.79	.080
		.197 -.394	3422689	3	20.44	6.64	.79	.160
		.394 -.787	3422697	3	20.44	6.57	.79	.310
		.787 -1.575	3422705	2	20.44	6.66	.79	.630
		1.575 -2.756	3422713	1	20.44	5.90	.79	.790
10" THRUFEED	9.50"	2.756 -4.331	3422721	1	20.44	5.44	.79	.790
		.062 -.100	3422676	3	22.44	7.18	.79	.050
		.098 -.197	3422682	3	22.44	7.18	.79	.080
		.197 -.394	3422690	3	22.44	6.64	.79	.160
		.394 -.787	3422698	3	22.44	6.57	.79	.310
		.787 -1.575	3422706	2	22.44	6.66	.79	.630
12" THRUFEED	9.50"	1.575 -2.756	3422714	1	22.44	5.90	.79	.790
		2.756 -4.331	3422722	1	22.44	5.44	.79	.790
		4.331 -6.000	3422728	1	22.44	4.75	.79	.790
		.062 -.100	3422677	3	24.44	7.18	.79	.050
		.098 -.197	3422683	3	24.44	7.18	.79	.080
		.197 -.394	3422691	3	24.44	6.64	.79	.160
20" THRUFEED	9.50"	.394 -.787	3422699	3	24.44	6.57	.79	.310
		.787 -1.575	3422707	2	24.44	6.66	.79	.630
		1.575 -2.756	3422715	1	24.44	5.90	.79	.790
		2.756 -4.331	3422723	1	24.44	5.44	.79	.790
		4.331 -6.000	3422732	3	32.44	5.85	.79	.310
			3422733	2	32.44	5.94	.79	.630
	9.50"	1.575 -2.756	3422734	1	32.44	5.59	.79	.790
		2.756 -4.331	3422735	1	32.44	4.92	.79	.790
		4.331 -6.000	3422736	1	32.44	4.72	.79	.790

CENTERLESS GRINDER GUIDES FOR THRUFEED WORK RESTS

NO. 220-8 CENTERLESS, MODELS AE, RK, VIKING; NO. 230-12 TWIN GRIP CENTERLESS, MODELS AE & RK;
NO. 350-20 TWIN GRIP CENTERLESS, MODELS AE & RK



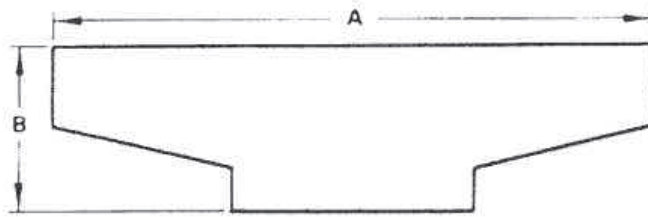
WORKREST	MAX. WORK LENGTH	WORK DIAMETER RANGE	PART NO.	SHAPE NO.	NO. REQ'D	DIMENSIONS			
WHEEL WIDTH AND TYPE						A	B	C	D
8"-10" 12"-20" THRUFEED	9.50"	.062 -6.000	3422333	G-7	2	6.16	1.75	.500	2.10
	13.00"	.062 -6.000	3422335	G-7	2	8.13	1.75	.500	4.07
	9.50"	.062 -1.575	3424078	G-8	2	6.16	2.00	.541	
	13.00"	.062 -1.575	3424079	G-8	2	8.13	2.00	.541	
	9.50"	.394 -6.000	3422334	G-3	2	6.16	2.00	.625	
	13.00"	.394 -6.000	3422336	G-3	2	8.13	2.00	.625	

CENTERLESS GRINDER BLADES

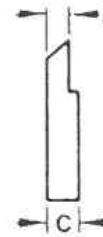
FOR THRUFEED WORKRESTS - LONG GUIDES

NO. 220-8 CENTERLESS, MODELS AE & RK; NO. 230-12 TWIN GRIP CENTERLESS, MODELS AE & RK;

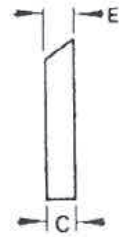
NO. 350-20 TWIN GRIP CENTERLESS, MODELS AE & RK



