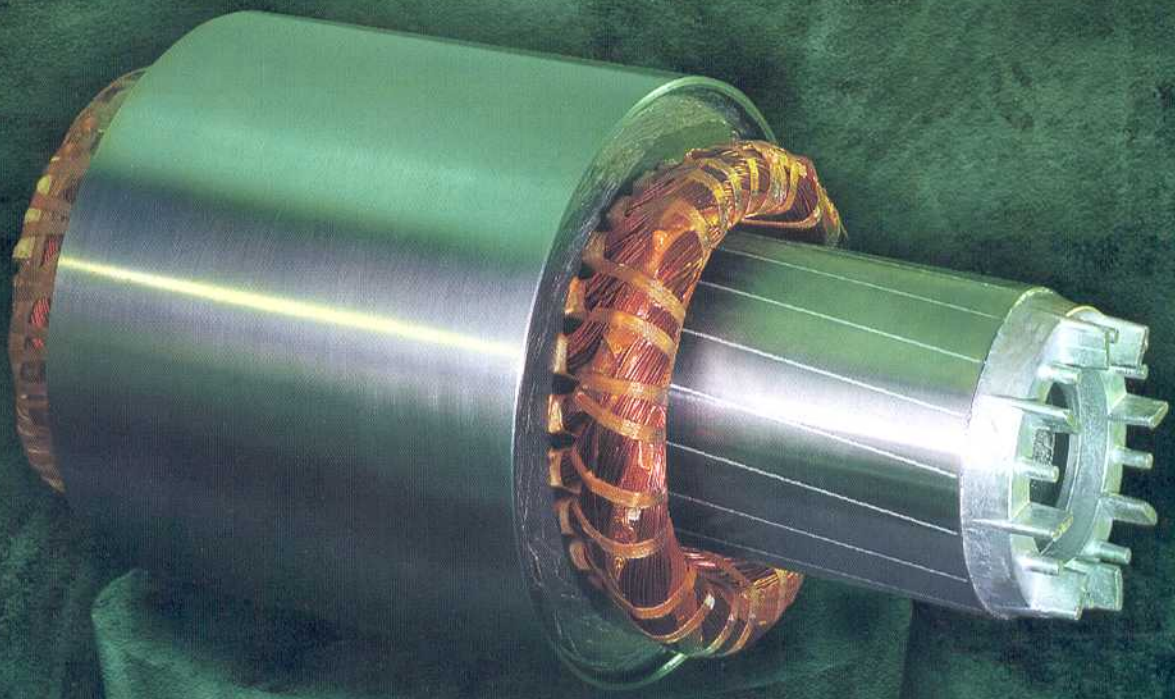


REULAND PARTIAL MOTORS



REULAND ELECTRIC
Manufacturer of Electric Motors and Related Products



REULAND PARTIAL MOTORS CORE SOLUTIONS FOR BUILT-IN POWER DRIVES

Staying attuned to industry needs and providing designs optimized to individual customer applications has helped make Reuland a leader in the design and manufacture of high-performance motors for more than 50 years. Partial Motors are a prime example of Reuland's commitment to providing motor configurations that afford customers the maximum freedom to control the design, sourcing and manufacture of their products.

Custom Designed For Flexibility And Economy

Comprising the essential electrical components of an electric motor — rotor and wound stator — Reuland Partial Motors provide the tuned performance and reliability at the core of a successful power drive. Mechanical components including housing, end brackets, shaft, bearings and cooling apparatus are

furnished by the customer. The rotor is installed on the common shaft with the work piece resulting in a compact design, lower inertia, and the elimination of couplings, transmissions, sheaves and belts. With no parts to couple together, alignment and guards are also eliminated.

High-Speed Inverter Duty And Permanent Magnet Synchronous Versions For Popular Applications

Available in both High-Speed Inverter Duty and Permanent Magnet Synchronous versions, Reuland Partial Motors facilitate any practical diameter and length configuration because the rotor/stator set is not bound by conventional NEMA frame size limits. Popular applications include machine tools, spindles, drilling and boring machines, routers, arbors, grinders, lathes, pumps, hoists, compressors and any machine

where a space-saving, built-in drive is required.

Built For Maximum Performance And Dependability

With a product scope that includes all popular competitive shell-type motor diameters, Reuland Partial Motors are available with a wide range of electrical and performance characteristics including over 20,000 ratings from 0.05 to 1000 HP with 60 Hz speeds from 200 to 3600 RPM as well as multispeeds. Utilizing a variety of fully processed, high silicon lamination steels, frequencies to 2000 Hz are available resulting in speeds to 90,000 RPM. Reuland's optimized lamination and slot geometry, combined with the highest grades of insulation materials, always assure customers the maximum in performance, quality and reliability.

