



SELECTING THE RIGHT FIAP DISC

SELECTING THE RIGHT FIAP DISC

HOYIN's abrasive flap discs grind and finish in one step, saving you time and money. There's no switching from a type 27 grinding wheel to a resin fiber disc.

P MAX PERFORMANCE

HOYIN® CERAMIC

- TOP COAT for cool grinding
- Protects from heat discoloration
- Prevents loading on soft alloys

GRAIN TYPE

Ceramic alumina(SG)

STYLES



BEST ON

STEEL/METAL	ALUMINUM
STAINLESS	HARD-TO-GRIND



P HIGH PERFORMANCE

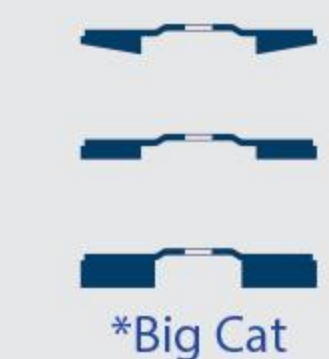
HOYIN® ZIRC+CER

- FLAT SURFACE GRINDING
- Less effort required
- Fast grinding & long life

GRAIN TYPE

Zirconia alumina + ceramic alumina infusion

STYLES



BEST ON

STEEL/METAL
STAINLESS



P HIGH PERFORMANCE

HOYIN® 100% ZIRC

- FLAT SURFACE GRINDING
- Less effort required
- Fast grinding & long life

GRAIN TYPE

100% Zirconia alumina

STYLES



BEST ON

STEEL/METAL
STAINLESS



V VALUE

HOZOSHIKING® Calcined Alumina

- Fast stock removal
- Consistent performance

GRAIN TYPE

Calcined alumina

STYLES



BEST ON

STEEL/METAL



E Economical Cheap Price

HOZOSHIKING® AO

- Fast cut rate and consistent performance at a good value.

