



# ALTO PRODUCTS CORP.

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## HEAVY DUTY FRICTION MATERIAL & TRANSMISSION PARTS

Truck • Bus • Construction • Earth Moving • Agricultural • Material Handling

# ALTO HEAVY DUTY CATALOG

## ALLIS CHALMERS

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
1004870	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	
1004876	023712BR260	Friction	148.59 x 107.72 x 2.62	5.85 x 4.241 x 0.103	52 INT	BRZ
1005843	023712BR295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	
1018221	023760	Steel	138.99 x 98.27 x 0.81	5.472 x 3.869 x 0.322	54 EXT	
1018222	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
1018224	049700BR	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	BRZ
1018225	023761	Steel	138.99 x 99.01 x 8.76	5.472 x 3.898 x 0.345	54 EXT	
1018238	023738BR	Friction	190.6 x 147.17 x 2.92	7.504 x 5.794 x 0.115	59 INT	
1018239	023739	Steel	214.83 x 155.58 x 1.75	8.458 x 6.125 x 0.069	3 EXT	
4913971	023701-300	Steel	138.99 x 99.01 x 3	5.472 x 3.898 x 0.118	54 EXT	
4913985	049720-200	Friction	133.35 x 92.79 x 2.08	5.25 x 3.653 x 0.082	45 INT	GRY
4917871	053703	Steel	156.03 x 119.13 x 1.8	6.143 x 4.69 x 0.071	12 EXT	
4917873	053702	Friction	142.88 x 110.08 x 1.55	5.625 x 4.334 x 0.061	24 INT	GRY
4917896	053700	Friction	99.85 x 68.17 x 1.55	3.931 x 2.684 x 0.061	34 INT	GRY
9502757	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	
11018222	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
70256524	302702BR	Friction	152.32 x 85.85 x 3.05	5.997 x 3.38 x 0.12	28 INT	
70261212	302704BR	Friction	177.57 x 99.49 x 3.05	6.991 x 3.917 x 0.12	32 INT	
70265486	302703	Steel	176.83 x 97.59 x 1.91	6.962 x 3.842 x 0.075	3 EXT	
70265487	302767	Waved Spring	164.72 x 156.82 x 0.76	6.485 x 6.174 x 0.03		
70734526	023712BR260	Friction	148.59 x 107.72 x 2.62	5.85 x 4.241 x 0.103	52 INT	BRZ
71004876	023712BR260	Friction	148.59 x 107.72 x 2.62	5.85 x 4.241 x 0.103	52 INT	BRZ
71005843	023712BR260	Friction	148.59 x 107.72 x 2.62	5.85 x 4.241 x 0.103	52 INT	BRZ
11018222 SEL	023701-140	Steel - Selective	138.99 x 99.01 x 1.4	5.472 x 3.898 x 0.055	54 EXT	

## ALLISON - OTHER CLUTCHES

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
5196303	023739	Steel	214.83 x 155.58 x 1.75	8.458 x 6.125 x 0.069	3 EXT	
5197160	049700	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	GRY
6758737	179763-500	Steel	311.91 x 233.68 x 5.08	12.28 x 9.2 x 0.2	8 EXT	
6770865	352703	Steel	257.18 x 175.64 x 7.98	10.125 x 6.915 x 0.314	8 EXT	
6770916	352707-500	Steel	210.06 x 157.73 x 4.98	8.27 x 6.21 x 0.196	8 EXT	
6770917	TPS12406	Steel	209.7 x 157.02 x 2.36	8.256 x 6.182 x 0.093	8 EXT	
6771489	179763-500	Steel	311.91 x 233.68 x 5.08	12.28 x 9.2 x 0.2	8 EXT	
6776092	317721-300	Steel	329.13 x 256.36 x 3	12.958 x 10.093 x 0.118	8 EXT	
6777592	352712BR390	Friction	254 x 74.5 x 3.91	10 x 2.933 x 0.154	6 INT	
6830221	352704A388	Friction	253.64 x 187.81 x 3.91	9.986 x 7.394 x 0.154	60 INT	BLK
6830368	352704-388	Friction	253.59 x 187.81 x 3.91	9.984 x 7.394 x 0.154	60 INT	
6830920	352702-520	Friction	371.68 x 302.74 x 5.23	14.633 x 11.919 x 0.206	72 INT	BLK
6834370	056700C255	Friction	182.55 x 129.64 x 2.54	7.187 x 5.104 x 0.1	30 INT	BLK
6835152	055702B246	Friction	207.01 x 154.43 x 2.54	8.15 x 6.08 x 0.1	60 INT	GRS
6835687	055724A255	Friction	231.62 x 174.35 x 2.54	9.119 x 6.864 x 0.1	80 INT	BLK
6835748	056710B380	Friction	319.07 x 259.46 x 3.81	12.562 x 10.215 x 0.15	62 INT	BLK
6835976	055724A255	Friction	231.62 x 174.35 x 2.54	9.119 x 6.864 x 0.1	80 INT	BLK
6835997	178714-390	Friction	217.91 x 170.69 x 3.89	8.579 x 6.72 x 0.153	59 INT	GRS
6837563	352704-388	Friction	253.59 x 187.81 x 3.91	9.984 x 7.394 x 0.154	60 INT	
6837565	352704-388	Friction	253.59 x 187.81 x 3.91	9.984 x 7.394 x 0.154	60 INT	
6839914	317721-300	Steel	329.13 x 256.36 x 3	12.958 x 10.093 x 0.118	8 EXT	
6882826	055724A255	Friction	231.62 x 174.35 x 2.54	9.119 x 6.864 x 0.1	80 INT	BLK
6884958	055724A255	Friction	231.62 x 174.35 x 2.54	9.119 x 6.864 x 0.1	80 INT	BLK

# ALTO HEAVY DUTY CATALOG

## ALLISON - OTHER CLUTCHES

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
6885138	055702B246	Friction	207.01 x 154.43 x 2.54	8.15 x 6.08 x 0.1	60 INT	GRS
6885142	056702A	Friction	275.29 x 222.45 x 3.18	10.838 x 8.758 x 0.125	71 INT	GRN
8348869	179763-500	Steel	311.91 x 233.68 x 5.08	12.28 x 9.2 x 0.2	8 EXT	
8625797	031711	Steel	159.39 x 116.46 x 2.29	6.275 x 4.585 x 0.09	12 BASE 14 EXT	
8625797	055701-230	Steel	159.33 x 116.21 x 2.31	6.273 x 4.575 x 0.091	12 EXT	
23010147	056712	Friction	371.7 x 302.95 x 5.21	14.634 x 11.927 x 0.205	73 INT	BLK
23010436	056710B380	Friction	319.07 x 259.46 x 3.81	12.562 x 10.215 x 0.15	62 INT	BLK
23010438	352702-520	Friction	371.68 x 302.74 x 5.23	14.633 x 11.919 x 0.206	72 INT	BLK
23017553	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
23017553	023703	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
23040848	056710B380	Friction	319.07 x 259.46 x 3.81	12.562 x 10.215 x 0.15	62 INT	BLK
23041097	055702B246	Friction	207.01 x 154.43 x 2.54	8.15 x 6.08 x 0.1	60 INT	GRS
23042039	056712	Friction	371.7 x 302.95 x 5.21	14.634 x 11.927 x 0.205	73 INT	BLK
23042202	056710B380	Friction	319.07 x 259.46 x 3.81	12.562 x 10.215 x 0.15	62 INT	BLK
23045454	352702-520	Friction	371.68 x 302.74 x 5.23	14.633 x 11.919 x 0.206	72 INT	BLK
23045455	352704A388	Friction	253.64 x 187.81 x 3.91	9.986 x 7.394 x 0.154	60 INT	BLK
23048510	056712	Friction	371.7 x 302.95 x 5.21	14.634 x 11.927 x 0.205	73 INT	BLK
23083787	056702A	Friction	275.29 x 222.45 x 3.18	10.838 x 8.758 x 0.125	71 INT	GRN
29505720	149703-249	Steel	328.09 x 255.19 x 2.49	12.917 x 10.047 x 0.098	56 EXT	
29505759	149701-246	Steel	190.09 x 117.86 x 2.46	7.484 x 4.64 x 0.097	48 INT	
29505765	149705-246	Steel	352.35 x 279.2 x 2.46	13.872 x 10.992 x 0.097	24 EXT	
29529492	055724A255	Friction	231.62 x 174.35 x 2.54	9.119 x 6.864 x 0.1	80 INT	BLK
29538424	055724A255	Friction	231.62 x 174.35 x 2.54	9.119 x 6.864 x 0.1	80 INT	BLK

## ALLISON 5000,6000 Series

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
6769326	352711-495	Steel	387.3 x 322.78 x 4.95	15.248 x 12.708 x 0.195	30 EXT	
6832138	352700A510	Friction	433.5 x 371.73 x 5.33	17.067 x 14.635 x 0.21	89 INT	BRZ
6832138	352700A510	Friction	433.5 x 371.73 x 5.33	17.067 x 14.635 x 0.21	89 INT	BRZ
23019152	352808	OVERHAUL KIT				
29544490	352802	OVERHAUL KIT				

## ALLISON 8000 Series

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
6776610	352711-300	Steel	387.3 x 322.78 x 3	15.248 x 12.708 x 0.118	30 EXT	
6777796	352713-500	Steel	450.77 x 390.17 x 4.9	17.747 x 15.361 x 0.193	35 EXT	
23041615	352706-520	Friction	433.27 x 371.3 x 5.18	17.058 x 14.618 x 0.204	89 INT	BLK
23041616	352702-520	Friction	371.68 x 302.74 x 5.23	14.633 x 11.919 x 0.206	72 INT	BLK
23048195	352700A510	Friction	433.5 x 371.73 x 5.33	17.067 x 14.635 x 0.21	89 INT	BRZ
29544490	352802	OVERHAUL KIT				

## ALLISON CRT 3321-3630

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline
6768446	352704-388	Friction	253.59 x 187.81 x 3.91	9.984 x 7.394 x 0.154	60 INT
6837690	352701	Steel	274.32 x 202.49 x 2.72	10.8 x 7.972 x 0.107	6 EXT

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## ALLISON CRT 5633

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
6776610	352711-300	Steel	387.3 x 322.78 x 3	15.248 x 12.708 x 0.118	30 EXT	
6884505	352810	OVERHAUL KIT				
23048511	056712	Friction	371.7 x 302.95 x 5.21	14.634 x 11.927 x 0.205	73 INT	BLK

## ALLISON DP - 58,59,60 SERIES

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
6769326	352711-495	Steel	387.3 x 322.78 x 4.95	15.248 x 12.708 x 0.195	30 EXT	
6776610	352704-388	Friction	253.59 x 187.81 x 3.91	9.984 x 7.394 x 0.154	60 INT	
6777796	352713-500	Steel	450.77 x 390.17 x 4.9	17.747 x 15.361 x 0.193	35 EXT	
23041616	352702-520	Friction	371.68 x 302.74 x 5.23	14.633 x 11.919 x 0.206	72 INT	BLK
23048195	352700A510	Friction	433.5 x 371.73 x 5.33	17.067 x 14.635 x 0.21	89 INT	BRZ

## ALLISON HT 70-CLBT 4460

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline
6758737	179763-500	Steel	311.91 x 233.68 x 5.08	12.28 x 9.2 x 0.2	8 EXT

## ALLISON OVERHAUL KITS

Ref #	Alto #	Description
6838897	352812	OVERHAUL KIT TT2000/3000/4000
6884505	352810	OVERHAUL KIT CRT-5563 SERIES
23012606	352800	OVERHAUL KIT CLBT 700 SERIES
23019152	352808	OVERHAUL KIT CLBT 5000 SERIES
29544490	352802	OVERHAUL KIT CLBT 5000/6000 SERIES

## ALLISON TT2000/3000/4000

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
6775541	352704-388	Friction	253.59 x 187.81 x 3.91	9.984 x 7.394 x 0.154	60 INT	
6837690	352701	Steel	274.32 x 202.49 x 2.72	10.8 x 7.972 x 0.107	6 EXT	
6838897	352812	OVERHAUL KIT				
23010122	352704A388	Friction	253.64 x 187.81 x 3.91	9.986 x 7.394 x 0.154	60 INT	BLK
23010871	352712BR390	Friction	254 x 74.5 x 3.91	10 x 2.933 x 0.154	6 INT	
23017289	317721-300	Steel	329.13 x 256.36 x 3	12.958 x 10.093 x 0.118	8 EXT	

## ATLAS COPCO/ WAGNER

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
333868	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	
339613	023712BR295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	
339711	023712BR295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	
351568	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
368988	023712BR295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	
371749	310715	Steel	218.97 x 158.93 x 2.72	8.621 x 6.257 x 0.107	14 EXT	
5533386700	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	
5533961300	023712BR295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	
5533969200	310713	Steel	257.05 x 190.83 x 2.59	10.12 x 7.513 x 0.102	14 EXT	
5533971100	023712BR295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	
5535156800	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
5535318300	049700BR235	Friction	133.35 x 92.79 x 2.36	5.25 x 3.653 x 0.093	45 INT	
5535599600	049700BR235	Friction	133.35 x 92.79 x 2.36	5.25 x 3.653 x 0.093	45 INT	

# ALTO HEAVY DUTY CATALOG

## ATLAS COPCO/ WAGNER

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
5536533200	310715	Steel	218.97 x 158.93 x 2.72	8.621 x 6.257 x 0.107	14 EXT	
5536713400	023712BR295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	
5540863600	310728-215	Friction	117.58 x 68.28 x 2.16	4.629 x 2.688 x 0.085	33 INT	TAN
5541285800	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	
5541511000	310721-180	Steel	182.88 x 118.21 x 1.75	7.2 x 4.654 x 0.069	71 EXT	
5541733800	352711-300	Steel	387.3 x 322.78 x 3	15.248 x 12.708 x 0.118	30 EXT	

## AUSA

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
DA1120761002	306732-485	Friction	201.17 x 40.39 x 4.88	7.92 x 1.59 x 0.192	16 INT	TAN

## AUSCO

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline
23584	306722-280	Friction	165.05 x 50.8 x 2.79	6.498 x 2 x 0.11	17 INT
37893	306702-467	Friction	202.95 x 57.15 x 4.7	7.99 x 2.25 x 0.185	19 INT

## BELL

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
220713	036707	Steel	114.6 x 85.19 x 1.7	4.512 x 3.354 x 0.067	44 EXT	
220714	036700	Friction	107.7 x 80.85 x 2.54	4.24 x 3.183 x 0.1	39 INT	TAN
3213744	049700BR235	Friction	133.35 x 92.79 x 2.36	5.25 x 3.653 x 0.093	45 INT	
321 3587	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	

## BENATI

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
3212326	023712BR295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	
3213587	023703	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
3213743	049700BR235	Friction	133.35 x 92.79 x 2.36	5.25 x 3.653 x 0.093	45 INT	
3213743	049740-230	Friction	133.35 x 92.79 x 2.31	5.25 x 3.653 x 0.091	45 INT	GRY
3213744	049740-230	Friction	133.35 x 92.79 x 2.31	5.25 x 3.653 x 0.091	45 INT	GRY
3213793	023712BR295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	
3242336	329706	Friction	137.29 x 91.24 x 2.01	5.405 x 3.592 x 0.079	27 EXT	
321 2112	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	
321 2326	023712BR295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	
321 3587	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
321 3743	049700BR235	Friction	133.35 x 92.79 x 2.36	5.25 x 3.653 x 0.093	45 INT	
321 3744	049700BR235	Friction	133.35 x 92.79 x 2.36	5.25 x 3.653 x 0.093	45 INT	
321 3793	023712BR295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	
324 2311	329708	Friction	177.32 x 109.22 x 2.01	6.981 x 4.3 x 0.079	35 EXT	
324 2336	329706	Friction	137.29 x 91.24 x 2.01	5.405 x 3.592 x 0.079	27 EXT	

## BENFORD

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
8009092	049720-200	Friction	133.35 x 92.79 x 2.08	5.25 x 3.653 x 0.082	45 INT	GRY
8009093	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
800-9092	049720-200	Friction	133.35 x 92.79 x 2.08	5.25 x 3.653 x 0.082	45 INT	GRY
800-9093	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	

# ALTO HEAVY DUTY CATALOG

## BOBCAT

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Matl
6502424	179706-327	Friction	190.5 x 136.91 x 3.25	7.5 x 5.39 x 0.128	TAN
6649871	179706-327	Friction	190.5 x 136.91 x 3.25	7.5 x 5.39 x 0.128	TAN

## BOMAG

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
32010076	306732-485	Friction	201.17 x 40.39 x 4.88	7.92 x 1.59 x 0.192	16 INT	TAN
H1000000143	329706	Friction	137.29 x 91.24 x 2.01	5.405 x 3.592 x 0.079	27 EXT	
H1000002088	329707-200	Steel	131.19 x 85.24 x 2.01	5.165 x 3.356 x 0.079	29 INT	

## BORG WARNER T-22

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
10-08-166-001	308703	Steel	205.49 x 145.47 x 3.53	8.09 x 5.727 x 0.139	43 EXT	
1008166001	308703	Steel	205.49 x 145.47 x 3.53	8.09 x 5.727 x 0.139	43 EXT	
10-08-666-001	308700A	Friction	196.34 x 137.92 x 2.79	7.73 x 5.43 x 0.11	44 INT	
1008666001	308700A	Friction	196.34 x 137.92 x 2.79	7.73 x 5.43 x 0.11	44 INT	
1008666004	308700	Friction	197.03 x 138.3 x 2.79	7.757 x 5.445 x 0.11	44 INT	GRY
10-08-666-004	308700	Friction	197.03 x 138.3 x 2.79	7.757 x 5.445 x 0.11	44 INT	GRY
1017666001	023738A	Friction	190.2 x 146.76 x 2.92	7.488 x 5.778 x 0.115	59 INT	GRY
10-17-666-001	023738A	Friction	190.2 x 146.76 x 2.92	7.488 x 5.778 x 0.115	59 INT	GRY
1021166001	023701-300	Steel	138.99 x 99.01 x 3	5.472 x 3.898 x 0.118	54 EXT	
1021-166-001	023701-300	Steel	138.99 x 99.01 x 3	5.472 x 3.898 x 0.118	54 EXT	
1021166001 SEL	023701-140	Steel - Selective	138.99 x 99.01 x 1.4	5.472 x 3.898 x 0.055	54 EXT	
1021-166-001 SEL	023701-140	Steel - Selective	138.99 x 99.01 x 1.4	5.472 x 3.898 x 0.055	54 EXT	
1021666002	049720-200	Friction	133.35 x 92.79 x 2.08	5.25 x 3.653 x 0.082	45 INT	GRY
1021-666-002	049720-200	Friction	133.35 x 92.79 x 2.08	5.25 x 3.653 x 0.082	45 INT	GRY
1021666003	049720-200	Friction	133.35 x 92.79 x 2.08	5.25 x 3.653 x 0.082	45 INT	GRY
1021-666-003	049720-200	Friction	133.35 x 92.79 x 2.08	5.25 x 3.653 x 0.082	45 INT	GRY
1021666005	049720-200	Friction	133.35 x 92.79 x 2.08	5.25 x 3.653 x 0.082	45 INT	GRY
1021-666-005	049720-200	Friction	133.35 x 92.79 x 2.08	5.25 x 3.653 x 0.082	45 INT	GRY
22176	308701	Steel	205.59 x 145.47 x 1.65	8.094 x 5.727 x 0.065	64 EXT	
22-176	308701	Steel	205.59 x 145.47 x 1.65	8.094 x 5.727 x 0.065	64 EXT	
AT22066	308700A	Friction	196.34 x 137.92 x 2.79	7.73 x 5.43 x 0.11	44 INT	
AT-220-66	308700A	Friction	196.34 x 137.92 x 2.79	7.73 x 5.43 x 0.11	44 INT	
NA	023738A	Friction	190.2 x 146.76 x 2.92	7.488 x 5.778 x 0.115	59 INT	GRY

## BRAY

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
C35433A	323702	Friction	128.27 x 87.91 x 2.54	5.05 x 3.461 x 0.1	57 INT	BRZ
P15108/104	332704	Friction	164.24 x 103.81 x 2.87	6.466 x 4.087 x 0.113	76 EXT	
P15108/104	332704	Friction	164.24 x 103.81 x 2.87	6.466 x 4.087 x 0.113	76 EXT	
P15306/82	311711	Steel	209.32 x 114.3 x 2.62	8.241 x 4.5 x 0.103	1 EXT	
P15306/82	311711	Steel	209.32 x 114.3 x 2.62	8.241 x 4.5 x 0.103	1 EXT	
P20060/136	332704	Friction	164.24 x 103.81 x 2.87	6.466 x 4.087 x 0.113	76 EXT	
P20060/136	332704	Friction	164.24 x 103.81 x 2.87	6.466 x 4.087 x 0.113	76 EXT	

## BRAY EQUIPMENT

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
C35443C	323702	Friction	128.27 x 87.91 x 2.54	5.05 x 3.461 x 0.1	57 INT	BRZ

# ALTO HEAVY DUTY CATALOG

## BRAY EQUIPMENT

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
P1530682	311711	Steel	209.32 x 114.3 x 2.62	8.241 x 4.5 x 0.103	1 EXT	

## BROCKHOUSE

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
G14640	033711A	Steel	144.2 x 94.49 x 1.4	5.677 x 3.72 x 0.055	33 EXT	
G14914	323702	Friction	128.27 x 87.91 x 2.54	5.05 x 3.461 x 0.1	57 INT	BRZ
G15640	033711A	Steel	144.2 x 94.49 x 1.4	5.677 x 3.72 x 0.055	33 EXT	
G16540	323702	Friction	128.27 x 87.91 x 2.54	5.05 x 3.461 x 0.1	57 INT	BRZ
G33249	323702	Friction	128.27 x 87.91 x 2.54	5.05 x 3.461 x 0.1	57 INT	BRZ

## BRODERSON

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
910700148	049700BR	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	BRZ
910700149	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
910700150	023761	Steel	138.99 x 99.01 x 8.76	5.472 x 3.898 x 0.345	54 EXT	
910700163	023738BR	Friction	190.6 x 147.17 x 2.92	7.504 x 5.794 x 0.115	59 INT	
910700164	023739	Steel	214.83 x 155.58 x 1.75	8.458 x 6.125 x 0.069	3 EXT	
910700293	049720-200	Friction	133.35 x 92.79 x 2.08	5.25 x 3.653 x 0.082	45 INT	GRY
910700294	023701-300	Steel	138.99 x 99.01 x 3	5.472 x 3.898 x 0.118	54 EXT	
NA	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	

## CARCO WINCHES

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline
33866	133762-580	Steel	145.26 x 127.53 x 5.77	5.719 x 5.021 x 0.227	36 EXT

## CARRARO

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
133924	306705-250	Steel	150.95 x 98.76 x 2.49	5.943 x 3.888 x 0.098	6 EXT	
136155	303701-500	Steel	229.84 x 152.88 x 5	9.049 x 6.019 x 0.197	64 EXT	
143874	303700-490	Friction	223.52 x 71.2 x 4.9	8.8 x 2.803 x 0.193	36 INT	GRY
382114	303700-490	Friction	223.52 x 71.2 x 4.9	8.8 x 2.803 x 0.193	36 INT	GRY

## CASE (DAVID BROWN)

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
9968289	310727-225	Steel	143.46 x 89.51 x 2.24	5.648 x 3.524 x 0.088	26 EXT	
190462A1	166707-200	Steel	179.83 x 148.56 x 2.01	7.08 x 5.849 x 0.079	32 EXT	
308030A1	303701-500	Steel	229.84 x 152.88 x 5	9.049 x 6.019 x 0.197	64 EXT	
6190105M1	310727-225	Steel	143.46 x 89.51 x 2.24	5.648 x 3.524 x 0.088	26 EXT	
81736C1	329706	Friction	137.29 x 91.24 x 2.01	5.405 x 3.592 x 0.079	27 EXT	
92935C3	306734	Friction	141.1 x 98.68 x 1.98	5.555 x 3.885 x 0.078	48 INT	GRY
92935C4	306734	Friction	141.1 x 98.68 x 1.98	5.555 x 3.885 x 0.078	48 INT	GRY
A175806	310727-225	Steel	143.46 x 89.51 x 2.24	5.648 x 3.524 x 0.088	26 EXT	
A17920	023712BR295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	
ALTERNATIVE	303700-490	Friction	223.52 x 71.2 x 4.9	8.8 x 2.803 x 0.193	36 INT	GRY
D106118	023712BR295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	
D50081	023760	Steel	138.99 x 98.27 x 0.81	5.472 x 3.869 x 0.322	54 EXT	
D50084	023761	Steel	138.99 x 99.01 x 8.76	5.472 x 3.898 x 0.345	54 EXT	
E135004	329706	Friction	137.29 x 91.24 x 2.01	5.405 x 3.592 x 0.079	27 EXT	

# ALTO HEAVY DUTY CATALOG

## CASE (DAVID BROWN)

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
E135226	329707-200	Steel	131.19 x 85.24 x 2.01	5.165 x 3.356 x 0.079	29 INT	
E159992	049720-200	Friction	133.35 x 92.79 x 2.08	5.25 x 3.653 x 0.082	45 INT	GRY
181158A1	049700A175	Friction	133.35 x 92.79 x 1.75	5.25 x 3.653 x 0.069	45 INT	BRZ
E68704	049700BR	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	BRZ
G102369	306708-480	Friction	190.53 x 117.07 x 4.75	7.501 x 4.609 x 0.187	29 INT	
N4587	049700	Friction	133.35 x 92.79 x 1.57	5.25 x 3.653 x 0.062	45 INT	GRY
N7022	352704A388	Friction	253.64 x 187.81 x 3.91	9.986 x 7.394 x 0.154	60 INT	BLK
N7217	049700BR	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	BRZ
N7219	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
N8738	049700BR235	Friction	133.35 x 92.79 x 2.36	5.25 x 3.653 x 0.093	45 INT	
N8750	352712BR390	Friction	254 x 74.5 x 3.91	10 x 2.933 x 0.154	6 INT	
S73416	023738BR	Friction	190.6 x 147.17 x 2.92	7.504 x 5.794 x 0.115	59 INT	
S73428	023761	Steel	138.99 x 99.01 x 8.76	5.472 x 3.898 x 0.345	54 EXT	
S73434	023760	Steel	138.99 x 98.27 x 0.81	5.472 x 3.869 x 0.322	54 EXT	

## CATERPILLAR

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
216173	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
375033	308700A	Friction	196.34 x 137.92 x 2.79	7.73 x 5.43 x 0.11	44 INT	
0643847	308701	Steel	205.59 x 145.47 x 1.65	8.094 x 5.727 x 0.065	64 EXT	
695724	023712A170	Friction	148.59 x 107.72 x 1.7	5.85 x 4.241 x 0.067	52 INT	TAN
971077	023712BR260	Friction	148.59 x 107.72 x 2.62	5.85 x 4.241 x 0.103	52 INT	BRZ
971077	023712BR295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	
0972534	310701	Steel	162.03 x 115.93 x 1.7	6.379 x 4.564 x 0.067	4 EXT	
972534	310701	Steel	162.03 x 115.93 x 1.7	6.379 x 4.564 x 0.067	4 EXT	
0973587	318700	Friction	169.14 x 78.44 x 3.3	6.659 x 3.088 x 0.13	20 INT	
973587	318700	Friction	169.14 x 78.44 x 3.3	6.659 x 3.088 x 0.13	20 INT	
973826	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	
982751	332704	Friction	164.24 x 103.81 x 2.87	6.466 x 4.087 x 0.113	76 EXT	
1014838	079731	Steel	137.62 x 80.34 x 2.26	5.418 x 3.163 x 0.089	4 EXT	
1015162	079730A365	Friction	124.64 x 68.83 x 3.66	4.907 x 2.71 x 0.144	41 INT	GRY
1028458	311711	Steel	209.32 x 114.3 x 2.62	8.241 x 4.5 x 0.103	1 EXT	
1033348	330706-260	Friction	155.7 x 87.86 x 2.67	6.13 x 3.459 x 0.105	37 INT	GRY
1033349	308705-230	Steel	170.38 x 99.97 x 2.29	6.708 x 3.936 x 0.09	6 EXT	
1038580	330706-260	Friction	155.7 x 87.86 x 2.67	6.13 x 3.459 x 0.105	37 INT	GRY
1038585	308705-230	Steel	170.38 x 99.97 x 2.29	6.708 x 3.936 x 0.09	6 EXT	
1147273	308705-230	Steel	170.38 x 99.97 x 2.29	6.708 x 3.936 x 0.09	6 EXT	
1157261	330706-260	Friction	155.7 x 87.86 x 2.67	6.13 x 3.459 x 0.105	37 INT	GRY
1163936	329701-250	Steel	740.26 x 539.75 x 2.41	29.144 x 21.25 x 0.095	140 BASE 144 EXT	
1200843	308701	Steel	205.59 x 145.47 x 1.65	8.094 x 5.727 x 0.065	64 EXT	
1221880	310726A250	Friction	127.25 x 82.19 x 2.54	5.01 x 3.236 x 0.1	40 INT	GRY
1221881	310727-225	Steel	143.46 x 89.51 x 2.24	5.648 x 3.524 x 0.088	26 EXT	
1639366	329701-250	Steel	740.26 x 539.75 x 2.41	29.144 x 21.25 x 0.095	140 BASE 144 EXT	
1669366	329701-250	Steel	740.26 x 539.75 x 2.41	29.144 x 21.25 x 0.095	140 BASE 144 EXT	
2172895	303700-490	Friction	223.52 x 71.2 x 4.9	8.8 x 2.803 x 0.193	36 INT	GRY



# ALTO HEAVY DUTY CATALOG

## CATERPILLAR

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
2234311	166707-200	Steel	179.83 x 148.56 x 2.01	7.08 x 5.849 x 0.079	32 EXT	
2744553	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
3167320	166707-200	Steel	179.83 x 148.56 x 2.01	7.08 x 5.849 x 0.079	32 EXT	
3552617	308746-500	Friction	281.64 x 220.09 x 5.08	11.088 x 8.665 x 0.2	61 INT	BRN
097-3826	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	
097-3826	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	
122-1880	310726A250	Friction	127.25 x 82.19 x 2.54	5.01 x 3.236 x 0.1	40 INT	GRY
122-1880	310726A250	Friction	127.25 x 82.19 x 2.54	5.01 x 3.236 x 0.1	40 INT	GRY
230-4017	317704-490	Friction - Brake	204.52 x 53.52 x 4.9	8.052 x 2.107 x 0.193	22 INT	GRY
230-4017	317704-490	Friction - Brake	204.52 x 53.52 x 4.9	8.052 x 2.107 x 0.193	22 INT	GRY
2H-6936	308709-230	Friction	288.21 x 194.56 x 2.29	11.347 x 7.66 x 0.09	8 INT	
2H-6936	308709-230	Friction	288.21 x 194.56 x 2.29	11.347 x 7.66 x 0.09	8 INT	
2L1753	332706	Friction	236.04 x 137.16 x 3.1	9.293 x 5.4 x 0.122	12 EXT	
2L7568	332706	Friction	236.04 x 137.16 x 3.1	9.293 x 5.4 x 0.122	12 EXT	
2N2428	332702	Friction	112.14 x 71.3 x 2.16	4.415 x 2.807 x 0.085	68 EXT	
2P-3719	308714-290	Friction	216 x 168.61 x 2.95	8.504 x 6.638 x 0.116	54 INT	GRY
2P3719	308714-290	Friction	216 x 168.61 x 2.95	8.504 x 6.638 x 0.116	54 INT	GRY
3L8440	332706	Friction	236.04 x 137.16 x 3.1	9.293 x 5.4 x 0.122	12 EXT	
3L-8440	332706	Friction	236.04 x 137.16 x 3.1	9.293 x 5.4 x 0.122	12 EXT	
3P0805	308714-290	Friction	216 x 168.61 x 2.95	8.504 x 6.638 x 0.116	54 INT	GRY
3P-0805	308714-290	Friction	216 x 168.61 x 2.95	8.504 x 6.638 x 0.116	54 INT	GRY
3P5955	308702-500	Friction	310.9 x 252.22 x 5	12.24 x 9.93 x 0.197	101 INT	
3P-5955	308702-500	Friction	310.9 x 252.22 x 5	12.24 x 9.93 x 0.197	101 INT	
3T2567	308703	Steel	205.49 x 145.47 x 3.53	8.09 x 5.727 x 0.139	43 EXT	
3T2567	308703	Steel	205.49 x 145.47 x 3.53	8.09 x 5.727 x 0.139	43 EXT	
3T-2567	308703	Steel	205.49 x 145.47 x 3.53	8.09 x 5.727 x 0.139	43 EXT	
3T3400	308700	Friction	197.03 x 138.3 x 2.79	7.757 x 5.445 x 0.11	44 INT	GRY
3T3400	308700	Friction	197.03 x 138.3 x 2.79	7.757 x 5.445 x 0.11	44 INT	GRY
3T-3400	308700	Friction	197.03 x 138.3 x 2.79	7.757 x 5.445 x 0.11	44 INT	GRY
3T4026	308746-500	Friction	281.64 x 220.09 x 5.08	11.088 x 8.665 x 0.2	61 INT	BRN
3T9293	332702	Friction	112.14 x 71.3 x 2.16	4.415 x 2.807 x 0.085	68 EXT	
3T9293	332702	Friction	112.14 x 71.3 x 2.16	4.415 x 2.807 x 0.085	68 EXT	
3T-9293	332702	Friction	112.14 x 71.3 x 2.16	4.415 x 2.807 x 0.085	68 EXT	
3T9961	308746-500	Friction	281.64 x 220.09 x 5.08	11.088 x 8.665 x 0.2	61 INT	BRN
4L9785	332704	Friction	164.24 x 103.81 x 2.87	6.466 x 4.087 x 0.113	76 EXT	
5D8526	308723	Steel	113.67 x 86.06 x 0.81	4.475 x 3.388 x 0.032	44 EXT	
5D-8526	308723	Steel	113.67 x 86.06 x 0.81	4.475 x 3.388 x 0.032	44 EXT	
5K8617	308728	Steel	305.31 x 212.8 x 3.53	12.02 x 8.378 x 0.139	95 EXT	TAN
5K-8617	308728	Steel	305.31 x 212.8 x 3.53	12.02 x 8.378 x 0.139	95 EXT	TAN
5N6137	332709	Steel	203.07 x 122.94 x 4.72	7.995 x 4.84 x 0.186	40 INT	
5N6137	332709	Steel	203.07 x 122.94 x 4.72	7.995 x 4.84 x 0.186	40 INT	
5N-6137	332709	Steel	203.07 x 122.94 x 4.72	7.995 x 4.84 x 0.186	40 INT	
6I8028	308746-500	Friction	281.64 x 220.09 x 5.08	11.088 x 8.665 x 0.2	61 INT	BRN
6L9719	332703	Steel	101.6 x 64.69 x 1.6	4.000 x 2.547 x 0.063	42 INT	
6L9719	332703	Steel	101.6 x 64.69 x 1.6	4.000 x 2.547 x 0.063	42 INT	
6L-9719	332703	Steel	101.6 x 64.69 x 1.6	4.000 x 2.547 x 0.063	42 INT	
6L9720	332702	Friction	112.14 x 71.3 x 2.16	4.415 x 2.807 x 0.085	68 EXT	
6T5099	023712A170	Friction	148.59 x 107.72 x 1.7	5.85 x 4.241 x 0.067	52 INT	TAN
6T5099	023722-180	Friction	148.59 x 107.7 x 1.8	5.85 x 4.24 x 0.071	52 INT	GRY
6T5099	023712-180	Friction	148.59 x 107.72 x 1.78	5.85 x 4.241 x 0.07	52 INT	TAN

