

premium aluminum oxide

mounted micro mini flap wheels – 1/8" shank

size	grit						pkg qty
	60	80	120	180	240	320	
3/8" x 3/8"	40025	40033	40143	40036	40695	40035	10
5/8" x 5/8"	40702	40038	40080	42000	40759	40037	10
5/8" x 3/4"	40703	40039	40313	40655	40715	41323	10
3/4" x 3/16"	40815	40288	40289	40656	42600		10
3/4" x 3/8"	40725	42426	40660	40661	40662	40663	10
3/4" x 1/2"	40717	40086	40081	40323	40816	40817	10
3/4" x 5/8"	40718	40077	40621	42001	40818	40819	10
3/4" x 3/4"	40856	46845	40079	40322	40709	40071	10
1" x 1"			40665	40666	40667	40668	10
1-3/16" x 1/8"	46936	46937	46935	40810	40811	40812	10
1-3/16" x 3/16"	40137	40138	40140	40670	46907	46908	10
1-3/16" x 3/8"	40111	40108	40110	40144	46910	46911	10

Other sizes and grits available upon request

premium aluminum oxide

mounted flap wheels – 1/4"-20 threaded shank

size	grit					pkg qty
	60	80	120	180	240	
1" x 1/2"	40770	41097	40046	41098	41099	10
1" x 5/8"	42533	40602	40800	40074		10
1" x 1"	46850	42664	42665		40134	10
1-1/2" x 1/2"	41134	40768	40792		41103	10
1-1/2" x 1"	40788	40267	40269			10
2" x 1/2"	42532	41700	40246	43119	41104	10
2" x 3/4"	40628	41710	41932	41467	41931	10
2" x 1"	42531	46996	40855	40814	41876	10
2-1/2" x 1"	41890	41884	41761	41760	41762	10
3" x 1/2"	40682	41038	40769	42521	42527	10
3" x 1"	40654	46995	42601	40777	40778	10
3" x 2"	42910	42913	42013	42014		10

Other sizes and grits available upon request

threaded adapters

threaded size	shank diameter	length	part no.	pkg qty
1/4"-20	1/4"	3"	21011	1
1/4"-20	1/4"	4"	21014	1
1/4"-20	1/4"	6"	21012	1

**ALUMINUM OXIDE
FLAP WHEELS**

Our aluminum oxide flap wheel product line shown on pages 9 and 10 have three origins.

1/8 shank product is made for us in Europe. Items with 1/4" or 1/4"-20 shanks that are not highlighted in Yellow are imported from our long standing supplier from Asia. This is a fine industrial product. The remaining items highlighted in yellow are made here in our plant in Cleveland, Ohio from the finest raw material designed to withstand the most punishing application.

Our epoxy is formulated to take more heat than you can generate, eliminating flaps leaving the wheel while in use.



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ZIRCONIUM FLAP WHEELS

Zirconium flap wheel are designed for those tougher applications in all forms of steel. These wheels will generally last significantly longer than an AO product.

CERAMIC FLAP WHEELS

These Ceramic flap wheels provide amazing extended tool life in high tensile strength alloys. The ceramic grains fracture to expose sharp new cutting edges during use.

SILICON CARBIDE FLAP WHEELS

Using a flap wheel manufactured from Silicon Carbide is for those professionals who are looking for the exact match of grain with application. Silicon Carbide is well suited for working on hard metals like titanium and high nickel alloys and is a totally contaminant free grain.

premium aluminum oxide mounted flap wheels – 1/4" shank

size	grit						pkg qty
	40	60	80	120	180	240	
3/4" x 3/4"		40026	40736	40765	40761	40719	10
1" x 1/2"	42002	46938	42663	40674	40031	40032	40034 10
1" x 5/8"	40683	46863	40230	46864	43117	40772	40773 10
1" x 1"	40748	46846	46851	46852	40633	40632	40641 10
1-3/16" x 1/4"		40823	41324	40145	40824		40776 10
1-1/2" x 1/2"	40094	40716	40601	46867	40241	40168	40169 10
1-1/2" x 3/4"	40090	46866	40780	46897	46868		40782 10
1-1/2" x 1"	40091	46853	46854	46855	45221	40831	45222 10
2" x 1/2"	40297	42357	46849	40231	40232	41487	41490 10
2" x 3/4"	40832	41705	41708	41716	40401	41720	46924 10
2" x 1"	40600	46856	46857	46858	40234	40708	47003 10
2-1/2" x 1/2"	42358	42359	42522	42523	42524		10
2-1/2" x 1"	40304	41915	40237	42525	43109	40374	42895 10
2-1/2" x 1-1/2"	43110	40243	43111	40610	40611		10
3" x 1/2"	40242	40235	40307	40236	43112		10
3" x 1"	41892	46859	46860	46861	41461	40705	40771 10
3" x 1-1/2"	43113	40300	46870	40301	40311		10
3" x 2"	43114	40302	40147	40303	40245	40746	10