SHAPE
NO. 3



SHAPE
NO. 2

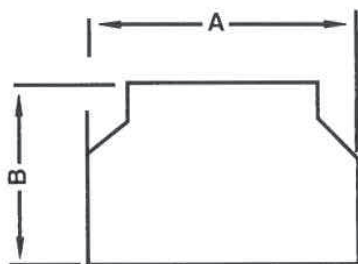


SHAPE
NO. 1

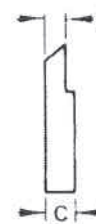
WORK REST	MAX. WORK LENGTH	WORK DIAMETER RANGE	CARBIDE TIPPED PART NO.	SHAPE NO.	DIMENSIONS			
WHEEL WIDTH AND TYPE					A	B	C	E
8" THRUFEED	13"	.062 -.100	3422678	3	24.38	7.18	.79	.050
		.098 -.197	3422685	3	24.38	7.18	.79	.080
		.197 -.394	3422693	3	24.38	7.18	.79	.160
		.394 -.787	3422701	3	24.38	7.00	.79	.310
		.787 -1.575	3422709	2	24.38	6.71	.79	.630
		1.575 -2.756	3422717	1	24.38	6.25	.79	.790
		2.756 -4.331	3422724	1	24.38	5.44	.79	.790
10" THRUFEED	13"	.062 -.100	3422679	3	26.38	7.18	.79	.050
		.098 -.197	3422686	3	26.38	7.18	.79	.080
		.197 -.394	3422694	3	26.38	7.18	.79	.160
		.394 -.787	3422702	3	26.38	7.00	.79	.310
		.787 -1.575	3422710	2	26.38	6.71	.79	.630
		1.575 -2.756	3422718	1	26.38	6.25	.79	.790
		2.756 -4.331	3422725	1	26.38	5.44	.79	.790
12" THRUFEED	13"	.062 -.100	3422680	3	28.38	7.18	.79	.050
		.098 -.197	3422687	3	28.38	7.18	.79	.080
		.197 -.394	3422695	3	28.38	7.18	.79	.160
		.394 -.787	3422703	3	28.38	7.00	.79	.310
		.787 -1.575	3422711	2	28.38	6.71	.79	.630
		1.575 -2.756	3422719	1	28.38	6.25	.79	.790
		2.756 -4.331	3422726	1	28.38	5.44	.79	.790
20" THRUFEED	13"	4.331 -6.000	3422730	1	28.38	4.75	.79	.790
		.394 -.787	3422737	3	36.38	6.10	.79	.210
		.787 -1.575	3422738	2	36.38	6.10	.79	.630
		1.575 -2.756	3422739	1	36.38	5.71	.79	.790
		2.756 -4.331	3422740	1	36.38	5.21	.79	.790
		4.331 -6.000	3422741	1	36.38	4.72	.79	.790

FOR INFEEED WORK RESTS

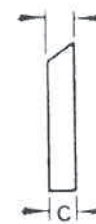
NO. 2208 CENTERLESS, MODELS AE, RK, VIKING



SHAPE
NO. 3



SHAPE
NO. 2



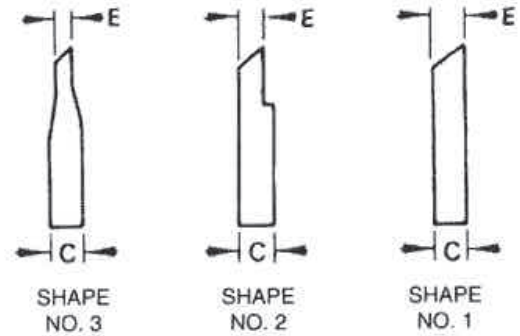
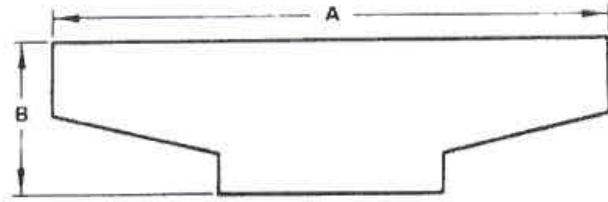
SHAPE
NO. 1

WORK REST	MAX. WORK LENGTH	WORK DIAMETER RANGE	CARBIDE TIPPED PART NO.	SHAPE NO.	DIMENSIONS			
WHEEL WIDTH AND TYPE					A	B	C	E
8" INFEEED	8"	.098 -.197	3454580	3	11.00	7.18	.79	.080
		.197 -.394	3454581	3	11.00	7.18	.79	.160
		.394 -.787	3452969	3	11.00	7.00	.79	.310
		.787 -1.575	3454582	2	11.00	6.71	.79	.630
		1.575 -2.756	3454583	1	11.00	6.25	.79	.790
		2.756 -4.231	3454584	1	11.00	5.44	.79	.790