GRAIN TYPE

Aluminum Oxide

STYLES



BEST ON

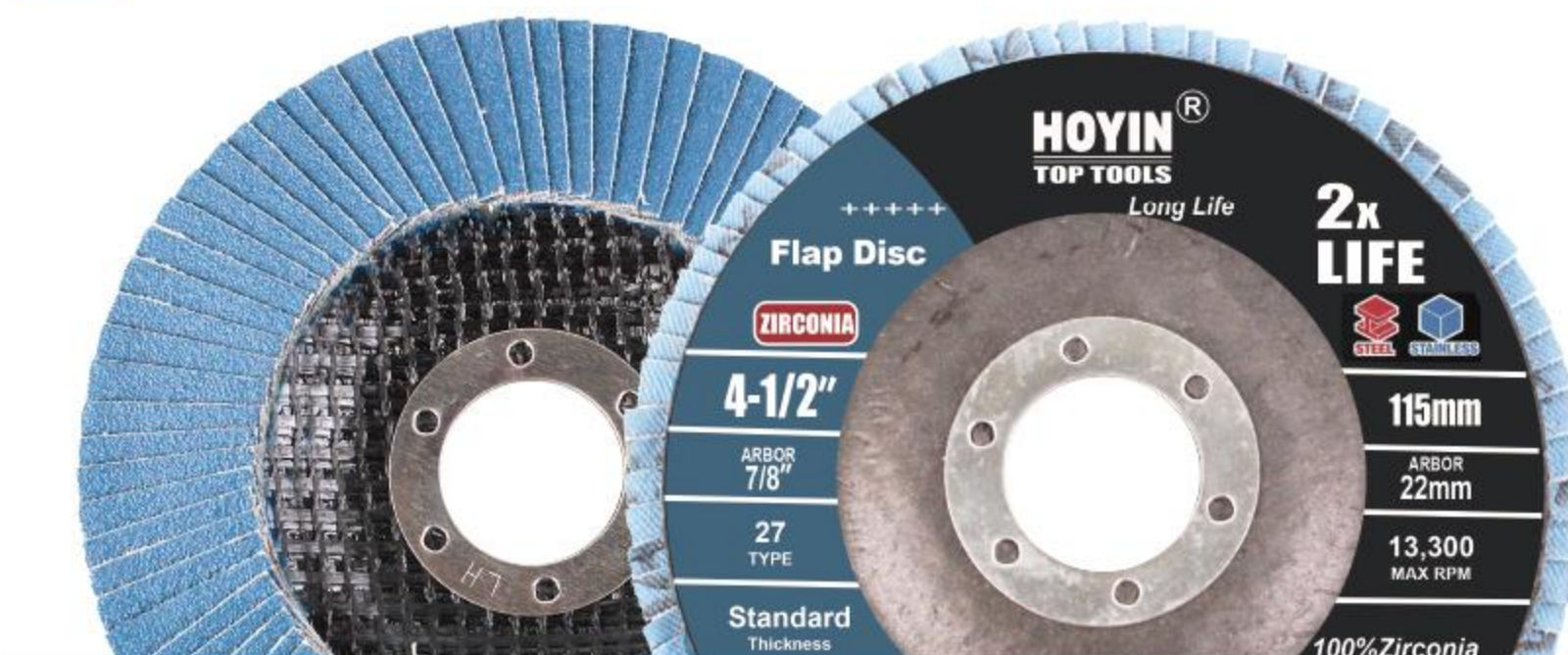
STEEL/METAL



Key: **P** PERFORMANCE LINE
Industrial Grade

V VALUE LINE
Professional Grade

E ECONOMIC LINE
Cheap Price

P PERFORMANCE  HOYIN® Aluminum	GRAIN TYPE Silicon carbide +Aluminum oxide infused	STYLES 	BEST ON STEEL/METAL ALUMINUM STAINLESS HARD-TO-GRIND
P PERFORMANCE  HOYIN® Zirconia	GRAIN TYPE Zirconia alumina + Aluminum Oxide infused	STYLES   *Big Cat	BEST ON STAINLESS
P PERFORMANCE  HOYIN® JUMBO Zirconia	GRAIN TYPE Zirconia alumina + Aluminum oxide infused	STYLES   	BEST ON STEEL/METAL STAINLESS

*Big Cat is a zirconia alumina flap disc and does not contain any ceramic alumina.

SPECIALTY FLAP DISCS 	MAX PERFORMANCE	HIGH PERFORMANCE	PERFORMANCE
ANGLED (Fillet Welds) 			
TRIMMABLE (Non-Marking) 			
ALUMINUM BACK (Rigid Support) 			
MINI (Tight Spaces) 			 (Bobcat)

Key: **P** PERFORMANCE LINE Industrial Grade **V** VALUE LINE Professional Grade **E** ECONOMIC LINE Cheap Price

STYLE



CONICAL (Type 29)
15° – 35°



Angled flaps maximize surface contact for aggressive stock removal on flat surfaces.



FLAT (Type 27)
0° – 15°



Smooth grinding, blending and finishing on flat surfaces and slight contours.



HIGH DENSITY (Type 27)
0° – 15°



Conformable to irregular surfaces. Smooth grinding, blending and finishing on flat surfaces.