# ALTO HEAVY DUTY CATALOG

## CATERPILLAR

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
6T-5099	023712-180	Friction	148.59 x 107.72 x 1.78	5.85 x 4.241 x 0.07	52 INT	TAN
6T6277	053701	Steel	107.82 x 76.17 x 1.8	4.245 x 2.999 x 0.071	24 EXT	
6T-6277	053701	Steel	107.82 x 76.17 x 1.8	4.245 x 2.999 x 0.071	24 EXT	
6T6283	053700	Friction	99.85 x 68.17 x 1.55	3.931 x 2.684 x 0.061	34 INT	GRY
6T-6283	053700	Friction	99.85 x 68.17 x 1.55	3.931 x 2.684 x 0.061	34 INT	GRY
6T6432	053702	Friction	142.88 x 110.08 x 1.55	5.625 x 4.334 x 0.061	24 INT	GRY
6T6432	053702	Friction	142.88 x 110.08 x 1.55	5.625 x 4.334 x 0.061	24 INT	GRY
6T-6432	053702	Friction	142.88 x 110.08 x 1.55	5.625 x 4.334 x 0.061	24 INT	GRY
6T6481	053703	Steel	156.03 x 119.13 x 1.8	6.143 x 4.69 x 0.071	12 EXT	
6T6481	053703	Steel	156.03 x 119.13 x 1.8	6.143 x 4.69 x 0.071	12 EXT	
6T-6481	053703	Steel	156.03 x 119.13 x 1.8	6.143 x 4.69 x 0.071	12 EXT	
6T7013	329700-520	Friction	714.93 x 511.23 x 5.16	28.147 x 20.127 x 0.203	99 INT	GRY
6T7013	329700B520	Friction - Brake	715.29 x 510.95 x 5.08	28.161 x 20.116 x 0.2	102 INT	GRY
6T7467	023712A170	Friction	148.59 x 107.72 x 1.7	5.85 x 4.241 x 0.067	52 INT	TAN
6T7467	023722-180	Friction	148.59 x 107.7 x 1.8	5.85 x 4.24 x 0.071	52 INT	GRY
6T8533	329706	Friction	137.29 x 91.24 x 2.01	5.405 x 3.592 x 0.079	27 EXT	
6T8686	308714-290	Friction	216 x 168.61 x 2.95	8.504 x 6.638 x 0.116	54 INT	GRY
6T-8686	308714-290	Friction	216 x 168.61 x 2.95	8.504 x 6.638 x 0.116	54 INT	GRY
6T9194	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
6T9194	023703	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
6T9456	023719-310	Steel	154.05 x 114.05 x 3.1	6.065 x 4.49 x 0.122	60 EXT	
6T9456	023719-310	Steel	154.05 x 114.05 x 3.1	6.065 x 4.49 x 0.122	60 EXT	
6T-9456	023719-310	Steel	154.05 x 114.05 x 3.1	6.065 x 4.49 x 0.122	60 EXT	
6T9462	023722-180	Friction	148.59 x 107.7 x 1.8	5.85 x 4.24 x 0.071	52 INT	GRY
6T-9462	023722-180	Friction	148.59 x 107.7 x 1.8	5.85 x 4.24 x 0.071	52 INT	GRY
6Y5631	023701-300	Steel	138.99 x 99.01 x 3	5.472 x 3.898 x 0.118	54 EXT	
6Y5911	308716-550	Friction	345.01 x 271.32 x 5.64	13.583 x 10.682 x 0.222	75 INT	GRY
6Y-5911	308716-550	Friction	345.01 x 271.32 x 5.64	13.583 x 10.682 x 0.222	75 INT	GRY
6Y7857	049720-200	Friction	133.35 x 92.79 x 2.08	5.25 x 3.653 x 0.082	45 INT	GRY
6Y7914	308728	Steel	305.31 x 212.8 x 3.53	12.02 x 8.378 x 0.139	95 EXT	TAN
6Y-7914	308728	Steel	305.31 x 212.8 x 3.53	12.02 x 8.378 x 0.139	95 EXT	TAN
6Y7915	308710-280	Friction	254.97 x 168.58 x 2.82	10.038 x 6.637 x 0.111	54 INT	GRY
6Y-7915	308710-280	Friction	254.97 x 168.58 x 2.82	10.038 x 6.637 x 0.111	54 INT	GRY
6Y7916	308712-350	Friction	305.64 x 198.65 x 3.66	12.033 x 7.821 x 0.144	64 INT	GRY
6Y-7916	308712-350	Friction	305.64 x 198.65 x 3.66	12.033 x 7.821 x 0.144	64 INT	GRY
6Y7929	049720-200	Friction	133.35 x 92.79 x 2.08	5.25 x 3.653 x 0.082	45 INT	GRY
6Y7929	049700-216	Friction	133.35 x 92.79 x 2.16	5.25 x 3.653 x 0.085	45 INT	GRY
6Y-7929	049700-216	Friction	133.35 x 92.79 x 2.16	5.25 x 3.653 x 0.085	45 INT	GRY
6Y7933	023712A170	Friction	148.59 x 107.72 x 1.7	5.85 x 4.241 x 0.067	52 INT	TAN
6Y7933	023722-180	Friction	148.59 x 107.7 x 1.8	5.85 x 4.24 x 0.071	52 INT	GRY
6Y7933	023712-180	Friction	148.59 x 107.72 x 1.78	5.85 x 4.241 x 0.07	52 INT	TAN
6Y-7933	023712-180	Friction	148.59 x 107.72 x 1.78	5.85 x 4.241 x 0.07	52 INT	TAN
6Y7935	308714-290	Friction	216 x 168.61 x 2.95	8.504 x 6.638 x 0.116	54 INT	GRY
6Y-7935	308714-290	Friction	216 x 168.61 x 2.95	8.504 x 6.638 x 0.116	54 INT	GRY
6Y7950	308708-460	Friction	215.87 x 146.46 x 4.57	8.499 x 5.766 x 0.18	54 INT	TAN
6Y7950	308708-460	Friction	215.87 x 146.46 x 4.57	8.499 x 5.766 x 0.18	54 INT	TAN
6Y-7950	308708-460	Friction	215.87 x 146.46 x 4.57	8.499 x 5.766 x 0.18	54 INT	TAN
6Y7957	049720-200	Friction	133.35 x 92.79 x 2.08	5.25 x 3.653 x 0.082	45 INT	GRY
6Y7957	049740-230	Friction	133.35 x 92.79 x 2.31	5.25 x 3.653 x 0.091	45 INT	GRY
6Y7962	308722	Friction	105.84 x 43.43 x 2.54	4.167 x 1.71 x 0.1	18 INT	TAN

# ALTO HEAVY DUTY CATALOG

## CATERPILLAR

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
6Y-7962	308722	Friction	105.84 x 43.43 x 2.54	4.167 x 1.71 x 0.1	18 INT	TAN
6Y7965	308714-290	Friction	216 x 168.61 x 2.95	8.504 x 6.638 x 0.116	54 INT	GRY
6Y-7965	308714-290	Friction	216 x 168.61 x 2.95	8.504 x 6.638 x 0.116	54 INT	GRY
7D3012	329701-250	Steel	740.26 x 539.75 x 2.41	29.144 x 21.25 x 0.095	140 BASE 144 EXT	
7D-3012	329701-250	Steel	740.26 x 539.75 x 2.41	29.144 x 21.25 x 0.095	140 BASE 144 EXT	
7D3013	329702B690	Friction - Cork Brake	740.26 x 539.75 x 6.86	29.144 x 21.25 x 0.27	144 EXT	BRN
7D3013	329702-690	Friction	740.26 x 539.75 x 6.86	29.144 x 21.25 x 0.27	140 EXT	BRN
7D-3013	329702-690	Friction	740.26 x 539.75 x 6.86	29.144 x 21.25 x 0.27	140 EXT	BRN
7D3014	329700-520	Friction - Model 785B & 773D 9 per Unit, 777D 15 per Unit, 777C & 769C 12 per Unit	714.93 x 511.23 x 5.16	28.147 x 20.127 x 0.203	99 INT	GRY
7D-3014	329700-520	Friction - Model 785B & 773D 9 per Unit, 777D 15 per Unit, 777C & 769C 12 per Unit	714.93 x 511.23 x 5.16	28.147 x 20.127 x 0.203	99 INT	GRY
7D7671	329701-250	Steel	740.26 x 539.75 x 2.41	29.144 x 21.25 x 0.095	140 BASE 144 EXT	
7D-7671	329701-250	Steel	740.26 x 539.75 x 2.41	29.144 x 21.25 x 0.095	140 BASE 144 EXT	
7D8434	308717-190	Steel	322.58 x 226.64 x 1.88	12.7 x 8.923 x 0.074	100 EXT	
7D-8434	308717-190	Steel	322.58 x 226.64 x 1.88	12.7 x 8.923 x 0.074	100 EXT	
7G0437	308741-318	Steel	335.53 x 233.25 x 3.18	13.21 x 9.183 x 0.125	6 EXT	
7G-0437	308741-318	Steel	335.53 x 233.25 x 3.18	13.21 x 9.183 x 0.125	6 EXT	
7G1968	023701-300	Steel	138.99 x 99.01 x 3	5.472 x 3.898 x 0.118	54 EXT	
7G1969	023701-300	Steel	138.99 x 99.01 x 3	5.472 x 3.898 x 0.118	54 EXT	
7G5377	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	
7G5377	023719-310	Steel	154.05 x 114.05 x 3.1	6.065 x 4.49 x 0.122	60 EXT	
7G-5377	023719-310	Steel	154.05 x 114.05 x 3.1	6.065 x 4.49 x 0.122	60 EXT	
7G5533	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	
7G5637	049720-200	Friction	133.35 x 92.79 x 2.08	5.25 x 3.653 x 0.082	45 INT	GRY
7G8107	308700A	Friction	196.34 x 137.92 x 2.79	7.73 x 5.43 x 0.11	44 INT	
7G-8107	308700A	Friction	196.34 x 137.92 x 2.79	7.73 x 5.43 x 0.11	44 INT	
7G8542	049720-200	Friction	133.35 x 92.79 x 2.08	5.25 x 3.653 x 0.082	45 INT	GRY
7G-8542	049702	Friction	133.35 x 92.79 x 2.03	5.25 x 3.653 x 0.08	45 INT	GRY
7L7782	332704	Friction	164.24 x 103.81 x 2.87	6.466 x 4.087 x 0.113	76 EXT	
7L-7782	332704	Friction	164.24 x 103.81 x 2.87	6.466 x 4.087 x 0.113	76 EXT	
7T2629	329700-520	Friction	714.93 x 511.23 x 5.16	28.147 x 20.127 x 0.203	99 INT	GRY
7T3126	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
7T5368	329707-200	Steel	131.19 x 85.24 x 2.01	5.165 x 3.356 x 0.079	29 INT	
7T6218	023701-300	Steel	138.99 x 99.01 x 3	5.472 x 3.898 x 0.118	54 EXT	
8C7448	023712-295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	TAN
8D-8794	308715-150	Steel	277.01 x 187.76 x 1.55	10.906 x 7.392 x 0.061	86 EXT	
8E6937	023712BR295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	
8E-8832	023722-180	Friction	148.59 x 107.7 x 1.8	5.85 x 4.24 x 0.071	52 INT	GRY
8I4483	310728-215	Friction	117.58 x 68.28 x 2.16	4.629 x 2.688 x 0.085	33 INT	TAN
8I4484	310729-150	Steel	129.16 x 76 x 1.52	5.085 x 2.992 x 0.06	4 EXT	
8P-8682	308714-290	Friction	216 x 168.61 x 2.95	8.504 x 6.638 x 0.116	54 INT	GRY
8P9294	308746-500	Friction	281.64 x 220.09 x 5.08	11.088 x 8.665 x 0.2	61 INT	BRN

# ALTO HEAVY DUTY CATALOG

## CATERPILLAR

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
9G0854	049740-230	Friction	133.35 x 92.79 x 2.31	5.25 x 3.653 x 0.091	45 INT	GRY
9G1303	023712A170	Friction	148.59 x 107.72 x 1.7	5.85 x 4.241 x 0.067	52 INT	TAN
9G1303	023722-180	Friction	148.59 x 107.7 x 1.8	5.85 x 4.24 x 0.071	52 INT	GRY
9G8542	049720-200	Friction	133.35 x 92.79 x 2.08	5.25 x 3.653 x 0.082	45 INT	GRY
9G-8542	049702	Friction	133.35 x 92.79 x 2.03	5.25 x 3.653 x 0.08	45 INT	GRY
9R-9401	308729-450	Steel - 1 rounded notch	238.05 x 126.67 x 4.6	9.372 x 4.987 x 0.181		
9W1735	049720-200	Friction	133.35 x 92.79 x 2.08	5.25 x 3.653 x 0.082	45 INT	GRY
9W-1735	049700-216	Friction	133.35 x 92.79 x 2.16	5.25 x 3.653 x 0.085	45 INT	GRY
9W-1735	049720-200	Friction	133.35 x 92.79 x 2.08	5.25 x 3.653 x 0.082	45 INT	GRY
9W2697	308708-460	Friction	215.87 x 146.46 x 4.57	8.499 x 5.766 x 0.18	54 INT	TAN
9W4954	023712-295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	TAN
9W-4954	023712-295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	TAN
9W-7017	329700-520	Friction	714.93 x 511.23 x 5.16	28.147 x 20.127 x 0.203	99 INT	GRY
9W8901	023712A170	Friction	148.59 x 107.72 x 1.7	5.85 x 4.241 x 0.067	52 INT	TAN
9W8901	023722-180	Friction	148.59 x 107.7 x 1.8	5.85 x 4.24 x 0.071	52 INT	GRY
9W-8901	023712A170	Friction	148.59 x 107.72 x 1.7	5.85 x 4.241 x 0.067	52 INT	TAN
9X0511	023712A170	Friction	148.59 x 107.72 x 1.7	5.85 x 4.241 x 0.067	52 INT	TAN
9X0511	023722-180	Friction	148.59 x 107.7 x 1.8	5.85 x 4.24 x 0.071	52 INT	GRY
9Y-7929	049720-200	Friction	133.35 x 92.79 x 2.08	5.25 x 3.653 x 0.082	45 INT	GRY
NA	308742-400	Friction	189.94 x 128.57 x 4.01	7.478 x 5.062 x 0.158	52 INT	BRN
NA	308740-290	Friction	178.05 x 116.33 x 2.9	7.01 x 4.58 x 0.114	74 INT	GRY
NA	308744-432	Friction	225.07 x 165.25 x 4.32	8.861 x 6.506 x 0.17	32 EXT	BRN
NA	308746-500	Friction	281.64 x 220.09 x 5.08	11.088 x 8.665 x 0.2	61 INT	BRN

## CHELSEA

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
379488	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
379489	049700	Friction	133.35 x 92.79 x 1.57	5.25 x 3.653 x 0.062	45 INT	GRY
62794675	310726-270	Friction	127.25 x 82.19 x 2.69	5.01 x 3.236 x 0.106	40 INT	TAN

## CLAAS

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline
6000104638	306705-250	Steel	150.95 x 98.76 x 2.49	5.943 x 3.888 x 0.098	6 EXT

## CLARK

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
208772	310716	Friction	165.07 x 74.3 x 3.99	6.499 x 2.925 x 0.157	19 INT	
209087	310703	Steel	160.63 x 103.3 x 1.5	6.324 x 4.067 x 0.059	42 EXT	
209928	310716	Friction	165.07 x 74.3 x 3.99	6.499 x 2.925 x 0.157	19 INT	
215178	023712BR260	Friction	148.59 x 107.72 x 2.62	5.85 x 4.241 x 0.103	52 INT	BRZ
215296	318701	Steel	191.49 x 117.5 x 2.11	7.539 x 4.626 x 0.083	28 EXT	
216050	310724	Friction	205.16 x 117.27 x 3.96	8.077 x 4.617 x 0.156	34 INT	
216084	023712BR260	Friction	148.59 x 107.72 x 2.62	5.85 x 4.241 x 0.103	52 INT	BRZ
216677	310716	Friction	165.07 x 74.3 x 3.99	6.499 x 2.925 x 0.157	19 INT	
219393	310703	Steel	160.63 x 103.3 x 1.5	6.324 x 4.067 x 0.059	42 EXT	
222171	310724	Friction	205.16 x 117.27 x 3.96	8.077 x 4.617 x 0.156	34 INT	
222605	310703	Steel	160.63 x 103.3 x 1.5	6.324 x 4.067 x 0.059	42 EXT	
224246	310701	Steel	162.03 x 115.93 x 1.7	6.379 x 4.564 x 0.067	4 EXT	
224772	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	

# ALTO HEAVY DUTY CATALOG

## CLARK

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
228114	023712BR260	Friction	148.59 x 107.72 x 2.62	5.85 x 4.241 x 0.103	52 INT	BRZ
230911	023712BR260	Friction	148.59 x 107.72 x 2.62	5.85 x 4.241 x 0.103	52 INT	BRZ
232159	049740-230	Friction	133.35 x 92.79 x 2.31	5.25 x 3.653 x 0.091	45 INT	GRY
232285	310713	Steel	257.05 x 190.83 x 2.59	10.12 x 7.513 x 0.102	14 EXT	
232394	310715	Steel	218.97 x 158.93 x 2.72	8.621 x 6.257 x 0.107	14 EXT	
232394	310715	Steel	218.97 x 158.93 x 2.72	8.621 x 6.257 x 0.107	14 EXT	
232635	310713	Steel	257.05 x 190.83 x 2.59	10.12 x 7.513 x 0.102	14 EXT	
232780	310718	Friction	292.1 x 206.5 x 3.99	11.5 x 8.13 x 0.157	60 INT	
233166	023712-260	Friction	148.59 x 107.72 x 2.59	5.85 x 4.241 x 0.102	52 INT	TAN
233166	023712BR260	Friction	148.59 x 107.72 x 2.62	5.85 x 4.241 x 0.103	52 INT	BRZ
234108	049740-230	Friction	133.35 x 92.79 x 2.31	5.25 x 3.653 x 0.091	45 INT	GRY
234336	049700BR235	Friction	133.35 x 92.79 x 2.36	5.25 x 3.653 x 0.093	45 INT	
234727	023712-260	Friction	148.59 x 107.72 x 2.59	5.85 x 4.241 x 0.102	52 INT	TAN
234727	023712BR260	Friction	148.59 x 107.72 x 2.62	5.85 x 4.241 x 0.103	52 INT	BRZ
235161	023712-260	Friction	148.59 x 107.72 x 2.59	5.85 x 4.241 x 0.102	52 INT	TAN
235161	023712BR260	Friction	148.59 x 107.72 x 2.62	5.85 x 4.241 x 0.103	52 INT	BRZ
236989	023712BR295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	
237016	049700BR235	Friction	133.35 x 92.79 x 2.36	5.25 x 3.653 x 0.093	45 INT	
238260	310719	Steel	257.05 x 190.83 x 2.59	10.12 x 7.513 x 0.102	12 EXT	
238313	023712BR260	Friction	148.59 x 107.72 x 2.62	5.85 x 4.241 x 0.103	52 INT	BRZ
238609	023712-295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	TAN
242530	049700BR235	Friction	133.35 x 92.79 x 2.36	5.25 x 3.653 x 0.093	45 INT	
242717	310723	Steel	228.19 x 159 x 2.64	8.984 x 6.26 x 0.104	35 EXT	
243330	310721-180	Steel	182.88 x 118.21 x 1.75	7.2 x 4.654 x 0.069	71 EXT	
243691	310721-180	Steel	182.88 x 118.21 x 1.75	7.2 x 4.654 x 0.069	71 EXT	
243767	310725	Steel	355.57 x 313.92 x 4.65	13.999 x 12.359 x 0.183		
244134	310728-215	Friction	117.58 x 68.28 x 2.16	4.629 x 2.688 x 0.085	33 INT	TAN
244979	310722	Friction	175.77 x 107.47 x 2.9	6.92 x 4.231 x 0.114	52 INT	BRN
244980	310721-180	Steel	182.88 x 118.21 x 1.75	7.2 x 4.654 x 0.069	71 EXT	
245238	310729-150	Steel	129.16 x 76 x 1.52	5.085 x 2.992 x 0.06	4 EXT	
245239	310728-215	Friction	117.58 x 68.28 x 2.16	4.629 x 2.688 x 0.085	33 INT	TAN
245741	049740-230	Friction	133.35 x 92.79 x 2.31	5.25 x 3.653 x 0.091	45 INT	GRY
246744	310728-215	Friction	117.58 x 68.28 x 2.16	4.629 x 2.688 x 0.085	33 INT	TAN
247273	310721-180	Steel	182.88 x 118.21 x 1.75	7.2 x 4.654 x 0.069	71 EXT	
247274	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	
573178	311711	Steel	209.32 x 114.3 x 2.62	8.241 x 4.5 x 0.103	1 EXT	
878364	023703	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
878373	049700BR	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	BRZ
878374	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
887983	023738BR	Friction	190.6 x 147.17 x 2.92	7.504 x 5.794 x 0.115	59 INT	
887984	023739	Steel	214.83 x 155.58 x 1.75	8.458 x 6.125 x 0.069	3 EXT	
888027	049700BR	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	BRZ
907566	049720-200	Friction	133.35 x 92.79 x 2.08	5.25 x 3.653 x 0.082	45 INT	GRY
907567	023701-300	Steel	138.99 x 99.01 x 3	5.472 x 3.898 x 0.118	54 EXT	
927619	310734-236	Friction	134.11 x 87.88 x 2.36	5.28 x 3.46 x 0.093	36 EXT	GRY
927620	310733-200	Steel	152.53 x 94.95 x 2.01	6.005 x 3.738 x 0.079	6 EXT	
999736	026736	Friction	161.59 x 125.27 x 1.91	6.362 x 4.932 x 0.075	90 INT	GRY
2787359	310727-225	Steel	143.46 x 89.51 x 2.24	5.648 x 3.524 x 0.088	26 EXT	
2794675	310726-270	Friction	127.25 x 82.19 x 2.69	5.01 x 3.236 x 0.106	40 INT	TAN
2810118	023712-295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	TAN

# ALTO HEAVY DUTY CATALOG

## CLARK

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
2810118	023712A295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	GRY
2812288	310701A228	Steel	155.55 x 116 x 2.29	6.124 x 4.567 x 0.09	4 EXT	
3734356	023712BR260	Friction	148.59 x 107.72 x 2.62	5.85 x 4.241 x 0.103	52 INT	BRZ
12353-82111	310763-180	Steel			8 EXT	
1235382111	310763-180	Steel			8 EXT	
291580A1	310731-198	Steel	133.35 x 92.79 x 1.98	5.25 x 3.653 x 0.078	45 INT	
32431-23330-71	310761-201	Steel			6 EXT	
324312333071	310761-201	Steel			6 EXT	

## CROWN

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline
122200023	329707-200	Steel	131.19 x 85.24 x 2.01	5.165 x 3.356 x 0.079	29 INT

## DAEWOO / DOOSAN

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
122200023	329707-200	Steel	131.19 x 85.24 x 2.01	5.165 x 3.356 x 0.079	29 INT	
122200025	329708	Friction	177.32 x 109.22 x 2.01	6.981 x 4.3 x 0.079	35 EXT	
122200026	329706	Friction	137.29 x 91.24 x 2.01	5.405 x 3.592 x 0.079	27 EXT	
222200012	306732-485	Friction	201.17 x 40.39 x 4.88	7.92 x 1.59 x 0.192	16 INT	TAN
222200013	306731-266	Steel	219.71 x 145.8 x 2.67	8.65 x 5.74 x 0.105	6 EXT	
222200029	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
130106-00022	306732-485	Friction	201.17 x 40.39 x 4.88	7.92 x 1.59 x 0.192	16 INT	TAN
13010600022	306732-485	Friction	201.17 x 40.39 x 4.88	7.92 x 1.59 x 0.192	16 INT	TAN
3T2567S	308703	Steel	205.49 x 145.47 x 3.53	8.09 x 5.727 x 0.139	43 EXT	
3T3400S	308700	Friction	197.03 x 138.3 x 2.79	7.757 x 5.445 x 0.11	44 INT	GRY
A273051	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
A373220	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
A453375	313720-160	Friction	109.63 x 68.53 x 1.63	4.316 x 2.698 x 0.064	34 INT	GRY
D180320	023701-300	Steel	138.99 x 99.01 x 3	5.472 x 3.898 x 0.118	54 EXT	
D180339	049720-200	Friction	133.35 x 92.79 x 2.08	5.25 x 3.653 x 0.082	45 INT	GRY

## DAIMLER

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
62901014	023701-300	Steel	138.99 x 99.01 x 3	5.472 x 3.898 x 0.118	54 EXT	
62901015	049720-200	Friction	133.35 x 92.79 x 2.08	5.25 x 3.653 x 0.082	45 INT	GRY
852050121	306744	Friction	266.45 x 186.94 x 2.79	10.49 x 7.36 x 0.11	45 INT	

## DANA SPICER

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
215222	023712BR260	Friction	148.59 x 107.72 x 2.62	5.85 x 4.241 x 0.103	52 INT	BRZ
215255	023712BR260	Friction	148.59 x 107.72 x 2.62	5.85 x 4.241 x 0.103	52 INT	BRZ
217140	310713	Steel	257.05 x 190.83 x 2.59	10.12 x 7.513 x 0.102	14 EXT	
224772	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	
232159	311702	Friction	133.35 x 92.79 x 2.03	5.25 x 3.653 x 0.08	45 INT	
232584	023712BR295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	
234691	310721-180	Steel	182.88 x 118.21 x 1.75	7.2 x 4.654 x 0.069	71 EXT	
238609	023712-295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	TAN
242101	049700BR235	Friction	133.35 x 92.79 x 2.36	5.25 x 3.653 x 0.093	45 INT	

# ALTO HEAVY DUTY CATALOG

## DANA SPICER

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
244133	310729-150	Steel	129.16 x 76 x 1.52	5.085 x 2.992 x 0.06	4 EXT	
245917	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	
248799	023712BR295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	
251704	310722	Friction	175.77 x 107.47 x 2.9	6.92 x 4.231 x 0.114	52 INT	BRN
727429	328705-267	Steel	162.89 x 79.98 x 2.67	6.413 x 3.149 x 0.105	1 EXT	
727443	328704-488	Friction	143.1 x 34.11 x 4.88	5.634 x 1.343 x 0.192	19 INT	GRY
802051	023712-295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	TAN
878366	023761	Steel	138.99 x 99.01 x 8.76	5.472 x 3.898 x 0.345	54 EXT	
878372	023760	Steel	138.99 x 98.27 x 0.81	5.472 x 3.869 x 0.322	54 EXT	
2787368	310727-225	Steel	143.46 x 89.51 x 2.24	5.648 x 3.524 x 0.088	26 EXT	
2821953	310726-270	Friction	127.25 x 82.19 x 2.69	5.01 x 3.236 x 0.106	40 INT	TAN
2822116	310728-215	Friction	117.58 x 68.28 x 2.16	4.629 x 2.688 x 0.085	33 INT	TAN
4209872	310722	Friction	175.77 x 107.47 x 2.9	6.92 x 4.231 x 0.114	52 INT	BRN
8027046	310734-236	Friction	134.11 x 87.88 x 2.36	5.28 x 3.46 x 0.093	36 EXT	GRY
8033096	328750	KIT - FRICTION & STEEL Contains: 4-328700, 4-328701				
798600340	329707-200	Steel	131.19 x 85.24 x 2.01	5.165 x 3.356 x 0.079	29 INT	
798750174	310713	Steel	257.05 x 190.83 x 2.59	10.12 x 7.513 x 0.102	14 EXT	
798600392000	329707-200	Steel	131.19 x 85.24 x 2.01	5.165 x 3.356 x 0.079	29 INT	
798770365000	316709	Steel	146.71 x 97.13 x 1.7	5.776 x 3.824 x 0.067	6 EXT	
CKC64525	310726A250	Friction	127.25 x 82.19 x 2.54	5.01 x 3.236 x 0.1	40 INT	GRY
CKC66118	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
CKC66409	049720-200	Friction	133.35 x 92.79 x 2.08	5.25 x 3.653 x 0.082	45 INT	GRY
CKC66409	049700-216	Friction	133.35 x 92.79 x 2.16	5.25 x 3.653 x 0.085	45 INT	GRY
CKC-66409	049700-216	Friction	133.35 x 92.79 x 2.16	5.25 x 3.653 x 0.085	45 INT	GRY
CKC68632	310726A250	Friction	127.25 x 82.19 x 2.54	5.01 x 3.236 x 0.1	40 INT	GRY
CKC-68632	310726A250	Friction	127.25 x 82.19 x 2.54	5.01 x 3.236 x 0.1	40 INT	GRY
CKC68633	310727-225	Steel	143.46 x 89.51 x 2.24	5.648 x 3.524 x 0.088	26 EXT	
D50083	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
D70672	049700	Friction	133.35 x 92.79 x 1.57	5.25 x 3.653 x 0.062	45 INT	GRY
P18609	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	
P20602	023712-180	Friction	148.59 x 107.72 x 1.78	5.85 x 4.241 x 0.07	52 INT	TAN
R30WA109	328701	Steel	199.95 x 101.83 x 2.21	7.872 x 4.009 x 0.087	61 EXT	
R30WA120	328700	Friction	177.62 x 69.42 x 3.81	6.993 x 2.733 x 0.15	23 INT	BRN

## DEUTZ

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline
4416413	329707-200	Steel	131.19 x 85.24 x 2.01	5.165 x 3.356 x 0.079	29 INT

## DOOSAN / DAEWOO

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
DO222200012	306732-485	Friction - Brake	201.17 x 40.39 x 4.88	7.92 x 1.59 x 0.192	16 INT	TAN
DO222200013	306731-266	Steel - Brake	219.71 x 145.8 x 2.67	8.65 x 5.74 x 0.105	6 EXT	

## DRESSTA

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline
376041004	306721A308	Steel	243.92 x 172.39 x 3.07	9.603 x 6.787 x 0.121	8 EXT
376-04-1004	306721A308	Steel	243.92 x 172.39 x 3.07	9.603 x 6.787 x 0.121	8 EXT
386070123	306744	Friction	266.45 x 186.94 x 2.79	10.49 x 7.36 x 0.11	45 INT

# ALTO HEAVY DUTY CATALOG

## DRESSTA

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline
386-07-0123	306744	Friction	266.45 x 186.94 x 2.79	10.49 x 7.36 x 0.11	45 INT
852011352	306705-250	Steel	150.95 x 98.76 x 2.49	5.943 x 3.888 x 0.098	6 EXT
852-011-352	306705-250	Steel	150.95 x 98.76 x 2.49	5.943 x 3.888 x 0.098	6 EXT
852050121	306744	Friction	266.45 x 186.94 x 2.79	10.49 x 7.36 x 0.11	45 INT
852-05-0121	306744	Friction	266.45 x 186.94 x 2.79	10.49 x 7.36 x 0.11	45 INT

## DYNAPAC

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
222200029	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
4700939027	306732-485	Friction	201.17 x 40.39 x 4.88	7.92 x 1.59 x 0.192	16 INT	TAN

## EATON FULLER / CEEMAT

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
22450	353706-340	Friction	386.18 x 311.53 x 3.38	15.204 x 12.265 x 0.133	99 INT	TAN
22466	353705-310	Steel	278.1 x 214.07 x 3.15	10.949 x 8.428 x 0.124	66 EXT	
224546	353704-410	Friction	260.55 x 206.5 x 4.14	10.258 x 8.13 x 0.163	66 INT	TAN
4303471	353707-310	Steel	401.09 x 322.3 x 3.12	15.791 x 12.689 x 0.123	32 EXT	FRIC NOM.

## EUCLID

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
1528774	056713	Steel	244.91 x 182.88 x 2.62	9.642 x 7.2 x 0.103	14 EXT	
1528786	056715	Steel	334.42 x 272.95 x 2.62	13.166 x 10.746 x 0.103	16 EXT	
1528787	056715A	Steel	334.42 x 272.95 x 3.05	13.166 x 10.746 x 0.12	16 EXT	
4050720	056710B380	Friction	319.07 x 259.46 x 3.81	12.562 x 10.215 x 0.15	62 INT	BLK
4050728	056712	Friction	371.7 x 302.95 x 5.21	14.634 x 11.927 x 0.205	73 INT	BLK
4050741	352704A388	Friction	253.64 x 187.81 x 3.91	9.986 x 7.394 x 0.154	60 INT	BLK
4058551	352702-520	Friction	371.68 x 302.74 x 5.23	14.633 x 11.919 x 0.206	72 INT	BLK
4058554	056712	Friction	371.7 x 302.95 x 5.21	14.634 x 11.927 x 0.205	73 INT	BLK
4095205	310715	Steel	218.97 x 158.93 x 2.72	8.621 x 6.257 x 0.107	14 EXT	
4095310	310713	Steel	257.05 x 190.83 x 2.59	10.12 x 7.513 x 0.102	14 EXT	
E4059006	310711	Steel	671.09 x 468.58 x 3.12	26.421 x 18.448 x 0.123	20 EXT	
E4059008	310712	Friction	647.37 x 432.16 x 5.23	25.487 x 17.014 x 0.206	52 INT	BLK
E4095205	310715	Steel	218.97 x 158.93 x 2.72	8.621 x 6.257 x 0.107	14 EXT	

## EXEDY

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline
TBA	354701-270	Steel	263.5 x 200.13 x 2.69	10.374 x 7.879 x 0.106	6 EXT

## FAI

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
CA0138574	049700	Friction	133.35 x 92.79 x 1.57	5.25 x 3.653 x 0.062	45 INT	GRY
CK0245238	310729-150	Steel	129.16 x 76 x 1.52	5.085 x 2.992 x 0.06	4 EXT	
CK0245239	310728-215	Friction	117.58 x 68.28 x 2.16	4.629 x 2.688 x 0.085	33 INT	TAN
CK0245239	310728-215	Friction	117.58 x 68.28 x 2.16	4.629 x 2.688 x 0.085	33 INT	TAN



# ALTO HEAVY DUTY CATALOG

## FAI KOMATSU

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
CA0133924	306705-250	Steel	150.95 x 98.76 x 2.49	5.943 x 3.888 x 0.098	6 EXT	
CA0136112	166707-200	Steel	179.83 x 148.56 x 2.01	7.08 x 5.849 x 0.079	32 EXT	
CA0136155	303701-500	Steel	229.84 x 152.88 x 5	9.049 x 6.019 x 0.197	64 EXT	
CA0138378	308700	Friction	197.03 x 138.3 x 2.79	7.757 x 5.445 x 0.11	44 INT	GRY
CA0138574	049700	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	GRY
CA0143874	166707-200	Steel	179.83 x 148.56 x 2.01	7.08 x 5.849 x 0.079	32 EXT	
CK0245238	310729-150	Steel	129.16 x 76 x 1.52	5.085 x 2.992 x 0.06	4 EXT	
HU1127612	306732-485	Friction	201.17 x 40.39 x 4.88	7.92 x 1.59 x 0.192	16 INT	TAN
HU7347402	306731-266	Steel	219.71 x 145.8 x 2.67	8.65 x 5.74 x 0.105	6 EXT	
HU7347612	306732-485	Friction	201.17 x 40.39 x 4.88	7.92 x 1.59 x 0.192	16 INT	TAN

## FENDT

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline
824.100.360.180	329707-200	Steel	131.19 x 85.24 x 2.01	5.165 x 3.356 x 0.079	29 INT
824100360180	329707-200	Steel	131.19 x 85.24 x 2.01	5.165 x 3.356 x 0.079	29 INT

## FERMEC

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
6190106M1	310726A250	Friction	127.25 x 82.19 x 2.54	5.01 x 3.236 x 0.1	40 INT	GRY

## FERMEC TEREX

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
6190039M1	049720-200	Friction	133.35 x 92.79 x 2.08	5.25 x 3.653 x 0.082	45 INT	GRY
6190042M1	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
6193395M1	303700-490	Friction	223.52 x 71.2 x 4.9	8.8 x 2.803 x 0.193	36 INT	GRY
6193397M1	303701-500	Steel	229.84 x 152.88 x 5	9.049 x 6.019 x 0.197	64 EXT	
6194352M1	306705-250	Steel	150.95 x 98.76 x 2.49	5.943 x 3.888 x 0.098	6 EXT	

## FIAT - ALLIS

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
508053	330717-150	Steel	151.94 x 81.69 x 1.52	5.982 x 3.216 x 0.06	40 INT	
9433405	332702	Friction	112.14 x 71.3 x 2.16	4.415 x 2.807 x 0.085	68 EXT	
9435217	332703	Steel	101.6 x 64.69 x 1.6	4.000 x 2.547 x 0.063	42 INT	
9502757	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	
508052	332704	Friction	164.24 x 103.81 x 2.87	6.466 x 4.087 x 0.113	76 EXT	
005 08052	332704	Friction	164.24 x 103.81 x 2.87	6.466 x 4.087 x 0.113	76 EXT	
508053	330717-150	Steel	151.94 x 81.69 x 1.52	5.982 x 3.216 x 0.06	40 INT	
005 08053	330717-150	Steel	151.94 x 81.69 x 1.52	5.982 x 3.216 x 0.06	40 INT	
2039353	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	
020 39353	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	
4907850	308701	Steel	205.59 x 145.47 x 1.65	8.094 x 5.727 x 0.065	64 EXT	
049 07850	308701	Steel	205.59 x 145.47 x 1.65	8.094 x 5.727 x 0.065	64 EXT	
4913971	023701-300	Steel	138.99 x 99.01 x 3	5.472 x 3.898 x 0.118	54 EXT	
049 13971	023701-300	Steel	138.99 x 99.01 x 3	5.472 x 3.898 x 0.118	54 EXT	
4913985	049720-200	Friction	133.35 x 92.79 x 2.08	5.25 x 3.653 x 0.082	45 INT	GRY
049 13985	049720-200	Friction	133.35 x 92.79 x 2.08	5.25 x 3.653 x 0.082	45 INT	GRY
4940457	330700B300	Friction	124.64 x 68.83 x 3.05	4.907 x 2.71 x 0.12	41 INT	GRY
049 40457	330700B300	Friction	124.64 x 68.83 x 3.05	4.907 x 2.71 x 0.12	41 INT	GRY