CENTERLESS GRINDER BLADES

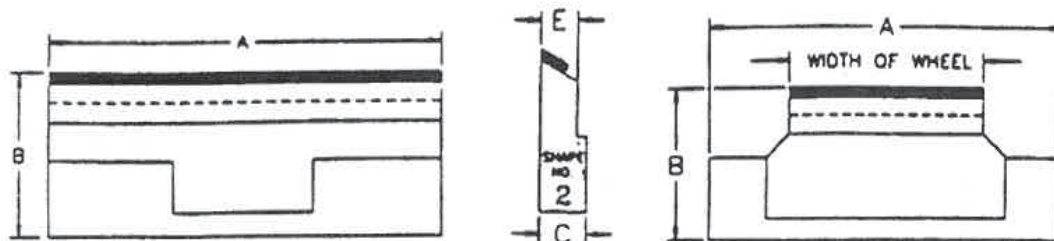
FOR THRUFEED WORK RESTS

VIKING SUPER SERIES CNC CENTERLESS GRINDER



WORKREST					DIMENSIONS			
WHEEL WIDTH AND TYPE	MAX. WORK LENGTH	WORK DIAMETER RANGE	CARBIDE TIPPED	SHAPE NO.	A	B	C	E
*8" THRUFEED	9.50"	.060 -.090	3459459	3	22.44	6.42	.79	.050
		.090 -.190	3459460	3	22.44	6.46	.79	.070
		.190 -.390	3459461	3	22.44	6.64	.79	.160
		.390 -.780	3459462	3	22.44	6.57	.79	.310
		.780 -1.57	3459463	2	22.44	6.66	.79	.620
		1.57 -2.75	3459464	1	22.44	5.90	.79	.790

Viking Centerless grinder uses 8" wide grinding wheel; 10" wide regulating wheel. Longer blades available to grind up to 13" work diameter.



WORK DIAMETER RANGE	CARBIDE TIPPED	HIGH SPEED STEEL	DIMENSIONS			
			A	B	C	E
.030 -.060	TFC -25	TFS -25	8.00	2.50	.50	.250
.060 -.125	TFC -50	TFS -50	8.00	2.37	.50	.500
.125 -.250	TFC -110	TFS -110	8.00	2.31	.50	.110
.250 -.500	TFC -235	TFS -235	8.00	2.25	.50	.235
.500 -1.50	TFC -437	TFS -437	8.00	2.06	.50	.437
.030 -.060	TFC -25	TFS -25	9.00	2.50	.50	.250
.060 -.125	TFC -50	TFS -50	9.00	2.37	.50	.500
.125 -.250	TFC -110	TFS -110	9.00	2.31	.50	.110
.250 -.500	TFC -235	TFS -235	9.00	2.25	.50	.235
.500 -1.50	TFC -437	TFS -437	9.00	2.06	.50	.437
.030 -.060	TFC -25	TFS -25	10.00	2.50	.50	.250
.060 -.125	TFC -50	TFS -50	10.00	2.37	.50	.500
.125 -.250	TFC -110	TFS -110	10.00	2.31	.50	.110
.250 -.500	TFC -235	TFS -235	10.00	2.25	.50	.235
.500 -1.50	TFC -437	TFS -437	10.00	2.06	.50	.427