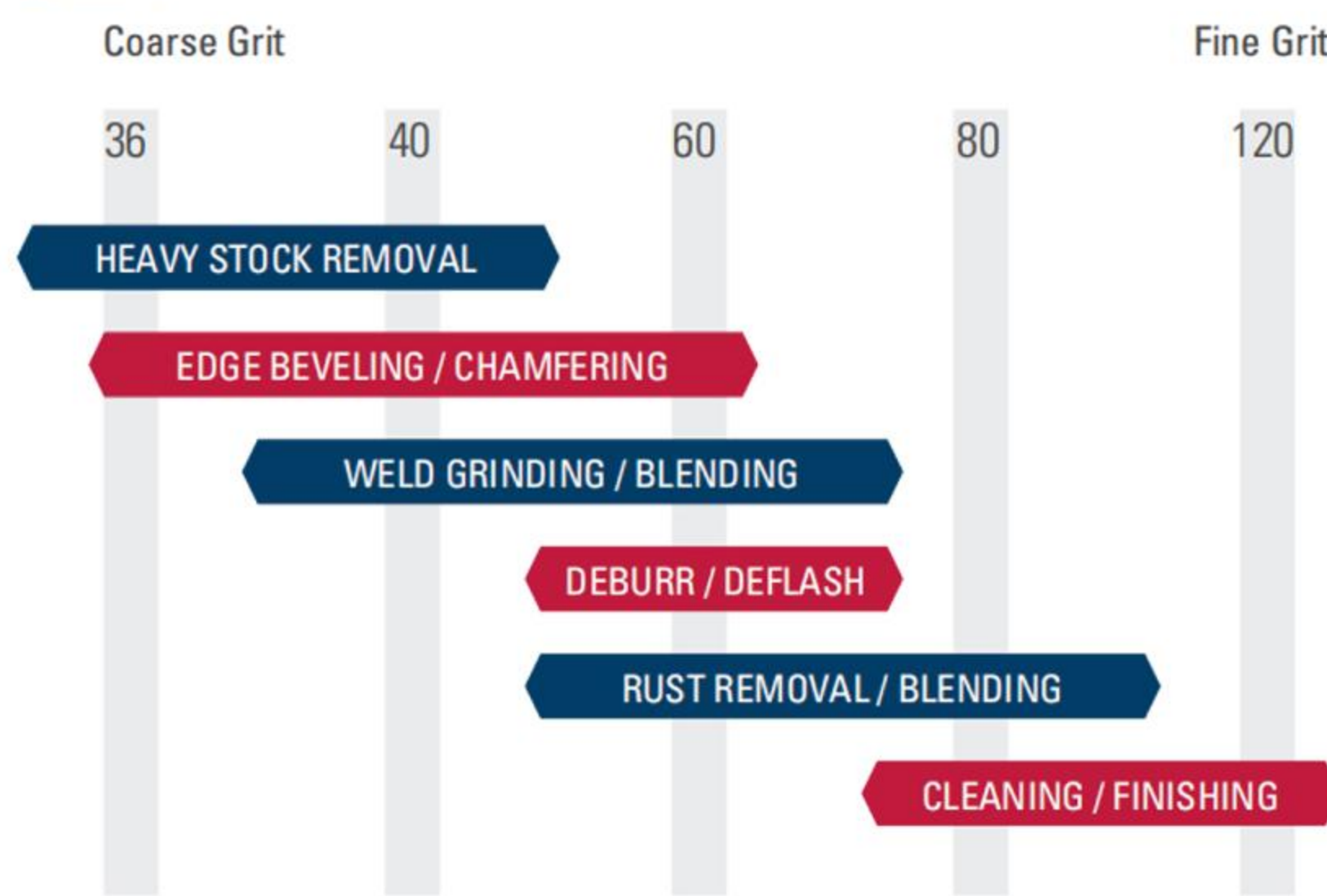


ANGLED (Type 27 / Hybrid)
0° – 35°



Curved flaps for grinding fillet welds, T-joints and hard-to-reach areas.

GRIT



GRAIN

- 

CERAMIC ALUMINA (CA)

 - Self-sharpening micro fracturing crystals expose sharp edges
 - Maintains a high cut-rate for the life of the grain
 - Longest cutting life under moderate to high pressure
 - Exceptional performance on hard-to-grind metals
- 

ZIRCONIA ALUMINA (ZA)

 - Self-sharpening crystals
 - Holds up under high temperatures and extreme pressure
 - Sharp, fast cutting, long lasting grain
- 

ALUMINUM OXIDE (AO)

 - Single crystal that dulls during use
 - Good initial cut rate
 - Hard, durable grain

BACKING

PHENOLIC



Prevents backing from scratching the workpiece.

ALUMINUM



Rigid support for maximum aggression; recyclable.

COMPOSITE*



Trimable, non-marking backing; allows access to hard-to-reach areas.

*BobCat™ Discs are not Trimable.

ARBOR

5/8" - 11 NUT

- Quick change over
- Eliminates cross-threading experienced with plastic backs
- Metal nut eliminates the disc from sticking to the grinder due to heat build up



OPEN ARBOR

- Requires adapting nuts
- 5/8" option for 4" grinders
- 7/8" option for 4-1/2" and larger grinders



MOUNTING DISCS WITH OPEN ARBORS



Adapting Nut
Abrasive Flap Disc
Adapting Nut
Right Angle Grinder

MANDRELS & METAL HUB PADS

- For quick-change on tools with 1/4" collets



Type R hub pad + mandrel Type S hub pad + mandrel Type S mandrel



HOYIN discs are engineered to maximize productivity and minimize operating costs for professionals who demand more. Get the right flap disc for your application and get more done.