# ALTO HEAVY DUTY CATALOG

## FIAT - ALLIS

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
4940458	079731-310	Steel	137.62 x 80.34 x 3.18	5.418 x 3.163 x 0.125	4 EXT	
049 40458	079731-310	Steel	137.62 x 80.34 x 3.18	5.418 x 3.163 x 0.125	4 EXT	
4994132	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	
049 94132	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	
6900790	023712BR260	Friction	148.59 x 107.72 x 2.62	5.85 x 4.241 x 0.103	52 INT	BRZ
069 00790	023712BR260	Friction	148.59 x 107.72 x 2.62	5.85 x 4.241 x 0.103	52 INT	BRZ
6900790	049700BR235	Friction	133.35 x 92.79 x 2.36	5.25 x 3.653 x 0.093	45 INT	
069 00790	049700BR235	Friction	133.35 x 92.79 x 2.36	5.25 x 3.653 x 0.093	45 INT	
9435217	332703	Steel	101.6 x 64.69 x 1.6	4.000 x 2.547 x 0.063	42 INT	
094 35217	332703	Steel	101.6 x 64.69 x 1.6	4.000 x 2.547 x 0.063	42 INT	
9449009	023701-250	Steel	138.99 x 99.01 x 2.49	5.472 x 3.898 x 0.098	54 EXT	
094 49009	023701-250	Steel	138.99 x 99.01 x 2.49	5.472 x 3.898 x 0.098	54 EXT	
9502757	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	
095 02757	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	
9968289	310727-225	Steel	143.46 x 89.51 x 2.24	5.648 x 3.524 x 0.088	26 EXT	
099 68289	310727-225	Steel	143.46 x 89.51 x 2.24	5.648 x 3.524 x 0.088	26 EXT	
9968290	310726A250	Friction	127.25 x 82.19 x 2.54	5.01 x 3.236 x 0.1	40 INT	GRY
099 68290	310726A250	Friction	127.25 x 82.19 x 2.54	5.01 x 3.236 x 0.1	40 INT	GRY
4913971	023701-300	Steel	138.99 x 99.01 x 3	5.472 x 3.898 x 0.118	54 EXT	
491 3971	023701-300	Steel	138.99 x 99.01 x 3	5.472 x 3.898 x 0.118	54 EXT	
70623463	307704-500	Friction	342.77 x 50.8 x 5.21	13.495 x 2 x 0.205	53 INT	GRS
706 23463	307704-500	Friction	342.77 x 50.8 x 5.21	13.495 x 2 x 0.205	53 INT	GRS
70623464	307705-630	Steel	355.04 x 238.38 x 6.35	13.978 x 9.385 x 0.25	83 EXT	
706 23464	307705-630	Steel	355.04 x 238.38 x 6.35	13.978 x 9.385 x 0.25	83 EXT	
70624244	307703-210	Steel	180.21 x 129.57 x 2.11	7.095 x 5.101 x 0.083	8 EXT	
706 24244	307703-210	Steel	180.21 x 129.57 x 2.11	7.095 x 5.101 x 0.083	8 EXT	
70629863	317712-250	Friction	198.15 x 140.54 x 2.49	7.801 x 5.533 x 0.098	34 INT	
706 29863	317712-250	Friction	198.15 x 140.54 x 2.49	7.801 x 5.533 x 0.098	34 INT	
70629863	317712-250	Friction	198.15 x 140.54 x 2.49	7.801 x 5.533 x 0.098	34 INT	
706 29863	317712-250	Friction	198.15 x 140.54 x 2.49	7.801 x 5.533 x 0.098	34 INT	
70642146	332711-228	Steel	203.23 x 138.4 x 2.29	8.001 x 5.449 x 0.09	56 INT	
706 42146	332711-228	Steel	203.23 x 138.4 x 2.29	8.001 x 5.449 x 0.09	56 INT	
70642453	307705-630	Steel	355.04 x 238.38 x 6.35	13.978 x 9.385 x 0.25	83 EXT	
706 42453	307705-630	Steel	355.04 x 238.38 x 6.35	13.978 x 9.385 x 0.25	83 EXT	
70645451	307704-500	Friction	342.77 x 50.8 x 5.21	13.495 x 2 x 0.205	53 INT	GRS
706 45451	307704-500	Friction	342.77 x 50.8 x 5.21	13.495 x 2 x 0.205	53 INT	GRS
70657968	332711-228	Steel	203.23 x 138.4 x 2.29	8.001 x 5.449 x 0.09	56 INT	
706 57968	332711-228	Steel	203.23 x 138.4 x 2.29	8.001 x 5.449 x 0.09	56 INT	
70674036	306709-155	Steel	142.62 x 99.14 x 1.6	5.615 x 3.903 x 0.063	8 EXT	
706 74036	306709-155	Steel	142.62 x 99.14 x 1.6	5.615 x 3.903 x 0.063	8 EXT	
70675510	317712-250	Friction	198.15 x 140.54 x 2.49	7.801 x 5.533 x 0.098	34 INT	
706 75510	317712-250	Friction	198.15 x 140.54 x 2.49	7.801 x 5.533 x 0.098	34 INT	
70675510	317712-250	Friction	198.15 x 140.54 x 2.49	7.801 x 5.533 x 0.098	34 INT	
706 75510	317712-250	Friction	198.15 x 140.54 x 2.49	7.801 x 5.533 x 0.098	34 INT	
70693536	307703-210	Steel	180.21 x 129.57 x 2.11	7.095 x 5.101 x 0.083	8 EXT	
706 93536	307703-210	Steel	180.21 x 129.57 x 2.11	7.095 x 5.101 x 0.083	8 EXT	
70734526	023712BR260	Friction	148.59 x 107.72 x 2.62	5.85 x 4.241 x 0.103	52 INT	BRZ
707 34526	023712BR260	Friction	148.59 x 107.72 x 2.62	5.85 x 4.241 x 0.103	52 INT	BRZ
71004870	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	
710 04870	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	

# ALTO HEAVY DUTY CATALOG

## FIAT - ALLIS

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
71004876	023712BR260	Friction	148.59 x 107.72 x 2.62	5.85 x 4.241 x 0.103	52 INT	BRZ
710 04876	023712BR260	Friction	148.59 x 107.72 x 2.62	5.85 x 4.241 x 0.103	52 INT	BRZ
71005843	023712BR260	Friction	148.59 x 107.72 x 2.62	5.85 x 4.241 x 0.103	52 INT	BRZ
710 05843	023712BR260	Friction	148.59 x 107.72 x 2.62	5.85 x 4.241 x 0.103	52 INT	BRZ
71010964	317702-360	Friction	250.57 x 124.08 x 3.63	9.865 x 4.885 x 0.143	25 INT	
710 10964	317702-360	Friction	250.57 x 124.08 x 3.63	9.865 x 4.885 x 0.143	25 INT	
73021191	352701	Steel	274.32 x 202.49 x 2.72	10.8 x 7.972 x 0.107	6 EXT	
730 21191	352701	Steel	274.32 x 202.49 x 2.72	10.8 x 7.972 x 0.107	6 EXT	
73021191	352701	Steel	274.32 x 202.49 x 2.72	10.8 x 7.972 x 0.107	6 EXT	
730 21191	352701	Steel	274.32 x 202.49 x 2.72	10.8 x 7.972 x 0.107	6 EXT	
73021215	352704-388	Friction	253.59 x 187.81 x 3.91	9.984 x 7.394 x 0.154	60 INT	
730 21215	352704-388	Friction	253.59 x 187.81 x 3.91	9.984 x 7.394 x 0.154	60 INT	
73021215	352704-388	Friction	253.59 x 187.81 x 3.91	9.984 x 7.394 x 0.154	60 INT	
730 21215	352704-388	Friction	253.59 x 187.81 x 3.91	9.984 x 7.394 x 0.154	60 INT	
73044593	352704-388	Friction	253.59 x 187.81 x 3.91	9.984 x 7.394 x 0.154	60 INT	
730 44593	352704-388	Friction	253.59 x 187.81 x 3.91	9.984 x 7.394 x 0.154	60 INT	
73044593	352704-388	Friction	253.59 x 187.81 x 3.91	9.984 x 7.394 x 0.154	60 INT	
730 44593	352704-388	Friction	253.59 x 187.81 x 3.91	9.984 x 7.394 x 0.154	60 INT	
73046030	352712BR390	Friction	254 x 74.5 x 3.91	10 x 2.933 x 0.154	6 INT	
730 46030	352712BR390	Friction	254 x 74.5 x 3.91	10 x 2.933 x 0.154	6 INT	
73058782	352701	Steel	274.32 x 202.49 x 2.72	10.8 x 7.972 x 0.107	6 EXT	
730 58782	352701	Steel	274.32 x 202.49 x 2.72	10.8 x 7.972 x 0.107	6 EXT	
73058782	352701	Steel	274.32 x 202.49 x 2.72	10.8 x 7.972 x 0.107	6 EXT	
730 58782	352701	Steel	274.32 x 202.49 x 2.72	10.8 x 7.972 x 0.107	6 EXT	
73058783	352704A388	Friction	253.64 x 187.81 x 3.91	9.986 x 7.394 x 0.154	60 INT	BLK
730 58783	352704A388	Friction	253.64 x 187.81 x 3.91	9.986 x 7.394 x 0.154	60 INT	BLK
73062078	317721-300	Steel	329.13 x 256.36 x 3	12.958 x 10.093 x 0.118	8 EXT	
730 62078	317721-300	Steel	329.13 x 256.36 x 3	12.958 x 10.093 x 0.118	8 EXT	
73076679	352704A388	Friction	253.64 x 187.81 x 3.91	9.986 x 7.394 x 0.154	60 INT	BLK
730 76679	352704A388	Friction	253.64 x 187.81 x 3.91	9.986 x 7.394 x 0.154	60 INT	BLK
73118088	049700BR235	Friction	133.35 x 92.79 x 2.36	5.25 x 3.653 x 0.093	45 INT	
731 18088	049700BR235	Friction	133.35 x 92.79 x 2.36	5.25 x 3.653 x 0.093	45 INT	
73118088	049700BR235	Friction	133.35 x 92.79 x 2.36	5.25 x 3.653 x 0.093	45 INT	
731 18088	049700BR235	Friction	133.35 x 92.79 x 2.36	5.25 x 3.653 x 0.093	45 INT	
73118089	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
731 18089	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
73118089	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
731 18089	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
73118133	049700BR235	Friction	133.35 x 92.79 x 2.36	5.25 x 3.653 x 0.093	45 INT	
731 18133	049700BR235	Friction	133.35 x 92.79 x 2.36	5.25 x 3.653 x 0.093	45 INT	
73118133	049700BR235	Friction	133.35 x 92.79 x 2.36	5.25 x 3.653 x 0.093	45 INT	
731 18133	049700BR235	Friction	133.35 x 92.79 x 2.36	5.25 x 3.653 x 0.093	45 INT	
73129164	023712BR295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	
731 29164	023712BR295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	
73138264	352712BR390	Friction	254 x 74.5 x 3.91	10 x 2.933 x 0.154	6 INT	
731 38264	352712BR390	Friction	254 x 74.5 x 3.91	10 x 2.933 x 0.154	6 INT	
73139780	056712	Friction	371.7 x 302.95 x 5.21	14.634 x 11.927 x 0.205	73 INT	BLK
731 39780	056712	Friction	371.7 x 302.95 x 5.21	14.634 x 11.927 x 0.205	73 INT	BLK
73143004	329706	Friction	137.29 x 91.24 x 2.01	5.405 x 3.592 x 0.079	27 EXT	
731 43004	329706	Friction	137.29 x 91.24 x 2.01	5.405 x 3.592 x 0.079	27 EXT	

# ALTO HEAVY DUTY CATALOG

## FIAT - ALLIS

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
73143009	329707-200	Steel	131.19 x 85.24 x 2.01	5.165 x 3.356 x 0.079	29 INT	
731 43009	329707-200	Steel	131.19 x 85.24 x 2.01	5.165 x 3.356 x 0.079	29 INT	
73143652	317721-300	Steel	329.13 x 256.36 x 3	12.958 x 10.093 x 0.118	8 EXT	
731 43652	317721-300	Steel	329.13 x 256.36 x 3	12.958 x 10.093 x 0.118	8 EXT	
74907850	308701	Steel	205.59 x 145.47 x 1.65	8.094 x 5.727 x 0.065	64 EXT	
749 07850	308701	Steel	205.59 x 145.47 x 1.65	8.094 x 5.727 x 0.065	64 EXT	
74909413	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	
749 09413	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	
74909414	023722-180	Friction	148.59 x 107.7 x 1.8	5.85 x 4.24 x 0.071	52 INT	GRY
749 09414	023722-180	Friction	148.59 x 107.7 x 1.8	5.85 x 4.24 x 0.071	52 INT	GRY
75287708	023712-295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	TAN
752 87708	023712-295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	TAN
76022138	049700BR	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	BRZ
760 22138	049700BR	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	BRZ
76022138	049700BR235	Friction	133.35 x 92.79 x 2.36	5.25 x 3.653 x 0.093	45 INT	
760 22138	049700BR235	Friction	133.35 x 92.79 x 2.36	5.25 x 3.653 x 0.093	45 INT	
76022157	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
760 22157	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
79072917	329706	Friction	137.29 x 91.24 x 2.01	5.405 x 3.592 x 0.079	27 EXT	
790 72917	329706	Friction	137.29 x 91.24 x 2.01	5.405 x 3.592 x 0.079	27 EXT	
79072918	329708	Friction	177.32 x 109.22 x 2.01	6.981 x 4.3 x 0.079	35 EXT	
790 72918	329708	Friction	177.32 x 109.22 x 2.01	6.981 x 4.3 x 0.079	35 EXT	
79108023	329706	Friction	137.29 x 91.24 x 2.01	5.405 x 3.592 x 0.079	27 EXT	
791 08023	329706	Friction	137.29 x 91.24 x 2.01	5.405 x 3.592 x 0.079	27 EXT	
98529646	317704-490	Friction - Brake	204.52 x 53.52 x 4.9	8.052 x 2.107 x 0.193	22 INT	GRY
985 29646	317704-490	Friction - Brake	204.52 x 53.52 x 4.9	8.052 x 2.107 x 0.193	22 INT	GRY

## FORD INDUSTRIAL / NEW HOLLAND

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
1804831	049700BR	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	BRZ
1808604	023703	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
1808607	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	
1816970	311702	Friction	133.35 x 92.79 x 2.03	5.25 x 3.653 x 0.08	45 INT	
5137544	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
5165954	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
9564851	329707-200	Steel	131.19 x 85.24 x 2.01	5.165 x 3.356 x 0.079	29 INT	
9564887	329706	Friction	137.29 x 91.24 x 2.01	5.405 x 3.592 x 0.079	27 EXT	
9564888	329708	Friction	177.32 x 109.22 x 2.01	6.981 x 4.3 x 0.079	35 EXT	
9845268	023712BR295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	
71102762	306732-485	Friction	201.17 x 40.39 x 4.88	7.92 x 1.59 x 0.192	16 INT	TAN
71482511	306732-485	Friction	201.17 x 40.39 x 4.88	7.92 x 1.59 x 0.192	16 INT	TAN
75287709	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	
75312847	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	
81565601	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	
81801897	311702	Friction	133.35 x 92.79 x 2.03	5.25 x 3.653 x 0.08	45 INT	
81802536	311711	Steel	209.32 x 114.3 x 2.62	8.241 x 4.5 x 0.103	1 EXT	
81804831	049700BR	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	BRZ
81804831	106707	Steel	172.85 x 140.18 x 2.01	6.805 x 5.519 x 0.079	11 EXT	
81808604	023703	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
81808607	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	

# ALTO HEAVY DUTY CATALOG

## FORD INDUSTRIAL / NEW HOLLAND

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
81808607	023719-310	Steel	154.05 x 114.05 x 3.1	6.065 x 4.49 x 0.122	60 EXT	
81816970	311702	Friction	133.35 x 92.79 x 2.03	5.25 x 3.653 x 0.08	45 INT	
81865601	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	
81870755	023712BR295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	
83918314	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
83918314	023703	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
83924789	311702	Friction	133.35 x 92.79 x 2.03	5.25 x 3.653 x 0.08	45 INT	
83925696	023712BR295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	
83945586	329706	Friction	137.29 x 91.24 x 2.01	5.405 x 3.592 x 0.079	27 EXT	
83955538	311711	Steel	209.32 x 114.3 x 2.62	8.241 x 4.5 x 0.103	1 EXT	
83981343	023712-295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	TAN
85807016	306732-485	Friction	201.17 x 40.39 x 4.88	7.92 x 1.59 x 0.192	16 INT	TAN
85808316	303701-500	Steel	229.84 x 152.88 x 5	9.049 x 6.019 x 0.197	64 EXT	
85827747	303700-490	Friction	223.52 x 71.2 x 4.9	8.8 x 2.803 x 0.193	36 INT	GRY
85999292	049700BR	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	BRZ
86020643	023712BR295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	
86029058	023712-295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	TAN
86500733	023712-295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	TAN
86962386	311720-244	Friction	133.4 x 90.3 x 2.44	5.252 x 3.555 x 0.096	36 INT	BRZ
86964288	311720-260	Friction	133.4 x 90.3 x 2.59	5.252 x 3.555 x 0.102	36 INT	BRZ
86990276	306734	Friction	141.1 x 98.68 x 1.98	5.555 x 3.885 x 0.078	48 INT	GRY
87622084	306733	Steel	157.96 x 107.19 x 1.22	6.219 x 4.22 x 0.048	6 EXT	
87774810	306733	Steel	157.96 x 107.19 x 1.22	6.219 x 4.22 x 0.048	6 EXT	
87774811	306734	Friction	141.1 x 98.68 x 1.98	5.555 x 3.885 x 0.078	48 INT	GRY
13474AM	049720	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	GRY
180 4831	049700BR	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	BRZ
1804831	049700BR	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	BRZ
180 8604	023703	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
1808604	023703	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
1P77518A	023703	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
1P77519A	049700BR	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	BRZ
1P77573A1	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
395 5538	311711	Steel	209.32 x 114.3 x 2.62	8.241 x 4.5 x 0.103	1 EXT	
3955538	311711	Steel	209.32 x 114.3 x 2.62	8.241 x 4.5 x 0.103	1 EXT	
B5AZ-7B164A	049700BR	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	BRZ
B5AZ7B164A	049700BR	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	BRZ
B5AZ7B164B	049700BR	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	BRZ
B85-77573	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	
B8577573	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	
CONN7B164A	049700BR	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	BRZ
CONN7B164D	049700BR	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	BRZ
CONN7B164D	049720	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	GRY
C5NN-2A097B	311710A	Friction - Brake	204.5 x 53.52 x 4.88	8.051 x 2.107 x 0.192	22 INT	BRZ
C5NN2A097B	311710A	Friction - Brake	204.5 x 53.52 x 4.88	8.051 x 2.107 x 0.192	22 INT	BRZ
C5NN-2N315A	311713	Steel - Brake 1 lug	228.17 x 147.32 x 2.64	8.983 x 5.8 x 0.104		
C5NN2N315A	311713	Steel - Brake 1 lug	228.17 x 147.32 x 2.64	8.983 x 5.8 x 0.104		
C5NN2N315B	311711	Steel	209.32 x 114.3 x 2.62	8.241 x 4.5 x 0.103	1 EXT	
C5NN-2N315B	311711	Steel - Brake 1 lug	209.32 x 114.3 x 2.62	8.241 x 4.5 x 0.103	1 EXT	
C5NNP743A	311702	Friction	133.35 x 92.79 x 2.03	5.25 x 3.653 x 0.08	45 INT	
C5NNP743B	311702	Friction	133.35 x 92.79 x 2.03	5.25 x 3.653 x 0.08	45 INT	

# ALTO HEAVY DUTY CATALOG

## FORD INDUSTRIAL / NEW HOLLAND

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
C5NN-P743B	311702	Friction	133.35 x 92.79 x 2.03	5.25 x 3.653 x 0.08	45 INT	
C7NN-2A097B	311712	Friction - Brake	223.77 x 53.52 x 3.1	8.81 x 2.107 x 0.122	22 INT	BRZ
C7NN2A097B	311712	Friction - Brake	223.77 x 53.52 x 3.1	8.81 x 2.107 x 0.122	22 INT	BRZ
C8AP7B442A	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
C8AP-7B442A	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
C8AP-7B442A	023701	Steel Clutch	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
C9NN2A097BA	311712	Friction - Brake	223.77 x 53.52 x 3.1	8.81 x 2.107 x 0.122	22 INT	BRZ
C9NN-2A097BA	311712	Friction - Brake	223.77 x 53.52 x 3.1	8.81 x 2.107 x 0.122	22 INT	BRZ
C9NNP743A	023712-230	Friction	148.59 x 107.72 x 2.29	5.85 x 4.241 x 0.09	52 INT	TAN
C9NN-P743A	023712-230	Friction	148.59 x 107.72 x 2.29	5.85 x 4.241 x 0.09	52 INT	TAN
C9NNP743B	311702	Friction	133.35 x 92.79 x 2.03	5.25 x 3.653 x 0.08	45 INT	
C9NNP743B	311702	Friction	133.35 x 92.79 x 2.03	5.25 x 3.653 x 0.08	45 INT	
C9NNP743B	311702	Friction	133.35 x 92.79 x 2.03	5.25 x 3.653 x 0.08	45 INT	
C9NN-P743B	311702	Friction	133.35 x 92.79 x 2.03	5.25 x 3.653 x 0.08	45 INT	
C9NNP743D	311700A	Friction	148.56 x 107.72 x 2.29	5.849 x 4.241 x 0.09	52 INT	
C9NN-P743D	311700A	Friction	148.56 x 107.72 x 2.29	5.849 x 4.241 x 0.09	52 INT	
CONN7B164A	049700BR	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	BRZ
CONN-7B164A	049700BR	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	BRZ
CONN7B164D	049700	Friction	133.35 x 92.79 x 1.57	5.25 x 3.653 x 0.062	45 INT	GRY
CONN7B164S	106707	Steel	172.85 x 140.18 x 2.01	6.805 x 5.519 x 0.079	11 EXT	
D0AP-N5861	049720	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	GRY
D0APN5861	049720	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	GRY
D1NN-P743A	023712-230	Friction	148.59 x 107.72 x 2.29	5.85 x 4.241 x 0.09	52 INT	TAN
D1NNP743A	023712-230	Friction	148.59 x 107.72 x 2.29	5.85 x 4.241 x 0.09	52 INT	TAN
D2NN7R174A	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	
D2NN-7R174A	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	
D2NN7R175A	023712BR295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	
D6NNC730A	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	
D6NN-C730A	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	
D6NN-C730A	023719	Steel Clutch	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	
D8NN-P743JA	023712-230	Friction	148.59 x 107.72 x 2.29	5.85 x 4.241 x 0.09	52 INT	TAN
D8NNP743JA	023712-230	Friction	148.59 x 107.72 x 2.29	5.85 x 4.241 x 0.09	52 INT	TAN
E0NN70311AA	023712BR295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	
E0NN7Z031AA	023712BR295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	
E6NN2N315AA	311713	Steel - Brake 1 lug	228.17 x 147.32 x 2.64	8.983 x 5.8 x 0.104		
E6NN-2N315AA	311713	Steel - Brake 1 lug	228.17 x 147.32 x 2.64	8.983 x 5.8 x 0.104		
E9NN2A097AA	311710	Friction - Brake	204.72 x 53.52 x 3.1	8.06 x 2.107 x 0.122	22 INT	BRZ
E9NN-2A097AA	311710	Friction - Brake	204.72 x 53.52 x 3.1	8.06 x 2.107 x 0.122	22 INT	BRZ
E9NN2A097BA	311712	Friction - Brake	223.77 x 53.52 x 3.1	8.81 x 2.107 x 0.122	22 INT	BRZ
E9NN-2A097BA	311712	Friction - Brake	223.77 x 53.52 x 3.1	8.81 x 2.107 x 0.122	22 INT	BRZ
G8AP7B442A	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
G8AP7B442A	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
IP77518A	023703	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
IP-77518A	023703	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
IP77573A1	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
IP-77573A-1	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
P77573A1	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
PBB77519A	023712BR	Friction	148.59 x 107.72 x 1.52	5.85 x 4.241 x 0.06	52 INT	
PBB-77519A	023712BR	Friction Clutch	148.59 x 107.72 x 1.52	5.85 x 4.241 x 0.06	52 INT	
PBB-77519A	023712BR	Friction	148.59 x 107.72 x 1.52	5.85 x 4.241 x 0.06	52 INT	

# ALTO HEAVY DUTY CATALOG

## FORD INDUSTRIAL / NEW HOLLAND

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
PBB77573A	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	
PBB77573A	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	
PBB-77573A	023719	Steel Clutch	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	
PBB-77573A	023719	Steel Clutch	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	
PBB-77S19A	023712BR	Friction	148.59 x 107.72 x 1.52	5.85 x 4.241 x 0.06	52 INT	
PBB77S19A	023712BR	Friction	148.59 x 107.72 x 1.52	5.85 x 4.241 x 0.06	52 INT	
ZP2002202019	329706	Friction	137.29 x 91.24 x 2.01	5.405 x 3.592 x 0.079	27 EXT	
ZP-2002202-019	329706	Friction	137.29 x 91.24 x 2.01	5.405 x 3.592 x 0.079	27 EXT	

## FORD TRACTOR

Ref #	Alto #	Description
NA	91900	FORD TRACTOR 8N, 9N, 2N, NAA, 600, 700, 800, 900 Contains: Cover, Disc, Release Bearing, Pilot Bearing, Alignment Tool

## FRISCH-FAUN

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
7395157	023712BR295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	
738 056 050	329708	Friction	177.32 x 109.22 x 2.01	6.981 x 4.3 x 0.079	35 EXT	
738 113 050	329707-200	Steel	131.19 x 85.24 x 2.01	5.165 x 3.356 x 0.079	29 INT	
738 124 650	329706	Friction	137.29 x 91.24 x 2.01	5.405 x 3.592 x 0.079	27 EXT	
7381 130	329707-200	Steel	131.19 x 85.24 x 2.01	5.165 x 3.356 x 0.079	29 INT	
7382 519	329706	Friction	137.29 x 91.24 x 2.01	5.405 x 3.592 x 0.079	27 EXT	
7382 674	329708	Friction	177.32 x 109.22 x 2.01	6.981 x 4.3 x 0.079	35 EXT	
7395 157	023712BR295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	
7395 158	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	
7395 210	023712BR260	Friction	148.59 x 107.72 x 2.62	5.85 x 4.241 x 0.103	52 INT	BRZ

## FUJI UNIVANCE

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline
EW2080S00F	306739-240	Steel	176.89 x 129.92 x 2.41	6.964 x 5.115 x 0.095	52 INT
EW2090S00F	306739-210	Steel	176.89 x 129.92 x 2.11	6.964 x 5.115 x 0.083	52 INT
EW4070S00F	306735-240	Steel	203.35 x 140.34 x 2.41	8.006 x 5.525 x 0.095	56 INT
EW4110S00F	306735-210	Steel	203.35 x 140.34 x 2.11	8.006 x 5.525 x 0.083	56 INT
EW5130S00F	306737-240	Steel	228.5 x 155.5 x 2.41	8.996 x 6.122 x 0.095	62 INT
S5120S00F	306737-262	Steel	228.5 x 155.5 x 2.62	8.996 x 6.122 x 0.103	62 INT

## FUNK

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
4005523		Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	TAN
4002022	023712A170	Friction	148.59 x 107.72 x 1.7	5.85 x 4.241 x 0.067	52 INT	TAN
4002022	023722-180	Friction	148.59 x 107.7 x 1.8	5.85 x 4.24 x 0.071	52 INT	GRY
4002254	023719-310	Steel	154.05 x 114.05 x 3.1	6.065 x 4.49 x 0.122	60 EXT	
4002787	023712A170	Friction	148.59 x 107.72 x 1.7	5.85 x 4.241 x 0.067	52 INT	TAN
4004896	049700-180	Friction	133.35 x 92.79 x 1.8	5.25 x 3.653 x 0.071	45 INT	
4005522	023722-180	Friction	148.59 x 107.7 x 1.8	5.85 x 4.24 x 0.071	52 INT	GRY
4005523	023712-295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	TAN
4005524	049700-180	Friction	133.35 x 92.79 x 1.8	5.25 x 3.653 x 0.071	45 INT	
4005527	023712-295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	TAN

# ALTO HEAVY DUTY CATALOG

## FUNK

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
4010556	029701	Steel	113.49 x 79.6 x 1.73	4.468 x 3.134 x 0.068	44 EXT	
4010595	029712BR	Friction	107.87 x 73.76 x 1.57	4.247 x 2.904 x 0.062	36 INT	BRZ
4012382	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	
4050498	049700BR	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	BRZ
7395158	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	
40121315	023712A170	Friction	148.59 x 107.72 x 1.7	5.85 x 4.241 x 0.067	52 INT	TAN
40121323	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	
40121323	079741	Steel - OE Style	154.23 x 113.87 x 1.75	6.072 x 4.483 x 0.069	60 EXT	
40RC7683	049700BR	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	BRZ
40RC-7683	049700BR	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	BRZ
40RC7727	023703	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
40RC-7727	023703	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
40RC7951	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
40RC-7951	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
40RC-7951	023703	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
4TRC7173	023703	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
4TRC-7173	023703	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
4TRC7174	049700BR	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	BRZ
4TRC-7174	049700BR	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	BRZ
ATRC-7174	106707	Steel	172.85 x 140.18 x 2.01	6.805 x 5.519 x 0.079	11 EXT	
Not Available	314701-190	Steel	177.09 x 131.9 x 1.93	6.972 x 5.193 x 0.076	69 EXT	
4005523	023712-295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	TAN
YZ102-938	079743	Steel	177.11 x 113.89 x 1.91	6.973 x 4.484 x 0.075	69 EXT	
YZ102938	079743	Steel	177.11 x 113.89 x 1.91	6.973 x 4.484 x 0.075	69 EXT	
YZ103-269	314700	Friction	169.42 x 124.46 x 3.2	6.67 x 4.9 x 0.126	60 INT	
YZ103269	314700	Friction	169.42 x 124.46 x 3.2	6.67 x 4.9 x 0.126	60 INT	
YZ105-493	079744-275	Friction	169.6 x 107.29 x 2.79	6.677 x 4.224 x 0.11	52 INT	GRY
YZ105493	079744-275	Friction	169.6 x 107.29 x 2.79	6.677 x 4.224 x 0.11	52 INT	GRY
YZ106-060	314700A280	Friction	169.67 x 124.69 x 2.79	6.68 x 4.909 x 0.11	60 INT	TAN
YZ106060	314700A280	Friction	169.67 x 124.69 x 2.79	6.68 x 4.909 x 0.11	60 INT	TAN
YZ150185	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	
YZ5011026	079749	Steel	211.91 x 148.01 x 1.91	8.343 x 5.827 x 0.075	66 EXT	
YZ501-1026	079749	Steel	211.91 x 148.01 x 1.91	8.343 x 5.827 x 0.075	66 EXT	
YZ501539	079749	Steel	211.91 x 148.01 x 1.91	8.343 x 5.827 x 0.075	66 EXT	
YZ501-539	079749	Steel	211.91 x 148.01 x 1.91	8.343 x 5.827 x 0.075	66 EXT	
YZ502309	079749	Steel	211.91 x 148.01 x 1.91	8.343 x 5.827 x 0.075	66 EXT	
YZ502-309	079749	Steel	211.91 x 148.01 x 1.91	8.343 x 5.827 x 0.075	66 EXT	
YZ105494	023712-279	Friction	148.59 x 107.72 x 2.79	5.85 x 4.241 x 0.11	52 INT	GRY
YZ105494	023712-279	Friction	148.59 x 107.72 x 2.79	5.85 x 4.241 x 0.11	52 INT	GRY

## FURUKAWA

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
31421122150	334712	Friction	134.06 x 77.42 x 2.79	5.278 x 3.048 x 0.11	38 INT	GRY
314211-22150	334712	Friction	134.06 x 77.42 x 2.79	5.278 x 3.048 x 0.11	38 INT	GRY
33723123260	334712	Friction	134.06 x 77.42 x 2.79	5.278 x 3.048 x 0.11	38 INT	GRY
337231-23260	334712	Friction	134.06 x 77.42 x 2.79	5.278 x 3.048 x 0.11	38 INT	GRY
A1050330929	329706	Friction	137.29 x 91.24 x 2.01	5.405 x 3.592 x 0.079	27 EXT	
A1050330929	329706	Friction	137.29 x 91.24 x 2.01	5.405 x 3.592 x 0.079	27 EXT	
A1050330929	329706	Friction	137.29 x 91.24 x 2.01	5.405 x 3.592 x 0.079	27 EXT	
A10503-30929	329706	Friction	137.29 x 91.24 x 2.01	5.405 x 3.592 x 0.079	27 EXT	



# ALTO HEAVY DUTY CATALOG

## FURUKAWA

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
A1050330930	329708	Friction	177.32 x 109.22 x 2.01	6.981 x 4.3 x 0.079	35 EXT	
A10503-30930	329708	Friction	177.32 x 109.22 x 2.01	6.981 x 4.3 x 0.079	35 EXT	
A2464330832	329707-200	Steel	131.19 x 85.24 x 2.01	5.165 x 3.356 x 0.079	29 INT	
A24643-30832	329707-200	Steel	131.19 x 85.24 x 2.01	5.165 x 3.356 x 0.079	29 INT	

## GALION

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
72327	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
72330	049700BR	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	BRZ
72372	023738BR	Friction	190.6 x 147.17 x 2.92	7.504 x 5.794 x 0.115	59 INT	
72378	023739	Steel	214.83 x 155.58 x 1.75	8.458 x 6.125 x 0.069	3 EXT	
77576	023712BR295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	
149585	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	
630515C2	023712BR295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	
A2464330832	329707-200	Steel	131.19 x 85.24 x 2.01	5.165 x 3.356 x 0.079	29 INT	
D139209	049700BR	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	BRZ
D139309	023712BR295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	
D72327	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
D72330	049700BR	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	BRZ
D72334	023761	Steel	138.99 x 99.01 x 8.76	5.472 x 3.898 x 0.345	54 EXT	
D72372	023738BR	Friction	190.6 x 147.17 x 2.92	7.504 x 5.794 x 0.115	59 INT	
D72378	023739	Steel	214.83 x 155.58 x 1.75	8.458 x 6.125 x 0.069	3 EXT	
D72522	023760	Steel	138.99 x 98.27 x 0.81	5.472 x 3.869 x 0.322	54 EXT	
D80064	310716	Friction	165.07 x 74.3 x 3.99	6.499 x 2.925 x 0.157	19 INT	

## GIRLING

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline
6432 6805	311711	Steel	209.32 x 114.3 x 2.62	8.241 x 4.5 x 0.103	1 EXT
64326805	311711	Steel	209.32 x 114.3 x 2.62	8.241 x 4.5 x 0.103	1 EXT

## GOODRICH

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline
4200333	023701-300	Steel	138.99 x 99.01 x 3	5.472 x 3.898 x 0.118	54 EXT

## GRADALL

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
4200341	049720-200	Friction	133.35 x 92.79 x 2.08	5.25 x 3.653 x 0.082	45 INT	GRY
0420-0333	023701-300	Steel	138.99 x 99.01 x 3	5.472 x 3.898 x 0.118	54 EXT	
0420-0341	049720-200	Friction	133.35 x 92.79 x 2.08	5.25 x 3.653 x 0.082	45 INT	GRY

## GRADER (GEARCO) CHAMPION

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
11299	306709-155	Steel	142.62 x 99.14 x 1.6	5.615 x 3.903 x 0.063	8 EXT	
11300	049700A150	Friction	133.35 x 92.79 x 1.5	5.25 x 3.653 x 0.059	45 INT	
14742	023712BR260	Friction	148.59 x 107.72 x 2.62	5.85 x 4.241 x 0.103	52 INT	BRZ
14742	023712BR295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	
14743	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	
14748	023712BR260	Friction	148.59 x 107.72 x 2.62	5.85 x 4.241 x 0.103	52 INT	BRZ

# ALTO HEAVY DUTY CATALOG

## GRADER (GEARCO) CHAMPION

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
14748	023712BR295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	
19435	317712-250	Friction	198.15 x 140.54 x 2.49	7.801 x 5.533 x 0.098	34 INT	
28304	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
28304	023703	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
28305	049700BR235	Friction	133.35 x 92.79 x 2.36	5.25 x 3.653 x 0.093	45 INT	
28310	049700BR235	Friction	133.35 x 92.79 x 2.36	5.25 x 3.653 x 0.093	45 INT	
28311	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
28311	023703	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
37170	307704-500	Friction	342.77 x 50.8 x 5.21	13.495 x 2 x 0.205	53 INT	GRS
37171	307705-630	Steel	355.04 x 238.38 x 6.35	13.978 x 9.385 x 0.25	83 EXT	
37934	307706-350	Friction	358.93 x 226.87 x 3.45	14.131 x 8.932 x 0.136	54 INT	GRS
37935	307707-300	Steel	378.46 x 254 x 3.12	14.9 x 10 x 0.123	89 EXT	
41092	049700	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	GRY
41112	307703-210	Steel	180.21 x 129.57 x 2.11	7.095 x 5.101 x 0.083	8 EXT	
49987	307705-630	Steel	355.04 x 238.38 x 6.35	13.978 x 9.385 x 0.25	83 EXT	
53951	307702-250	Friction	168.58 x 119.43 x 2.54	6.637 x 4.702 x 0.1	29 INT	
16780N	307709-340	Steel	323.01 x 184.12 x 3.43	12.717 x 7.249 x 0.135	8 EXT	
37171X	307705-343	Steel	355.04 x 238.38 x 3.43	13.978 x 9.385 x 0.135	83 EXT	
48525N	307708-520	Friction	279.73 x 108.25 x 5.21	11.013 x 4.262 x 0.205	35 INT	GRY
49987X	307705-343	Steel	355.04 x 238.38 x 3.43	13.978 x 9.385 x 0.135	83 EXT	
D72803	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	
D77576	023712BR295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	

## GROVE

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
9904100634	023703	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
9904101482	023739	Steel	214.83 x 155.58 x 1.75	8.458 x 6.125 x 0.069	3 EXT	
9904101483	023738BR	Friction	190.6 x 147.17 x 2.92	7.504 x 5.794 x 0.115	59 INT	
9904101520	023703	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
9904101523	049700BR	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	BRZ
9904101524	023761	Steel	138.99 x 99.01 x 8.76	5.472 x 3.898 x 0.345	54 EXT	
9904105540	023760	Steel	138.99 x 98.27 x 0.81	5.472 x 3.869 x 0.322	54 EXT	
9904105541	049700	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	GRY
9904106470	310722	Friction	175.77 x 107.47 x 2.9	6.92 x 4.231 x 0.114	52 INT	BRN
9904106471	310721-180	Steel	182.88 x 118.21 x 1.75	7.2 x 4.654 x 0.069	71 EXT	
9904109932	329706	Friction	137.29 x 91.24 x 2.01	5.405 x 3.592 x 0.079	27 EXT	

## HALLA

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
FAC0300040	330700B300	Friction	124.64 x 68.83 x 3.05	4.907 x 2.71 x 0.12	41 INT	GRY
FAC0300050	079731-310	Steel	137.62 x 80.34 x 3.18	5.418 x 3.163 x 0.125	4 EXT	
FAD0300500	325702BR	Friction	147.19 x 90.42 x 3	5.795 x 3.56 x 0.118	47 INT	BRZ
FAD0300600	325703	Steel	157.02 x 100.3 x 1.4	6.182 x 3.949 x 0.055	8 EXT	

## HAMWORTHY

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
630192041	323702	Friction	128.27 x 87.91 x 2.54	5.05 x 3.461 x 0.1	57 INT	BRZ