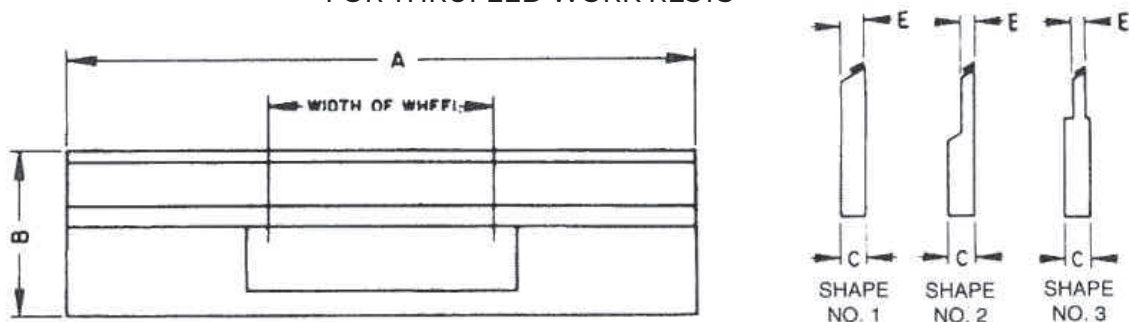
FOR INFEEED WORK RESTS

.060 -.125	IFC -50	IFS -50		2.37	.50	.500
.125 -.250	IFC -110	IFS -110	8, 9	2.31	.50	.110
.250 -.500	IFC -235	IFS -235	or	2.25	.50	.235
.500 -1.50	IFC -437	IFS -437	10"	2.06	.50	.427

NOTE: The above work rest blades are used with the following Royal Master Models: TG-12, CG-12, DRF-12, TG-12 GB

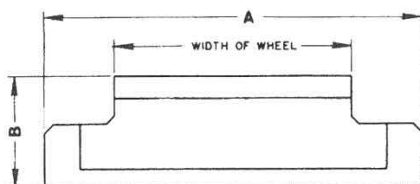
MONZA CENTERLESS GRINDER BLADES

FOR THRUFEED WORK RESTS



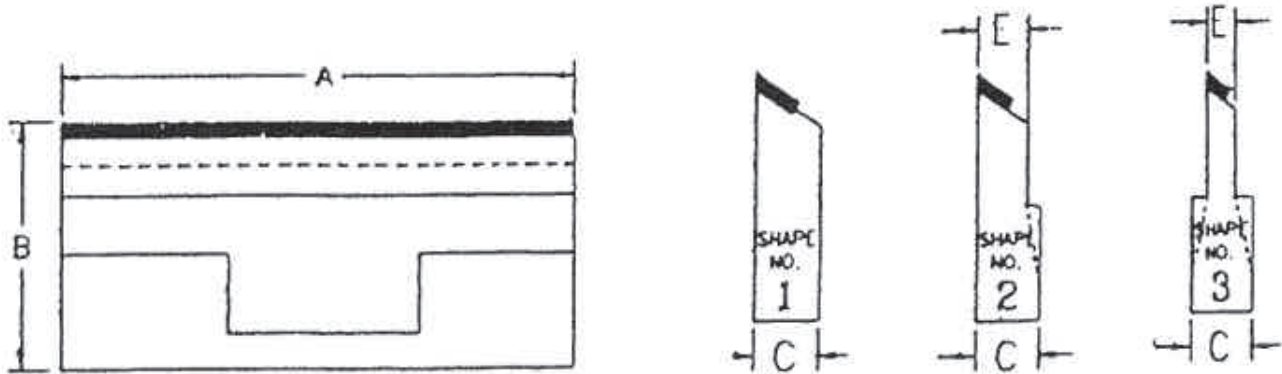
MODEL	WORK DIAMETER RANGE	CARBIDE TIPPED PART NO.	SHAPE NO.	DIMENSIONS			
				A	B	C	E
MODEL 300	.110 -.180	327-15A	3	11.81	2.60	.38	.100
	.160 -.240	327-15B	2	11.81	2.60	.38	.140
	.240 -.320	327-16A	2	11.81	2.60	.38	.200
	.320 -.480	327-16B	2	11.81	2.60	.38	.280
	.400 -2.00	327-14	1	11.81	2.40	.38	.380
MODEL 400	.110 -.180	475-13A	3	15.75	4.25	.61	.100
	.180 -.280	475-13B	3	15.75	4.25	.61	.160
	.280 -.440	475-12	2	15.75	4.25	.61	.240
	.440 -.800	475-11A	2	15.75	3.98	.61	.390
	.700 -2.00	475-11B	1	15.75	3.98	.61	.610
	2.00 -4.00	475-11C	1	15.75	3.58	.61	.610
	4.00 -6.00	475-11D	1	15.75	3.19	.61	.610
MODEL 500	.110 -.180	575-13A	3	17.75	4.25	.61	.100
	.180 -.280	575-13B	3	17.75	4.25	.61	.160
	.280 -.440	575-12	2	17.75	4.25	.61	.240
	.440 -.800	575-11A	2	17.75	3.98	.61	.390
	.700 -2.00	575-11B	1	17.75	3.98	.61	.610
	2.00 -4.00	575-11C	1	17.75	3.58	.61	.610
	4.00 -6.00	575-11D	1	17.75	3.19	.61	.610