P MAX PERFORMANCE / HOYIN® CERAMIC

Top Coated for Cool Grinding / Ceramic Alumina / Phenolic Back

HARD-TO-GRIND ALUMINUM

				TYPE 29	TYPE 27	TYPE 27 5/8-11"
Diameter	Grit	Max.RPM	Std.Pack	Item #	Item #	Item #
4"	40	15,000	10	—	50131	50121
	60			—	50132	50122
	80			—	50133	50123
	120			—	50139	50124
4-1/2"	40	13,300	10	50105	50100	50140
	60			50106	50101	50141
	80			50107	50102	50142
	120			50108	50103	50143
5"	40	12,250	10	50109	50104	50144
	60			50125	50111	50158
	80			50126	50112	50159
	120			50127	50113	50145
6"	40	10,200	10	50128	50114	50146
	60			50129	50115	50147
	80			50134	50116	50201
	120			50135	50117	50202
7"	40	8,500	10	50136	50118	50203
	60			50137	50110	50204
	80			50138	50119	50205
	120			50130	50120	50211

P HIGH PERFORMANCE / HOYIN CER/ZIRC-infused

Fast Grinding & Long Life on Flat Surfaces / Ceramic & Zirconia Alumina / Phenolic Back

STEEL/METAL STAINLESS

				TYPE 29	TYPE 27	TYPE 27 5/8-11"
Diameter	Grit	Max.RPM	Std.Pack	Item #	Item #	Item #
4"	40	15,000	10	—	50208	50162
	60			—	50209	50163
	80			—	50210	50164
	120			—	50216	50165
4-1/2"	40	13,300	10	50212	50217	50166
	60			50213	50218	50167
	80			50214	50219	50168
	120			50215	50220	50169
5"	40	12,250	10	50221	50226	50170
	60			50222	50227	50171
	80			50223	50228	50172
	120			50224	50229	50173
6"	40	10,200	10	50225	50230	50174
	60			50154	50148	50175
	80			50155	50149	50176
	120			50156	50150	50177
7"	40	8,500	10	50153	50151	50178
	60			50157	50152	50179
	80			50206	50160	50180
	120			50207	50161	50181

P HIGHT PERFORMANCE / HOYIN 100% Zirc

Aggressive Stock Removal for Edge Grinding / 100% Zirconia Alumina / Phenolic Back

STEEL/METAL STAINLESS

				TYPE 29	TYPE 27	TYPE 27 5/8-11"
Diameter	Grit	Max.RPM	Std.Pack	Item #	Item #	Item #
4"	40	15,000	10	—	50317	50337
	60			—	50318	50338
	80			—	50319	50339
	120			—	50320	50340
4-1/2"	40	13,300	10	50301	50321	50341
	60			50302	50322	50342
	80			50303	50323	50343
	120			50304	50324	50344
5"	40	12,250	10	50305	50325	50345
	60			50306	50326	50346
	80			50307	50327	50347
	120			50308	50328	50348
6"	40	10,200	10	50309	50329	50349
	60			50310	50330	50350
	80			50311	50331	50351
	120			50312	50332	50352
7"	40	8,500	10	50313	50333	50353
	60			50314	50334	50354
	80			50315	50335	50355
	120			50316	50336	50356



P PERFORMANCE

High cut rate & long life / Zirconia Alumina / Phenolic Back

STEEL/METAL STAINLESS

				TYPE 29	TYPE 27	TYPE 27 5/8-11"
Diameter	Grit	Max.RPM	Std.Pack	Item #	Item #	Item #
4"	40	15,000	10	—	30017	30037
	60			—	30018	30038
	80			—	30019	30039
	120			—	30020	30040
4-1/2"	40	13,300	10	30001	30021	30041
	60			30002	30022	30042
	80			30003	30023	30043
	120			30004	30024	30044
5"	40	12,250	10	30005	30025	30045
	60			30006	30026	30046
	80			30007	30027	30047
	120			30008	30028	30048
6"	40	10,200	10	30009	30029	30049
	60			30010	30030	30050
	80			30011	30031	30051
	120			30012	30032	30052
7"	40	8,500	10	30013	30033	30053
	60			30014	30034	30054
	80			30015	30035	30055
	120			30016	30036	30056