# ALTO HEAVY DUTY CATALOG

## HANOMAG

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
Y1820045	049700BR	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	BRZ
Y1820046	023703	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
Y1820050	023739	Steel	214.83 x 155.58 x 1.75	8.458 x 6.125 x 0.069	3 EXT	

## HARRISON

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
103267A	049700BR	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	BRZ
103268A	023703	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	

## HIDROMEK

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
F06/13869	324701-385	Steel	238.02 x 140.08 x 3.84	9.371 x 5.515 x 0.151	3 EXT	
F0613869	324701-385	Steel	238.02 x 140.08 x 3.84	9.371 x 5.515 x 0.151	3 EXT	
F06/13871	324700A385	Friction - 8 Holes	221.95 x 49.61 x 3.89	8.738 x 1.953 x 0.153	15 INT	TAN
F0613871	324700A385	Friction - 8 Holes	221.95 x 49.61 x 3.89	8.738 x 1.953 x 0.153	15 INT	TAN

## HITACHI

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
2055335	325700A220	Friction	159.97 x 97.38 x 2.24	6.298 x 3.834 x 0.088	26 INT	GRY
2055338	325701	Steel	173.99 x 110.01 x 1.7	6.85 x 4.331 x 0.067	68 EXT	

## HURTH DANA

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
1120761002	306732-485	Friction	201.17 x 40.39 x 4.88	7.92 x 1.59 x 0.192	16 INT	TAN
112.07.610.02	306732-485	Friction	201.17 x 40.39 x 4.88	7.92 x 1.59 x 0.192	16 INT	TAN
1120761004	306732-485	Friction	201.17 x 40.39 x 4.88	7.92 x 1.59 x 0.192	16 INT	TAN
112.07.610.04	306732-485	Friction	201.17 x 40.39 x 4.88	7.92 x 1.59 x 0.192	16 INT	TAN
73407004013	306731-266	Steel	219.71 x 145.8 x 2.67	8.65 x 5.74 x 0.105	6 EXT	
734.07.004.013	306731-266	Steel	219.71 x 145.8 x 2.67	8.65 x 5.74 x 0.105	6 EXT	
7340700402	306731-266	Steel	219.71 x 145.8 x 2.67	8.65 x 5.74 x 0.105	6 EXT	
734.07.004.02	306731-266	Steel	219.71 x 145.8 x 2.67	8.65 x 5.74 x 0.105	6 EXT	
7340761022	306732-485	Friction	201.17 x 40.39 x 4.88	7.92 x 1.59 x 0.192	16 INT	TAN
734.07.610.22	306732-485	Friction	201.17 x 40.39 x 4.88	7.92 x 1.59 x 0.192	16 INT	TAN

## HYDREMA

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
7000570	303700-490	Friction	223.52 x 71.2 x 4.9	8.8 x 2.803 x 0.193	36 INT	GRY

## HYSTER

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
77806	023738BR	Friction	190.6 x 147.17 x 2.92	7.504 x 5.794 x 0.115	59 INT	
77808	023739	Steel	214.83 x 155.58 x 1.75	8.458 x 6.125 x 0.069	3 EXT	
77885	023760	Steel	138.99 x 98.27 x 0.81	5.472 x 3.869 x 0.322	54 EXT	
77888	049700BR	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	BRZ
77889	023761	Steel	138.99 x 99.01 x 8.76	5.472 x 3.898 x 0.345	54 EXT	
77898	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
106375	023703	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	

# ALTO HEAVY DUTY CATALOG

## HYSTER

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
109604	049720-200	Friction	133.35 x 92.79 x 2.08	5.25 x 3.653 x 0.082	45 INT	GRY
113486	318700	Friction	169.14 x 78.44 x 3.3	6.659 x 3.088 x 0.13	20 INT	
114254	318701	Steel	191.49 x 117.5 x 2.11	7.539 x 4.626 x 0.083	28 EXT	
119729	318700	Friction	169.14 x 78.44 x 3.3	6.659 x 3.088 x 0.13	20 INT	
119751	318701	Steel	191.49 x 117.5 x 2.11	7.539 x 4.626 x 0.083	28 EXT	
133989	311711	Steel	209.32 x 114.3 x 2.62	8.241 x 4.5 x 0.103	1 EXT	
136083	049700BR	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	BRZ
148895	318700	Friction	169.14 x 78.44 x 3.3	6.659 x 3.088 x 0.13	20 INT	
234215	352704-388	Friction	253.59 x 187.81 x 3.91	9.984 x 7.394 x 0.154	60 INT	
299646	023712A170	Friction	148.59 x 107.72 x 1.7	5.85 x 4.241 x 0.067	52 INT	TAN
299646	023722-180	Friction	148.59 x 107.7 x 1.8	5.85 x 4.24 x 0.071	52 INT	GRY
299647	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	
319516	023701-300	Steel	138.99 x 99.01 x 3	5.472 x 3.898 x 0.118	54 EXT	
319596	023701-300	Steel	138.99 x 99.01 x 3	5.472 x 3.898 x 0.118	54 EXT	
319596	023701A300	Steel	138.99 x 99.01 x 3	5.472 x 3.898 x 0.118	54 EXT	
319597	049720-200	Friction	133.35 x 92.79 x 2.08	5.25 x 3.653 x 0.082	45 INT	GRY
330619	023712BR260	Friction	148.59 x 107.72 x 2.62	5.85 x 4.241 x 0.103	52 INT	BRZ
330619	023712BR295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	
330620	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	
334409	049700-216	Friction	133.35 x 92.79 x 2.16	5.25 x 3.653 x 0.085	45 INT	GRY
334417	023701-300	Steel	138.99 x 99.01 x 3	5.472 x 3.898 x 0.118	54 EXT	
338573	049720-200	Friction	133.35 x 92.79 x 2.08	5.25 x 3.653 x 0.082	45 INT	GRY
346796	049720-200	Friction	133.35 x 92.79 x 2.08	5.25 x 3.653 x 0.082	45 INT	GRY
382263	023712BR260	Friction	148.59 x 107.72 x 2.62	5.85 x 4.241 x 0.103	52 INT	BRZ
382263	023712BR295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	
449273	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
449461	049700BR235	Friction	133.35 x 92.79 x 2.36	5.25 x 3.653 x 0.093	45 INT	
878364	023703	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
1311645	049740-230	Friction	133.35 x 92.79 x 2.31	5.25 x 3.653 x 0.091	45 INT	GRY
1311652	049700BR235	Friction	133.35 x 92.79 x 2.36	5.25 x 3.653 x 0.093	45 INT	
1311653	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
1311662	049700BR235	Friction	133.35 x 92.79 x 2.36	5.25 x 3.653 x 0.093	45 INT	
1387235	023701-250	Steel	138.99 x 99.01 x 2.49	5.472 x 3.898 x 0.098	54 EXT	
1390854	329708	Friction	177.32 x 109.22 x 2.01	6.981 x 4.3 x 0.079	35 EXT	
1469300	049730-250	Friction	133.35 x 92.79 x 2.51	5.25 x 3.653 x 0.099	45 INT	GRY
1469301	049730-250	Friction	133.35 x 92.79 x 2.51	5.25 x 3.653 x 0.099	45 INT	GRY
1538176	049720-200	Friction	133.35 x 92.79 x 2.08	5.25 x 3.653 x 0.082	45 INT	GRY
3026084	308700	Friction	197.03 x 138.3 x 2.79	7.757 x 5.445 x 0.11	44 INT	GRY
3045763	310701	Steel	162.03 x 115.93 x 1.7	6.379 x 4.564 x 0.067	4 EXT	
3053215	049720-200	Friction	133.35 x 92.79 x 2.08	5.25 x 3.653 x 0.082	45 INT	GRY
3053354	023712BR260	Friction	148.59 x 107.72 x 2.62	5.85 x 4.241 x 0.103	52 INT	BRZ
3068473	308703	Steel	205.49 x 145.47 x 3.53	8.09 x 5.727 x 0.139	43 EXT	
3132279	325702BR	Friction	147.19 x 90.42 x 3	5.795 x 3.56 x 0.118	47 INT	BRZ
2026434	312701-160	Steel	131.55 x 79.96 x 1.6	5.179 x 3.148 x 0.063	42 EXT	
D113486	318700	Friction	169.14 x 78.44 x 3.3	6.659 x 3.088 x 0.13	20 INT	
D114254	318701	Steel	191.49 x 117.5 x 2.11	7.539 x 4.626 x 0.083	28 EXT	
D148895	318700	Friction	169.14 x 78.44 x 3.3	6.659 x 3.088 x 0.13	20 INT	
D334417	023701-300	Steel	138.99 x 99.01 x 3	5.472 x 3.898 x 0.118	54 EXT	

# ALTO HEAVY DUTY CATALOG

## HYUNDAI

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
501309329	329706	Friction	137.29 x 91.24 x 2.01	5.405 x 3.592 x 0.079	27 EXT	
501309330	329708	Friction	177.32 x 109.22 x 2.01	6.981 x 4.3 x 0.079	35 EXT	
680900050	332704	Friction	164.24 x 103.81 x 2.87	6.466 x 4.087 x 0.113	76 EXT	
4642308332	329707-200	Steel	131.19 x 85.24 x 2.01	5.165 x 3.356 x 0.079	29 INT	
81F631140	334712	Friction	134.06 x 77.42 x 2.79	5.278 x 3.048 x 0.11	38 INT	GRY
81F6-31140	334712	Friction	134.06 x 77.42 x 2.79	5.278 x 3.048 x 0.11	38 INT	GRY
81F734180	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
81F7-34180	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
81F734190	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
81F7-34190	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
XKBT00271	049720-200	Friction	133.35 x 92.79 x 2.08	5.25 x 3.653 x 0.082	45 INT	GRY
XKBT-00271	049720-200	Friction	133.35 x 92.79 x 2.08	5.25 x 3.653 x 0.082	45 INT	GRY
XKBT00823	049720-200	Friction	133.35 x 92.79 x 2.08	5.25 x 3.653 x 0.082	45 INT	GRY
XKBT-00823	049720-200	Friction	133.35 x 92.79 x 2.08	5.25 x 3.653 x 0.082	45 INT	GRY
ZGAQ03009	313720-160	Friction	109.63 x 68.53 x 1.63	4.316 x 2.698 x 0.064	34 INT	GRY
ZGAQ-03009	313720-160	Friction	109.63 x 68.53 x 1.63	4.316 x 2.698 x 0.064	34 INT	GRY
ZTAJ00022	332704	Friction	164.24 x 103.81 x 2.87	6.466 x 4.087 x 0.113	76 EXT	
ZTAJ-00022	332704	Friction	164.24 x 103.81 x 2.87	6.466 x 4.087 x 0.113	76 EXT	
ZTAJ00023	330717-150	Steel	151.94 x 81.69 x 1.52	5.982 x 3.216 x 0.06	40 INT	
ZTAJ-00023	330717-150	Steel	151.94 x 81.69 x 1.52	5.982 x 3.216 x 0.06	40 INT	
ZTAM00090	306732-485	Friction - Brake	201.17 x 40.39 x 4.88	7.92 x 1.59 x 0.192	16 INT	TAN
ZTAM-00090	306732-485	Friction	201.17 x 40.39 x 4.88	7.92 x 1.59 x 0.192	16 INT	TAN
ZTAM00219	306731-266	Steel - Brake	219.71 x 145.8 x 2.67	8.65 x 5.74 x 0.105	6 EXT	

## INTERNATIONAL HARVESTER - HOUGH

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
1342285C1	306702-467	Friction	202.95 x 57.15 x 4.7	7.99 x 2.25 x 0.185	19 INT	BRZ
157021H1	317712-250	Friction	198.15 x 140.54 x 2.49	7.801 x 5.533 x 0.098	34 INT	
40882D	319707-250	Steel	398.07 x 304.93 x 2.49	15.672 x 12.005 x 0.098	77 EXT	
634536C1	317712-250	Friction	198.15 x 140.54 x 2.49	7.801 x 5.533 x 0.098	34 INT	

## INTERNATIONAL HARVESTER - J. I. CASE (Agricultural)

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
104712C21	351700	Friction - Brake	203.2 x 47.09 x 4.65	8 x 1.854 x 0.183	12 INT	TAN
104713C21	351701	Steel	249.56 x 125.37 x 2.29	9.825 x 4.936 x 0.09	3 EXT	
313807R1	352711-495	Steel	387.3 x 322.78 x 4.95	15.248 x 12.708 x 0.195	30 EXT	
380249R-3	351702	Friction	146.15 x 63.68 x 3.94	5.754 x 2.507 x 0.155	26 INT	GRY
380249R-3	351702	Friction	146.15 x 63.68 x 3.94	5.754 x 2.507 x 0.155	26 INT	GRY
380249R3	351702	Friction	146.15 x 63.68 x 3.94	5.754 x 2.507 x 0.155	26 INT	GRY
382342R1	351705-378	Steel	192.74 x 130.25 x 3.76	7.588 x 5.128 x 0.148	6 EXT	
382343R	351704BR	Friction	167.39 x 117.12 x 2.9	6.59 x 4.611 x 0.114	47 INT	BRZ
382344R1	351709-375	Steel	193.04 x 130.05 x 3.76	7.6 x 5.12 x 0.148	6 EXT	
384430R-2	351703A	Steel	174.63 x 85.73 x 2.54	6.875 x 3.375 x 0.1	12 EXT	
384430R2	351703A	Steel	174.63 x 85.73 x 2.54	6.875 x 3.375 x 0.1	12 EXT	
384431R-2	351703B	Steel	174.65 x 85.73 x 2.54	6.876 x 3.375 x 0.1	12 EXT	
384431R2	351703B	Steel	174.65 x 85.73 x 2.54	6.876 x 3.375 x 0.1	12 EXT	
675667R1	049720	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	GRY
702874C1	317712-250	Friction	198.15 x 140.54 x 2.49	7.801 x 5.533 x 0.098	34 INT	
A-175806	310727-225	Steel	143.46 x 89.51 x 2.24	5.648 x 3.524 x 0.088	26 EXT	

# ALTO HEAVY DUTY CATALOG

## INTERNATIONAL HARVESTER - J. I. CASE (Agricultural)

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
A175806	310727-225	Steel	143.46 x 89.51 x 2.24	5.648 x 3.524 x 0.088	26 EXT	
A59013	351767	Spring PTO	86.08 x 76.96 x 1.27	3.389 x 3.03 x 0.05		
A66365	351707	Steel	126.9 x 69.85 x 1.12	4.996 x 2.75 x 0.044	17 INT	
NL	351750X	BRAKE KIT, WHEEL TYPE TRACTORS Contains: 6-351700, 7-351701, Orings & Metal clad seal Fits Models: 786, 886, 986, 1086, 1486, 3088, 3288, 3388, 3488, Hydro 3588, 3688, 3788, 6388. 6588. 6788 Hydro 186				

## INTERNATIONAL HARVESTER - J. I. CASE (Agricultural) PTO

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
77721	306835A	Gasket & Seal Kit PTO WO/Pistons				
380083	306200	Piston, PTO Brake Assembly Hydraulic Type				
380240	306150	Washer, Thrust				
381464	306300	Piston, PTO Brake Assembly Mechanical Type				
877721	306937AHD	REBUILDING KIT PTO Heavy Duty with Seal Kit (Heg es)				
381489R3	306701	Steel	146.05 x 103.3 x 1.73	5.75 x 4.067 x 0.068	6 EXT	
381490R4	306704	Friction	135.08 x 95.02 x 2.54	5.318 x 3.741 x 0.1	51 INT	TAN
381490R4D	306704A	Friction	135.08 x 95.02 x 2.54	5.318 x 3.741 x 0.1	51 INT	GRY
68802C91	306750	MODULE, FRICTION & STEEL PTO Contains: 5-306704, 12-306701				
68803C91	306750A	MODULE, FRICTION & STEEL PTO Contains: 7-306704, 9-306701				
68803C91HD	306750AHD	MODULE, FRICTION & STEEL PTO HEAVY DUTY Contains: 7-306704A, 9-306701				
77720C94	306835	Gasket & Seal Kit PTO W/Pistons				
77720C94	306835X	Gasket & Seal Kit PTO WO/Pistons				
77721S	306835AX	Gasket & Seal Kit PTO WO/Pistons				
877721S	306937AXHD	REBUILDING KIT PTO Heavy Duty with Seal Kit (No Pistons) (Heg es)				
NA	306300A	Piston, PTO Brake Assembly Hydraulic Type				
NA	306670	Piston Kit PTO (3 Pistons)				
NA	306935	REBUILDING KIT PTO with Pistons and Seal Kit (Tan es)				
NA	306935A	REBUILDING KIT PTO with Pistons and Seal Kit (Tan es)				
NA	306935AHD	REBUILDING KIT PTO Heavy Duty with Pistons and Seal Kit (Heg es)				

# ALTO HEAVY DUTY CATALOG

## INTERNATIONAL HARVESTER - J. I. CASE (Agricultural) PTO

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
NA	306935AX	REBUILDING KIT PTO with Seal Kit (No Pistons) (Tan es)				
NA	306935AXHD	REBUILDING KIT PTO Heavy Duty with Seal Kit (No Pistons) (Heg es)				
NA	306935X	REBUILDING KIT PTO with Seal Kit (No Pistons) (Tan es)				

## J.I. CASE / I.H.C. / DRESSER IND.

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
139309	049700	Friction	133.35 x 92.79 x 1.57	5.25 x 3.653 x 0.062	45 INT	GRY
149584	023712A170	Friction	148.59 x 107.72 x 1.7	5.85 x 4.241 x 0.067	52 INT	TAN
149584	023722-180	Friction	148.59 x 107.7 x 1.8	5.85 x 4.24 x 0.071	52 INT	GRY
190462	166707-200	Steel	179.83 x 148.56 x 2.01	7.08 x 5.849 x 0.079	32 EXT	
4500230	049700	Friction	133.35 x 92.79 x 1.57	5.25 x 3.653 x 0.062	45 INT	GRY
4800278	329706	Friction	137.29 x 91.24 x 2.01	5.405 x 3.592 x 0.079	27 EXT	
4800280	329707-200	Steel	131.19 x 85.24 x 2.01	5.165 x 3.356 x 0.079	29 INT	
9398112	329708	Friction	177.32 x 109.22 x 2.01	6.981 x 4.3 x 0.079	35 EXT	
680900060	330717-150	Steel	151.94 x 81.69 x 1.52	5.982 x 3.216 x 0.06	40 INT	
1202654H1	329708	Friction	177.32 x 109.22 x 2.01	6.981 x 4.3 x 0.079	35 EXT	
1202681H1	329706	Friction	137.29 x 91.24 x 2.01	5.405 x 3.592 x 0.079	27 EXT	
1202682H1	329707-200	Steel	131.19 x 85.24 x 2.01	5.165 x 3.356 x 0.079	29 INT	
1244205H1	023712-295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	TAN
1342285C1	306702-467	Friction	202.95 x 57.15 x 4.7	7.99 x 2.25 x 0.185	19 INT	BRZ
148962A1	306732-485	Friction - Brake	201.17 x 40.39 x 4.88	7.92 x 1.59 x 0.192	16 INT	TAN
148963A1	306731-266	Steel - Brake	219.71 x 145.8 x 2.67	8.65 x 5.74 x 0.105	6 EXT	
148963A1	306731-266	Steel - Brake	219.71 x 145.8 x 2.67	8.65 x 5.74 x 0.105	6 EXT	
181159A1	306705-250	Steel	150.95 x 98.76 x 2.49	5.943 x 3.888 x 0.098	6 EXT	
187109H1	049700BR	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	BRZ
187109H1	106707	Steel	172.85 x 140.18 x 2.01	6.805 x 5.519 x 0.079	11 EXT	
196073A1	166707-200	Steel	179.83 x 148.56 x 2.01	7.08 x 5.849 x 0.079	32 EXT	
1981314-C1	900-CP15	Friction	301.75 x 25.4 x 4.52	11.88 x 1 x 0.178		RED
1981314C1	900-CP15	Friction	301.75 x 25.4 x 4.52	11.88 x 1 x 0.178		RED
1997129C1	310726A250	Friction	127.25 x 82.19 x 2.54	5.01 x 3.236 x 0.1	40 INT	GRY
1997959-C1	306726-284	Friction	228.5 x 161.9 x 2.84	8.996 x 6.374 x 0.112	39 INT	GRY
1997959C1	306726-284	Friction	228.5 x 161.9 x 2.84	8.996 x 6.374 x 0.112	39 INT	GRY
237021A1	166707-200	Steel	179.83 x 148.56 x 2.01	7.08 x 5.849 x 0.079	32 EXT	
245297A1	310726A250	Friction	127.25 x 82.19 x 2.54	5.01 x 3.236 x 0.1	40 INT	GRY
313807R1	352711-495	Steel	387.3 x 322.78 x 4.95	15.248 x 12.708 x 0.195	30 EXT	
324123R1	306722-280	Friction	165.05 x 50.8 x 2.79	6.498 x 2 x 0.11	17 INT	
324123R92	306722-280	Friction	165.05 x 50.8 x 2.79	6.498 x 2 x 0.11	17 INT	
324240R1	049700BR	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	BRZ
324240R1	106707	Steel	172.85 x 140.18 x 2.01	6.805 x 5.519 x 0.079	11 EXT	
324241R1	306709-155	Steel	142.62 x 99.14 x 1.6	5.615 x 3.903 x 0.063	8 EXT	
324241R1X	306709	Steel	142.62 x 99.14 x 1.65	5.615 x 3.903 x 0.065	8 EXT	
324452R1	306721A308	Steel	243.92 x 172.39 x 3.07	9.603 x 6.787 x 0.121	8 EXT	
327173R1	307703-210	Steel	180.21 x 129.57 x 2.11	7.095 x 5.101 x 0.083	8 EXT	
336823R1	332711-228	Steel	203.23 x 138.4 x 2.29	8.001 x 5.449 x 0.09	56 INT	
381489R3	306701	Steel	146.05 x 103.3 x 1.73	5.75 x 4.067 x 0.068	6 EXT	
381489R-3X	306701B	Friction - 1 side	145.8 x 103.25 x 1.93	5.74 x 4.065 x 0.076	6 EXT	GRY
381489R3X	306701B	Friction - 1 side	145.8 x 103.25 x 1.93	5.74 x 4.065 x 0.076	6 EXT	GRY

# ALTO HEAVY DUTY CATALOG

## J.I. CASE / I.H.C. / DRESSER IND.

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
381490R-1HD	306704A	Friction	135.08 x 95.02 x 2.54	5.318 x 3.741 x 0.1	51 INT	GRY
381490R1HD	306704A	Friction	135.08 x 95.02 x 2.54	5.318 x 3.741 x 0.1	51 INT	GRY
381490R-4	306704	Friction	135.08 x 95.02 x 2.54	5.318 x 3.741 x 0.1	51 INT	TAN
381490R4	306704	Friction	135.08 x 95.02 x 2.54	5.318 x 3.741 x 0.1	51 INT	TAN
381490R-4X	306704B	Friction - 1 side	135.08 x 95.02 x 1.91	5.318 x 3.741 x 0.075	51 INT	GRY
381490R4X	306704B	Friction - 1 side	135.08 x 95.02 x 1.91	5.318 x 3.741 x 0.075	51 INT	GRY
381-922-539C1	306711	Steel	181.08 x 85.83 x 1.7	7.129 x 3.379 x 0.067	85 EXT	
381922539C1	306711	Steel	181.08 x 85.83 x 1.7	7.129 x 3.379 x 0.067	85 EXT	
381-922-541C1	306710R	Friction	166.98 x 78.74 x 1.8	6.574 x 3.1 x 0.071	32 INT	RED
381922541C1	306710R	Friction	166.98 x 78.74 x 1.8	6.574 x 3.1 x 0.071	32 INT	RED
381-922-549C1	306713	Steel	181.08 x 112.78 x 1.7	7.129 x 4.44 x 0.067	85 EXT	
381922549C1	306713	Steel	181.08 x 112.78 x 1.7	7.129 x 4.44 x 0.067	85 EXT	
464-430-8328	329709-150	Steel (Mates with 329708)	171.15 x 103.07 x 2.46	6.738 x 4.058 x 0.097	35 INT	
4644308328	329709-150	Steel (Mates with 329708)	171.15 x 103.07 x 2.46	6.738 x 4.058 x 0.097	35 INT	
615559C1	352704-388	Friction	253.59 x 187.81 x 3.91	9.984 x 7.394 x 0.154	60 INT	
615840C1	056712	Friction	371.7 x 302.95 x 5.21	14.634 x 11.927 x 0.205	73 INT	BLK
615911C1	352702-520	Friction	371.68 x 302.74 x 5.23	14.633 x 11.919 x 0.206	72 INT	BLK
625615C1	352704A388	Friction	253.64 x 187.81 x 3.91	9.986 x 7.394 x 0.154	60 INT	BLK
627306C1	306722-280	Friction	165.05 x 50.8 x 2.79	6.498 x 2 x 0.11	17 INT	
630281C1	332711-228	Steel	203.23 x 138.4 x 2.29	8.001 x 5.449 x 0.09	56 INT	
630515C1	023712BR295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	
630516C1	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	
630516C2	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	
634534C1	049700A150	Friction	133.35 x 92.79 x 1.5	5.25 x 3.653 x 0.059	45 INT	
634535C1	307702-250	Friction	168.58 x 119.43 x 2.54	6.637 x 4.702 x 0.1	29 INT	
658354C2	306744	Friction	266.45 x 186.94 x 2.79	10.49 x 7.36 x 0.11	45 INT	
659592C-1	306745	Steel	276.02 x 200.58 x 2.24	10.867 x 7.897 x 0.088	54 EXT	
659592C1	306745	Steel	276.02 x 200.58 x 2.24	10.867 x 7.897 x 0.088	54 EXT	
676833R-1	306717-250	Steel	274.7 x 178.82 x 2.26	10.815 x 7.04 x 0.089	9 EXT	
676833R1	306717-250	Steel	274.7 x 178.82 x 2.26	10.815 x 7.04 x 0.089	9 EXT	
702959C1	049700BR	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	BRZ
702962C1	307703-210	Steel	180.21 x 129.57 x 2.11	7.095 x 5.101 x 0.083	8 EXT	
70977C-2	049720-200	Friction	133.35 x 92.79 x 2.08	5.25 x 3.653 x 0.082	45 INT	GRY
70977C2	049720-200	Friction	133.35 x 92.79 x 2.08	5.25 x 3.653 x 0.082	45 INT	GRY
716719C-1	306719-120	Steel	143.81 x 100.13 x 1.22	5.662 x 3.942 x 0.048	28 EXT	
716719C1	306719-120	Steel	143.81 x 100.13 x 1.22	5.662 x 3.942 x 0.048	28 EXT	
850802C1	049720	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	GRY
897279R1	179743	Steel	209.55 x 157.48 x 2.36	8.25 x 6.2 x 0.093	8 EXT	
922541C1	306710R	Friction	166.98 x 78.74 x 1.8	6.574 x 3.1 x 0.071	32 INT	RED
922551C1	306712R	Friction	167.18 x 104.83 x 1.8	6.582 x 4.127 x 0.071	34 INT	RED
924109C1	306721A308	Steel	243.92 x 172.39 x 3.07	9.603 x 6.787 x 0.121	8 EXT	
92934C2	306733	Steel	157.96 x 107.19 x 1.22	6.219 x 4.22 x 0.048	6 EXT	
92935C5	306734	Friction	141.1 x 98.68 x 1.98	5.555 x 3.885 x 0.078	48 INT	GRY
A175072	310726A250	Friction	127.25 x 82.19 x 2.54	5.01 x 3.236 x 0.1	40 INT	GRY
A17920	023712-260	Friction	148.59 x 107.72 x 2.59	5.85 x 4.241 x 0.102	52 INT	TAN
A17921	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
A17921	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	
A188946	310726A250	Friction	127.25 x 82.19 x 2.54	5.01 x 3.236 x 0.1	40 INT	GRY
A41005	306709-155	Steel	142.62 x 99.14 x 1.6	5.615 x 3.903 x 0.063	8 EXT	
A41005X	306709	Steel	142.62 x 99.14 x 1.65	5.615 x 3.903 x 0.065	8 EXT	



# ALTO HEAVY DUTY CATALOG

## J.I. CASE / I.H.C. / DRESSER IND.

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
A41355	049700BR	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	BRZ
A41355	106707	Steel	172.85 x 140.18 x 2.01	6.805 x 5.519 x 0.079	11 EXT	
A52252	306703-300	Steel	238.02 x 120.55 x 3.05	9.371 x 4.746 x 0.12		
A52253	306702-467	Friction	202.95 x 57.15 x 4.7	7.99 x 2.25 x 0.185	19 INT	BRZ
A52393	306702-467	Friction	202.95 x 57.15 x 4.7	7.99 x 2.25 x 0.185	19 INT	BRZ
A64525	310726A250	Friction	127.25 x 82.19 x 2.54	5.01 x 3.236 x 0.1	40 INT	GRY
D106118	023712BR260	Friction	148.59 x 107.72 x 2.62	5.85 x 4.241 x 0.103	52 INT	BRZ
D50040	023738BR	Friction	190.6 x 147.17 x 2.92	7.504 x 5.794 x 0.115	59 INT	
D50041	023739	Steel	214.83 x 155.58 x 1.75	8.458 x 6.125 x 0.069	3 EXT	
D50047	023767	Steel	134.34 x 73.74 x 1.85	5.289 x 2.903 x 0.073	8 INT	
D50082	049700BR	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	BRZ
D55252	023712BR260	Friction	148.59 x 107.72 x 2.62	5.85 x 4.241 x 0.103	52 INT	BRZ
D70672	049720	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	GRY
D77063	023712BR295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	
D80064	310716	Friction	165.07 x 74.3 x 3.99	6.499 x 2.925 x 0.157	19 INT	
D83009	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
E114383	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
E135005	329708	Friction	177.32 x 109.22 x 2.01	6.981 x 4.3 x 0.079	35 EXT	
E159987	023701-300	Steel	138.99 x 99.01 x 3	5.472 x 3.898 x 0.118	54 EXT	
E5992	049740-230	Friction	133.35 x 92.79 x 2.31	5.25 x 3.653 x 0.091	45 INT	GRY
E68704	049700BR235	Friction	133.35 x 92.79 x 2.36	5.25 x 3.653 x 0.093	45 INT	
G101711	306729-320	Steel	200.81 x 139.65 x 3.18	7.906 x 5.498 x 0.125	46 EXT	
G102354	306708-480	Friction	190.53 x 117.07 x 4.75	7.501 x 4.609 x 0.187	29 INT	
N7217	049700BR235	Friction	133.35 x 92.79 x 2.36	5.25 x 3.653 x 0.093	45 INT	
N7217	106707	Steel	172.85 x 140.18 x 2.01	6.805 x 5.519 x 0.079	11 EXT	
N-7217	049700BR235	Friction	133.35 x 92.79 x 2.36	5.25 x 3.653 x 0.093	45 INT	
N7219	023703	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
N7219	049700BR235	Friction	133.35 x 92.79 x 2.36	5.25 x 3.653 x 0.093	45 INT	
N-7219	049700BR235	Friction	133.35 x 92.79 x 2.36	5.25 x 3.653 x 0.093	45 INT	
NA	023703	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
NA	306714-310	Friction	189.38 x 142.04 x 3	7.456 x 5.592 x 0.118	88 EXT	BRN
PB7600-2	320712-518	Friction	660.04 x 492.61 x 5.08	25.986 x 19.394 x 0.2	166 INT	GRN
PB76002	320712-518	Friction	660.04 x 492.61 x 5.08	25.986 x 19.394 x 0.2	166 INT	GRN
PB7601-2	325707-240	Steel	680.92 x 509.6 x 2.41	26.808 x 20.063 x 0.095	226 EXT	
PB76012	325707-240	Steel	680.92 x 509.6 x 2.41	26.808 x 20.063 x 0.095	226 EXT	
PB7602-2	325708-690	Friction	680.92 x 509.6 x 6.91	26.808 x 20.063 x 0.272	208 EXT	BRN
PB76022	325708-690	Friction	680.92 x 509.6 x 6.91	26.808 x 20.063 x 0.272	208 EXT	BRN
S-73416	023738BR	Friction	190.6 x 147.17 x 2.92	7.504 x 5.794 x 0.115	59 INT	
S73416	023738BR	Friction	190.6 x 147.17 x 2.92	7.504 x 5.794 x 0.115	59 INT	
S73417	023739	Steel	214.83 x 155.58 x 1.75	8.458 x 6.125 x 0.069	3 EXT	
S73872	023712BR	Friction	148.59 x 107.72 x 1.52	5.85 x 4.241 x 0.06	52 INT	
S73873	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
S73873	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	
S84075	023738BR	Friction	190.6 x 147.17 x 2.92	7.504 x 5.794 x 0.115	59 INT	
S94326	023712BR295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	
S-94326	023712BR260	Friction	148.59 x 107.72 x 2.62	5.85 x 4.241 x 0.103	52 INT	BRZ

## JCB

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
38389	049700BR	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	BRZ

# ALTO HEAVY DUTY CATALOG

**JCB**

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
04500207	023739	Steel	214.83 x 155.58 x 1.75	8.458 x 6.125 x 0.069	3 EXT	
04500231	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
44503205	049700	Friction	133.35 x 92.79 x 1.57	5.25 x 3.653 x 0.062	45 INT	GRY
44512307	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
44700506	323702	Friction	128.27 x 87.91 x 2.54	5.05 x 3.461 x 0.1	57 INT	BRZ
04-500201	038105	Ring - Drive Gear				
4500201	038105	Ring - Drive Gear				
04-500204	023196	Thrust Washer				
4500204	023196	Thrust Washer				
04-500206	023738A	Friction	190.2 x 146.76 x 2.92	7.488 x 5.778 x 0.115	59 INT	GRY
4500206	023738A	Friction	190.2 x 146.76 x 2.92	7.488 x 5.778 x 0.115	59 INT	GRY
04-500206	023738BR	Friction	190.6 x 147.17 x 2.92	7.504 x 5.794 x 0.115	59 INT	
4500206	023738BR	Friction	190.6 x 147.17 x 2.92	7.504 x 5.794 x 0.115	59 INT	
04-500207	023739	Steel	214.83 x 155.58 x 1.75	8.458 x 6.125 x 0.069	3 EXT	
4500207	023739	Steel	214.83 x 155.58 x 1.75	8.458 x 6.125 x 0.069	3 EXT	
04-500208	023276	Spring - Reverse Pressure Plate				
4500208	023276	Spring - Reverse Pressure Plate				
04-50021A	023002	Seal - Front Pump				
0450021A	023002	Seal - Front Pump				
04-500229	023761	Steel - Pressure Plate	138.99 x 99.01 x 8.76	5.472 x 3.898 x 0.345	54 EXT	
4500229	023761	Steel - Pressure Plate	138.99 x 99.01 x 8.76	5.472 x 3.898 x 0.345	54 EXT	
04-500229	023761	Steel	138.99 x 99.01 x 8.76	5.472 x 3.898 x 0.345	54 EXT	
4500229	023761	Steel	138.99 x 99.01 x 8.76	5.472 x 3.898 x 0.345	54 EXT	
04-500230	049700	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	GRY
04-500230	049720	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	GRY
4500230	049720	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	GRY
04-500231	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
4500231	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
04-500231	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
4500231	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
04-500213	023020	Gasket - Forward/Reverse	#N/A	#N/A	#N/A	
4500213	023020	Gasket - Forward/Reverse	#N/A	#N/A	#N/A	
04-500231	023703	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
4500231	023703	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
04-500233	023760	Steel - Pressure Plate	138.99 x 98.27 x 0.81	5.472 x 3.869 x 0.322	54 EXT	
4500233	023760	Steel - Pressure Plate	138.99 x 98.27 x 0.81	5.472 x 3.869 x 0.322	54 EXT	
04-500235	023767	Steel	134.34 x 73.74 x 1.85	5.289 x 2.903 x 0.073	8 INT	
4500235	023767	Steel	134.34 x 73.74 x 1.85	5.289 x 2.903 x 0.073	8 INT	
04-500237A	023054A	Seal - Forawrd Outer				
04500237A	023054A	Seal - Forawrd Outer				
04-500241	023252	Snap Ring - Reverse Gear				
4500241	023252	Snap Ring - Reverse Gear				
04-500242	023188	Thrust Washer				
4500242	023188	Thrust Washer				
04-500243	023187	Thrust Washer				
4500243	023187	Thrust Washer				
04-500274	023022	Gasket - Valve Cover				
4500274	023022	Gasket - Valve Cover				
04-800278	329706	Friction	137.29 x 91.24 x 2.01	5.405 x 3.592 x 0.079	27 EXT	
4800278	329706	Friction	137.29 x 91.24 x 2.01	5.405 x 3.592 x 0.079	27 EXT	