THE REULAND DIFFERENCE

Meeting the needs of today's industries and anticipating the engineering challenges of the future are Reuland's goals for every motor that leaves the factory. To achieve these goals, we work hand in hand with our customers through all phases of design, manufacture and implementation to ensure that our brilliant designs perform just as brilliantly on the job.

Product Quality Is Our Mirror

At Reuland, we believe that product quality most accurately reflects our pride, professionalism and commitment to our customers. As part of our "total ownership" approach to quality, we develop the design and produce the prototype. We even operate our own pattern shop. To provide optimum electrical characteristics, we hand-wind every stator.



To assure ultimate reliability, we painstakingly insulate every critical winding. Additionally, our digitally-controlled machining process assures accurate alignment and absolute product consistency.

We then subject every product to an exhaustive process of testing, re-testing and testing again. Of course, the ultimate

validation of Reuland quality can be found in the many thousands of Reuland motors that flawlessly serve a wide array of industries and applications throughout the world every day.

Our Only Standard Is Excellence

Because there are no "standard customers" at Reuland, we have no "standard solutions" to a customer's needs. Every application is treated as a unique challenge by our team of electrical and mechanical designers, manufacturing engineers, quality control technicians, customer support staff and account managers. At Reuland, we succeed only to the degree to which we help our customers succeed. That's The Reuland Difference.

CORE SOLUTIONS FOR BUILT-IN POWER DRIVES

Mechanical Features

Rotor Options	High-pressure die-cast aluminum rotors for NEMA B designs include cooling fins and balancing lugs. Cooling fins and balancing lugs are removed on high-speed applications. Fabricated rotors and encapsulated end rings are available.
Rotor Bore	Large straight-bore rotors are available with oversize diameters or with tapered bore upon request.
Stators	Available with or without shell.
General Dimensions	Large selection of diameters and stacking lengths available as standard. Special lengths available upon request.
Shell Construction Options	Shell-type motors available with standard length or extended length shells constructed of aluminum, cold roll or stainless steel, or from materials specified by customer. Shells available with heavy wall thickness and grooved for customer liquid cooling.
Leads	High-temperature, oil-resistant, three-foot leads supplied as standard.

Electrical Features

Horsepower	0.05 to 1000 HP maximum performance designs, depending on speed and cooling.
Poles	2 thru 6 poles available as standard, higher upon request. Multispeed also available.
Design	Squirrel cage induction, NEMA B standard. Permanent magnet designs also available.
Voltage	Up to 600 VAC.
Frequency	Up to 2000 Hz.
Insulation	Premium class H with high-temperature varnish standard.

Reuland Notes

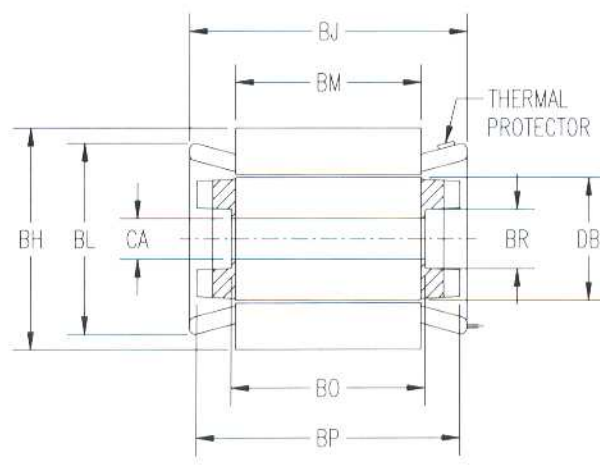
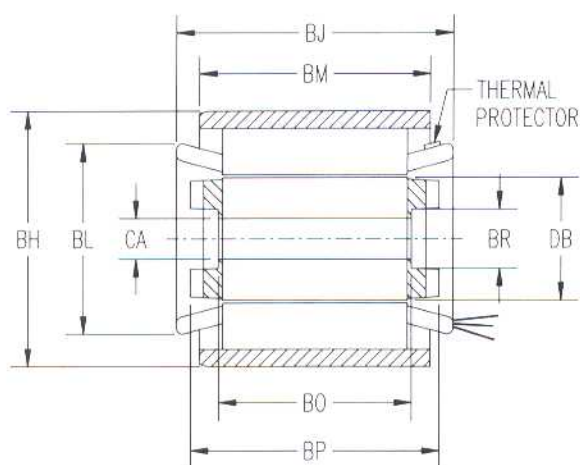
- For uniform air gap and optimum balance, rotor diameters can be furnished for customer to finish turn and balance after the rotor is installed on the customers shaft.
- Maximum speeds shown are limited by the centrifugal forces acting on the rotor and are based upon the standard rotor bore. An oversize bore or deep keyway may reduce these values. High speed rotor/shaft combinations should have non-magnetic balancing rings in order to allow for the delicate trim balance required.
- Customer is responsible for cooling partial motors.
- Solid magnetic shaft material is generally required for large rotor bores and maximum horsepower designs.
- Stator and rotor sets are identified with their model or serial number, along with a stamped loose nameplate.
- A certified dimension drawing is provided for each motor. Always review/approve these dimensions before releasing order to production.