V VALUVE

HOZOSHIKING®

Consistent Performance / Aluminum Oxide / Phenolic Back

STEEL/METAL STAINLESS

				TYPE 29	TYPE 27	TYPE 27 5/8-11"
Diameter	Grit	Max.RPM	Std.Pack	Item #	Item #	Item #
4"	40	15,000	10	—	30073	30093
	60			—	30074	30094
	80			—	30075	30095
	120			—	30076	30096
4-1/2"	40	13,300	10	30057	30077*	30097
	60			30058	30078*	30098
	80			30059	30079	30099
	120			30060	30080	30100
5"	40	12,250	10	30061	30081	30101
	60			30062	30082	30102
	80			30063	30083	30103
	120			30064	30084	30104
6"	40	10,200	10	30065	30085	30105
	60			30066	30086	30106
	80			30067	30087	30107
	120			30068	30088	30108
7"	40	8,500	10	30069	30089	30109
	60			30070	30090	30110
	80			30071	30091	30111
	120			30072	30092	30112

E economic

BEBORIN®

Consistent Performance / Aluminum Oxide / Phenolic Back

STEEL/METAL STAINLESS

				TYPE 29	TYPE 27	TYPE 27 5/8-11"
Diameter	Grit	Max.RPM	Std.Pack	Item #	Item #	Item #
4"	40	15,000	10	—	50257	50276
	60			—	50258	50277
	80			—	50259	50278
	120			—	50260	50279
4-1/2"	40	13,300	10	50241	50261	50280
	60			50242	50262	50281
	80			50243	50263	50282
	120			50244	50264	50283
5"	40	12,250	10	50245	50265	50284
	60			50246	50266	50285
	80			50247	50267	50286
	120			50248	50268	50287
6"	40	10,200	10	50249	50269	50288
	60			50250	50270	50289
	80			50251	50271	50290
	120			50252	50272	50291
7"	40	8,500	10	50253	50273	50291
	60			50254	50274	50292
	80			50255	50274	50293
	120			50256	50275	50294



Blending and finishing a weld with a Big Cat flap disc.

High density flap discs last up to 40% longer than standard density. They are ideal for grinding and blending uneven or irregular surfaces.



INDUSTRY-LEADING

30mm flaps on Big Cat increases surface area grinding

P MAX PERFORMANCE / HOYIN® CERAMIC
Top Coated for Cool Grinding on Irregular Surfaces / Ceramic Alumina / Phenolic Back
Contaminant-free*

STEEL/METAL STAINLESS HARD-TO-GRIND ALUMINUM

				TYPE 27	TYPE 29
Diameter	Grit	Max.RPM	Std.Pack	Item #	Item #
4-1/2"	40	13,300	10	52001	52013
	60			52002	52014
	80			52003	52015
	120			52004	52016
5"	40	12,250	10	52005	52017
	60			52006	52018
	80			52007	52019
	120			52008	52020
6"	40	10,200	10	52009	52011
	60			52010	52012
	80			52011	52013
	120			52012	52024

P HIGH PERFORMANCE / HOYIN CER/ZIRC-infused
Fast Grinding & Long Life on Flat Surfaces / Ceramic & Zirconia Alumina / Phenolic Back

STEEL/METAL STAINLESS

				TYPE 27	TYPE 29
Diameter	Grit	Max.RPM	Std.Pack	Item #	Item #
4-1/2"	40	13,300	10	52025	52037
	60			52026	52038
	80			52027	52039
	120			52028	52040
5"	40	12,250	10	52029	52041
	60			52030	52042
	80			52031	52043
	120			52032	52044
6"	40	10,200	10	52033	52045
	60			52034	52046
	80			52035	52047
	120			52036	52048

P HIGHT PERFORMANCE / HOYIN 100% Zirc
Aggressive Stock Removal for Edge Grinding / 100% Zirconia Alumina / Phenolic Back