# ALTO HEAVY DUTY CATALOG

**JCB**

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
04-800280	329707-200	Steel	131.19 x 85.24 x 2.01	5.165 x 3.356 x 0.079	29 INT	
4800280	329707-200	Steel	131.19 x 85.24 x 2.01	5.165 x 3.356 x 0.079	29 INT	
04-800746	329706	Friction	137.29 x 91.24 x 2.01	5.405 x 3.592 x 0.079	27 EXT	
4800746	329706	Friction	137.29 x 91.24 x 2.01	5.405 x 3.592 x 0.079	27 EXT	
2401-0020	010210A	O-Ring				
24010020	010210A	O-Ring				
331-16516	324703-200	Steel	147.14 x 99.49 x 2.01	5.793 x 3.917 x 0.079	57 EXT	
33116516	324703-200	Steel	147.14 x 99.49 x 2.01	5.793 x 3.917 x 0.079	57 EXT	
331-16519	324707-120	Steel	147.14 x 99.49 x 1.19	5.793 x 3.917 x 0.047	57 EXT	
33116519	324707-120	Steel	147.14 x 99.49 x 1.19	5.793 x 3.917 x 0.047	57 EXT	
331-16520	324702-240	Friction	140.21 x 92.84 x 2.41	5.52 x 3.655 x 0.095	45 INT	TAN
33116520	324702-240	Friction	140.21 x 92.84 x 2.41	5.52 x 3.655 x 0.095	45 INT	TAN
445-03205	049700	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	GRY
445-03205	049700BR	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	BRZ
445-03205	049720	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	GRY
44503205	049720	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	GRY
445-03206	023751A	Steel	150.95 x 98.76 x 1.8	5.943 x 3.888 x 0.071	6 EXT	
445-05107	023763-150	Steel	111.02 x 66.73 x 1.47	4.371 x 2.627 x 0.058	6 EXT	
44505107	023763-150	Steel	111.02 x 66.73 x 1.47	4.371 x 2.627 x 0.058	6 EXT	
449-10602	023762-600	Steel	138.76 x 98.15 x 5.97	5.463 x 3.864 x 0.235	18 EXT	
44910602	023762-600	Steel	138.76 x 98.15 x 5.97	5.463 x 3.864 x 0.235	18 EXT	
445-12315	023762-600	Steel	138.76 x 98.15 x 5.97	5.463 x 3.864 x 0.235	18 EXT	
445-12301	023762-600	Steel	138.76 x 98.15 x 5.97	5.463 x 3.864 x 0.235	18 EXT	
445-12314	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
44512314	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
445-12314	023701-120	Steel	138.99 x 99.01 x 1.19	5.472 x 3.898 x 0.047	54 EXT	
44512314	023701-120	Steel	138.99 x 99.01 x 1.19	5.472 x 3.898 x 0.047	54 EXT	
445-30011	049740-230	Friction	133.35 x 92.79 x 2.31	5.25 x 3.653 x 0.091	45 INT	GRY
44530011	049740-230	Friction	133.35 x 92.79 x 2.31	5.25 x 3.653 x 0.091	45 INT	GRY
445-30011	049740B230	Friction	133.35 x 92.79 x 2.31	5.25 x 3.653 x 0.091	45 INT	GRY
44530011	049740B230	Friction	133.35 x 92.79 x 2.31	5.25 x 3.653 x 0.091	45 INT	GRY
447-00506	323702	Friction	128.27 x 87.91 x 2.54	5.05 x 3.461 x 0.1	57 INT	BRZ
44700506	323702	Friction	128.27 x 87.91 x 2.54	5.05 x 3.461 x 0.1	57 INT	BRZ
450-10224	324700A385	Friction - 8 Holes	221.95 x 49.61 x 3.89	8.738 x 1.953 x 0.153	15 INT	TAN
45010224	324700A385	Friction - 8 Holes	221.95 x 49.61 x 3.89	8.738 x 1.953 x 0.153	15 INT	TAN
450-10224	324700A385	Friction	221.95 x 49.61 x 3.89	8.738 x 1.953 x 0.153	15 INT	TAN
45010224	324700A385	Friction	221.95 x 49.61 x 3.89	8.738 x 1.953 x 0.153	15 INT	TAN
450-10226	324701-385	Steel	238.02 x 140.08 x 3.84	9.371 x 5.515 x 0.151	3 EXT	
45010226	324701-385	Steel	238.02 x 140.08 x 3.84	9.371 x 5.515 x 0.151	3 EXT	
453-15301	324705-378	Steel	240.26 x 130.05 x 3.81	9.459 x 5.12 x 0.15	9 EXT	
45315301	324705-378	Steel	240.26 x 130.05 x 3.81	9.459 x 5.12 x 0.15	9 EXT	
458-20353	324700A385	Friction - 8 Holes	221.95 x 49.61 x 3.89	8.738 x 1.953 x 0.153	15 INT	TAN
45820353	324700A385	Friction - 8 Holes	221.95 x 49.61 x 3.89	8.738 x 1.953 x 0.153	15 INT	TAN
814-00207	023767	Steel	134.34 x 73.74 x 1.85	5.289 x 2.903 x 0.073	8 INT	
81400207	023767	Steel	134.34 x 73.74 x 1.85	5.289 x 2.903 x 0.073	8 INT	
AR108105	049700	Friction	133.35 x 92.79 x 1.57	5.25 x 3.653 x 0.062	45 INT	GRY
NA	023812	T72 Overhaul Kit contains Rubber Seals, Metal Clad Seals and Orings				
T44804	330716-290	Friction	164.13 x 89.05 x 2.95	6.462 x 3.506 x 0.116	76 EXT	

# ALTO HEAVY DUTY CATALOG

## JOHN DEERE

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
3955538	311711	Steel	209.32 x 114.3 x 2.62	8.241 x 4.5 x 0.103	1 EXT	
5162231	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	
84565601	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	
1120761003	306732-485	Friction	201.17 x 40.39 x 4.88	7.92 x 1.59 x 0.192	16 INT	TAN
1244205H1	023712BR260	Friction	148.59 x 107.72 x 2.62	5.85 x 4.241 x 0.103	52 INT	BRZ
1686359M1	323702	Friction	128.27 x 87.91 x 2.54	5.05 x 3.461 x 0.1	57 INT	BRZ
1870860M1	033711A	Steel	144.2 x 94.49 x 1.4	5.677 x 3.72 x 0.055	33 EXT	
2527328M1	049700BR	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	BRZ
2757328M1	049700BR	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	BRZ
2757328M1	106707	Steel	172.85 x 140.18 x 2.01	6.805 x 5.519 x 0.079	11 EXT	
533326M2	323702	Friction	128.27 x 87.91 x 2.54	5.05 x 3.461 x 0.1	57 INT	BRZ
541276M1	323702	Friction	128.27 x 87.91 x 2.54	5.05 x 3.461 x 0.1	57 INT	BRZ
AL160564	149704-381	Friction	320.8 x 266.34 x 3.76	12.63 x 10.486 x 0.148	75 BASE 77 INT	BRN
AL160565	149705-246	Steel	352.35 x 279.2 x 2.46	13.872 x 10.992 x 0.097	24 EXT	
AL160566	149706-381	Friction	320.98 x 266.37 x 3.76	12.637 x 10.487 x 0.148	78 INT	BRN
AL160567	149707-251	Steel	352.43 x 279.12 x 2.46	13.875 x 10.989 x 0.097	56 EXT	
AL160575	149700-322	Friction	203.99 x 132.16 x 3.2	8.031 x 5.203 x 0.126	36 EXT	BRN
AL160576	149701-246	Steel	190.09 x 117.86 x 2.46	7.484 x 4.64 x 0.097	48 INT	
AL160577	149703-249	Steel	328.09 x 255.19 x 2.49	12.917 x 10.047 x 0.098	56 EXT	
AL160578	149702-322	Friction	314.15 x 245.31 x 3.2	12.368 x 9.658 x 0.126	97 INT	BRN
AL38240	049700	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	GRY
AR108105	049700	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	GRY
AR-108105	049700-250	Friction	133.35 x 92.79 x 2.49	5.25 x 3.653 x 0.098	45 INT	TAN
AR39128	049700BR	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	BRZ
AR71561	049700-180	Friction	133.35 x 92.79 x 1.8	5.25 x 3.653 x 0.071	45 INT	
AT100837	023738BR	Friction	190.6 x 147.17 x 2.92	7.504 x 5.794 x 0.115	59 INT	
AT101001	049700	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	GRY
AT26632	049700	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	GRY
AT339922	313720-160	Friction	109.63 x 68.53 x 1.63	4.316 x 2.698 x 0.064	34 INT	GRY
C8AP7B442A	023703	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
CE20586	319733-375	Steel	146 x 100.99 x 3.76	5.748 x 3.976 x 0.148	8 EXT	
M3293T	313704-400	Friction	216.03 x 125.35 x 3.94	8.505 x 4.935 x 0.155	26 INT	
M-872T	313713	Steel	235.59 x 161.98 x 2.21	9.275 x 6.377 x 0.087	6 EXT	
M872T	313713	Steel	235.59 x 161.98 x 2.21	9.275 x 6.377 x 0.087	6 EXT	
Not Available	314701-190	Steel	177.09 x 131.9 x 1.93	6.972 x 5.193 x 0.076	69 EXT	
P77573A1	023703	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
R-31404-R	319710	Friction	177.62 x 112.78 x 2.92	6.993 x 4.44 x 0.115	54 INT	
R31404R	319710	Friction	177.62 x 112.78 x 2.92	6.993 x 4.44 x 0.115	54 INT	
R39259	313719-157	Steel	142.24 x 99.34 x 1.57	5.6 x 3.911 x 0.062	6 EXT	
RE29815	319734-230	Friction	197.18 x 0 x 2.29	7.763 x 0 x 0.09	6 EXT	
RE29816	049700-180	Friction	133.35 x 92.79 x 1.8	5.25 x 3.653 x 0.071	45 INT	
RE37011	049700	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	GRY
T100680	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
T100681	023739	Steel	214.83 x 155.58 x 1.75	8.458 x 6.125 x 0.069	3 EXT	
T101003	023761	Steel	138.99 x 99.01 x 8.76	5.472 x 3.898 x 0.345	54 EXT	
T101004	023760	Steel	138.99 x 98.27 x 0.81	5.472 x 3.869 x 0.322	54 EXT	
T101005	023767	Steel	134.34 x 73.74 x 1.85	5.289 x 2.903 x 0.073	8 INT	
T116387	329706	Friction	137.29 x 91.24 x 2.01	5.405 x 3.592 x 0.079	27 EXT	
T116586	329707-200	Steel	131.19 x 85.24 x 2.01	5.165 x 3.356 x 0.079	29 INT	
T122806	329708	Friction	177.32 x 109.22 x 2.01	6.981 x 4.3 x 0.079	35 EXT	

# ALTO HEAVY DUTY CATALOG

## JOHN DEERE

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
T140926	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
T-140926	023701A	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	51 EXT	
T-14339	313715	Steel	275.82 x 177.9 x 2.64	10.859 x 7.004 x 0.104	6 EXT	
T14339	313715	Steel	275.82 x 177.9 x 2.64	10.859 x 7.004 x 0.104	6 EXT	
T15801	332704	Friction	164.24 x 103.81 x 2.87	6.466 x 4.087 x 0.113	76 EXT	
T-20716	313708-490	Friction	276.83 x 188.47 x 4.9	10.899 x 7.42 x 0.193	38 INT	
T20716	313708-490	Friction	276.83 x 188.47 x 4.9	10.899 x 7.42 x 0.193	38 INT	
T-20790	313702-450	Friction	227.89 x 147.98 x 4.5	8.972 x 5.826 x 0.177	30 INT	
T20790	313702-450	Friction	227.89 x 147.98 x 4.5	8.972 x 5.826 x 0.177	30 INT	
T-211817	313714-480	Friction	274.45 x 188.34 x 4.75	10.805 x 7.415 x 0.187	38 INT	BLK
T211817	313714-480	Friction	274.45 x 188.34 x 4.75	10.805 x 7.415 x 0.187	38 INT	BLK
T-21315	313701	Steel	245.9 x 174.96 x 2.41	9.681 x 6.888 x 0.095	6 EXT	
T21315	313701	Steel	245.9 x 174.96 x 2.41	9.681 x 6.888 x 0.095	6 EXT	
T-31732	313711	Steel	301.24 x 206.45 x 2.62	11.86 x 8.128 x 0.103	6 EXT	
T31732	313711	Steel	301.24 x 206.45 x 2.62	11.86 x 8.128 x 0.103	6 EXT	
T-44128	313712-450	Friction	226.82 x 147.83 x 4.5	8.93 x 5.82 x 0.177	30 INT	
T44128	313712-450	Friction	226.82 x 147.83 x 4.5	8.93 x 5.82 x 0.177	30 INT	
T-44129	313710-475	Friction	204.72 x 53.52 x 4.8	8.06 x 2.107 x 0.189	22 INT	
T44129	313710-475	Friction	204.72 x 53.52 x 4.8	8.06 x 2.107 x 0.189	22 INT	
T44804	330717-150	Steel	151.94 x 81.69 x 1.52	5.982 x 3.216 x 0.06	40 INT	
T-44804	330717-150	Steel	151.94 x 81.69 x 1.52	5.982 x 3.216 x 0.06	40 INT	
T44805	332704	Friction	164.24 x 103.81 x 2.87	6.466 x 4.087 x 0.113	76 EXT	
T-44805	332704	Friction	164.24 x 103.81 x 2.87	6.466 x 4.087 x 0.113	76 EXT	
T67544	352704-388	Friction	253.59 x 187.81 x 3.91	9.984 x 7.394 x 0.154	60 INT	
T-82355	313714-480	Friction	274.45 x 188.34 x 4.75	10.805 x 7.415 x 0.187	38 INT	BLK
T82355	313714-480	Friction	274.45 x 188.34 x 4.75	10.805 x 7.415 x 0.187	38 INT	BLK
YZ100952	313721-307	Friction	209.35 x 138.43 x 3.07	8.242 x 5.45 x 0.121	8 INT	
YZ106-060	314700A280	Friction	169.67 x 124.69 x 2.79	6.68 x 4.909 x 0.11	60 INT	TAN
YZ106060	314700A280	Friction	169.67 x 124.69 x 2.79	6.68 x 4.909 x 0.11	60 INT	TAN

## JOHN DEERE BRAKE

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
AT-179503	313762	Friction - Brake	231.9 x 42.93 x 5.79	9.13 x 1.69 x 0.228	12 INT	
AT179503	313762	Friction - Brake	231.9 x 42.93 x 5.79	9.13 x 1.69 x 0.228	12 INT	
R-110464	099722K	Friction Brake Pad 7" Kevlar Also fits 50 Series Tractors				KEV
R110464	099722K	Friction Brake Pad 7" Kevlar Also fits 50 Series Tractors				KEV
R-111122	099720K	Friction - Brake	331.01 x 0 x 3.2	13.032 x 0 x 0.126		GRN
R111122	099720K	Friction - Brake	331.01 x 0 x 3.2	13.032 x 0 x 0.126		GRN
R-90090	099724K	Friction Brake Pad 7 1/4" Kevlar Also fits 50 Series Tractors	342.9 x 0 x 3.33	13.5 x 0 x 0.131		GRY
R90090	099724K	Friction Brake Pad 7 1/4" Kevlar Also fits 50 Series Tractors	342.9 x 0 x 3.33	13.5 x 0 x 0.131		GRY

# ALTO HEAVY DUTY CATALOG

## JOHN DEERE DIFFERENTIAL

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
KIT	319750	MODULE, FRICTION & STEEL Contains: 3 319730-325, 2-319731-300, 1-319731A300				
N L	319730-325	Friction	228.55 x 146.35 x 3.25	8.998 x 5.762 x 0.128	42 INT	TAN
R-34857	319731A300	Steel	252.07 x 157.18 x 3.05	9.924 x 6.188 x 0.12	12 EXT	
R34857	319731A300	Steel	252.07 x 157.18 x 3.05	9.924 x 6.188 x 0.12	12 EXT	
R-34858	319731-300	Steel	255.52 x 157.18 x 3.05	10.06 x 6.188 x 0.12	9 EXT	
R34858	319731-300	Steel	255.52 x 157.18 x 3.05	10.06 x 6.188 x 0.12	9 EXT	

## JOHN DEERE POWERSHIFT

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
AR-40896	319714-330	Friction	323.32 x 262.86 x 3.3	12.729 x 10.349 x 0.13	104 INT	GRY
AR40896	319714-330	Friction	323.32 x 262.86 x 3.3	12.729 x 10.349 x 0.13	104 INT	GRY
AR-68345	319714-330	Friction	323.32 x 262.86 x 3.3	12.729 x 10.349 x 0.13	104 INT	GRY
AR68345	319714-330	Friction	323.32 x 262.86 x 3.3	12.729 x 10.349 x 0.13	104 INT	GRY
AR-94515	319714-330	Friction	323.32 x 262.86 x 3.3	12.729 x 10.349 x 0.13	104 INT	GRY
AR94515	319714-330	Friction	323.32 x 262.86 x 3.3	12.729 x 10.349 x 0.13	104 INT	GRY
AR-94516	319700	Friction	177.8 x 112.78 x 2.92	7 x 4.44 x 0.115	54 INT	GRY
AR94516	319700	Friction	177.8 x 112.78 x 2.92	7 x 4.44 x 0.115	54 INT	GRY
AR-94517	319702	Friction	197.36 x 130.43 x 3.3	7.77 x 5.135 x 0.13	42 INT	GRN
AR94517	319702	Friction	197.36 x 130.43 x 3.3	7.77 x 5.135 x 0.13	42 INT	GRN
AT-179473	313716-160	Friction	119.74 x 79.04 x 1.6	4.714 x 3.112 x 0.063	40 INT	GRY
AT179473	313716-160	Friction	119.74 x 79.04 x 1.6	4.714 x 3.112 x 0.063	40 INT	GRY
R-46391	319701	Steel	195.07 x 120.65 x 3.05	7.68 x 4.75 x 0.12	6 EXT	
R46391	319701	Steel	195.07 x 120.65 x 3.05	7.68 x 4.75 x 0.12	6 EXT	
R-46416	319715-310	Steel	345.19 x 269.32 x 3.07	13.59 x 10.603 x 0.121	4 EXT	
R46416	319715-310	Steel	345.19 x 269.32 x 3.07	13.59 x 10.603 x 0.121	4 EXT	
R-46418	319703	Steel	216.84 x 138.02 x 2.97	8.537 x 5.434 x 0.117	6 EXT	
R46418	319703	Steel	216.84 x 138.02 x 2.97	8.537 x 5.434 x 0.117	6 EXT	
R-48236	319705-300	Steel	307.57 x 246.58 x 3.05	12.109 x 9.708 x 0.12	4 EXT	
R48236	319705-300	Steel	307.57 x 246.58 x 3.05	12.109 x 9.708 x 0.12	4 EXT	
R-56547	319701A310	Steel	178.61 x 120.65 x 3.05	7.032 x 4.75 x 0.12	6 EXT	
R56547	319701A310	Steel	178.61 x 120.65 x 3.05	7.032 x 4.75 x 0.12	6 EXT	
R-77671	319709-200	Steel	196.6 x 120.93 x 1.98	7.74 x 4.761 x 0.078	6 EXT	
R77671	319709-200	Steel	196.6 x 120.93 x 1.98	7.74 x 4.761 x 0.078	6 EXT	
R-86308	319711-300	Steel	355.85 x 268.99 x 3.07	14.01 x 10.59 x 0.121	8 EXT	
R86308	319711-300	Steel	355.85 x 268.99 x 3.07	14.01 x 10.59 x 0.121	8 EXT	
RE-17162	319704-300	Friction	295.25 x 239.8 x 3.05	11.624 x 9.441 x 0.12	94 INT	GRY
RE17162	319704-300	Friction	295.25 x 239.8 x 3.05	11.624 x 9.441 x 0.12	94 INT	GRY
RE-27995	319710	Friction	177.62 x 112.78 x 2.92	6.993 x 4.44 x 0.115	54 INT	
RE27995	319710	Friction	177.62 x 112.78 x 2.92	6.993 x 4.44 x 0.115	54 INT	
RE-28023	319712	Friction	197.36 x 130.43 x 3.3	7.77 x 5.135 x 0.13	42 INT	
RE28023	319712	Friction	197.36 x 130.43 x 3.3	7.77 x 5.135 x 0.13	42 INT	
RE-29816	049720B186	Friction - Fits 50,55,60 Mid 80 - 90 - 2 teeth removed	133.35 x 92.79 x 1.85	5.25 x 3.653 x 0.073	45 INT	GRY
RE29816	049720B186	Friction - Fits 50,55,60 Mid 80 - 90 - 2 teeth removed	133.35 x 92.79 x 1.85	5.25 x 3.653 x 0.073	45 INT	GRY
RE-35517	319708-330	Friction	234.75 x 187.12 x 3.33	9.242 x 7.367 x 0.131	88 EXT	GRY
RE35517	319708-330	Friction	234.75 x 187.12 x 3.33	9.242 x 7.367 x 0.131	88 EXT	GRY
RE-62897	319714-330	Friction	323.32 x 262.86 x 3.3	12.729 x 10.349 x 0.13	104 INT	GRY
RE62897	319714-330	Friction	323.32 x 262.86 x 3.3	12.729 x 10.349 x 0.13	104 INT	GRY

# ALTO HEAVY DUTY CATALOG

## JOHN DEERE POWERSHIFT

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
T-158801	313717-180	Steel	130.91 x 86.79 x 1.8	5.154 x 3.417 x 0.071	30 EXT	
T158801	313717-180	Steel	130.91 x 86.79 x 1.8	5.154 x 3.417 x 0.071	30 EXT	

## JOHN DEERE PTO

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
AR-108105	319722G	Friction	133.35 x 92.79 x 2.49	5.25 x 3.653 x 0.098	45 INT	GRY
AR108105	319722G	Friction	133.35 x 92.79 x 2.49	5.25 x 3.653 x 0.098	45 INT	GRY
R-61066	319723-560	Steel	361.77 x 176.28 x 5.05	14.243 x 6.94 x 0.199	3 EXT	
R61066	319723-560	Steel	361.77 x 176.28 x 5.05	14.243 x 6.94 x 0.199	3 EXT	
RE-234264	319724A350	Friction - 22 Holes	305.71 x 149.35 x 3.73	12.036 x 5.88 x 0.147	48 INT	GRY
RE234264	319724A350	Friction - 22 Holes	305.71 x 149.35 x 3.73	12.036 x 5.88 x 0.147	48 INT	GRY
RE-37011	319720	Friction	133.35 x 92.79 x 1.6	5.25 x 3.653 x 0.063	45 INT	
RE37011	319720	Friction	133.35 x 92.79 x 1.6	5.25 x 3.653 x 0.063	45 INT	
T-28664	319721	Steel	142.62 x 99.11 x 2.26	5.615 x 3.902 x 0.089	10 EXT	
T28664	319721	Steel	142.62 x 99.11 x 2.26	5.615 x 3.902 x 0.089	10 EXT	

## JOHN DEERE SYNCHRO

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
AR-27727	321701	Steel - Rev/Low/High	104.72 x 71.5 x 1.19	4.123 x 2.815 x 0.047	4 INT	
AR27727	321701	Steel - Rev/Low/High	104.72 x 71.5 x 1.19	4.123 x 2.815 x 0.047	4 INT	
AR-44997	321700	Friction - Rev/Low/High	115.01 x 82.52 x 2.01	4.528 x 3.249 x 0.079	6 EXT	TAN
AR44997	321700	Friction - Rev/Low/High	115.01 x 82.52 x 2.01	4.528 x 3.249 x 0.079	6 EXT	TAN
AR-69154	321700	Friction - Rev/Low/High	115.01 x 82.52 x 2.01	4.528 x 3.249 x 0.079	6 EXT	TAN
AR69154	321700	Friction - Rev/Low/High	115.01 x 82.52 x 2.01	4.528 x 3.249 x 0.079	6 EXT	TAN
RE-37119	321750	KIT, SYNCHRO (REVERSE, LOW, HIGH) NOTE: 3 KITS/FULL SYNCHRO Contains: 3-321700, 2-321701				
RE37119	321750	KIT, SYNCHRO (REVERSE, LOW, HIGH) NOTE: 3 KITS/FULL SYNCHRO Contains: 3-321700, 2-321701				
T-158801	313717-180	Steel	130.91 x 86.79 x 1.8	5.154 x 3.417 x 0.071	30 EXT	
T158801	313717-180	Steel	130.91 x 86.79 x 1.8	5.154 x 3.417 x 0.071	30 EXT	

## JUNGHEINRICH

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline
8693980	329707-200	Steel	131.19 x 85.24 x 2.01	5.165 x 3.356 x 0.079	29 INT
8696495	329708	Friction	177.32 x 109.22 x 2.01	6.981 x 4.3 x 0.079	35 EXT
8701945	329706	Friction	137.29 x 91.24 x 2.01	5.405 x 3.592 x 0.079	27 EXT

## K.H.D

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
113667	323702	Friction	128.27 x 87.91 x 2.54	5.05 x 3.461 x 0.1	57 INT	BRZ
920624	023712BR295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	
920821001	308701	Steel	205.59 x 145.47 x 1.65	8.094 x 5.727 x 0.065	64 EXT	

# ALTO HEAVY DUTY CATALOG

## KALMAR / CLIMAX

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
119251	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
920624	023712BR260	Friction	148.59 x 107.72 x 2.62	5.85 x 4.241 x 0.103	52 INT	BRZ
920821.001	308700A	Friction Clutch	196.34 x 137.92 x 2.79	7.73 x 5.43 x 0.11	44 INT	
920821.001	308701	Steel	205.59 x 145.47 x 1.65	8.094 x 5.727 x 0.065	64 EXT	
920821001	308701	Steel	205.59 x 145.47 x 1.65	8.094 x 5.727 x 0.065	64 EXT	
922369	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
922746	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	
923106.038	023712BR295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	
923109.037	310721-180	Steel	182.88 x 118.21 x 1.75	7.2 x 4.654 x 0.069	71 EXT	
923109.038	023712BR295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	
923468.043	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	
923468.043	310722	Friction	175.77 x 107.47 x 2.9	6.92 x 4.231 x 0.114	52 INT	BRN
920821001	308700A	Friction	196.34 x 137.92 x 2.79	7.73 x 5.43 x 0.11	44 INT	
923106038	023712BR295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	
923109037	310721-180	Steel	182.88 x 118.21 x 1.75	7.2 x 4.654 x 0.069	71 EXT	
923109038	023712BR295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	
923468043	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	
923468043	310722	Friction	175.77 x 107.47 x 2.9	6.92 x 4.231 x 0.114	52 INT	BRN
113-667	323702	Friction	128.27 x 87.91 x 2.54	5.05 x 3.461 x 0.1	57 INT	BRZ
113667	323702	Friction	128.27 x 87.91 x 2.54	5.05 x 3.461 x 0.1	57 INT	BRZ
119-251	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
119251	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	

## KATO

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline
3721220270	306713	Steel	181.08 x 112.78 x 1.7	7.129 x 4.44 x 0.067	85 EXT

## KAWASAKI

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
602894104	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
3721220270	306713	Steel	181.08 x 112.78 x 1.7	7.129 x 4.44 x 0.067	85 EXT	
37212-20270	306713	Steel	181.08 x 112.78 x 1.7	7.129 x 4.44 x 0.067	85 EXT	
3721320370	330702-250	Friction	155.7 x 87.86 x 2.54	6.13 x 3.459 x 0.1	37 INT	GRY
37213-20370	330702-250	Friction	155.7 x 87.86 x 2.54	6.13 x 3.459 x 0.1	37 INT	GRY
3721360400	334712	Friction	134.06 x 77.42 x 2.79	5.278 x 3.048 x 0.11	38 INT	GRY
37213-60400	334712	Friction	134.06 x 77.42 x 2.79	5.278 x 3.048 x 0.11	38 INT	GRY
3721360410	334712	Friction	134.06 x 77.42 x 2.79	5.278 x 3.048 x 0.11	38 INT	GRY
37213-60410	334712	Friction	134.06 x 77.42 x 2.79	5.278 x 3.048 x 0.11	38 INT	GRY
602894104	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
602894-104	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY

## KOEHRING

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
38758	352704A388	Friction	253.64 x 187.81 x 3.91	9.986 x 7.394 x 0.154	60 INT	BLK

## KOMATSU

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
72803	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	



# ALTO HEAVY DUTY CATALOG

## KOMATSU

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
3801763452	307703-210	Steel	180.21 x 129.57 x 2.11	7.095 x 5.101 x 0.083	8 EXT	
3819225491	306713	Steel	181.08 x 112.78 x 1.7	7.129 x 4.44 x 0.067	85 EXT	
120-22-31221	325705-260	Steel	287.02 x 214.78 x 2.57	11.3 x 8.456 x 0.101	74 INT	
1202231221	325705-260	Steel	287.02 x 214.78 x 2.57	11.3 x 8.456 x 0.101	74 INT	
130-22-11320	325713-260	Steel	349.91 x 237.57 x 2.59	13.776 x 9.353 x 0.102	81 INT	
1302211320	325713-260	Steel	349.91 x 237.57 x 2.59	13.776 x 9.353 x 0.102	81 INT	
232-25-51410	320718-380	Friction	399.31 x 309.5 x 3.81	15.721 x 12.185 x 0.15	105 INT	GRY
2322551410	320718-380	Friction	399.31 x 309.5 x 3.81	15.721 x 12.185 x 0.15	105 INT	GRY
232-25-51430	320719-230	Steel	419.94 x 324.56 x 2.31	16.533 x 12.778 x 0.091	138 EXT	
2322551430	320719-230	Steel	419.94 x 324.56 x 2.31	16.533 x 12.778 x 0.091	138 EXT	
232-25-51520	320719-230	Steel	419.94 x 324.56 x 2.31	16.533 x 12.778 x 0.091	138 EXT	
2322551520	320719-230	Steel	419.94 x 324.56 x 2.31	16.533 x 12.778 x 0.091	138 EXT	
234-25-31350	320718-380	Friction	399.31 x 309.5 x 3.81	15.721 x 12.185 x 0.15	105 INT	GRY
2342531350	320718-380	Friction	399.31 x 309.5 x 3.81	15.721 x 12.185 x 0.15	105 INT	GRY
235-25-11360	320718-380	Friction - Brake	399.31 x 309.5 x 3.81	15.721 x 12.185 x 0.15	105 INT	GRY
2352511360	320718-380	Friction - Brake	399.31 x 309.5 x 3.81	15.721 x 12.185 x 0.15	105 INT	GRY
235-25-51430	320719-230	Steel - Brake Disc mating plate	419.94 x 324.56 x 2.31	16.533 x 12.778 x 0.091	138 EXT	
2352551430	320719-230	Steel - Brake Disc mating plate	419.94 x 324.56 x 2.31	16.533 x 12.778 x 0.091	138 EXT	
23C-25-51331	320718-380	Friction	399.31 x 309.5 x 3.81	15.721 x 12.185 x 0.15	105 INT	GRY
23C2551331	320718-380	Friction	399.31 x 309.5 x 3.81	15.721 x 12.185 x 0.15	105 INT	GRY
324-15-12660	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
3241512660	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
324-15-12660	330700B300	Friction	124.64 x 68.83 x 3.05	4.907 x 2.71 x 0.12	41 INT	GRY
3241512660	330700B300	Friction	124.64 x 68.83 x 3.05	4.907 x 2.71 x 0.12	41 INT	GRY
34B-15-11340	330700B300	Friction	124.64 x 68.83 x 3.05	4.907 x 2.71 x 0.12	41 INT	GRY
34B1511340	330700B300	Friction	124.64 x 68.83 x 3.05	4.907 x 2.71 x 0.12	41 INT	GRY
34B-15-11360	079731-310	Steel	137.62 x 80.34 x 3.18	5.418 x 3.163 x 0.125	4 EXT	
34B1511360	079731-310	Steel	137.62 x 80.34 x 3.18	5.418 x 3.163 x 0.125	4 EXT	
34C-15-11350	325706-300	Friction	151.66 x 90.53 x 3.02	5.971 x 3.564 x 0.119	47 INT	
34C1511350	325706-300	Friction	151.66 x 90.53 x 3.02	5.971 x 3.564 x 0.119	47 INT	
34C-15-11360	325703	Steel	157.02 x 100.3 x 1.4	6.182 x 3.949 x 0.055	8 EXT	
34C1511360	325703	Steel	157.02 x 100.3 x 1.4	6.182 x 3.949 x 0.055	8 EXT	
380-176345-2	307703-210	Steel	180.21 x 129.57 x 2.11	7.095 x 5.101 x 0.083	8 EXT	
3801763452	307703-210	Steel	180.21 x 129.57 x 2.11	7.095 x 5.101 x 0.083	8 EXT	
381-299-549C1	306713	Steel	181.08 x 112.78 x 1.7	7.129 x 4.44 x 0.067	85 EXT	
381299549C1	306713	Steel	181.08 x 112.78 x 1.7	7.129 x 4.44 x 0.067	85 EXT	
381-922-539C1	306711	Steel	181.08 x 85.83 x 1.7	7.129 x 3.379 x 0.067	85 EXT	
381922539C1	306711	Steel	181.08 x 85.83 x 1.7	7.129 x 3.379 x 0.067	85 EXT	
381-922-541C1	306710R	Friction	166.98 x 78.74 x 1.8	6.574 x 3.1 x 0.071	32 INT	RED
381922541C1	306710R	Friction	166.98 x 78.74 x 1.8	6.574 x 3.1 x 0.071	32 INT	RED
381-922549-1	306713	Steel	181.08 x 112.78 x 1.7	7.129 x 4.44 x 0.067	85 EXT	
3819225491	306713	Steel	181.08 x 112.78 x 1.7	7.129 x 4.44 x 0.067	85 EXT	
381-924109-1	306721A308	Steel	243.92 x 172.39 x 3.07	9.603 x 6.787 x 0.121	8 EXT	
3819241091	306721A308	Steel	243.92 x 172.39 x 3.07	9.603 x 6.787 x 0.121	8 EXT	
3EA-15-11170	330700B300	Friction	124.64 x 68.83 x 3.05	4.907 x 2.71 x 0.12	41 INT	GRY
3EA1511170	330700B300	Friction	124.64 x 68.83 x 3.05	4.907 x 2.71 x 0.12	41 INT	GRY
3EA-15-11171	330700B300	Friction	124.64 x 68.83 x 3.05	4.907 x 2.71 x 0.12	41 INT	GRY
3EA1511171	330700B300	Friction	124.64 x 68.83 x 3.05	4.907 x 2.71 x 0.12	41 INT	GRY
3EA-15-11172	330700B300	Friction	124.64 x 68.83 x 3.05	4.907 x 2.71 x 0.12	41 INT	GRY
3EA1511172	330700B300	Friction	124.64 x 68.83 x 3.05	4.907 x 2.71 x 0.12	41 INT	GRY

# ALTO HEAVY DUTY CATALOG

## KOMATSU

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
3EA-15-11173	330700B300	Friction	124.64 x 68.83 x 3.05	4.907 x 2.71 x 0.12	41 INT	GRY
3EA1511173	330700B300	Friction	124.64 x 68.83 x 3.05	4.907 x 2.71 x 0.12	41 INT	GRY
3EA-15-11180	079731-310	Steel	137.62 x 80.34 x 3.18	5.418 x 3.163 x 0.125	4 EXT	
3EA1511180	079731-310	Steel	137.62 x 80.34 x 3.18	5.418 x 3.163 x 0.125	4 EXT	
3EA-15-11190	079731-310	Steel	137.62 x 80.34 x 3.18	5.418 x 3.163 x 0.125	4 EXT	
3EA1511190	079731-310	Steel	137.62 x 80.34 x 3.18	5.418 x 3.163 x 0.125	4 EXT	
3EA-15-11340	330700B300	Friction	124.64 x 68.83 x 3.05	4.907 x 2.71 x 0.12	41 INT	GRY
3EA1511340	330700B300	Friction	124.64 x 68.83 x 3.05	4.907 x 2.71 x 0.12	41 INT	GRY
3EA-15-12721	330700B300	Friction	124.64 x 68.83 x 3.05	4.907 x 2.71 x 0.12	41 INT	GRY
3EA1512721	330700B300	Friction	124.64 x 68.83 x 3.05	4.907 x 2.71 x 0.12	41 INT	GRY
3EA-15-31170	330700B300	Friction	124.64 x 68.83 x 3.05	4.907 x 2.71 x 0.12	41 INT	GRY
3EA1531170	330700B300	Friction	124.64 x 68.83 x 3.05	4.907 x 2.71 x 0.12	41 INT	GRY
3EC-15-11350	325706-300	Friction	151.66 x 90.53 x 3.02	5.971 x 3.564 x 0.119	47 INT	
3EC1511350	325706-300	Friction	151.66 x 90.53 x 3.02	5.971 x 3.564 x 0.119	47 INT	
3EC-15-19270	325702BR	Friction	147.19 x 90.42 x 3	5.795 x 3.56 x 0.118	47 INT	BRZ
3EC1519270	325702BR	Friction	147.19 x 90.42 x 3	5.795 x 3.56 x 0.118	47 INT	BRZ
3EC-15-19280	325703	Steel	157.02 x 100.3 x 1.4	6.182 x 3.949 x 0.055	8 EXT	
3EC1519280	325703	Steel	157.02 x 100.3 x 1.4	6.182 x 3.949 x 0.055	8 EXT	
3EC-15-29270	325702BR	Friction	147.19 x 90.42 x 3	5.795 x 3.56 x 0.118	47 INT	BRZ
3EC1529270	325702BR	Friction	147.19 x 90.42 x 3	5.795 x 3.56 x 0.118	47 INT	BRZ
3EC-15-29280	325703	Steel	157.02 x 100.3 x 1.4	6.182 x 3.949 x 0.055	8 EXT	
3EC1529280	325703	Steel	157.02 x 100.3 x 1.4	6.182 x 3.949 x 0.055	8 EXT	
3EC-15-31270	330702-250	Friction	155.7 x 87.86 x 2.54	6.13 x 3.459 x 0.1	37 INT	GRY
3EC1531270	330702-250	Friction	155.7 x 87.86 x 2.54	6.13 x 3.459 x 0.1	37 INT	GRY
3EC-15-31280	325709-200	Steel	168.07 x 100.08 x 2.01	6.617 x 3.94 x 0.079	8 EXT	
3EC1531280	325709-200	Steel	168.07 x 100.08 x 2.01	6.617 x 3.94 x 0.079	8 EXT	
3EC-16-31490	079731-310	Steel	137.62 x 80.34 x 3.18	5.418 x 3.163 x 0.125	4 EXT	
3EC1631490	079731-310	Steel	137.62 x 80.34 x 3.18	5.418 x 3.163 x 0.125	4 EXT	
3FD-15-21570	330702-250	Friction	155.7 x 87.86 x 2.54	6.13 x 3.459 x 0.1	37 INT	GRY
3FD1521570	330702-250	Friction	155.7 x 87.86 x 2.54	6.13 x 3.459 x 0.1	37 INT	GRY
418-17-39710	325700A220	Friction	159.97 x 97.38 x 2.24	6.298 x 3.834 x 0.088	26 INT	GRY
4181739710	325700A220	Friction	159.97 x 97.38 x 2.24	6.298 x 3.834 x 0.088	26 INT	GRY
418-33-31261	320716-650	Friction - Brake	292.96 x 50.34 x 6.55	11.534 x 1.982 x 0.258	15 INT	GRY
4183331261	320716-650	Friction - Brake	292.96 x 50.34 x 6.55	11.534 x 1.982 x 0.258	15 INT	GRY
419-15-12122	325700	Friction	159.97 x 97.38 x 2.18	6.298 x 3.834 x 0.086	26 INT	RED
4191512122	325700	Friction	159.97 x 97.38 x 2.18	6.298 x 3.834 x 0.086	26 INT	RED
419-15-12290	325700	Friction	159.97 x 97.38 x 2.18	6.298 x 3.834 x 0.086	26 INT	RED
4191512290	325700	Friction	159.97 x 97.38 x 2.18	6.298 x 3.834 x 0.086	26 INT	RED
419-15-12290C	325700	Friction	159.97 x 97.38 x 2.18	6.298 x 3.834 x 0.086	26 INT	RED
4191512290C	325700	Friction	159.97 x 97.38 x 2.18	6.298 x 3.834 x 0.086	26 INT	RED
419-15-12310	325701	Steel	173.99 x 110.01 x 1.7	6.85 x 4.331 x 0.067	68 EXT	
4191512310	325701	Steel	173.99 x 110.01 x 1.7	6.85 x 4.331 x 0.067	68 EXT	
419-15-12920	325701	Steel	173.99 x 110.01 x 1.7	6.85 x 4.331 x 0.067	68 EXT	
4191512920	325701	Steel	173.99 x 110.01 x 1.7	6.85 x 4.331 x 0.067	68 EXT	
425-33-11510	320714-510	Friction - Brake	480.59 x 330.5 x 5.13	18.921 x 13.012 x 0.202	112 INT	GRY
4253311510	320714-510	Friction - Brake	480.59 x 330.5 x 5.13	18.921 x 13.012 x 0.202	112 INT	GRY
444-971C1	056705	Steel	291.97 x 224.16 x 2.59	11.495 x 8.825 x 0.102	11 EXT	
444971C1	056705	Steel	291.97 x 224.16 x 2.59	11.495 x 8.825 x 0.102	11 EXT	
444-971C1	056705	Steel	291.97 x 224.16 x 2.59	11.495 x 8.825 x 0.102	11 EXT	
444971C1	056705	Steel	291.97 x 224.16 x 2.59	11.495 x 8.825 x 0.102	11 EXT	