REULAND PARTIAL MOTORS: CORE SOLUTIONS FOR BUILT-IN POWER DRIVES

Reuland Legend For Columns

- 1. Reuland Frame Size:** First digits are the respective stator diameters (BH) by putting a decimal two places to the left. The last digits are the coil extension overall length (BJ) by placing a decimal two places to the left. This is the maximum coil extension.
- 2. Reference Frames:** Reuland's frames are designed to replace these competitive frames.
- 3. Maximum Horsepower:** These horsepower values are the maximum horsepower capacity allowable at 60 hertz, sinusoidal power, with adequate cooling by customer. NOTE: Reduce horsepower by 10% for inverter duty.
- 4. Nominal Horsepower:** These values refer to the competitive designs in note 2, Reference Frames.
- 5. Maximum Speed:** This is the maximum allowable RPM for standard rotor bores, die cast rotor construction. Consult factory for maximum speeds with larger than standard bores or speeds required above these values.
- 6. Maximum Horsepower, Non-Ventilated:** (No cooling media) ratings are based upon conservative temperature rise levels to reduce the risk of bearing overheating. Light or intermittent duty may allow exceeding these values. To select the appropriate frame size, multiply the non-ventilated horsepower by 2 and select the frame size based upon that horsepower in column 3 for the appropriate number of poles.

Wound Stator And Shaftless Rotor Outline Dimension Designations



Dimension Tolerance

With Shell	NEMA	Without Shell
+0.250, -0.250	BJ	+0.250, -0.250
+0.000, -0.002	BH	+0.005, -0.000*
+0.000, -0.030	BM	+0.060, -0.060
+0.030, -0.030	BO	+0.030, -0.030
+0.200, -0.200	BL	+0.200, -0.200
+0.000, -0.001	CA	+0.000, -0.001
+0.025, -0.025	BR	+0.025, -0.025
+0.200, -0.200	BP	+0.200, -0.200
+0.001, -0.001	DB*	+0.001, -0.001

*"DB" Dimension: Customer to finish turn rotor to specified diameter and then balance. Rotor may be finished-turned by Reuland Electric upon request.

Reuland Notes

- Straight bore without keyway is standard.
- Maximum bore shown is for die cast rotors with out keyway; with keyway, reduced by double keyway depth. Larger bores may be available using fabricated rotor construction. (Consult factory.)
- Minimum bore is as shown.
- Speeds higher than the base 60 hz rating may limit the maximum bore allowable.
- Standard lead length is 3 feet.