STEEL/METAL STAINLESS

				TYPE 27	TYPE 29
Diameter	Grit	Max.RPM	Std.Pack	Item #	Item #
4-1/2"	40	13,300	10	52049	52061
	60			52050	52062
	80			52051	52063
	120			52052	52064
5"	40	12,250	10	52053	52065
	60			52054	52066
	80			52055	52067
	120			52056	52068
6"	40	10,200	10	52057	52069
	60			52058	52070
	80			52059	52071
	120			52060	52072



P PERFORMANCE

High cut rate & long life / Zirconia Alumina / Phenolic Back

STEEL/METAL STAINLESS

				TYPE 29	TYPE 27
Diameter	Grit	Max.RPM	Std.Pack	Item #	Item #
4"	40	15,000	10	—	51069
	60			—	51070
	80			—	51071
	120			—	51072
4-1/2"	40	13,300	10	51061	51073
	60			51062	51074
	80			51063	51075
	120			51064	51076
5"	40	12,250	10	51065	51077
	60			51066	51078
	80			51067	51079
	120			51068	51080



V PERFORMANCE

HOYIN®
Consistent Performance / Aluminum Oxide / Phenolic Back/Composite Back

STEEL/METAL STAINLESS

				TYPE 29	TYPE 27
Diameter	Grit	Max.RPM	Std.Pack	Item #	Item #
4"	40	15,000	10	—	51089
	60			—	51090
	80			—	51091
	120			—	51092
4-1/2"	40	13,300	10	51081	51093
	60			51082	51094
	80			51083	60202
	120			51084	51096
5"	40	12,250	10	51085	51097
	60			51086	51098
	80			51087	51099
	120			51088	51100

E ECONOMIC

BEBORIN®
Consistent Performance / Aluminum Oxide / Phenolic Back/Composite Back

STEEL/METAL STAINLESS

				TYPE 29	TYPE 27
Diameter	Grit	Max.RPM	Std.Pack	Item #	Item #
4"	40	15,000	10	—	60200
	60			—	60201
	80			—	60211
	120			—	60221
4-1/2"	40	13,300	10	51101	51113
	60			51102	51114
	80			51103	51115
	120			51104	51116
5"	40	12,250	10	51105	51117
	60			51106	51118
	80			51107	51119
	120			51108	51120



P MAX PERFORMANCE / HOYIN® CERAMIC
Top Coated for Cool Grinding / Ceramic Alumina / Composite Back
HARD-TO-GRIND ALUMINUM

TYPE 29				TYPE 27	
Diameter	Grit	Max.RPM	Std.Pack	Item #	Item #
4"	40	15,000	10	—	51009
	60			—	51010
	80			—	51011
	120			—	51012
4-1/2"	40	13,300	10	51001	51013
	60			51002	51014
	80			51003	51015
	120			51004	51016
5"	40	12,250	10	51005	51017
	60			51006	51018
	80			51007	51019
	120			51008	51020



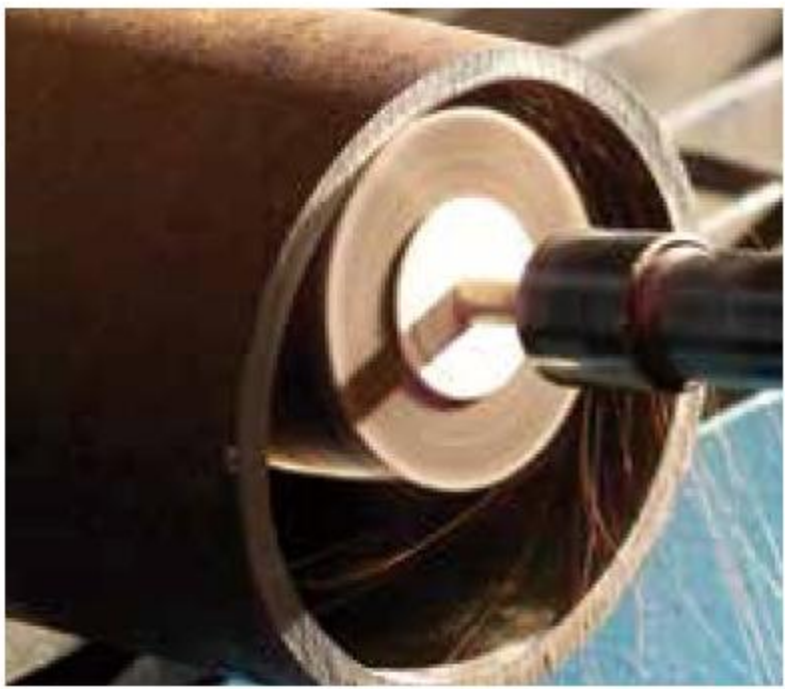
P HIGH PERFORMANCE / HOYIN CER/ZIRC-infused
Fast Grinding & Long Life on Flat Surfaces / Ceramic & Zirconia Alumina / Composite Back
STEEL/METAL STAINLESS