# ALTO HEAVY DUTY CATALOG

## KOMATSU

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
561-15-52950	320714-510	Friction	480.59 x 330.5 x 5.13	18.921 x 13.012 x 0.202	112 INT	GRY
5611552950	320714-510	Friction	480.59 x 330.5 x 5.13	18.921 x 13.012 x 0.202	112 INT	GRY
561-33-41242	325707-240	Steel	680.92 x 509.6 x 2.41	26.808 x 20.063 x 0.095	226 EXT	
5613341242	325707-240	Steel	680.92 x 509.6 x 2.41	26.808 x 20.063 x 0.095	226 EXT	
561-33-61230	325707-240	Steel	680.92 x 509.6 x 2.41	26.808 x 20.063 x 0.095	226 EXT	
5613361230	325707-240	Steel	680.92 x 509.6 x 2.41	26.808 x 20.063 x 0.095	226 EXT	
566-33-41230	320715-240	Steel - Brake Disc mating plate	494.54 x 346 x 2.41	19.47 x 13.622 x 0.095	146 EXT	
5663341230	320715-240	Steel - Brake Disc mating plate	494.54 x 346 x 2.41	19.47 x 13.622 x 0.095	146 EXT	
566-33-41240	320714-510	Friction	480.59 x 330.5 x 5.13	18.921 x 13.012 x 0.202	112 INT	GRY
5663341240	320714-510	Friction	480.59 x 330.5 x 5.13	18.921 x 13.012 x 0.202	112 INT	GRY
566-33-41241	320714-510	Friction	480.59 x 330.5 x 5.13	18.921 x 13.012 x 0.202	112 INT	GRY
5663341241	320714-510	Friction	480.59 x 330.5 x 5.13	18.921 x 13.012 x 0.202	112 INT	GRY
566-33-41242	320714-510	Friction - Brake	480.59 x 330.5 x 5.13	18.921 x 13.012 x 0.202	112 INT	GRY
5663341242	320714-510	Friction - Brake	480.59 x 330.5 x 5.13	18.921 x 13.012 x 0.202	112 INT	GRY
566-33-42130	320715-240	Steel	494.54 x 346 x 2.41	19.47 x 13.622 x 0.095	146 EXT	
5663342130	320715-240	Steel	494.54 x 346 x 2.41	19.47 x 13.622 x 0.095	146 EXT	
569-33-41230	325707-240	Steel	680.92 x 509.6 x 2.41	26.808 x 20.063 x 0.095	226 EXT	
5693341230	325707-240	Steel	680.92 x 509.6 x 2.41	26.808 x 20.063 x 0.095	226 EXT	
569-33-41241	320712-518	Friction - Brake	660.04 x 492.61 x 5.08	25.986 x 19.394 x 0.2	166 INT	GRN
5693341241	320712-518	Friction - Brake	660.04 x 492.61 x 5.08	25.986 x 19.394 x 0.2	166 INT	GRN
569-33-41260	325708-690	Friction - Brake	680.92 x 509.6 x 6.91	26.808 x 20.063 x 0.272	208 EXT	BRN
5693341260	325708-690	Friction - Brake	680.92 x 509.6 x 6.91	26.808 x 20.063 x 0.272	208 EXT	BRN
714-07-12670	325710-320	Friction	180.04 x 110.39 x 3.25	7.088 x 4.346 x 0.128	26 INT	GRY
7140712670	325710-320	Friction	180.04 x 110.39 x 3.25	7.088 x 4.346 x 0.128	26 INT	GRY
714-07-12680	325711-200	Steel	198.04 x 128.02 x 2.01	7.797 x 5.04 x 0.079	70 EXT	
7140712680	325711-200	Steel	198.04 x 128.02 x 2.01	7.797 x 5.04 x 0.079	70 EXT	
714-07-19710	325710-320	Friction	180.04 x 110.39 x 3.25	7.088 x 4.346 x 0.128	26 INT	GRY
7140719710	325710-320	Friction	180.04 x 110.39 x 3.25	7.088 x 4.346 x 0.128	26 INT	GRY
714-07-19720	325710-320	Friction	180.04 x 110.39 x 3.25	7.088 x 4.346 x 0.128	26 INT	GRY
7140719720	325710-320	Friction	180.04 x 110.39 x 3.25	7.088 x 4.346 x 0.128	26 INT	GRY
714-07-29710	325700A220	Friction	159.97 x 97.38 x 2.24	6.298 x 3.834 x 0.088	26 INT	GRY
7140729710	325700A220	Friction	159.97 x 97.38 x 2.24	6.298 x 3.834 x 0.088	26 INT	GRY
714-07-29720	325700A220	Friction	159.97 x 97.38 x 2.24	6.298 x 3.834 x 0.088	26 INT	GRY
7140729720	325700A220	Friction	159.97 x 97.38 x 2.24	6.298 x 3.834 x 0.088	26 INT	GRY
714-08-19710	325712-300	Friction	140 x 86.69 x 3	5.512 x 3.413 x 0.118	26 INT	GRY
7140819710	325712-300	Friction	140 x 86.69 x 3	5.512 x 3.413 x 0.118	26 INT	GRY
714-08-19711	325712-300	Friction	140 x 86.69 x 3	5.512 x 3.413 x 0.118	26 INT	GRY
7140819711	325712-300	Friction	140 x 86.69 x 3	5.512 x 3.413 x 0.118	26 INT	GRY
714-12-19710	325700A220	Friction	159.97 x 97.38 x 2.24	6.298 x 3.834 x 0.088	26 INT	GRY
7141219710	325700A220	Friction	159.97 x 97.38 x 2.24	6.298 x 3.834 x 0.088	26 INT	GRY
714-12-19711	325700A220	Friction	159.97 x 97.38 x 2.24	6.298 x 3.834 x 0.088	26 INT	GRY
7141219711	325700A220	Friction	159.97 x 97.38 x 2.24	6.298 x 3.834 x 0.088	26 INT	GRY
714-16-19730	325701	Steel	173.99 x 110.01 x 1.7	6.85 x 4.331 x 0.067	68 EXT	
7141619730	325701	Steel	173.99 x 110.01 x 1.7	6.85 x 4.331 x 0.067	68 EXT	
772-05-02570	325700	Friction	159.97 x 97.38 x 2.18	6.298 x 3.834 x 0.086	26 INT	RED
7720502570	325700	Friction	159.97 x 97.38 x 2.18	6.298 x 3.834 x 0.086	26 INT	RED
772-05-02590	325700	Friction	159.97 x 97.38 x 2.18	6.298 x 3.834 x 0.086	26 INT	RED
7720502590	325700	Friction	159.97 x 97.38 x 2.18	6.298 x 3.834 x 0.086	26 INT	RED
772-10-12720	325701	Steel	173.99 x 110.01 x 1.7	6.85 x 4.331 x 0.067	68 EXT	
7721012720	325701	Steel	173.99 x 110.01 x 1.7	6.85 x 4.331 x 0.067	68 EXT	

# ALTO HEAVY DUTY CATALOG

## KRAMER

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
1000089319	166707-200	Steel	179.83 x 148.56 x 2.01	7.08 x 5.849 x 0.079	32 EXT	
1000150552	306732-485	Friction	201.17 x 40.39 x 4.88	7.92 x 1.59 x 0.192	16 INT	TAN

## KUBOTA

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
8755978	023701-300	Steel	138.99 x 99.01 x 3	5.472 x 3.898 x 0.118	54 EXT	
K366022361	311720-244	Friction	133.4 x 90.3 x 2.44	5.252 x 3.555 x 0.096	36 INT	BRZ
K3660223691	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
K3660223911	311720-260	Friction	133.4 x 90.3 x 2.59	5.252 x 3.555 x 0.102	36 INT	BRZ

## LANCER BOSS

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
8665904	023722-180	Friction	148.59 x 107.7 x 1.8	5.85 x 4.24 x 0.071	52 INT	GRY
8668988	023701-300	Steel	138.99 x 99.01 x 3	5.472 x 3.898 x 0.118	54 EXT	
8827661	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
9425283	323702	Friction	128.27 x 87.91 x 2.54	5.05 x 3.461 x 0.1	57 INT	BRZ
BL8827661	023703	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	

## LANCER BOSS STEINBOCK

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
8576361	049700	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	GRY
8665904	023712A170	Friction	148.59 x 107.72 x 1.7	5.85 x 4.241 x 0.067	52 INT	TAN
8665912	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	
8668996	049720-200	Friction	133.35 x 92.79 x 2.08	5.25 x 3.653 x 0.082	45 INT	GRY
8699119	023712BR295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	
8699199	023712BR295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	
8755951	049720-200	Friction	133.35 x 92.79 x 2.08	5.25 x 3.653 x 0.082	45 INT	GRY
9104452	332704	Friction	164.24 x 103.81 x 2.87	6.466 x 4.087 x 0.113	76 EXT	
9104559	330717-150	Steel	151.94 x 81.69 x 1.52	5.982 x 3.216 x 0.06	40 INT	
9403519	352701	Steel	274.32 x 202.49 x 2.72	10.8 x 7.972 x 0.107	6 EXT	
9403527	352704-388	Friction	253.59 x 187.81 x 3.91	9.984 x 7.394 x 0.154	60 INT	

## LANDINI

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
1036328001	308701	Steel	205.59 x 145.47 x 1.65	8.094 x 5.727 x 0.065	64 EXT	
T004001127	323702	Friction	128.27 x 87.91 x 2.54	5.05 x 3.461 x 0.1	57 INT	BRZ
T12001170	330717-150	Steel	151.94 x 81.69 x 1.52	5.982 x 3.216 x 0.06	40 INT	
T735001039	023701-300	Steel	138.99 x 99.01 x 3	5.472 x 3.898 x 0.118	54 EXT	

## LANSING

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
1036329001	308700A	Friction	196.34 x 137.92 x 2.79	7.73 x 5.43 x 0.11	44 INT	
1036-328-001	308701	Steel	205.59 x 145.47 x 1.65	8.094 x 5.727 x 0.065	64 EXT	
1036328001	308701	Steel	205.59 x 145.47 x 1.65	8.094 x 5.727 x 0.065	64 EXT	
1036-329-001	308700A	Friction	196.34 x 137.92 x 2.79	7.73 x 5.43 x 0.11	44 INT	
1036329001	308700A	Friction	196.34 x 137.92 x 2.79	7.73 x 5.43 x 0.11	44 INT	
T004-001-127	323702	Friction	128.27 x 87.91 x 2.54	5.05 x 3.461 x 0.1	57 INT	BRZ
T004001127	323702	Friction	128.27 x 87.91 x 2.54	5.05 x 3.461 x 0.1	57 INT	BRZ

# ALTO HEAVY DUTY CATALOG

## LANSING

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
T012-001-166	332704	Friction	164.24 x 103.81 x 2.87	6.466 x 4.087 x 0.113	76 EXT	
T012001166	332704	Friction	164.24 x 103.81 x 2.87	6.466 x 4.087 x 0.113	76 EXT	
T012001170	330717-150	Steel	151.94 x 81.69 x 1.52	5.982 x 3.216 x 0.06	40 INT	
T012001170	330717-150	Steel	151.94 x 81.69 x 1.52	5.982 x 3.216 x 0.06	40 INT	
T012-001-170	330717-150	Steel	151.94 x 81.69 x 1.52	5.982 x 3.216 x 0.06	40 INT	
T012001170	330717-150	Steel	151.94 x 81.69 x 1.52	5.982 x 3.216 x 0.06	40 INT	
T719001170	330717-150	Steel	151.94 x 81.69 x 1.52	5.982 x 3.216 x 0.06	40 INT	
T719001170	330717-150	Steel	151.94 x 81.69 x 1.52	5.982 x 3.216 x 0.06	40 INT	
T719-001-170	330717-150	Steel	151.94 x 81.69 x 1.52	5.982 x 3.216 x 0.06	40 INT	
T719001170	330717-150	Steel	151.94 x 81.69 x 1.52	5.982 x 3.216 x 0.06	40 INT	
T735-001-039	023701-300	Steel	138.99 x 99.01 x 3	5.472 x 3.898 x 0.118	54 EXT	
T735001039	023701-300	Steel	138.99 x 99.01 x 3	5.472 x 3.898 x 0.118	54 EXT	
T735001040	049720-200	Friction	133.35 x 92.79 x 2.08	5.25 x 3.653 x 0.082	45 INT	GRY
T735001040	049720-200	Friction	133.35 x 92.79 x 2.08	5.25 x 3.653 x 0.082	45 INT	GRY
T735-001-040	049720-200	Friction	133.35 x 92.79 x 2.08	5.25 x 3.653 x 0.082	45 INT	GRY
T735001040	049720-200	Friction	133.35 x 92.79 x 2.08	5.25 x 3.653 x 0.082	45 INT	GRY

## LEYLAND

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline
NTT32	311711	Steel	209.32 x 114.3 x 2.62	8.241 x 4.5 x 0.103	1 EXT

## LIEBHERR

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
10029552	306732-485	Friction	201.17 x 40.39 x 4.88	7.92 x 1.59 x 0.192	16 INT	TAN
10663168	306732-485	Friction	201.17 x 40.39 x 4.88	7.92 x 1.59 x 0.192	16 INT	TAN
50 07 177	329708	Friction	177.32 x 109.22 x 2.01	6.981 x 4.3 x 0.079	35 EXT	
70 09 642	329707-200	Steel	131.19 x 85.24 x 2.01	5.165 x 3.356 x 0.079	29 INT	
70 11 449	329706	Friction	137.29 x 91.24 x 2.01	5.405 x 3.592 x 0.079	27 EXT	
76 18 492	306732-485	Friction	201.17 x 40.39 x 4.88	7.92 x 1.59 x 0.192	16 INT	TAN
76 18 493	306731-266	Steel	219.71 x 145.8 x 2.67	8.65 x 5.74 x 0.105	6 EXT	
76 23 461	306731-266	Steel	219.71 x 145.8 x 2.67	8.65 x 5.74 x 0.105	6 EXT	
76 23 491	306731-266	Steel	219.71 x 145.8 x 2.67	8.65 x 5.74 x 0.105	6 EXT	

## LIUGONG

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline
SP100007	329708	Friction	177.32 x 109.22 x 2.01	6.981 x 4.3 x 0.079	35 EXT

## MACK TRUCK

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
305SH133	352702-520	Friction	371.68 x 302.74 x 5.23	14.633 x 11.919 x 0.206	72 INT	BLK
308SH108	352702-520	Friction	371.68 x 302.74 x 5.23	14.633 x 11.919 x 0.206	72 INT	BLK
308SH133	352702-520	Friction	371.68 x 302.74 x 5.23	14.633 x 11.919 x 0.206	72 INT	BLK
308SH135	352702-520	Friction	371.68 x 302.74 x 5.23	14.633 x 11.919 x 0.206	72 INT	BLK
308SH79	056712	Friction	371.7 x 302.95 x 5.21	14.634 x 11.927 x 0.205	73 INT	BLK
62SC-2551.18	307704-500	Friction	342.77 x 50.8 x 5.21	13.495 x 2 x 0.205	53 INT	GRS
62SC255118	307704-500	Friction	342.77 x 50.8 x 5.21	13.495 x 2 x 0.205	53 INT	GRS
62SC-26	307705-630	Steel	355.04 x 238.38 x 6.35	13.978 x 9.385 x 0.25	83 EXT	
62SC26	307705-630	Steel	355.04 x 238.38 x 6.35	13.978 x 9.385 x 0.25	83 EXT	

# ALTO HEAVY DUTY CATALOG

## MAFI

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline
000.902.0423	329707-200	Steel	131.19 x 85.24 x 2.01	5.165 x 3.356 x 0.079	29 INT
0009020423	329707-200	Steel	131.19 x 85.24 x 2.01	5.165 x 3.356 x 0.079	29 INT

## MAN

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
81.33214-0021	121706	Friction	328.93 x 285.6 x 3	12.95 x 11.244 x 0.118	18 INT	GRY
81332140021	121706	Friction	328.93 x 285.6 x 3	12.95 x 11.244 x 0.118	18 INT	GRY

## MANITOU

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
109594	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
449301	049700BR235	Friction	133.35 x 92.79 x 2.36	5.25 x 3.653 x 0.093	45 INT	
449375	310729-150	Steel	129.16 x 76 x 1.52	5.085 x 2.992 x 0.06	4 EXT	
449376	310728-215	Friction	117.58 x 68.28 x 2.16	4.629 x 2.688 x 0.085	33 INT	TAN
473725	023701-300	Steel	138.99 x 99.01 x 3	5.472 x 3.898 x 0.118	54 EXT	
547511	310726A250	Friction	127.25 x 82.19 x 2.54	5.01 x 3.236 x 0.1	40 INT	GRY
561797	310727-225	Steel	143.46 x 89.51 x 2.24	5.648 x 3.524 x 0.088	26 EXT	
561798	310726A250	Friction	127.25 x 82.19 x 2.54	5.01 x 3.236 x 0.1	40 INT	GRY
564439	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
564440	049720-200	Friction	133.35 x 92.79 x 2.08	5.25 x 3.653 x 0.082	45 INT	GRY

## MASSEY-FERGUSON

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
216084	023712BR295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	
224772	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	
230911	023712BR260	Friction	148.59 x 107.72 x 2.62	5.85 x 4.241 x 0.103	52 INT	BRZ
233166	023712-260	Friction	148.59 x 107.72 x 2.59	5.85 x 4.241 x 0.102	52 INT	TAN
233166	023712BR260	Friction	148.59 x 107.72 x 2.62	5.85 x 4.241 x 0.103	52 INT	BRZ
235161	023712BR260	Friction	148.59 x 107.72 x 2.62	5.85 x 4.241 x 0.103	52 INT	BRZ
236989	023712BR295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	
80104609	352704A388	Friction	253.64 x 187.81 x 3.91	9.986 x 7.394 x 0.154	60 INT	BLK
1672626M1	323702	Friction	128.27 x 87.91 x 2.54	5.05 x 3.461 x 0.1	57 INT	BRZ
1754344M1	023703	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
1754345M1	049700BR	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	BRZ
1804831M1	049700BR	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	BRZ
185062M3	323702	Friction	128.27 x 87.91 x 2.54	5.05 x 3.461 x 0.1	57 INT	BRZ
185464M1	033711	Steel	144.07 x 94.49 x 1.75	5.672 x 3.72 x 0.069	6 EXT	
1862289M2	323702	Friction	128.27 x 87.91 x 2.54	5.05 x 3.461 x 0.1	57 INT	BRZ
1867388M1	033711A	Steel	144.2 x 94.49 x 1.4	5.677 x 3.72 x 0.055	33 EXT	
1870074M1	323702	Friction	128.27 x 87.91 x 2.54	5.05 x 3.461 x 0.1	57 INT	BRZ
1870879M1	323702	Friction	128.27 x 87.91 x 2.54	5.05 x 3.461 x 0.1	57 INT	BRZ
190177M1	323702	Friction	128.27 x 87.91 x 2.54	5.05 x 3.461 x 0.1	57 INT	BRZ
2757328M91	049700BR	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	BRZ
3613539M1	323706-480	Friction	223.75 x 19.05 x 4.83	8.809 x 0.75 x 0.19	27 INT	GRS
3700134M1	323706-480	Friction	223.75 x 19.05 x 4.83	8.809 x 0.75 x 0.19	27 INT	GRS
3823952M1	323706-480	Friction - Brake	223.75 x 19.05 x 4.83	8.809 x 0.75 x 0.19	27 INT	GRS
513242M1	033711A	Steel	144.2 x 94.49 x 1.4	5.677 x 3.72 x 0.055	33 EXT	
514276M1	323702	Friction	128.27 x 87.91 x 2.54	5.05 x 3.461 x 0.1	57 INT	BRZ
521282M1	323702	Friction	128.27 x 87.91 x 2.54	5.05 x 3.461 x 0.1	57 INT	BRZ

# ALTO HEAVY DUTY CATALOG

## MASSEY-FERGUSON

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
523551M1	033711B220	Steel	144.07 x 94.49 x 2.21	5.672 x 3.72 x 0.087	11 EXT	
523552M1	323702	Friction	128.27 x 87.91 x 2.54	5.05 x 3.461 x 0.1	57 INT	BRZ
533326M-2	323702	Friction	128.27 x 87.91 x 2.54	5.05 x 3.461 x 0.1	57 INT	BRZ
533326M2	323702	Friction	128.27 x 87.91 x 2.54	5.05 x 3.461 x 0.1	57 INT	BRZ
772813M1	033711B	Steel	144.07 x 94.49 x 1.42	5.672 x 3.72 x 0.056	11 EXT	

## MATBRO

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
533326M1	323702	Friction	128.27 x 87.91 x 2.54	5.05 x 3.461 x 0.1	57 INT	BRZ

## MELROSE

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
1731746	316703A	Steel	88.6 x 60.05 x 1.4	3.488 x 2.364 x 0.055	4 EXT	
6649871	179706-327	Friction	190.5 x 136.91 x 3.25	7.5 x 5.39 x 0.128		TAN

## MINN - MOLINE (WHITE TRACTOR)

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline
10P2664	331701-155	Steel	152.43 x 89.43 x 1.55	6.001 x 3.521 x 0.061	6 INT

## MISCELLANEOUS

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
105890	DA-504	Damper Carrier Plate				
106083	DA-505	Damper Carrier Plate				
115456	DA-504	Damper Carrier Plate				
1060836	DA-506	Damper Carrier Plate				
089-1280-00045CG	320701	Steel	139.7 x 76 x 1.57	5.5 x 2.992 x 0.062	4 EXT	
089128000045CG	320701	Steel	139.7 x 76 x 1.57	5.5 x 2.992 x 0.062	4 EXT	
09-1280-00046-CG	320700	Friction	107.95 x 68.88 x 2.67	4.25 x 2.712 x 0.105	28 INT	TAN
09128000046CG	320700	Friction	107.95 x 68.88 x 2.67	4.25 x 2.712 x 0.105	28 INT	TAN
N115485	DA-502	Damper Carrier Plate				
N115495	DA-503	Damper Carrier Plate				
UCL1010714	DA-501	Damper Carrier Plate				
UCL10107-14	DA-501	Damper Carrier Plate				
UCL11911-146	DA-506	Damper Carrier Plate				
UCL11911146	DA-506	Damper Carrier Plate				
UCL11911-19	DA-505	Damper Carrier Plate				
UCL1191119	DA-505	Damper Carrier Plate				

## MITSUBISHI / TCM

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
1043340091	310716	Friction	165.07 x 74.3 x 3.99	6.499 x 2.925 x 0.157	19 INT	
1043340916	310716	Friction	165.07 x 74.3 x 3.99	6.499 x 2.925 x 0.157	19 INT	
9020992800	310716	Friction	165.07 x 74.3 x 3.99	6.499 x 2.925 x 0.157	19 INT	
9021716202	310715	Steel	218.97 x 158.93 x 2.72	8.621 x 6.257 x 0.107	14 EXT	
10433-40091	310716	Friction	165.07 x 74.3 x 3.99	6.499 x 2.925 x 0.157	19 INT	
1043340091	310716	Friction	165.07 x 74.3 x 3.99	6.499 x 2.925 x 0.157	19 INT	
10433-40916	310716	Friction	165.07 x 74.3 x 3.99	6.499 x 2.925 x 0.157	19 INT	
1043340916	310716	Friction	165.07 x 74.3 x 3.99	6.499 x 2.925 x 0.157	19 INT	

# ALTO HEAVY DUTY CATALOG

## MITSUBISHI / TCM

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
11243-82141	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
1124382141	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
115G3-82751	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
115G382751	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
134B3-82401	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
134B382401	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
64323-45200	079731	Steel	137.62 x 80.34 x 2.26	5.418 x 3.163 x 0.089	4 EXT	
6432345200	079731	Steel	137.62 x 80.34 x 2.26	5.418 x 3.163 x 0.089	4 EXT	
64323-45300	079730A365	Friction	124.64 x 68.83 x 3.66	4.907 x 2.71 x 0.144	41 INT	GRY
6432345300	079730A365	Friction	124.64 x 68.83 x 3.66	4.907 x 2.71 x 0.144	41 INT	GRY
65425-13700	079730A365	Friction	124.64 x 68.83 x 3.66	4.907 x 2.71 x 0.144	41 INT	GRY
6542513700	079730A365	Friction	124.64 x 68.83 x 3.66	4.907 x 2.71 x 0.144	41 INT	GRY
65425-13800	079731	Steel	137.62 x 80.34 x 2.26	5.418 x 3.163 x 0.089	4 EXT	
6542513800	079731	Steel	137.62 x 80.34 x 2.26	5.418 x 3.163 x 0.089	4 EXT	
65425-23800	079731	Steel	137.62 x 80.34 x 2.26	5.418 x 3.163 x 0.089	4 EXT	
6542523800	079731	Steel	137.62 x 80.34 x 2.26	5.418 x 3.163 x 0.089	4 EXT	
65727-03200	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
6572703200	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
69242-03800	308705-230	Steel	170.38 x 99.97 x 2.29	6.708 x 3.936 x 0.09	6 EXT	
6924203800	308705-230	Steel	170.38 x 99.97 x 2.29	6.708 x 3.936 x 0.09	6 EXT	
90209-92800	310716	Friction	165.07 x 74.3 x 3.99	6.499 x 2.925 x 0.157	19 INT	
9020992800	310716	Friction	165.07 x 74.3 x 3.99	6.499 x 2.925 x 0.157	19 INT	
91224-06500	079730A365	Friction	124.64 x 68.83 x 3.66	4.907 x 2.71 x 0.144	41 INT	GRY
9122406500	079730A365	Friction	124.64 x 68.83 x 3.66	4.907 x 2.71 x 0.144	41 INT	GRY
91224-16500	079730A365	Friction	124.64 x 68.83 x 3.66	4.907 x 2.71 x 0.144	41 INT	GRY
9122416500	079730A365	Friction	124.64 x 68.83 x 3.66	4.907 x 2.71 x 0.144	41 INT	GRY
91224-16500	079730A365	Friction	124.64 x 68.83 x 3.66	4.907 x 2.71 x 0.144	41 INT	GRY
9122416500	079730A365	Friction	124.64 x 68.83 x 3.66	4.907 x 2.71 x 0.144	41 INT	GRY
9122416500	079730A365	Friction	124.64 x 68.83 x 3.66	4.907 x 2.71 x 0.144	41 INT	GRY
91324-02700	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
9132402700	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
91324-02701	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
9132402701	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
91324-02702	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
9132402702	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
91324-12600	308707-160	Steel	131.78 x 80.06 x 1.6	5.188 x 3.152 x 0.063	24 EXT	
9132412600	308707-160	Steel	131.78 x 80.06 x 1.6	5.188 x 3.152 x 0.063	24 EXT	
91324-12601	308707-160	Steel	131.78 x 80.06 x 1.6	5.188 x 3.152 x 0.063	24 EXT	
9132412601	308707-160	Steel	131.78 x 80.06 x 1.6	5.188 x 3.152 x 0.063	24 EXT	
91324-12601	308707-160	Steel	131.78 x 80.06 x 1.6	5.188 x 3.152 x 0.063	24 EXT	
9132412601	308707-160	Steel	131.78 x 80.06 x 1.6	5.188 x 3.152 x 0.063	24 EXT	
91524-14300	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
9152414300	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
91824-08200	308705-230	Steel	170.38 x 99.97 x 2.29	6.708 x 3.936 x 0.09	6 EXT	
9182408200	308705-230	Steel	170.38 x 99.97 x 2.29	6.708 x 3.936 x 0.09	6 EXT	
91824-12600	330702-250	Friction	155.7 x 87.86 x 2.54	6.13 x 3.459 x 0.1	37 INT	GRY
9182412600	330702-250	Friction	155.7 x 87.86 x 2.54	6.13 x 3.459 x 0.1	37 INT	GRY
92226-08800	330702-250	Friction	155.7 x 87.86 x 2.54	6.13 x 3.459 x 0.1	37 INT	GRY
9222608800	330702-250	Friction	155.7 x 87.86 x 2.54	6.13 x 3.459 x 0.1	37 INT	GRY
92226-09600	308705-230	Steel	170.38 x 99.97 x 2.29	6.708 x 3.936 x 0.09	6 EXT	
9222609600	308705-230	Steel	170.38 x 99.97 x 2.29	6.708 x 3.936 x 0.09	6 EXT	



# ALTO HEAVY DUTY CATALOG

## MITSUBISHI / TCM

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
92227-03600	330706-260	Friction	155.7 x 87.86 x 2.67	6.13 x 3.459 x 0.105	37 INT	GRY
9222703600	330706-260	Friction	155.7 x 87.86 x 2.67	6.13 x 3.459 x 0.105	37 INT	GRY
AE-41080-2074	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
AE410802074	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
AE-41080-2074A	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
AE410802074A	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
AE-41080-2075A	308707-160	Steel	131.78 x 80.06 x 1.6	5.188 x 3.152 x 0.063	24 EXT	
AE410802075A	308707-160	Steel	131.78 x 80.06 x 1.6	5.188 x 3.152 x 0.063	24 EXT	
AE-602-893-102	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
AE602893102	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
AE-602-893-103	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
AE602893103	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
AE-602-893-105	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
AE602893105	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
AE-602-893-108	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
AE602893108	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
AE-602-894-104	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
AE602894104	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
AE-602-894-108	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
AE602894108	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
BK-703100-9000	334712	Friction	134.06 x 77.42 x 2.79	5.278 x 3.048 x 0.11	38 INT	GRY
BK7031009000	334712	Friction	134.06 x 77.42 x 2.79	5.278 x 3.048 x 0.11	38 INT	GRY
BK-750102-4000	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
BK7501024000	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
BK-750110-9000	334712	Friction	134.06 x 77.42 x 2.79	5.278 x 3.048 x 0.11	38 INT	GRY
BK7501109000	334712	Friction	134.06 x 77.42 x 2.79	5.278 x 3.048 x 0.11	38 INT	GRY

## MOROOKA

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
SP409	316702A	Friction	77.98 x 54.2 x 1.65	3.07 x 2.134 x 0.065	27 INT	GRY
SP410	316703	Steel	87.96 x 60.15 x 1.4	3.463 x 2.368 x 0.055	3 EXT	

## MOXY

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline
152065	329708	Friction	177.32 x 109.22 x 2.01	6.981 x 4.3 x 0.079	35 EXT
152073	329706	Friction	137.29 x 91.24 x 2.01	5.405 x 3.592 x 0.079	27 EXT
152074	329707-200	Steel	131.19 x 85.24 x 2.01	5.165 x 3.356 x 0.079	29 INT
152126	329708	Friction	177.32 x 109.22 x 2.01	6.981 x 4.3 x 0.079	35 EXT

## NISSAN

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
31532-22H00	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
3153222H00	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
31532-22H00	330700B300	Friction	124.64 x 68.83 x 3.05	4.907 x 2.71 x 0.12	41 INT	GRY
3153222H00	330700B300	Friction	124.64 x 68.83 x 3.05	4.907 x 2.71 x 0.12	41 INT	GRY
31532-22H01	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
3153222H01	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
31532-25H00	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
3153225H00	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY

# ALTO HEAVY DUTY CATALOG

## NISSAN

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
31532-25H01	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
3153225H01	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
31532-40K00	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
3153240K00	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
31532-41K00	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
3153241K00	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
31532-4G000	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
315324G000	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
31532-FJ100	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
31532FJ100	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
31532-L1000	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
31532L1000	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
31532-L1500	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
31532L1500	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
31532-L1500	330700B300	Friction	124.64 x 68.83 x 3.05	4.907 x 2.71 x 0.12	41 INT	GRY
31532L1500	330700B300	Friction	124.64 x 68.83 x 3.05	4.907 x 2.71 x 0.12	41 INT	GRY
31532-L6001	334712	Friction	134.06 x 77.42 x 2.79	5.278 x 3.048 x 0.11	38 INT	GRY
31532L6001	334712	Friction	134.06 x 77.42 x 2.79	5.278 x 3.048 x 0.11	38 INT	GRY
31532-LI000	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
31532LI000	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
31532-LI500	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
31532LI500	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
31536-22H00	312701A180	Steel	131.55 x 77.34 x 1.78	5.179 x 3.045 x 0.07	42 EXT	
3153622H00	312701A180	Steel	131.55 x 77.34 x 1.78	5.179 x 3.045 x 0.07	42 EXT	
31536-25H00	312701-160	Steel	131.55 x 79.96 x 1.6	5.179 x 3.148 x 0.063	42 EXT	
3153625H00	312701-160	Steel	131.55 x 79.96 x 1.6	5.179 x 3.148 x 0.063	42 EXT	
31536-41K00	308707-160	Steel	131.78 x 80.06 x 1.6	5.188 x 3.152 x 0.063	24 EXT	
3153641K00	308707-160	Steel	131.78 x 80.06 x 1.6	5.188 x 3.152 x 0.063	24 EXT	
31536-4G000	312701A180	Steel	131.55 x 77.34 x 1.78	5.179 x 3.045 x 0.07	42 EXT	
315364G000	312701A180	Steel	131.55 x 77.34 x 1.78	5.179 x 3.045 x 0.07	42 EXT	
31536-FJ100	308707-160	Steel	131.78 x 80.06 x 1.6	5.188 x 3.152 x 0.063	24 EXT	
31536FJ100	308707-160	Steel	131.78 x 80.06 x 1.6	5.188 x 3.152 x 0.063	24 EXT	
31536-LI002	330701A160	Steel	131.06 x 80.26 x 1.6	5.16 x 3.16 x 0.063	8 EXT	
31536LI002	330701A160	Steel	131.06 x 80.26 x 1.6	5.16 x 3.16 x 0.063	8 EXT	
31536-LI500	330701A160	Steel	131.06 x 80.26 x 1.6	5.16 x 3.16 x 0.063	8 EXT	
31536LI500	330701A160	Steel	131.06 x 80.26 x 1.6	5.16 x 3.16 x 0.063	8 EXT	

## O&K

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
059 7367	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	
141 7003	329706	Friction	137.29 x 91.24 x 2.01	5.405 x 3.592 x 0.079	27 EXT	
143 1128	329708	Friction	177.32 x 109.22 x 2.01	6.981 x 4.3 x 0.079	35 EXT	
461 1633	310722	Friction	175.77 x 107.47 x 2.9	6.92 x 4.231 x 0.114	52 INT	BRN
461 1634	310721-180	Steel	182.88 x 118.21 x 1.75	7.2 x 4.654 x 0.069	71 EXT	
738 1131	329707-200	Steel	131.19 x 85.24 x 2.01	5.165 x 3.356 x 0.079	29 INT	
738 2519	329706	Friction	137.29 x 91.24 x 2.01	5.405 x 3.592 x 0.079	27 EXT	
738 2674	329708	Friction	177.32 x 109.22 x 2.01	6.981 x 4.3 x 0.079	35 EXT	
739 5157	023712BR295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	
739 5158	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	
739 5210	023712BR260	Friction	148.59 x 107.72 x 2.62	5.85 x 4.241 x 0.103	52 INT	BRZ

# ALTO HEAVY DUTY CATALOG

## OKAMURA

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
1158300600	330702-250	Friction	155.7 x 87.86 x 2.54	6.13 x 3.459 x 0.1	37 INT	GRY
483017A	330700B300	Friction	124.64 x 68.83 x 3.05	4.907 x 2.71 x 0.12	41 INT	GRY
483116A	308707-160	Steel	131.78 x 80.06 x 1.6	5.188 x 3.152 x 0.063	24 EXT	