FOR INFEEED WORK RESTS



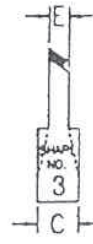
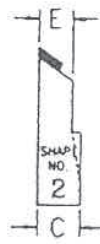
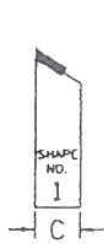
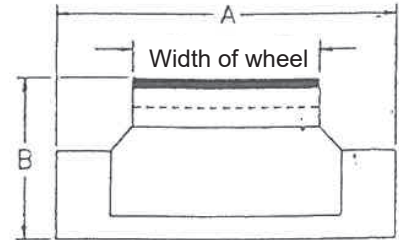
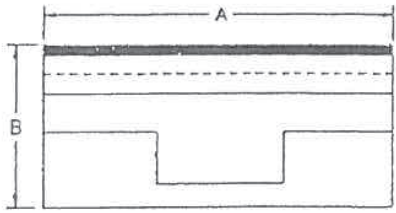
MODEL	WORK DIAMETER RANGE	CARBIDE TIPPED PART NO.	SHAPE NO.	DIMENSIONS			
				A	B	C	E
MODEL 300	.110 -.180	311-10A	3	6.22	2.76	.38	.100
	.160 -.240	311-10B	3	6.22	2.76	.38	.140
	.240 -.320	311-7A	2	6.22	2.76	.38	.200
	.320 -.480	311-7B	2	6.22	2.76	.38	.280
	.400 -2.00	311-6	1	6.22	2.36	.38	.380
MODEL 400	.110 -.180	453-3A	3	10.87	4.25	.61	.100
	.180 -.280	453-3B	3	10.87	4.25	.61	.160
	.280 -.440	475-2	2	10.87	4.25	.61	.240
	.440 -.800	475-1A	2	10.87	3.96	.61	.390
	.700 -2.00	475-1B	1	10.87	3.96	.61	.610
	2.00 -4.00	475-1C	1	10.87	3.58	.61	.610
	4.00 -6.00	475-1D	1	10.87	3.19	.61	.610
MODEL 500	.110 -.180	553-3A	3	12.87	4.25	.61	.100
	.180 -.280	553-3B	3	12.87	4.25	.61	.160
	.280 -.440	575-2	2	12.87	4.25	.61	.240
	.440 -.800	575-1A	2	12.87	3.96	.61	.390
	.700 -2.00	575-1B	1	12.87	3.96	.61	.610
	2.00 -4.00	575-1C	1	12.87	3.58	.61	.610
	4.00 -6.00	575-1D	1	12.87	3.19	.61	.610

G & P AND ELGIN CENTERLESS GRINDER BLADES FOR THRUFEED WORK RESTS



CARBIDE TIPPED MODEL	PART NO.	SHAPE NO.	DIMENSIONS			
			A	B	C	E
MODEL 65	651	3	11.81	2.36	.187	.020
	652	3	11.81	2.36	.187	.031
	653	3	11.81	2.36	.187	.078
	654	3	11.81	2.36	.187	.10
	655	2	11.81	2.16	.234	.15
	656	2	11.81	2.16	.234	.18
	657	1	11.81	2.16	.234	.23
	658	1	11.81	2.16	.312	.31
	659	1	11.81	2.16	.398	.39
MODEL 100	101	3	13.38	2.95	.312	.078
	102	3	13.38	2.95	.312	.10
	103	3	13.38	2.95	.312	.15
	104	2	13.38	2.95	.312	.18
	105	2	13.38	2.95	.312	.23
	106	2	13.38	2.95	.312	.26
	107	1	13.38	2.95	.312	.31
	108	1	13.38	2.95	.390	.39
	109	1	13.38	2.95	.468	.46
MODEL 120	121	3	14.96	2.95	.31	.078
	122	3	14.96	2.95	.31	.10
	123	3	14.96	2.95	.31	.15
	124	3	14.96	2.95	.31	.18
	125	2	14.96	2.50	.31	.23
	126	2	14.96	2.50	.31	.26
	127	1	14.96	2.50	.31	.31
	128	1	14.96	5.11	.37	.37
	129	1	14.96	5.11	.43	.43
MODEL 200	201	3	31.40	5.11	.37	.060
	202	3	31.40	5.11	.37	.078
	203	3	31.40	5.11	.37	.10
	204	3	31.40	5.11	.37	.15
	205	3	31.40	5.11	.37	.18
	206	2	31.40	5.11	.37	.23
	207	2	31.40	5.11	.43	.31
	208	2	31.40	5.11	.43	.37
	209	1	31.40	4.68	.43	.43
	210	1	31.40	4.13	.56	.56
	211	1	31.40	3.54	.75	.75
	212	1	31.40	3.14	.75	.75