TYPE 29				TYPE 27	
Diameter	Grit	Max.RPM	Std.Pack	Item #	Item #
4"	40	15,000	10	—	51029
	60			—	51030
	80			—	51031
	120			—	51032
4-1/2"	40	13,300	10	51021	51033
	60			51022	51034
	80			51023	51035
	120			51024	51036
5"	40	12,250	10	51025	51037
	60			51026	51038
	80			51027	51039
	120			51028	51040



P HIGH PERFORMANCE / HOYIN 100% Zirconia
Aggressive Stock Removal for Edge Grinding / 100% Zirconia Alumina / Composite Back
STEEL/METAL STAINLESS

TYPE 29				TYPE 27	
Diameter	Grit	Max.RPM	Std.Pack	Item #	Item #
4"	40	15,000	10	—	51049
	60			—	51050
	80			—	51051
	120			—	51052
4-1/2"	40	13,300	10	51041	51053
	60			51042	51054
	80			51043	51055
	120			51044	51056
5"	40	12,250	10	51045	51057
	60			51046	51058
	80			51047	51059
	120			51048	51060
6"	40	10,200	10	51121	51129
	60			51122	51130
	80			51123	51131
	120			51124	51132
7"	40	8,500	10	51125	51133
	60			51126	51134
	80			51127	51135
	120			51128	51136



Removing burrs from the inside diameter (ID) of a cut tube.

HOYIN's abrasive flap wheels are designed with a solid hub construction that enables wheels to be rated at higher RPM's and provide more aggressive cutting action and increased productivity. They provide perfect balance leading to smooth, chatter-free finishing.

APPLICATIONS

- Internal diameter cleaning
- Finishing metal surfaces
- Deburring machined parts
- Cleaning and reconditioning pipe threads
- Polishing, blending & finishing
- Prepping surface for painting or plating
- Edge blending

P TIGER MOUNTED 1/4" STEM FLAP WHEELS

A premium line designed to provide long life. Ideal for medium to high production environments.



Diameter	Width	Grit Size	Max. RPM	Standard Pack	Item Number
					Aluminum Oxide
1"	1"	60	30,000	10	56496
		80			56497
		120			56498
1-1/2"	1"	60	25,000	10	56499
		80			56500
		120			56501
2"	1/2"	60	25,000	10	56502
		80			56503
		120			56504
2"	1"	60	25,000	10	56505
		80			56506
		120			56507
2-1/2"	1"	60	23,000	10	56508
		80			56509
		120			56510
3"	1/2"	60	23,000	10	56511
		80			56512
		120			56513

P TIGER MOUNTED 1/4"-20 THREADED STEM FLAP WHEELS

A premium line designed to provide long life. Ideal for medium to high production environments.