## ORENSTEIN & KOPPEL

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline
597367	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT
1417003	329706	Friction	137.29 x 91.24 x 2.01	5.405 x 3.592 x 0.079	27 EXT
4611634	310721-180	Steel	182.88 x 118.21 x 1.75	7.2 x 4.654 x 0.069	71 EXT
7381131	329707-200	Steel	131.19 x 85.24 x 2.01	5.165 x 3.356 x 0.079	29 INT

## ORTLINGHAUS

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
4611633	310722	Friction	175.77 x 107.47 x 2.9	6.92 x 4.231 x 0.114	52 INT	BRN
310001523005	146707-230	Steel	126.75 x 87.96 x 2.31	4.99 x 3.463 x 0.091	24 EXT	

## P&H

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
1015Z1006	023712A170	Friction	148.59 x 107.72 x 1.7	5.85 x 4.241 x 0.067	52 INT	TAN
1015z1006	023722-180	Friction	148.59 x 107.7 x 1.8	5.85 x 4.24 x 0.071	52 INT	GRY
1015Z1305	023712A170	Friction	148.59 x 107.72 x 1.7	5.85 x 4.241 x 0.067	52 INT	TAN
1015z1305	023722-180	Friction	148.59 x 107.7 x 1.8	5.85 x 4.24 x 0.071	52 INT	GRY
1018z4530	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	

## PARAGON

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
11759-P	049720	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	GRY
11759P	049720	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	GRY

## PETTIBONE

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
405603	308700A	Friction	196.34 x 137.92 x 2.79	7.73 x 5.43 x 0.11	44 INT	
405609	308700A	Friction	196.34 x 137.92 x 2.79	7.73 x 5.43 x 0.11	44 INT	
443679	049720-200	Friction	133.35 x 92.79 x 2.08	5.25 x 3.653 x 0.082	45 INT	GRY
4056028	308701	Steel	205.59 x 145.47 x 1.65	8.094 x 5.727 x 0.065	64 EXT	
4423866	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
4423880	023738BR	Friction	190.6 x 147.17 x 2.92	7.504 x 5.794 x 0.115	59 INT	
4423881	023739	Steel	214.83 x 155.58 x 1.75	8.458 x 6.125 x 0.069	3 EXT	
4436710	023701-300	Steel	138.99 x 99.01 x 3	5.472 x 3.898 x 0.118	54 EXT	
9449009	023701-250	Steel	138.99 x 99.01 x 2.49	5.472 x 3.898 x 0.098	54 EXT	
40560-28	308701	Steel	205.59 x 145.47 x 1.65	8.094 x 5.727 x 0.065	64 EXT	
4056028	308701	Steel	205.59 x 145.47 x 1.65	8.094 x 5.727 x 0.065	64 EXT	
40560-3	308700A	Friction	196.34 x 137.92 x 2.79	7.73 x 5.43 x 0.11	44 INT	
405603	308700A	Friction	196.34 x 137.92 x 2.79	7.73 x 5.43 x 0.11	44 INT	
40560-9	308700A	Friction	196.34 x 137.92 x 2.79	7.73 x 5.43 x 0.11	44 INT	
405609	308700A	Friction	196.34 x 137.92 x 2.79	7.73 x 5.43 x 0.11	44 INT	
44238-64	023761	Steel	138.99 x 99.01 x 8.76	5.472 x 3.898 x 0.345	54 EXT	
4423864	023761	Steel	138.99 x 99.01 x 8.76	5.472 x 3.898 x 0.345	54 EXT	

# ALTO HEAVY DUTY CATALOG

## PETTIBONE

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
44238-65	049720	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	GRY
4423865	049720	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	GRY
44238-66	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
4423866	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
44238-67	023760	Steel	138.99 x 98.27 x 0.81	5.472 x 3.869 x 0.322	54 EXT	
4423867	023760	Steel	138.99 x 98.27 x 0.81	5.472 x 3.869 x 0.322	54 EXT	
44238-80	023738BR	Friction	190.6 x 147.17 x 2.92	7.504 x 5.794 x 0.115	59 INT	
4423880	023738BR	Friction	190.6 x 147.17 x 2.92	7.504 x 5.794 x 0.115	59 INT	
44238-81	023739	Steel	214.83 x 155.58 x 1.75	8.458 x 6.125 x 0.069	3 EXT	
4423881	023739	Steel	214.83 x 155.58 x 1.75	8.458 x 6.125 x 0.069	3 EXT	
44367-10	023701-300	Steel	138.99 x 99.01 x 3	5.472 x 3.898 x 0.118	54 EXT	
4436710	023701-300	Steel	138.99 x 99.01 x 3	5.472 x 3.898 x 0.118	54 EXT	
44367-9	049700-216	Friction	133.35 x 92.79 x 2.16	5.25 x 3.653 x 0.085	45 INT	GRY
443679	049700-216	Friction	133.35 x 92.79 x 2.16	5.25 x 3.653 x 0.085	45 INT	GRY
LL-7160-302	166707-200	Steel	179.83 x 148.56 x 2.01	7.08 x 5.849 x 0.079	32 EXT	
LL7160302	166707-200	Steel	179.83 x 148.56 x 2.01	7.08 x 5.849 x 0.079	32 EXT	

## PLYMOUTH (LOCOMOTIVE)

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline
2-05193	328711-320	Steel	244.3 x 173 x 3.12	9.618 x 6.811 x 0.123	8 EXT
205193	328711-320	Steel	244.3 x 173 x 3.12	9.618 x 6.811 x 0.123	8 EXT
2-05194	328713-320	Steel	282.65 x 201.09 x 3.15	11.128 x 7.917 x 0.124	8 EXT
205194	328713-320	Steel	282.65 x 201.09 x 3.15	11.128 x 7.917 x 0.124	8 EXT
3-08491	328712-285	Friction	228.02 x 162.41 x 2.87	8.977 x 6.394 x 0.113	39 INT
308491	328712-285	Friction	228.02 x 162.41 x 2.87	8.977 x 6.394 x 0.113	39 INT
3-08492	328710-285	Friction	267.06 x 187.73 x 2.84	10.514 x 7.391 x 0.112	45 INT
308492	328710-285	Friction	267.06 x 187.73 x 2.84	10.514 x 7.391 x 0.112	45 INT

## PPM

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
5370651794	306732-485	Friction	201.17 x 40.39 x 4.88	7.92 x 1.59 x 0.192	16 INT	TAN
5370651880	306731-266	Steel	219.71 x 145.8 x 2.67	8.65 x 5.74 x 0.105	6 EXT	

## RENK

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline
50.67.011/2	330714-400	Friction	275.77 x 212.14 x 3.99	10.857 x 8.352 x 0.157	53 INT
50.67.314/2	330712-400	Friction	364.67 x 265.05 x 3.99	14.357 x 10.435 x 0.157	53 INT
50.71.206/2	330714-400	Friction	275.77 x 212.14 x 3.99	10.857 x 8.352 x 0.157	53 INT

## ROCKFORD POWERTRAIN

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline
C-305193	306709-155	Steel	142.62 x 99.14 x 1.6	5.615 x 3.903 x 0.063	8 EXT
C305193	306709-155	Steel	142.62 x 99.14 x 1.6	5.615 x 3.903 x 0.063	8 EXT
C317753-X1	049700A150	Friction	133.35 x 92.79 x 1.5	5.25 x 3.653 x 0.059	45 INT
C317753X1	049700A150	Friction	133.35 x 92.79 x 1.5	5.25 x 3.653 x 0.059	45 INT
C-317754-X1	307702-250	Friction	168.58 x 119.43 x 2.54	6.637 x 4.702 x 0.1	29 INT
C317754X1	307702-250	Friction	168.58 x 119.43 x 2.54	6.637 x 4.702 x 0.1	29 INT

# ALTO HEAVY DUTY CATALOG

## ROCKWELL / AXLETECH / MERITOR

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
C305193	306709-155	Steel	142.62 x 99.14 x 1.6	5.615 x 3.903 x 0.063	8 EXT	
C317753X1	049700BR	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	BRZ
C-317753-X1	049700BR	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	BRZ
C317754X1	307703-210	Steel	180.21 x 129.57 x 2.11	7.095 x 5.101 x 0.083	8 EXT	
C317756X1	317712-250	Friction	198.15 x 140.54 x 2.49	7.801 x 5.533 x 0.098	34 INT	
C-317756-X1	317712-250	Friction	198.15 x 140.54 x 2.49	7.801 x 5.533 x 0.098	34 INT	
CL-11-551-3	307705-630	Steel	355.04 x 238.38 x 6.35	13.978 x 9.385 x 0.25	83 EXT	
CL115513	307705-630	Steel	355.04 x 238.38 x 6.35	13.978 x 9.385 x 0.25	83 EXT	
UCL1611553	307704-500	Friction	342.77 x 50.8 x 5.21	13.495 x 2 x 0.205	53 INT	GRS
UCL-16-11553	307704-500	Friction	342.77 x 50.8 x 5.21	13.495 x 2 x 0.205	53 INT	GRS

## SAME / LAMBORGHINI / HURLIMANN

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline
16336550	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT
16436430	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT
0.163.3655.0	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT
0.164.3643.0	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT
164.3655.0	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT

## SAMSUNG

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
016336550	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	
16436420	311702	Friction	133.35 x 92.79 x 2.03	5.25 x 3.653 x 0.08	45 INT	
717304550	310728-215	Friction	117.58 x 68.28 x 2.16	4.629 x 2.688 x 0.085	33 INT	TAN
419-15-12310L	325701	Steel	173.99 x 110.01 x 1.7	6.85 x 4.331 x 0.067	68 EXT	
4191512310L	325701	Steel	173.99 x 110.01 x 1.7	6.85 x 4.331 x 0.067	68 EXT	
7173-01570	310734-236	Friction	134.11 x 87.88 x 2.36	5.28 x 3.46 x 0.093	36 EXT	GRY
717301570	310734-236	Friction	134.11 x 87.88 x 2.36	5.28 x 3.46 x 0.093	36 EXT	GRY
7173-01581	310733-200	Steel	152.53 x 94.95 x 2.01	6.005 x 3.738 x 0.079	6 EXT	
717301581	310733-200	Steel	152.53 x 94.95 x 2.01	6.005 x 3.738 x 0.079	6 EXT	
7173-04550	310728-215	Friction	117.58 x 68.28 x 2.16	4.629 x 2.688 x 0.085	33 INT	TAN
717304550	310728-215	Friction	117.58 x 68.28 x 2.16	4.629 x 2.688 x 0.085	33 INT	TAN

## SANDERSON

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
500215	023738A	Friction	190.2 x 146.76 x 2.92	7.488 x 5.778 x 0.115	59 INT	GRY
500215	023738BR	Friction	190.6 x 147.17 x 2.92	7.504 x 5.794 x 0.115	59 INT	
506931	049700BR	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	BRZ

## SCHOPF

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline
33339	329707-200	Steel	131.19 x 85.24 x 2.01	5.165 x 3.356 x 0.079	29 INT
41462	329708	Friction	177.32 x 109.22 x 2.01	6.981 x 4.3 x 0.079	35 EXT
44262	329708	Friction	177.32 x 109.22 x 2.01	6.981 x 4.3 x 0.079	35 EXT
44266	329706	Friction	137.29 x 91.24 x 2.01	5.405 x 3.592 x 0.079	27 EXT
44269	329707-200	Steel	131.19 x 85.24 x 2.01	5.165 x 3.356 x 0.079	29 INT

# ALTO HEAVY DUTY CATALOG

## SKYTRAK

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
8033096	328750	KIT - FRICTION & STEEL Contains: 4-328700, 4-328701				
8034688	328750	KIT - FRICTION & STEEL Contains: 4-328700, 4-328701				
R30WA109	328701	Steel	199.95 x 101.83 x 2.21	7.872 x 4.009 x 0.087	61 EXT	
R30WA120	328700	Friction	177.62 x 69.42 x 3.81	6.993 x 2.733 x 0.15	23 INT	BRN

## TADANO

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
363-50445230	312701-160	Steel	131.55 x 79.96 x 1.6	5.179 x 3.148 x 0.063	42 EXT	
36350445230	312701-160	Steel	131.55 x 79.96 x 1.6	5.179 x 3.148 x 0.063	42 EXT	

## TAILIFT

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
92560513	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY

## TAMROCK

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
4697094	310718	Friction	292.1 x 206.5 x 3.99	11.5 x 8.13 x 0.157	60 INT	
4697216	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	
4698491	310721-180	Steel	182.88 x 118.21 x 1.75	7.2 x 4.654 x 0.069	71 EXT	
4698492	310722	Friction	175.77 x 107.47 x 2.9	6.92 x 4.231 x 0.114	52 INT	BRN
4699659	049700BR235	Friction	133.35 x 92.79 x 2.36	5.25 x 3.653 x 0.093	45 INT	
4699660	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
4699665	049700BR235	Friction	133.35 x 92.79 x 2.36	5.25 x 3.653 x 0.093	45 INT	
4699959	023712BR295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	
4700428	310713	Steel	257.05 x 190.83 x 2.59	10.12 x 7.513 x 0.102	14 EXT	
4700647	023712BR295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	
4700648	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	
4700651	023712BR260	Friction	148.59 x 107.72 x 2.62	5.85 x 4.241 x 0.103	52 INT	BRZ

## TCI

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
93636	023761	Steel	138.99 x 99.01 x 8.76	5.472 x 3.898 x 0.345	54 EXT	
93637	049700	Friction	133.35 x 92.79 x 1.57	5.25 x 3.653 x 0.062	45 INT	GRY
93638	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
93639	023760	Steel	138.99 x 98.27 x 0.81	5.472 x 3.869 x 0.322	54 EXT	
93645	023739	Steel	214.83 x 155.58 x 1.75	8.458 x 6.125 x 0.069	3 EXT	

## TCM

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
11243-82141	330700B300	Friction	124.64 x 68.83 x 3.05	4.907 x 2.71 x 0.12	41 INT	GRY
1124382141	330700B300	Friction	124.64 x 68.83 x 3.05	4.907 x 2.71 x 0.12	41 INT	GRY
124U3-82351A	334712	Friction	134.06 x 77.42 x 2.79	5.278 x 3.048 x 0.11	38 INT	GRY
124U382351A	334712	Friction	134.06 x 77.42 x 2.79	5.278 x 3.048 x 0.11	38 INT	GRY
16262-53091	023712-295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	TAN
1626253091	023712-295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	TAN
163J2-52501	325700A220	Friction	159.97 x 97.38 x 2.24	6.298 x 3.834 x 0.088	26 INT	GRY

# ALTO HEAVY DUTY CATALOG

## TCM

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
163J252501	325700A220	Friction	159.97 x 97.38 x 2.24	6.298 x 3.834 x 0.088	26 INT	GRY
163J2-52591	325701	Steel	173.99 x 110.01 x 1.7	6.85 x 4.331 x 0.067	68 EXT	
163J252591	325701	Steel	173.99 x 110.01 x 1.7	6.85 x 4.331 x 0.067	68 EXT	
AE602893-108	330700B300	Friction	124.64 x 68.83 x 3.05	4.907 x 2.71 x 0.12	41 INT	GRY
AE602893108	330700B300	Friction	124.64 x 68.83 x 3.05	4.907 x 2.71 x 0.12	41 INT	GRY
AE602894-104	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
AE602894104	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
BK703100-9000	334712	Friction	134.06 x 77.42 x 2.79	5.278 x 3.048 x 0.11	38 INT	GRY
BK7031009000	334712	Friction	134.06 x 77.42 x 2.79	5.278 x 3.048 x 0.11	38 INT	GRY
BK750102-4000	330700B300	Friction	124.64 x 68.83 x 3.05	4.907 x 2.71 x 0.12	41 INT	GRY
BK7501024000	330700B300	Friction	124.64 x 68.83 x 3.05	4.907 x 2.71 x 0.12	41 INT	GRY

## TEREX

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
7126479	310728-215	Friction	117.58 x 68.28 x 2.16	4.629 x 2.688 x 0.085	33 INT	TAN
7229649	310728-215	Friction	117.58 x 68.28 x 2.16	4.629 x 2.688 x 0.085	33 INT	TAN
9398081	329706	Friction	137.29 x 91.24 x 2.01	5.405 x 3.592 x 0.079	27 EXT	
9398104	329707-200	Steel	131.19 x 85.24 x 2.01	5.165 x 3.356 x 0.079	29 INT	
9398112	329708	Friction	177.32 x 109.22 x 2.01	6.981 x 4.3 x 0.079	35 EXT	
15000717	329700-520	Friction	714.93 x 511.23 x 5.16	28.147 x 20.127 x 0.203	99 INT	GRY
15000719	329701-250	Steel - Brake	740.26 x 539.75 x 2.41	29.144 x 21.25 x 0.095	140 BASE 144 EXT	
15000720	329702-690	Friction	740.26 x 539.75 x 6.86	29.144 x 21.25 x 0.27	140 EXT	BRN
15235882	329700-520	Friction - Brake	714.93 x 511.23 x 5.16	28.147 x 20.127 x 0.203	99 INT	GRY
15302796	329700-520	Friction	714.93 x 511.23 x 5.16	28.147 x 20.127 x 0.203	99 INT	GRY
15302797	329701-250	Steel	740.26 x 539.75 x 2.41	29.144 x 21.25 x 0.095	140 BASE 144 EXT	
15302798	329702-690	Friction	740.26 x 539.75 x 6.86	29.144 x 21.25 x 0.27	140 EXT	BRN
464-430-8328	329709-150	Steel (Mates with 329708)	171.15 x 103.07 x 2.46	6.738 x 4.058 x 0.097	35 INT	
4644308328	329709-150	Steel (Mates with 329708)	171.15 x 103.07 x 2.46	6.738 x 4.058 x 0.097	35 INT	
7-126-479	310728-215	Friction	117.58 x 68.28 x 2.16	4.629 x 2.688 x 0.085	33 INT	TAN
7126479	310728-215	Friction	117.58 x 68.28 x 2.16	4.629 x 2.688 x 0.085	33 INT	TAN
7-229-649	310728-215	Friction	117.58 x 68.28 x 2.16	4.629 x 2.688 x 0.085	33 INT	TAN
7229649	310728-215	Friction	117.58 x 68.28 x 2.16	4.629 x 2.688 x 0.085	33 INT	TAN

## THWAITES

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
T2503	049700	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	GRY

## TORO / TAMROCK / SANDVIK

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
4698068	310715	Steel	218.97 x 158.93 x 2.72	8.621 x 6.257 x 0.107	14 EXT	
4699659	049740-230	Friction	133.35 x 92.79 x 2.31	5.25 x 3.653 x 0.091	45 INT	GRY
4699665	049740-230	Friction	133.35 x 92.79 x 2.31	5.25 x 3.653 x 0.091	45 INT	GRY
4700418	310715	Steel	218.97 x 158.93 x 2.72	8.621 x 6.257 x 0.107	14 EXT	
4700651	023712BR295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	
77021036	306732-485	Friction	201.17 x 40.39 x 4.88	7.92 x 1.59 x 0.192	16 INT	TAN

# ALTO HEAVY DUTY CATALOG

## TOYOTA

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
32343-30520- 71	330705-230	Steel	161.47 x 100.05 x 2.31	6.357 x 3.939 x 0.091	52 EXT	
323433052071	330705-230	Steel	161.47 x 100.05 x 2.31	6.357 x 3.939 x 0.091	52 EXT	
32343-30520-71	330708-260	Friction	155.96 x 88.9 x 2.59	6.14 x 3.5 x 0.102	29 INT	
323433052071	330708-260	Friction	155.96 x 88.9 x 2.59	6.14 x 3.5 x 0.102	29 INT	
32412-22030	330703-200	Steel	165.63 x 100.13 x 2.01	6.521 x 3.942 x 0.079	12 EXT	
3241222030	330703-200	Steel	165.63 x 100.13 x 2.01	6.521 x 3.942 x 0.079	12 EXT	
32413-31710- 71	330713-200	Steel	165.43 x 100.05 x 2.01	6.513 x 3.939 x 0.079	18 EXT	
324133171071	330713-200	Steel	165.43 x 100.05 x 2.01	6.513 x 3.939 x 0.079	18 EXT	
32425-U2170- 71	330707-203	Steel	139.52 x 88.52 x 1.98	5.493 x 3.485 x 0.078	8 EXT	
32425U217071	330707-203	Steel	139.52 x 88.52 x 1.98	5.493 x 3.485 x 0.078	8 EXT	
32431-12050- 71	330711	Steel	161.11 x 114.15 x 1.8	6.343 x 4.494 x 0.071	8 EXT	
324311205071	330711	Steel	161.11 x 114.15 x 1.8	6.343 x 4.494 x 0.071	8 EXT	
32431-23630- 71	330709-200	Steel	143.18 x 88.67 x 2.01	5.637 x 3.491 x 0.079	6 EXT	
324312363071	330709-200	Steel	143.18 x 88.67 x 2.01	5.637 x 3.491 x 0.079	6 EXT	
32432-22010-71	330702-250	Friction	155.7 x 87.86 x 2.54	6.13 x 3.459 x 0.1	37 INT	GRY
324322201071	330702-250	Friction	155.7 x 87.86 x 2.54	6.13 x 3.459 x 0.1	37 INT	GRY
32432-22030-71	330706-260	Friction	155.7 x 87.86 x 2.67	6.13 x 3.459 x 0.105	37 INT	GRY
324322203071	330706-260	Friction	155.7 x 87.86 x 2.67	6.13 x 3.459 x 0.105	37 INT	GRY
32432-32890	330702-250	Friction	155.7 x 87.86 x 2.54	6.13 x 3.459 x 0.1	37 INT	GRY
3243232890	330702-250	Friction	155.7 x 87.86 x 2.54	6.13 x 3.459 x 0.1	37 INT	GRY
32442-12620-71	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
324421262071	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
32442-U1130-71	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
32442U113071	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
32461-23030- 71	330710	Friction	149.66 x 107.67 x 2.62	5.892 x 4.239 x 0.103	42 INT	GRY
324612303071	330710	Friction	149.66 x 107.67 x 2.62	5.892 x 4.239 x 0.103	42 INT	GRY
32461-23630- 71	330704-257	Friction	130.63 x 79.27 x 2.57	5.143 x 3.121 x 0.101	30 INT	GRY
324612363071	330704-257	Friction	130.63 x 79.27 x 2.57	5.143 x 3.121 x 0.101	30 INT	GRY
40511-20060-71	330700B300	Friction	124.64 x 68.83 x 3.05	4.907 x 2.71 x 0.12	41 INT	GRY
405112006071	330700B300	Friction	124.64 x 68.83 x 3.05	4.907 x 2.71 x 0.12	41 INT	GRY
40615-20060- 71	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
406152006071	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
40615-20060-71	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
406152006071	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
40615-20060-71	330700B300	Friction	124.64 x 68.83 x 3.05	4.907 x 2.71 x 0.12	41 INT	GRY
406152006071	330700B300	Friction	124.64 x 68.83 x 3.05	4.907 x 2.71 x 0.12	41 INT	GRY
40616-20060- 71	330701	Steel	131.67 x 77.17 x 1.73	5.184 x 3.038 x 0.068	8 EXT	
406162006071	330701	Steel	131.67 x 77.17 x 1.73	5.184 x 3.038 x 0.068	8 EXT	

## TROJAN

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline
6901705	310713	Steel	257.05 x 190.83 x 2.59	10.12 x 7.513 x 0.102	14 EXT

## TWIN DISC

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
204097	332703	Steel For/Rev MG-506	101.6 x 64.69 x 1.6	4.000 x 2.547 x 0.063	42 INT	
215736	332711-228	Steel	203.23 x 138.4 x 2.29	8.001 x 5.449 x 0.09	56 INT	
206106X	332712	Friction - MG-518	214.88 x 151.59 x 3.15	8.46 x 5.968 x 0.124	100 EXT	GRY
206107B	332711-228	Steel	203.23 x 138.4 x 2.29	8.001 x 5.449 x 0.09	56 INT	



# ALTO HEAVY DUTY CATALOG

## TWIN DISC

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
A4480A,B,M	332704	Friction	164.24 x 103.81 x 2.87	6.466 x 4.087 x 0.113	76 EXT	
A4481A	330717-150	Steel	151.94 x 81.69 x 1.52	5.982 x 3.216 x 0.06	40 INT	
A6566E	332706	Friction	236.04 x 137.16 x 3.1	9.293 x 5.4 x 0.122	12 EXT	
A6567E	332709	Steel	203.07 x 122.94 x 4.72	7.995 x 4.84 x 0.186	40 INT	
B3060A	332702	Friction	112.14 x 71.3 x 2.16	4.415 x 2.807 x 0.085	68 EXT	
B3060B	332702	Friction - For/Rev MG-506	112.14 x 71.3 x 2.16	4.415 x 2.807 x 0.085	68 EXT	
B3336	332700	Friction	102.67 x 70.23 x 2.16	4.042 x 2.765 x 0.085	79 EXT	
B3336A	332700	Friction - For/Rev MG-502	102.67 x 70.23 x 2.16	4.042 x 2.765 x 0.085	79 EXT	
B3337	332701	Steel For/Rev MG-502	94.36 x 63.68 x 1.3	3.715 x 2.507 x 0.051	52 INT	
NA	352750A	KIT - FRICTION & STEEL Contains: 9-352704A388, 2-352712BR390, 10-352701				
P4251A,B,C	332704	Friction	164.24 x 103.81 x 2.87	6.466 x 4.087 x 0.113	76 EXT	
P4362	332702	Friction	112.14 x 71.3 x 2.16	4.415 x 2.807 x 0.085	68 EXT	
P4372	332703	Steel	101.6 x 64.69 x 1.6	4.000 x 2.547 x 0.063	42 INT	
T-22176A	023712	Friction	148.59 x 107.72 x 1.55	5.85 x 4.241 x 0.061	52 INT	TAN
T22176A	023712	Friction	148.59 x 107.72 x 1.55	5.85 x 4.241 x 0.061	52 INT	TAN
T-44804	330717-150	Steel	151.94 x 81.69 x 1.52	5.982 x 3.216 x 0.06	40 INT	
T44804	330717-150	Steel	151.94 x 81.69 x 1.52	5.982 x 3.216 x 0.06	40 INT	

## VALMET

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline
30721000	329706	Friction	137.29 x 91.24 x 2.01	5.405 x 3.592 x 0.079	27 EXT
30728100	329707-200	Steel	131.19 x 85.24 x 2.01	5.165 x 3.356 x 0.079	29 INT
32618700	049700-180	Friction	133.35 x 92.79 x 1.8	5.25 x 3.653 x 0.071	45 INT
32773200	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT

## VOITH

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
15000349611	125704	Friction	257.81 x 197.26 x 3	10.15 x 7.766 x 0.118	50 INT	GRY
50.5520.11	125709	Steel	339.65 x 264.39 x 2.49	13.372 x 10.409 x 0.098	12 EXT	
50552011	125709	Steel	339.65 x 264.39 x 2.49	13.372 x 10.409 x 0.098	12 EXT	
50.5520.14	125709	Steel	339.65 x 264.39 x 2.49	13.372 x 10.409 x 0.098	12 EXT	
50552014	125709	Steel	339.65 x 264.39 x 2.49	13.372 x 10.409 x 0.098	12 EXT	
50.7147.10	125708	Friction	317.45 x 250.19 x 3.51	12.498 x 9.85 x 0.138	63 INT	GRY
50714710	125708	Friction	317.45 x 250.19 x 3.51	12.498 x 9.85 x 0.138	63 INT	GRY
50.7147.13	125708	Friction	317.45 x 250.19 x 3.51	12.498 x 9.85 x 0.138	63 INT	GRY
50714713	125708	Friction	317.45 x 250.19 x 3.51	12.498 x 9.85 x 0.138	63 INT	GRY
50.7147.17	125708	Friction	317.45 x 250.19 x 3.51	12.498 x 9.85 x 0.138	63 INT	GRY
50714717	125708	Friction	317.45 x 250.19 x 3.51	12.498 x 9.85 x 0.138	63 INT	GRY
54.9141.16	125709	Steel	339.65 x 264.39 x 2.49	13.372 x 10.409 x 0.098	12 EXT	
54914116	125709	Steel	339.65 x 264.39 x 2.49	13.372 x 10.409 x 0.098	12 EXT	
58.2250.10	125714	Friction	317.75 x 249.94 x 3.51	12.51 x 9.84 x 0.138	63 INT	
58225010	125714	Friction	317.75 x 249.94 x 3.51	12.51 x 9.84 x 0.138	63 INT	
58.2250.13	125714	Friction	317.75 x 249.94 x 3.51	12.51 x 9.84 x 0.138	63 INT	
58225013	125714	Friction	317.75 x 249.94 x 3.51	12.51 x 9.84 x 0.138	63 INT	
58.2460.14	125704	Friction	257.81 x 197.26 x 3	10.15 x 7.766 x 0.118	50 INT	GRY
58246014	125704	Friction	257.81 x 197.26 x 3	10.15 x 7.766 x 0.118	50 INT	GRY
58.2526.13	125708	Friction	317.45 x 250.19 x 3.51	12.498 x 9.85 x 0.138	63 INT	GRY
58252613	125708	Friction	317.45 x 250.19 x 3.51	12.498 x 9.85 x 0.138	63 INT	GRY

# ALTO HEAVY DUTY CATALOG

## VOITH

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
58.4150.10	125706-320	Friction	257.81 x 197.26 x 3.2	10.15 x 7.766 x 0.126	50 INT	GRY
58415010	125706-320	Friction	257.81 x 197.26 x 3.2	10.15 x 7.766 x 0.126	50 INT	GRY
58.4150.11	125706-320	Friction	257.81 x 197.26 x 3.2	10.15 x 7.766 x 0.126	50 INT	GRY
58415011	125706-320	Friction	257.81 x 197.26 x 3.2	10.15 x 7.766 x 0.126	50 INT	GRY
58.4150.13	125706-320	Friction	257.81 x 197.26 x 3.2	10.15 x 7.766 x 0.126	50 INT	GRY
58415013	125706-320	Friction	257.81 x 197.26 x 3.2	10.15 x 7.766 x 0.126	50 INT	GRY

## VOLVO

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
795322	306709-155	Steel	142.62 x 99.14 x 1.6	5.615 x 3.903 x 0.063	8 EXT	
1529044	056702A	Friction	275.29 x 222.45 x 3.18	10.838 x 8.758 x 0.125	71 INT	GRN
4715178	330716-290	Friction	164.13 x 89.05 x 2.95	6.462 x 3.506 x 0.116	76 EXT	
4718216	330717-150	Steel	151.94 x 81.69 x 1.52	5.982 x 3.216 x 0.06	40 INT	
4720762	332705-200	Steel	152.4 x 92.51 x 2.01	6 x 3.642 x 0.079	45 INT	
4786524	049700	Friction	133.35 x 92.79 x 1.57	5.25 x 3.653 x 0.062	45 INT	GRY
4871966	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
4871979	049700	Friction	133.35 x 92.79 x 1.57	5.25 x 3.653 x 0.062	45 INT	GRY
7953227	306709-155	Steel	142.62 x 99.14 x 1.6	5.615 x 3.903 x 0.063	8 EXT	
11037156	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
11703615	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	
11703652	310715	Steel	218.97 x 158.93 x 2.72	8.621 x 6.257 x 0.107	14 EXT	
11703855	310723	Steel	228.19 x 159 x 2.64	8.984 x 6.26 x 0.104	35 EXT	
11703856	310713	Steel	257.05 x 190.83 x 2.59	10.12 x 7.513 x 0.102	14 EXT	
11703987	330722	Friction	419.48 x 100.25 x 9.55	16.515 x 3.947 x 0.376	36 INT	GRY/TAN
11704645	310716	Friction	165.07 x 74.3 x 3.99	6.499 x 2.925 x 0.157	19 INT	
11704882	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
11709086	306705-250	Steel	150.95 x 98.76 x 2.49	5.943 x 3.888 x 0.098	6 EXT	
11709332	303700-490	Friction	223.52 x 71.2 x 4.9	8.8 x 2.803 x 0.193	36 INT	GRY
11709333	303701-500	Steel	229.84 x 152.88 x 5	9.049 x 6.019 x 0.197	64 EXT	
11712160	310718	Friction	292.1 x 206.5 x 3.99	11.5 x 8.13 x 0.157	60 INT	
11992887	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
11992887	023703	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
11992913	049700BR235	Friction	133.35 x 92.79 x 2.36	5.25 x 3.653 x 0.093	45 INT	
11992958	049700BR235	Friction	133.35 x 92.79 x 2.36	5.25 x 3.653 x 0.093	45 INT	
11993759	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	
11993773	023712BR260	Friction	148.59 x 107.72 x 2.62	5.85 x 4.241 x 0.103	52 INT	BRZ
11993773	023712BR295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	
11993812	023712BR260	Friction	148.59 x 107.72 x 2.62	5.85 x 4.241 x 0.103	52 INT	BRZ
11993812	023712BR295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	
11993839	049700BR235	Friction	133.35 x 92.79 x 2.36	5.25 x 3.653 x 0.093	45 INT	
48717961	049700	Friction	133.35 x 92.79 x 1.57	5.25 x 3.653 x 0.062	45 INT	GRY
48730428	049700BR	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	BRZ
48730436	049700	Friction	133.35 x 92.79 x 1.57	5.25 x 3.653 x 0.062	45 INT	GRY
119997492	310718	Friction	292.1 x 206.5 x 3.99	11.5 x 8.13 x 0.157	60 INT	
0501-208-457	329710-450	Friction	277.85 x 166.9 x 4.5	10.939 x 6.571 x 0.177	34 INT	GRY
501208457	329710-450	Friction	277.85 x 166.9 x 4.5	10.939 x 6.571 x 0.177	34 INT	GRY
0501-309-329	329706	Friction	137.29 x 91.24 x 2.01	5.405 x 3.592 x 0.079	27 EXT	
501309329	329706	Friction	137.29 x 91.24 x 2.01	5.405 x 3.592 x 0.079	27 EXT	
0501-309-600	329706	Friction	137.29 x 91.24 x 2.01	5.405 x 3.592 x 0.079	27 EXT	

# ALTO HEAVY DUTY CATALOG

## VOLVO

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
501309600	329706	Friction	137.29 x 91.24 x 2.01	5.405 x 3.592 x 0.079	27 EXT	
0750-140-009	329706	Friction	137.29 x 91.24 x 2.01	5.405 x 3.592 x 0.079	27 EXT	
750140009	329706	Friction	137.29 x 91.24 x 2.01	5.405 x 3.592 x 0.079	27 EXT	
11037030-1	330720A480	Friction	223.52 x 70.1 x 4.9	8.8 x 2.76 x 0.193	23 INT	TAN
110370301	330720A480	Friction	223.52 x 70.1 x 4.9	8.8 x 2.76 x 0.193	23 INT	TAN
11037196-0	330718-200	Friction	163.8 x 99.24 x 2.01	6.449 x 3.907 x 0.079	76 EXT	
110371960	330718-200	Friction	163.8 x 99.24 x 2.01	6.449 x 3.907 x 0.079	76 EXT	
11703652-5	310715	Steel	218.97 x 158.93 x 2.72	8.621 x 6.257 x 0.107	14 EXT	
117036525	310715	Steel	218.97 x 158.93 x 2.72	8.621 x 6.257 x 0.107	14 EXT	
11703854-7	310719	Steel	257.05 x 190.83 x 2.59	10.12 x 7.513 x 0.102	12 EXT	
117038547	310719	Steel	257.05 x 190.83 x 2.59	10.12 x 7.513 x 0.102	12 EXT	
11999724-5	310721-180	Steel	182.88 x 118.21 x 1.75	7.2 x 4.654 x 0.069	71 EXT	
119997245	310721-180	Steel	182.88 x 118.21 x 1.75	7.2 x 4.654 x 0.069	71 EXT	
11999749-2	310718	Friction	292.1 x 206.5 x 3.99	11.5 x 8.13 x 0.157	60 INT	
119997492	310718	Friction	292.1 x 206.5 x 3.99	11.5 x 8.13 x 0.157	60 INT	
1528081-1	056700C255	Friction	182.55 x 129.64 x 2.54	7.187 x 5.104 x 0.1	30 INT	BLK
15280811	056700C255	Friction	182.55 x 129.64 x 2.54	7.187 x 5.104 x 0.1	30 INT	BLK
4.720.764-2	330718-200	Friction	163.8 x 99.24 x 2.01	6.449 x 3.907 x 0.079	76 EXT	
47207642	330718-200	Friction	163.8 x 99.24 x 2.01	6.449 x 3.907 x 0.079	76 EXT	
4.720.765-9	330718-200	Friction	163.8 x 99.24 x 2.01	6.449 x 3.907 x 0.079	76 EXT	
47207659	330718-200	Friction	163.8 x 99.24 x 2.01	6.449 x 3.907 x 0.079	76 EXT	
4.780.005	049700BR	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	BRZ
4780005	049700BR	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	BRZ
4.780.005	049700	Friction	133.35 x 92.79 x 1.57	5.25 x 3.653 x 0.062	45 INT	GRY
4.780.005	106707	Steel	172.85 x 140.18 x 2.01	6.805 x 5.519 x 0.079	11 EXT	
4780005	106707	Steel	172.85 x 140.18 x 2.01	6.805 x 5.519 x 0.079	11 EXT	
4.780.00C5-7	049700BR	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	BRZ
478000C57	049700BR	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	BRZ
4.786.524	049700	Friction	133.35 x 92.79 x 1.57	5.25 x 3.653 x 0.062	45 INT	GRY
4.786.525	049700BR	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	BRZ
4786525	049700BR	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	BRZ
4.786.525	106707	Steel	172.85 x 140.18 x 2.01	6.805 x 5.519 x 0.079	11 EXT	
4786525	106707	Steel	172.85 x 140.18 x 2.01	6.805 x 5.519 x 0.079	11 EXT	
4.871.796	049700	Friction	133.35 x 92.79 x 1.57	5.25 x 3.653 x 0.062	45 INT	GRY
4.871.966	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
4871966	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
4.873.015-4	330718-200	Friction	163.8 x 99.24 x 2.01	6.449 x 3.907 x 0.079	76 EXT	
48730154	330718-200	Friction	163.8 x 99.24 x 2.01	6.449 x 3.907 x 0.079	76 EXT	
4.873.042	106707	Steel	172.85 x 140.18 x 2.01	6.805 x 5.519 x 0.079	11 EXT	
4873042	106707	Steel	172.85 x 140.18 x 2.01	6.805 x 5.519 x 0.079	11 EXT	
4.873.042-8	049700BR	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	BRZ
48730428	049700BR	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	BRZ
4.873.042-8	106707	Steel	172.85 x 140.18 x 2.01	6.805 x 5.519 x 0.079	11 EXT	
48730428	106707	Steel	172.85 x 140.18 x 2.01	6.805 x 5.519 x 0.079	11 EXT	
464-430-8328	329709-150	Steel (Mates with 329708)	171.15 x 103.07 x 2.46	6.738 x 4.058 x 0.097	35 INT	
4644308328	329709-150	Steel (Mates with 329708)	171.15 x 103.07 x 2.46	6.738 x 4.058 x 0.097	35 INT	
47800C57	049700A150	Friction	133.35 x 92.79 x 1.5	5.25 x 3.653 x 0.059	45 INT	
4873042-7	049720	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	GRY
48730427	049720	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	GRY
4873043-6	049700BR	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	BRZ