NIPPE CENTERLESS GRINDER BLADES



WORK DIAMETER RANGE	CARBIDE TIPPED PART NO.	SHAPE NO.	DIMENSIONS			
			A	B	C	E
.125-.25	3-230231	3	16.55	3.98	.41	.090
.25-.31	3-230232	3	16.55	3.98	.47	.15
.31-.47	3-230233	3	16.55	3.98	.47	.25
.47-.72	3-230234	2	16.55	3.94	.47	.31
.72-1.18	3-230235	1	16.55	3.94	.47	.47
L18-3.56	3-230236	1	16.55	3.42	.47	.47
.060-.125	3-230237	3	16.55	3.98	.47	.04
.125-.25	3-230231A	3	16.55	3.98	.47	.09

.060-.125	3-61606	3	12.53	3.98	.41	.04
.125-.25	3-230241	3	12.53	3.98	.41	.09
.25-.31	3-230242	3	12.53	3.92	.47	.15
.31-.47	3-230243	3	12.53	3.92	.47	.25
.47-.72	3-230244	2	12.53	3.92	.47	.31
.72-1.18	3-230245	1	12.55	3.92	.47	.47
1.18-3.56	3-230246	1	12.55	3.91	.47	.47

WORKBLADES

SPECIALISTS IN CENTERLESS GRINDER ACCESSORIES TRUING CAMS

CAMS FOR CONCO 15, MODEL DE # 2 MODELS OM,OWM, EA, #4, MODEL EA

DESCRIPTION	LENGTH	PART #
Grinding Wheel	13"	249583 G
Crown	13"	401874 C
Req. Wheel	13"	249585 R
Cam Followers		

CAMS FOR #3, MODELS LL, LR, DE

DESCRIPTION	LENGTH	PART #
Grinding Wheel	15"	235309 G
Reg. Wheel	15"	210915 R

CAMS FOR #220-8 MODEL I,,R

DESCRIPTION	LENGTH	PART #
Grinding Wheel Straight	12-1/2"	282779 GWS
Grinding Wheel Crown 6"	12"	284441 GWC 6
Grinding Wheel Crown 8"	12"	284441 GWC 8
Reg. Wheel Straight	12"	259290 RW
Cam Followers		

Cams can be manufactured for all models of grinders. We use heat treated tool steel or solid Tungsten Carbide.

CAMS FOR # 300 SERIES, MODELS 325-12,330-15, 340-20

DESCRIPTION	LENGTH	PART #
Grinding Wheel Straight 12"	16"	269150-12
Grinding Wheel Straight 15"	19"	269098-15
Grinding Wheel Straight 20"	24"	269152-20
Grinding Wheel Crown 6"	12"	269553-C 6
Grinding Wheel Crown 8"	12"	269554-C 8
Grinding Wheel Crown 10"	14"	269555-C 10
Grinding Wheel Crown 6"	10"	269550-C 6
Grinding Wheel Crown 8"	12"	269552-C 8
Grinding Wheel Crown 10"	14"	269551-C 10
Grinding Wheel Crown 20"	24"	269342-C 20
Reg. Wheel Straight 12"	19"	283321-R 12
Reg. Wheel Straight 20"	24"	269243-R 20

CAMS FOR # 220-8, MODELS AE & RK 230-12, MODELS AE, RK; 350-20, MODELS AE, RK

DESCRIPTION	LENGTH	PART #
Grinding/Reg. Wheel Straight 8"	14"	3421269-S 8
Grinding Wheel Crown 8"	14"	2143180-C 8
Grinding/Reg. Wheel Straight 12"	19"	3421430-S 12
Grinding Wheel Crown 12"	19"	2143870-C 12
Grinding/Reg. Wheel Straight 20"	24"	3421256-S 20
Grinding Wheel Crown 20"	24"	2143860-C 20

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Highway Warren, MI 48089 US

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