Other sizes and grits available upon request

high performance – made in the USA mounted flap wheels – 1/4" shank

dia.	grit	zirconia	ceramic	silicon carbide	pkg qty
1" x 1" x 1/4"	60	81626	81011	40171	10
	80	81627	81012	81610	10
	120	81628	81013	81611	10
1-1/2" x 1" x 1/4"	60	81632	81014	81612	10
	80	81633	81015	81613	10
	120	81634	81016	42178	10
2" x 1" x 1/4"	60	81638	81017	41717	10
	80	81639	81018	81617	10
	120	81640	81019	41489	10
2-1/2" x 1" x 1/4"	60	81644	81020	81619	10
	80	81645	81021	81620	10
	120	81646	81023	80818	10
3" x 1" x 1/4"	60	81650	81024	42502	10
	80	81651	81025	81623	10
	120	81652	81026	40405	10

safe operating speeds for 1" wide flap wheels – shank mounted

wheel diameter	maximum RPM
1-1/2" and smaller	30,000
2"	23,000
2-1/2"	23,000
3"	20,000

safe operating speeds flap wheels – metal hub mounted

wheel diameter	maximum RPM
4"	12,000
6"	6,200
8"	4,700
10"	3,400





premium aluminum oxide
flap wheels – unmounted metal hub

size	arbor	grit								pkg qty
		40	60	80	120	150	180	240	320	
4" x 1"	5/8"	40836	43301	43302	43304		43306	43308	43309	5
4" x 1-1/2"	5/8"	41079	43351	43352	43353		43354	43355	43356	5
4" x 2"	5/8"	40517	43401	43402	43404		43405	43406	43409	5
6" x 1"	1"	44348	44351	44352	44354	42007	44356	44358	44359	5
6" x 1-1/2"	1"	44460	44401	44402	44404	40489	44405	44406	44407	5
6" x 2"	1"		40045	44452	44454	40840	44456	44458	40711	5
8" x 1"	1"	40507	45102	45104	45105		40917	45108	45111	5
8" x 1-1/2"	1"	40508	42010	45153	45155	45156	41071	41072	45160	5
8" x 2"	1"	40843	40903	40899	40900	40473	45207	40584	45210	5
10" x 1"	1-1/4"		45501	45502				45508	45509	5
10" x 1-1/2"	1-1/4"			45553	40591					5
10" x 2"	1-1/4"	45600	45605	45603	40520	40586	40545	45608	45609	5

Other sizes and grits available upon request

mounted
interleaf flap wheels – shank mounted

dia. x width	shank	grit						non-woven	pkg qty
		60	80	120	180	240	320		
1-1/2" x 1"	1/4"				46319		47065	A\Fine	10
2" x 1"	1/4"	42100	42101	47091		42103	42104	A\Medium	10
2" x 1"	1/4"	40928	46511	46513	46311	47035	47116	A\Fine	10
2-1/2" x 1"	1/4"	42108	42109	46318	46317			A\Fine	10
3" x 1"	1/4"	42111	42112	42113	46519		42114	A\Medium	10
3" x 1"	1/4"	42115	46525	46522	47114		47112	A\Fine	10
3" x 2"	1/4"	40993	42116	47092	47097	40991	42118	A\Medium	10
3" x 2"	1/4"		46526	47109	47111	46589	47110	A\Fine	10

Other sizes and grits available upon request

unmounted
interleaf flap wheels – metal hub

dia. x width	shank	grit						non-woven	pkg qty
		60	80	120	180	240	320		
4" x 1"	5/8"		46542	46544			47057	A\Fine	5
4" x 2"	5/8"	46545		42123		45266		A\Medium	5
6" x 1"	1"	42136	42137	40968	42139	42140	42141	A\Medium	5
6" x 1"	1"	46560	42131	42132	42133	40404	42135	A\Fine	5
6" x 2"	1"	47067		42126	43127	42128	42129	A\Medium	5
6" x 2"	1"	46566		40407	46575	42146	47078	A\Fine	5
8" x 1"	1"	42148	42149	42150	42151	42152	42153	A\Medium	5
8" x 1"	1"	46580	42155	47045	46590	42158	42159	A\Fine	5
8" x 2"	1"	46586		42161	42162	42163	42164	A\Fine	5
10" x 1"	1-1/4"	42165	42166	42167			42170	A\Medium	5
10" x 2"	1-1/4"				47131		47142	A\Fine	5
16" x 1"	1-1/4"	42182	42183	42184	42185		42186	A\Medium	5
16" x 2"	1-1/4"	42187	42188		42190		42191	A\Medium	5

Other sizes and grits available upon request

INTERLEAF FLAP WHEELS

Even Cut interleaf flap wheels are manufactured from premium aluminum oxide resin bond cloth flaps combined with a flexible open structured nylon web flap which is impregnated with resins and aluminum oxide grains. Standard interleaf wheels are supplied in a 1:1 ratio with the flaps radially mounted around a metal shank or metal hub. Interleaf wheels are a balanced and smooth running product that performs best in contour work, blending, finishing, deburring and polishing applications of ferrous and nonferrous metals as well as wood and plastic. Interleaf wheels can also be used to produce a consistent scratch pattern for secondary finishing operations.

safe operating speeds
interleaf flap wheels – shank mounted

wheel diameter	maximum RPM
1-1/2"	15,000
2"	11,000
2-1/2"	11,000
3"	8,000

flap wheels – metal hub mounted

wheel diameter	maximum RPM
4"	4,000
6"	3,400
8"	3,200
10"-16"	2,500