# ALTO HEAVY DUTY CATALOG

## VOLVO

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
48730436	049700BR	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	BRZ
795322-7	306709-155	Steel	142.62 x 99.14 x 1.6	5.615 x 3.903 x 0.063	8 EXT	
7953227	306709-155	Steel	142.62 x 99.14 x 1.6	5.615 x 3.903 x 0.063	8 EXT	

## WABCO

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
A010124	056712	Friction	371.7 x 302.95 x 5.21	14.634 x 11.927 x 0.205	73 INT	BLK
A010437	056712	Friction	371.7 x 302.95 x 5.21	14.634 x 11.927 x 0.205	73 INT	BLK
A101438	352702-520	Friction	371.68 x 302.74 x 5.23	14.633 x 11.919 x 0.206	72 INT	BLK
DC-4208	326701	Steel	556.84 x 435.76 x 4.95	21.923 x 17.156 x 0.195	104 INT	
DC4208	326701	Steel	556.84 x 435.76 x 4.95	21.923 x 17.156 x 0.195	104 INT	

## WAGNER

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
22176	308701	Steel	205.59 x 145.47 x 1.65	8.094 x 5.727 x 0.065	64 EXT	
333867	023719	Steel	154.05 x 114.05 x 1.73	6.065 x 4.49 x 0.068	60 EXT	
339613	023712BR260	Friction	148.59 x 107.72 x 2.62	5.85 x 4.241 x 0.103	52 INT	BRZ
339692	310713	Steel	257.05 x 190.83 x 2.59	10.12 x 7.513 x 0.102	14 EXT	
339706	310718	Friction	292.1 x 206.5 x 3.99	11.5 x 8.13 x 0.157	60 INT	
353183	049700BR235	Friction	133.35 x 92.79 x 2.36	5.25 x 3.653 x 0.093	45 INT	
353183	049740-230	Friction	133.35 x 92.79 x 2.31	5.25 x 3.653 x 0.091	45 INT	GRY
355996	049700BR235	Friction	133.35 x 92.79 x 2.36	5.25 x 3.653 x 0.093	45 INT	
355996	049740-230	Friction	133.35 x 92.79 x 2.31	5.25 x 3.653 x 0.091	45 INT	GRY
366162	311711	Steel	209.32 x 114.3 x 2.62	8.241 x 4.5 x 0.103	1 EXT	
367134	023712BR295	Friction	148.59 x 107.72 x 2.95	5.85 x 4.241 x 0.116	52 INT	
1026166001	023701-300	Steel	138.99 x 99.01 x 3	5.472 x 3.898 x 0.118	54 EXT	
5112300360	306731-266	Steel	219.71 x 145.8 x 2.67	8.65 x 5.74 x 0.105	6 EXT	
5533961300	023712BR260	Friction	148.59 x 107.72 x 2.62	5.85 x 4.241 x 0.103	52 INT	BRZ
5540863500	310729-150	Steel	129.16 x 76 x 1.52	5.085 x 2.992 x 0.06	4 EXT	
5541184400	352711-495	Steel	387.3 x 322.78 x 4.95	15.248 x 12.708 x 0.195	30 EXT	
8440300562	306732-485	Friction	201.17 x 40.39 x 4.88	7.92 x 1.59 x 0.192	16 INT	TAN
364515420210	049720	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	GRY
10-08-666-001	308700A	Friction	196.34 x 137.92 x 2.79	7.73 x 5.43 x 0.11	44 INT	
1008666001	308700A	Friction	196.34 x 137.92 x 2.79	7.73 x 5.43 x 0.11	44 INT	
10-08-666-003	308700A	Friction	196.34 x 137.92 x 2.79	7.73 x 5.43 x 0.11	44 INT	
1008666003	308700A	Friction	196.34 x 137.92 x 2.79	7.73 x 5.43 x 0.11	44 INT	
10-21-166-001	023701-300	Steel	138.99 x 99.01 x 3	5.472 x 3.898 x 0.118	54 EXT	
1021166001	023701-300	Steel	138.99 x 99.01 x 3	5.472 x 3.898 x 0.118	54 EXT	
10-21-666-003	049720-200	Friction	133.35 x 92.79 x 2.08	5.25 x 3.653 x 0.082	45 INT	GRY
1021666003	049720-200	Friction	133.35 x 92.79 x 2.08	5.25 x 3.653 x 0.082	45 INT	GRY
10-21-666-005	049720-200	Friction	133.35 x 92.79 x 2.08	5.25 x 3.653 x 0.082	45 INT	GRY
1021666005	049720-200	Friction	133.35 x 92.79 x 2.08	5.25 x 3.653 x 0.082	45 INT	GRY
12A66	049700	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	GRY
3A66	049700BR	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	BRZ
72/176	023739	Steel	214.83 x 155.58 x 1.75	8.458 x 6.125 x 0.069	3 EXT	
72176	023739	Steel	214.83 x 155.58 x 1.75	8.458 x 6.125 x 0.069	3 EXT	
72/A66B	023738BR	Friction	190.6 x 147.17 x 2.92	7.504 x 5.794 x 0.115	59 INT	
72A66B	023738BR	Friction	190.6 x 147.17 x 2.92	7.504 x 5.794 x 0.115	59 INT	
SK4461'65-G	023703	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	

# ALTO HEAVY DUTY CATALOG

## WAGNER

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
T22176A	308701	Steel	205.59 x 145.47 x 1.65	8.094 x 5.727 x 0.065	64 EXT	
VA9758	330717-150	Steel	151.94 x 81.69 x 1.52	5.982 x 3.216 x 0.06	40 INT	

## WHITE

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline
72161738	023703	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT

## WICHITA

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline
308-11-24	326701	Steel	556.84 x 435.76 x 4.95	21.923 x 17.156 x 0.195	104 INT
3081124	326701	Steel	556.84 x 435.76 x 4.95	21.923 x 17.156 x 0.195	104 INT

## YALE

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
365	023703	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
3176	023701	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	
630243	334710	Friction	191.77 x 117.35 x 2.39	7.55 x 4.62 x 0.094	37 EXT	
643847	308701	Steel	205.59 x 145.47 x 1.65	8.094 x 5.727 x 0.065	64 EXT	
643848	308700A	Friction	196.34 x 137.92 x 2.79	7.73 x 5.43 x 0.11	44 INT	
4907850	308701	Steel	205.59 x 145.47 x 1.65	8.094 x 5.727 x 0.065	64 EXT	
58001956	319722G	Friction	133.35 x 92.79 x 2.49	5.25 x 3.653 x 0.098	45 INT	GRY
59217800	308701	Steel	205.59 x 145.47 x 1.65	8.094 x 5.727 x 0.065	64 EXT	
059217900	308701	Steel	205.59 x 145.47 x 1.65	8.094 x 5.727 x 0.065	64 EXT	
59218000	308700A	Friction	196.34 x 137.92 x 2.79	7.73 x 5.43 x 0.11	44 INT	
505971559	049720-200	Friction	133.35 x 92.79 x 2.08	5.25 x 3.653 x 0.082	45 INT	GRY
505971578	023701-300	Steel	138.99 x 99.01 x 3	5.472 x 3.898 x 0.118	54 EXT	
518470818	023701-300	Steel	138.99 x 99.01 x 3	5.472 x 3.898 x 0.118	54 EXT	
518470819	049720-200	Friction	133.35 x 92.79 x 2.08	5.25 x 3.653 x 0.082	45 INT	GRY
580014555	049720-200	Friction	133.35 x 92.79 x 2.08	5.25 x 3.653 x 0.082	45 INT	GRY
1021666002	049720-200	Friction	133.35 x 92.79 x 2.08	5.25 x 3.653 x 0.082	45 INT	GRY
1021666005	049720-200	Friction	133.35 x 92.79 x 2.08	5.25 x 3.653 x 0.082	45 INT	GRY
0592179-00	308701	Steel	205.59 x 145.47 x 1.65	8.094 x 5.727 x 0.065	64 EXT	
059-217-900	308701	Steel	205.59 x 145.47 x 1.65	8.094 x 5.727 x 0.065	64 EXT	
059217900	308701	Steel	205.59 x 145.47 x 1.65	8.094 x 5.727 x 0.065	64 EXT	
0592180-00	308700A	Friction	196.34 x 137.92 x 2.79	7.73 x 5.43 x 0.11	44 INT	
059-218-000	308700A	Friction	196.34 x 137.92 x 2.79	7.73 x 5.43 x 0.11	44 INT	
059218000	308700A	Friction	196.34 x 137.92 x 2.79	7.73 x 5.43 x 0.11	44 INT	
505-971-559	049720-200	Friction	133.35 x 92.79 x 2.08	5.25 x 3.653 x 0.082	45 INT	GRY
505971559	049720-200	Friction	133.35 x 92.79 x 2.08	5.25 x 3.653 x 0.082	45 INT	GRY
505-971-578	023701-300	Steel	138.99 x 99.01 x 3	5.472 x 3.898 x 0.118	54 EXT	
505971578	023701-300	Steel	138.99 x 99.01 x 3	5.472 x 3.898 x 0.118	54 EXT	
5184708-19	049720-200	Friction	133.35 x 92.79 x 2.08	5.25 x 3.653 x 0.082	45 INT	GRY
518-470-819	049720-200	Friction	133.35 x 92.79 x 2.08	5.25 x 3.653 x 0.082	45 INT	GRY
518470819	049720-200	Friction	133.35 x 92.79 x 2.08	5.25 x 3.653 x 0.082	45 INT	GRY
5800145-55	049720-200	Friction	133.35 x 92.79 x 2.08	5.25 x 3.653 x 0.082	45 INT	GRY
580-014-555	049720-200	Friction	133.35 x 92.79 x 2.08	5.25 x 3.653 x 0.082	45 INT	GRY
580014555	049720-200	Friction	133.35 x 92.79 x 2.08	5.25 x 3.653 x 0.082	45 INT	GRY
580-019-516	049730-250	Friction	133.35 x 92.79 x 2.51	5.25 x 3.653 x 0.099	45 INT	GRY
580019516	049730-250	Friction	133.35 x 92.79 x 2.51	5.25 x 3.653 x 0.099	45 INT	GRY

# ALTO HEAVY DUTY CATALOG

## YALE

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
580-020-036	023701-250	Steel	138.99 x 99.01 x 2.49	5.472 x 3.898 x 0.098	54 EXT	
580020036	023701-250	Steel	138.99 x 99.01 x 2.49	5.472 x 3.898 x 0.098	54 EXT	
5CA66A	049700BR	Friction	133.35 x 92.79 x 1.55	5.25 x 3.653 x 0.061	45 INT	BRZ
72A66	023738BR	Friction	190.6 x 147.17 x 2.92	7.504 x 5.794 x 0.115	59 INT	
750-112-5000	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
7501125000	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
750-115-5000	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
7501155000	330700A260	Friction	124.64 x 68.83 x 2.59	4.907 x 2.71 x 0.102	41 INT	GRY
800-083-842	049730-250	Friction	133.35 x 92.79 x 2.51	5.25 x 3.653 x 0.099	45 INT	GRY
800083842	049730-250	Friction	133.35 x 92.79 x 2.51	5.25 x 3.653 x 0.099	45 INT	GRY
900-952-804	334712	Friction	134.06 x 77.42 x 2.79	5.278 x 3.048 x 0.11	38 INT	GRY
900952804	334712	Friction	134.06 x 77.42 x 2.79	5.278 x 3.048 x 0.11	38 INT	GRY
902-152-850	312701-160	Steel	131.55 x 79.96 x 1.6	5.179 x 3.148 x 0.063	42 EXT	
902152850	312701-160	Steel	131.55 x 79.96 x 1.6	5.179 x 3.148 x 0.063	42 EXT	
AT22066	308700A	Friction	196.34 x 137.92 x 2.79	7.73 x 5.43 x 0.11	44 INT	
SK446165G	023703	Steel	138.99 x 99.01 x 1.73	5.472 x 3.898 x 0.068	54 EXT	

## YANMAR

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
580020036	023701-250	Steel	138.99 x 99.01 x 2.49	5.472 x 3.898 x 0.098	54 EXT	
901465884A	049730-250	Friction	133.35 x 92.79 x 2.51	5.25 x 3.653 x 0.099	45 INT	GRY

## ZF

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
7302726	053703	Steel	156.03 x 119.13 x 1.8	6.143 x 4.69 x 0.071	12 EXT	
7302727	053702	Friction	142.88 x 110.08 x 1.55	5.625 x 4.334 x 0.061	24 INT	GRY
7302752	053700	Friction	99.85 x 68.17 x 1.55	3.931 x 2.684 x 0.061	34 INT	GRY
7302753	053701	Steel	107.82 x 76.17 x 1.8	4.245 x 2.999 x 0.071	24 EXT	
0501 214 260	313720-160	Friction	109.63 x 68.53 x 1.63	4.316 x 2.698 x 0.064	34 INT	GRY
501214260	313720-160	Friction	109.63 x 68.53 x 1.63	4.316 x 2.698 x 0.064	34 INT	GRY
0501 308 325	329706	Friction	137.29 x 91.24 x 2.01	5.405 x 3.592 x 0.079	27 EXT	
501308325	329706	Friction	137.29 x 91.24 x 2.01	5.405 x 3.592 x 0.079	27 EXT	
0501 308 328	329708	Friction	177.32 x 109.22 x 2.01	6.981 x 4.3 x 0.079	35 EXT	
501308328	329708	Friction	177.32 x 109.22 x 2.01	6.981 x 4.3 x 0.079	35 EXT	
0501 309 329	329706	Friction	137.29 x 91.24 x 2.01	5.405 x 3.592 x 0.079	27 EXT	
501309329	329706	Friction	137.29 x 91.24 x 2.01	5.405 x 3.592 x 0.079	27 EXT	
0501 309 330	329708	Friction	177.32 x 109.22 x 2.01	6.981 x 4.3 x 0.079	35 EXT	
501309330	329708	Friction	177.32 x 109.22 x 2.01	6.981 x 4.3 x 0.079	35 EXT	
0501 309 534	329708	Friction	177.32 x 109.22 x 2.01	6.981 x 4.3 x 0.079	35 EXT	
501309534	329708	Friction	177.32 x 109.22 x 2.01	6.981 x 4.3 x 0.079	35 EXT	
0501 309 541	329708	Friction	177.32 x 109.22 x 2.01	6.981 x 4.3 x 0.079	35 EXT	
501309541	329708	Friction	177.32 x 109.22 x 2.01	6.981 x 4.3 x 0.079	35 EXT	
0501 309 600	329706	Friction	137.29 x 91.24 x 2.01	5.405 x 3.592 x 0.079	27 EXT	
501309600	329706	Friction	137.29 x 91.24 x 2.01	5.405 x 3.592 x 0.079	27 EXT	
0501 310 174	329708	Friction	177.32 x 109.22 x 2.01	6.981 x 4.3 x 0.079	35 EXT	
501310174	329708	Friction	177.32 x 109.22 x 2.01	6.981 x 4.3 x 0.079	35 EXT	
0501-309-329	329706	Friction	137.29 x 91.24 x 2.01	5.405 x 3.592 x 0.079	27 EXT	
501309329	329706	Friction	137.29 x 91.24 x 2.01	5.405 x 3.592 x 0.079	27 EXT	
0501-309-330	329708	Friction	177.32 x 109.22 x 2.01	6.981 x 4.3 x 0.079	35 EXT	

# ALTO HEAVY DUTY CATALOG

## ZF

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline	Matl
501309330	329708	Friction	177.32 x 109.22 x 2.01	6.981 x 4.3 x 0.079	35 EXT	
0501-309-541	329708	Friction	177.32 x 109.22 x 2.01	6.981 x 4.3 x 0.079	35 EXT	
501309541	329708	Friction	177.32 x 109.22 x 2.01	6.981 x 4.3 x 0.079	35 EXT	
0501-309-600	329706	Friction	137.29 x 91.24 x 2.01	5.405 x 3.592 x 0.079	27 EXT	
501309600	329706	Friction	137.29 x 91.24 x 2.01	5.405 x 3.592 x 0.079	27 EXT	
0750 140 009	329706	Friction	137.29 x 91.24 x 2.01	5.405 x 3.592 x 0.079	27 EXT	
750140009	329706	Friction	137.29 x 91.24 x 2.01	5.405 x 3.592 x 0.079	27 EXT	
0750 140 010	329708	Friction	177.32 x 109.22 x 2.01	6.981 x 4.3 x 0.079	35 EXT	
750140010	329708	Friction	177.32 x 109.22 x 2.01	6.981 x 4.3 x 0.079	35 EXT	
0750-140-009	329706	Friction	137.29 x 91.24 x 2.01	5.405 x 3.592 x 0.079	27 EXT	
750140009	329706	Friction	137.29 x 91.24 x 2.01	5.405 x 3.592 x 0.079	27 EXT	
0750-140-010	329708	Friction	177.32 x 109.22 x 2.01	6.981 x 4.3 x 0.079	35 EXT	
750140010	329708	Friction	177.32 x 109.22 x 2.01	6.981 x 4.3 x 0.079	35 EXT	
4166-236-098	121706	Friction	328.93 x 285.6 x 3	12.95 x 11.244 x 0.118	18 INT	GRY
4166236098	121706	Friction	328.93 x 285.6 x 3	12.95 x 11.244 x 0.118	18 INT	GRY
4166-236-129	121706	Friction	328.93 x 285.6 x 3	12.95 x 11.244 x 0.118	18 INT	GRY
4166236129	121706	Friction	328.93 x 285.6 x 3	12.95 x 11.244 x 0.118	18 INT	GRY
4642 208 034	329706	Friction	137.29 x 91.24 x 2.01	5.405 x 3.592 x 0.079	27 EXT	
4642208034	329706	Friction	137.29 x 91.24 x 2.01	5.405 x 3.592 x 0.079	27 EXT	
4642 308 096	329707-200	Steel	131.19 x 85.24 x 2.01	5.165 x 3.356 x 0.079	29 INT	
4642308096	329707-200	Steel	131.19 x 85.24 x 2.01	5.165 x 3.356 x 0.079	29 INT	
4642 308 332	329707-200	Steel	131.19 x 85.24 x 2.01	5.165 x 3.356 x 0.079	29 INT	
4642308332	329707-200	Steel	131.19 x 85.24 x 2.01	5.165 x 3.356 x 0.079	29 INT	
464-230-8330	329707-150	Steel - Kolene Model 6WG-200	131.19 x 85.24 x 1.5	5.165 x 3.356 x 0.059	29 INT	
4642308330	329707-150	Steel - Kolene Model 6WG-200	131.19 x 85.24 x 1.5	5.165 x 3.356 x 0.059	29 INT	
464-230-8331	329707-250	Steel - Kolene Model 6WG-200	131.19 x 85.24 x 2.49	5.165 x 3.356 x 0.098	29 INT	
4642308331	329707-250	Steel - Kolene Model 6WG-200	131.19 x 85.24 x 2.49	5.165 x 3.356 x 0.098	29 INT	
464-230-8332	329707-200	Steel - Kolene Model 6WG-200	131.19 x 85.24 x 2.01	5.165 x 3.356 x 0.079	29 INT	
4642308332	329707-200	Steel - Kolene Model 6WG-200	131.19 x 85.24 x 2.01	5.165 x 3.356 x 0.079	29 INT	
4644 208 072	329708	Friction	177.32 x 109.22 x 2.01	6.981 x 4.3 x 0.079	35 EXT	
4644208072	329708	Friction	177.32 x 109.22 x 2.01	6.981 x 4.3 x 0.079	35 EXT	
Not Available	330701A160	Steel	131.06 x 80.26 x 1.6	5.16 x 3.16 x 0.063	8 EXT	

## ZETZLEMEYER

Ref #	Alto #	Description	OD ID THK mm	OD ID THK in	Spline
22002405	329706	Friction	137.29 x 91.24 x 2.01	5.405 x 3.592 x 0.079	27 EXT
2200 2405	329706	Friction	137.29 x 91.24 x 2.01	5.405 x 3.592 x 0.079	27 EXT
2258 6601	329708	Friction	177.32 x 109.22 x 2.01	6.981 x 4.3 x 0.079	35 EXT
22586601	329708	Friction	177.32 x 109.22 x 2.01	6.981 x 4.3 x 0.079	35 EXT
2282 6840	329708	Friction	177.32 x 109.22 x 2.01	6.981 x 4.3 x 0.079	35 EXT
22826840	329708	Friction	177.32 x 109.22 x 2.01	6.981 x 4.3 x 0.079	35 EXT

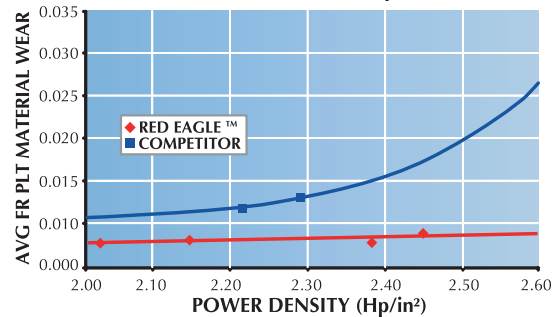
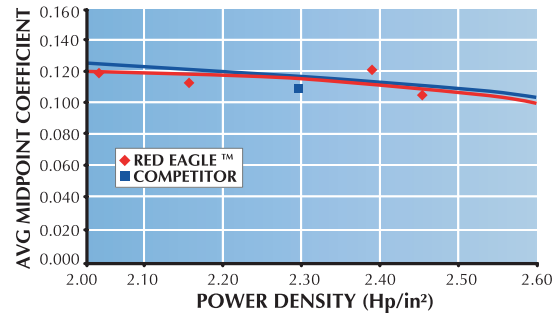


## Red Eagle® Friction Plates

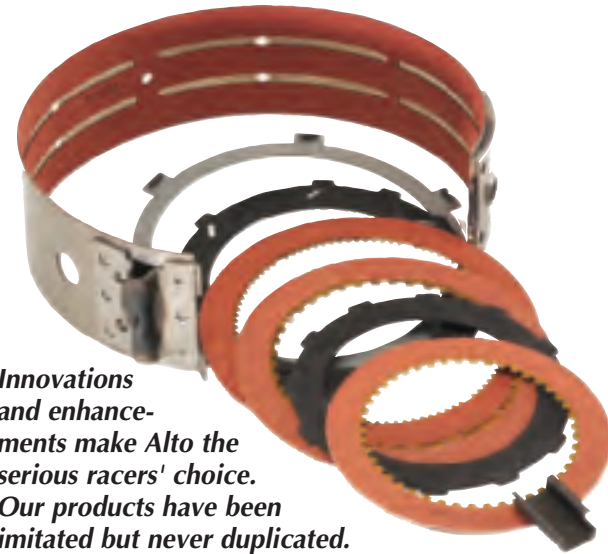
Alto has pioneered Hi-Performance racing innovations for over 25 years. We are the leader in Hi-Performance technology with Original Equipment Improvement Products (OEI™) which include: PowerPacks®, PowerBands®, Kolene® Steels, Turbulator Steels, Anti-Drag™ Steels and Red Eagle® Frictions.

Clutches fail in Hi-Performance applications due to excessive heat. Original Red Eagle® clutches are specially designed to reduce slipping which generates heat and can withstand higher temperatures than the competition. Our unique dual saturation process imparts high performance frictional properties and high heat resistance.

### Red Eagle® vs. the Competition



Alto Red Eagle® material offers similar mid-point coefficient at high horsepower applications. In addition, the Alto Red Eagle® material gives superior friction wear characteristics at high energy engagements. The leading competitor's material degrades thermally and physically after reaching approximately 2.25 HP/in<sup>2</sup>.



**Innovations and enhancements make Alto the serious racers' choice. Our products have been imitated but never duplicated.**

#### BENEFITS FROM THE ORIGINAL RED EAGLE® BRAND:

- Lessened friction material wear
- Reduced incidence of steel plates burning and warping
- Increased surface area for decreased "slipping"
- Increased holding
- Decreased heat generation



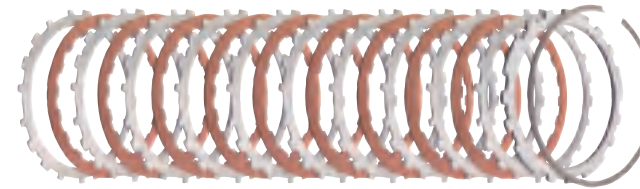
#### POWERGLIDE SOLUTIONS FOR THE SERIOUS RACER

- PowerPacks® with Kolene® Turbulator Steels
  - ▶ Increases capacity and reduces heat
- PowerBands® in Red Eagle® and Carbonite® Lining
  - ▶ Enhances torque load and improves shift
- Reverse Pressure Plate Manufactured with High Strength Steel
  - ▶ Prevents shattering of pressure plate
- Selective Reverse Steels
  - ▶ Trans Brake Adjustment
- RapidRelease™ High and Reverse Steel Plates
  - ▶ Reduces heat and parasitic drag
- Chrome and Hi-Performance Teflon Sealing Rings
  - ▶ Improves sealing performance under load

## Original Equipment Improvement (OEI™)

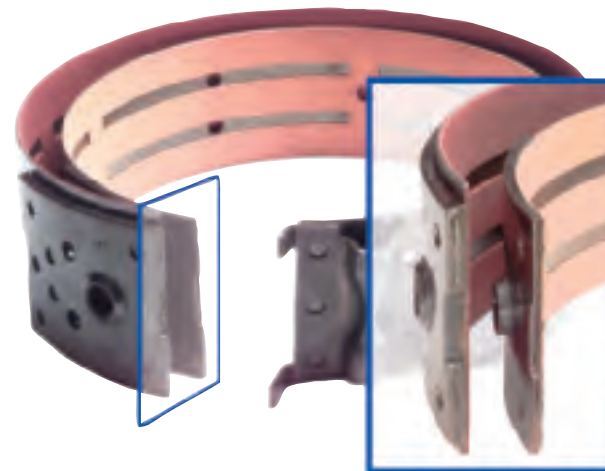
### POWERPACKS®

Alto PowerPacks® are the industry standard in Hi-Performance and Heavy-Duty applications. PowerPacks® are specially engineered clutch packs designed with additional clutches to increase friction plate capacity. This capacity increase enables torque load to spread over more friction area, resulting in a clutch pack that can handle higher torque load with reduced heat generation. These PowerPacks® are available on the most popular racing units in both stock and Red Eagle® Hi-Performance lining.



### POWERBANDS®

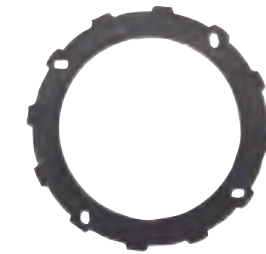
PowerBands® enhance torque load and improve shift quality. They are designed wider than the original band to increase stopping capacity of up to 25%. Anchors have been increased in thickness and heat treated when required to eliminate premature failures. These bands are available on the TH700R4, TH200, C-6, 4F27E/FN4A-EL, A413/A670 and Powerglide in both Red Eagle® and Carbonite® Hi-Performance lining.



## Steel Separator Plate Technology

### KOLENE® STEEL PLATES

Kolene® is a salt bath nitriding process. In technical terms, it is a thermo chemical diffusion process, whereby ferrous parts are processed in molten salt with a specific nitrogen potential. It provides a surface treatment that enhances wear and fatigue resistance from 200% to 500% while imparting higher heat resistance and increased lubricity.

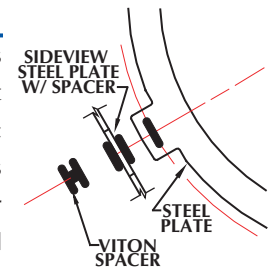


### TURBULATOR TECHNOLOGY

Turbulator technology reduces heat and parasitic drag by breaking the surface tension of the fluid between friction and steel elements.

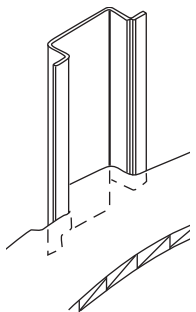
### ANTI-DRAG® STEELS

Alto's patented Anti-Drag™ plates eliminate the parasitic drag that takes place when a multiple disc clutch is disengaged. Viton spacers (rubber grommets), slightly thicker than the friction plate, are inserted into the teeth and used in the clutch pack to separate the steels from the friction discs. This technology decreases clutch drag and reduces heat.



### CASESAVERS™

Reverse steels scar the Powerglide case. Indentations produced by the reverse steels cause the plates to stick and allow metal to enter in the valve body. This plate hang-up increases reaction time. Alto's patented CaseSaver™ gives the steel plate a smooth surface to interact with; eliminating clutch hang-up and preventing extraneous metal from reaching the valve body.





# ALTO DIESEL PERFORMANCE PowerPacks®



Enhancements and improvements in friction material technology maintain Alto Products Corp. as the market leader in Original Equipment Improvements (OEI®). The Diesel Performance market is the latest area that separates Alto Clutches from the competition.

Our Friction Material and durability enhancements lead the Diesel Performance market. Due to engine and computer modifications OE clutches fail in these applications due to excessive heat and insufficient capacity. Alto Red Eagle Hi-Performance and Hi-Energy Friction Materials incorporated in extra capacity PowerPacks® make Alto the only choice for High Horsepower and High Torque applications for the Diesel Performance market.

## Red Eagle® Friction Plates

Alto has pioneered Hi-Performance racing innovations for over 25 years. We are the leader in Hi-Performance technology with Original Equipment Improvement Products (OEI®) which include: PowerPacks®, PowerBands®, Kolene® Steels, Turbulator Steels, Anti-Drag™ Steels and Red Eagle® Frictions.

Clutches fail in Hi-Performance applications due to excessive heat. Original Red Eagle® clutches are specially designed to reduce slipping which generates heat and can withstand higher temperatures than the competition. Our unique dual saturation process imparts high performance frictional properties and high heat resistance.

## Benefits from the Original Red Eagle® Brand

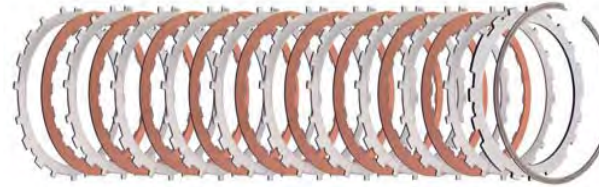
- Lessened friction material wear
- Reduced incidence of steel plates burning and warping
- Increased surface area for decreased "slipping"
- Increased holding
- Decreased heat generation

## Kolene® Steel Plates

Kolene® is a salt bath nitriding process. In technical terms, it is a thermo chemical diffusion process, whereby ferrous parts are processed in molten salt with a specific nitrogen potential. It provides a surface treatment that enhances wear and fatigue resistance from 200% to 500% while imparting higher heat resistance and increased lubricity.

## POWERPACKS®

Alto PowerPacks® are the industry standard in Hi-Performance and Heavy-Duty applications. PowerPacks® are specially engineered clutch packs designed with additional clutches to increase friction plate capacity. This capacity increase enables torque load to spread over more friction area, resulting in a clutch pack that can handle higher torque load with reduced heat generation. These PowerPacks® are available on the most popular diesel performance units.



## GM ALLISON POWERPACKS®

B1000, B2000, B2400

152755	Powerpack®	C-1 Clutch 1999-2005
152755A	Powerpack®	C-1 Clutch 2006-On
152756	Powerpack®	C-2 Clutch 1999-2005
152756A	Powerpack®	C-2 Clutch 2006-On
152757	Powerpack®	C-3 Clutch 1999-2005
152757A	Powerpack®	C-3 Clutch 2006-On
152758	Powerpack®	C-4 Clutch 1999-2005
152758A	Powerpack®	C-4 Clutch 2006-On
152378HP	Shaft	Output Shaft, 4WD 300M
152377HP	Shaft	Input Shaft, 300M

## FORD POWERPACKS®

C6, E4OD, 4R100

026755	Powerpack®	E4OD C6, 4R100 Forward 1966-On
026756	Powerpack®	4R100 Intermediate 1999-On
026757HP	Powerpack®	4R100 C6, E4OD Direct 1966-On
026758A	Powerpack®	E4OD OverDrive 1989-1998
026758	Powerpack®	4R100 OverDrive 1999-On

5R110W

166757	Powerpack®	Direct 2003-On
166756	Powerpack®	Forward 2003-2004
166756A	Powerpack®	Forward 2005-On

## CHRYSLER POWERPACKS®

TF8, A727, A518, 47RE, A618, 48RE

028755	Powerpack®	Front 1971-2002
028756	Powerpack®	Rear 1990-2002
028756A	Powerpack®	Rear 2003-On
028757	Powerpack®	OverDrive Brake 90-On
028381AHP	Shaft	Intermediate Shaft, 300M



## AUTOMATIC TRANSMISSION PARTS

- Friction and Steel Plates
- Hi-Performance Red Eagle Clutches
- Banner, Master and Super Rebuilding Kits
- Gears and Hard Parts
- OEI® Parts and PowerSolutions™

## STANDARD TRANSMISSION PARTS

- Clutch Kits
- Clutch Discs, Clutch Covers, Bearings
- Clutch Hydraulics

## PRODUCT LINE APPLICATIONS

- Automotive and Light Duty
- Light, Medium and Heavy Duty Truck
- Heavy Duty Off Highway and Agricultural
- Hi-Performance
- Marine
- Motorcycle

## MARKETS SERVED

- Original Equipment
- Original Aftermarket
- Original Equipment Improvement (OEI®)

Alto products are distributed by a worldwide network of professional parts distributors. If your distributor does not stock Alto Red Eagle® Diesel Performance parts, contact us and we will put you in touch with one who does.



ALTO PRODUCTS CORP  
 Alto Way · Atmore, AL · 36502  
 251.368.7777 · Fax: 251.368.7774  
 sales@altoUSA.com · altoUSA.com

GMC DURAMAX DIESEL Diesel



FORD POWERSTROKE stroke



DODGE CUMMINS Cummins

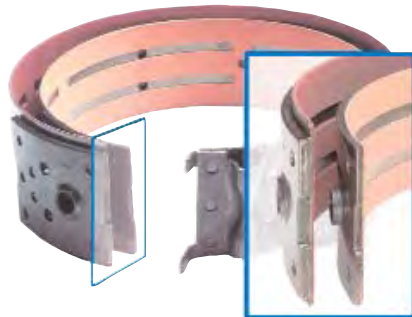


# INNOVATIONS & ENHANCEMENTS MAKE ALTO THE SERIOUS RACERS' CHOICE.



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## RED EAGLE® BENEFITS:

- Lessened friction material wear
- Reduced incidence of steel plates burning and warping
- Increased surface area for decreased "slipping"
- Increased holding
- Decreased heat generation



## DON'T JUST TAKE OUR WORD FOR IT.

Look at what performance professionals are saying...

### A & A TRANSMISSION:



"R & D of the Torque Flight has breathed new life, durability and strength into this transmission, thanks to Red Eagle® clutches and Kolene® steels."

— Rick Allison, World's Fastest Torque Flight

### DYNAMIC RACING TRANSMISSIONS:



"For over a decade, Dynamic Racing has used Alto in specialized racing applications. Red Eagle® clutches and Kolene® steels are key elements in our high horsepower Pro-Tree II Glides."

— Harold Miller

### HUGHES PERFORMANCE:



"With the advanced horsepower in racing, there is the need for a superior transmission. That's why I use and recommend Red Eagle® clutches and Kolene® steels."

— Jim Hughes, Super Comp NW National Champ

### LEVEL 10:



"With over 30 years of experience using different brands of clutches, I find the Red Eagle® clutch is without a doubt the best on the market."

— Pat Barrett

### PERFORMANCE AUTOMATIC TRANSMISSIONS:



"For over 15 years we've been building the fastest C-4 transmissions in the country. Our customers demand the best clutch plates money can buy and the Red Eagle® clutches have withstood all the punishment."

— Tom Cyr

### TRANSMISSION SPECIALTIES:



"We use Alto in the assembly of all Hi-Performance transmissions we manufacture. Red Eagle® clutches and Kolene® steels have the durability and consistency necessary to withstand tough demands expected of a quality Hi-Performance transmission."

— Peter Miller

### TPI PERFORMANCE TRANSMISSIONS:



"We have a 1958 Corvette 2500HP, 526 Supercharge and a Lenco 3-speed. We use only Red Eagle® clutches and our best time is 6.19-200mph. We get over 100 passes a season. It's the only clutch we use or sell."

— Bill Hyzy

### TSR RACING PRODUCTS:



"For the utmost in performance and reliability we install Red Eagle® clutches and Kolene® steels in every unit."

— Carl Munroe, National SuperRod Runner-Up