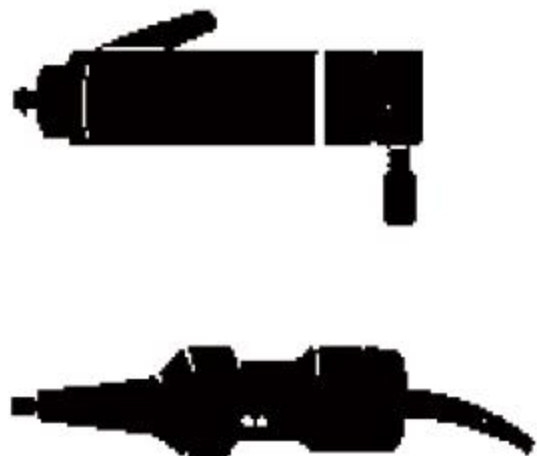
Diameter	Width	Grit Size	Max. RPM	Standard Pack	Item Number
					Aluminum Oxide
1"	1"	60	30,000	10	56514
		80			56515
		120			56516
2"	1"	60	25,000	10	56517
		80			56518
		120			56519
3"	1"	60	20,000	10	56520
		80			56521
		120			56522



GREAT VALUE AT THE RIGHT PRICE
Hozoshiking Flap Wheels offer a high cut rate at a cost-effective price. The smart option for use in medium production environments.

APPLICATIONS

- Internal diameter cleaning
- Finishing metal surfaces
- Deburring machined parts
- Cleaning and reconditioning pipe threads
- Polishing, blending & finishing
- Prepping surface for painting or plating
- Edge blending



HOZOSHIKING 1/4" STEM MOUNTED FLAP WHEELS

Provide fast cutting action at a value price. Ideal for low to medium production environments.



Diameter	Width	Grit Size	Max. RPM	Standard Pack	Item Number
					Aluminum Oxide
5/8"	5/8"	40	30,000	10	56514
		60			56515
		80			56516
3/4"	3/4"	40	30,000	10	56517
		60			56518
		80			56519
1"	1"	40	30,000	10	56520
		60			56521
		80			56522
		120			56523
1-1/2"	1"	40	25,000 V	10	56524
		60			56525
		80			56526
		120			56527
2"	1"	40	25,000	10	56528
		60			56529
		80			56530
		120			56531
2-1/2"	1"	40	23,000	10	56532
3"	1"	40	23,000	10	56533
		60			56534
		80			56535
		120			56536

HOZOSHIKING 1/4"-20 THREADED STEM MOUNTED FLAP WHEELS

Provide fast cutting action at a value price. Ideal for low to medium production environments.



Diameter	Width	Grit Size	Max. RPM	Standard Pack	Aluminum Oxide
1"	1"	60	30,000	10	56537
		80			56538
2"	1"	60	25,000	10	56539
		80			56540
3"	1"	60	20,000	10	56541
		80			56542

DRIVE ARBOR

For 1/4"-20 Thread Mounted Flap Wheels



Thread Size	Adapted Size	Standard Pack	Item Number
1/4"-20	1/4"	5	56543

- NOTE
- Drive arbor is to be used with Weiler flap wheels only.
 - Stems must be fully chucked before using and should not be run above the maximum RPM listed

Coated Abrasive Shop Rolls

Feature and Benefits

- *Resin over resin bonded
- *The cotton cloth provides a tougher,durable backing for longer life
- * Provides a stronger,heat and moisture resistant bond that better utilizes the abrasive grains



Roll Width	Color	Application	Brand	Grain Type	Grit	Industry
1inch (25mm)	Brown	Finishihng	HOYIN	Aluminum Oxide	60 80 120 150 180 240 320	Facility Maintenance
1-1/2inch (40mm)	Brown	Finishihng	HOYIN	Aluminum Oxide	60 80 120 150 180 240 320	Facility Maintenance
2inch (50mm)	Brown	Finishihng	HOYIN	Aluminum Oxide	60 80 120 150 180 240 320	Facility Maintenance

Coated Abrasive Shop Rolls

Feature and Benefits

- *Resin over resin bonded
- *The cotton cloth provides a tougher,durable backing for longer life
- * Provides a stronger,heat and moisture resistant bond that better utilizes the abrasive grains



Roll Width	Color	Application	Brand	Grain Type	Grit	Industry
1inch (25mm)	Brown	Finishihng	HOYIN	Zirconia Alumina	60 80 120 150 180 240 320	Facility Maintenance
1-1/2inch (40mm)	Brown	Finishihng	HOYIN	Zirconia Alumina	60 80 120 150 180 240 320	Facility Maintenance
2inch (50mm)	Brown	Finishihng	HOYIN	Zirconia Alumina	60 80 120 150 180 240 320	Facility Maintenance