REULAND PARTIAL MOTORS

Frame Table

WITH SHELL			WITHOUT SHELL				2-POLE				4-POLE				6-POLE				BO	BL			
FRAME	BM	BH	FRAME	BM	BH	MAX. BJ	BP	DB	MIN./MAX. CA	BR	MAX. BJ	BP	DB	MIN./MAX. CA	BR	MAX. BJ	BP	DB			MIN./MAX. CA	BR	
350-333	1.48	3.50	315-333	0.98	3.149	3.33	2.24	1.554	0.591 0.687	0.89	3.33	2.24	1.751	0.591 0.750	1.00	1.26	1.948	0.591 1.00	1.10	98	2.9		
350-375	2.67		315-375	2.17		3.75	3.42				3.75	3.42				2.44				2.17			
350-450	3.65		315-450	3.15		4.50	4.41				4.50	4.41				3.43				3.15			
350-550	4.44		315-550	3.94		5.50	5.20				5.50	5.20				4.21				3.94			
400-315	2.27	4.00	354-315	1.77	3.543	3.15	3.03	1.77	0.709 0.75	1.00	3.15	3.11	1.948	0.708 0.875	1.08	3.15	3.35	2.149	0.709 1.00	1.20	1.77	3.30	
400-430	2.86		354-430	2.36		4.30	3.62				4.30	3.70				3.93	2.36						
400-500	3.65		354-500	3.15		5.00	4.41				5.00	4.49				4.72	3.15						
400-600	4.44		354-600	3.94		6.00	5.20				6.00	5.28				5.51	3.94						
450-400	2.27	4.50	419-400	1.77	4.192	4.00	3.34	2.145	0.787 1	1.20	4.00	3.35	2.421	0.787 1.125	1.39	4.00	3.31	2.735	0.787 1.375	1.65	1.77	3.80	
450-490	3.06		419-490	2.56		4.90	4.13				4.90	4.13				4.09	2.56						
450-590	3.65		419-590	3.15		5.90	4.72				5.90	4.72				4.69	3.15						
450-710	5.22		419-710	4.72		7.10	6.30				7.10	6.30				6.26	4.72						
470-390	1.96	4.703	472-392	1.50	4.723	3.92	3.00	2.417	9.84 1.4	1.38	3.92	3.00	2.732	0.984 1.650	1.71	3.92	3.00	3.125	0.984 2.150	2.24	1.75	4.50	
470-465	2.72		472-465	2.25		4.68	3.75				4.68	3.75				3.75	2.50						
470-540	3.46		472-540	3.00		5.42	4.50				5.42	4.50				4.50	3.25						
470-615	4.22		472-615	3.75		6.18	5.25				6.18	5.25				5.25	4.00						
470-715	5.22		472-715	4.75		7.18	6.25				7.18	6.25				7.18	6.25			5.00	6.00		
470-815	6.22	472-815	5.75	8.15	7.25	8.15	7.25	7.25	6.00														
470-915	7.22	472-915	6.75	9.15	8.25	9.15	8.25	8.25	7.00														
470-1015	8.22	472-1015	7.75	10.15	9.25	10.15	9.25	9.25	8.00														
570-400	1.97	5.703	532-400	1.50	5.314	4.00	3.60	2.726	0.99 1.57	1.79	4.00	3.56	3.119	0.99 1.810	2.03	4.00	3.35	3.513	1.181 2.000	2.28	1.75	5.20	
570-450	2.47		532-450	2.00		4.50	4.10				4.50	4.06				3.85	2.25						
570-530	3.22		532-530	2.75		5.30	4.85				5.30	4.81				4.60	3.00						
570-680	4.72		532-680	4.25		6.80	6.35				6.80	6.31				6.10	4.50						
570-830	6.22		532-830	5.75		8.30	7.85				8.30	7.81				8.30	7.60			6.00	6.00		
570-980	7.72	532-980	7.25	9.80	9.35	9.80	9.31	9.10	7.50														
647-610	2.59	6.468	622-610	2.00	6.218	6.10	4.00	3.317	0.99 2.3	2.00	5.62	4.56	3.846	0.99 2.73	2.84	5.62	4.00	4.301	0.99 3.30	3.12		2.25	7.50
647-685	3.34		622-685	2.75		6.85	4.75				6.38	5.31				6.38	4.75					3.00	
647-785	4.34		622-785	3.87		7.85	5.87				7.50	6.43				7.50	5.87				4.12		
647-850	4.72		622-850	4.25		8.50	6.25				8.00	6.81				8.00	6.25				4.50		
647-1000	6.22		622-1000	5.75		10.00	7.75				9.50	8.31				9.50	7.75			6.00	7.50		
647-1150	7.72	622-1150	7.25	11.50	9.25	11.25	9.81	9.25	7.50														
647-1600	11.22	622-1600	10.75	16.00	12.75	15.25	13.31	12.75	11.00														
800-675	2.88	8.00	782-675	1.69	7.814	6.75	4.19	4.291	1.49 2.4	2.50	6.38	4.19	4.881	1.49 3.65	3.49	6.12	3.69	5.484	1.49 4.30	4.12		1.94	7.50
800-750	3.62		782-750	2.44		7.50	4.94				7.12	4.94				6.88	4.44				2.69		
800-800	4.18		782-800	2.94		8.00	5.44				7.62	5.44				7.38	4.94				3.19		
800-935	5.12		782-935	3.94		9.35	6.44				9.00	6.44				8.75	5.94				4.19		
800-1150	6.62		782-1150	5.44		11.50	7.94				11.12	7.94				10.88	7.44			5.69	9.20		
800-1350	8.12	782-1350	6.94	13.50	9.44	13.12	9.44	12.88	8.94	7.19													
800-1450	9.12	782-1450	7.94	14.50	10.44	14.12	10.44	13.88	9.94	8.19													
800-1550	10.12	782-1550	8.94	15.50	11.44	15.12	11.44	14.88	10.94	9.19													
800-1650	11.12		782-1650	9.94		16.50	12.44				16.12	12.44				15.88	11.94			10.19	10.10		
1000-800	4.12	10.00	945-800	2.94	9.447	8.00	5.94	5.275	1.74 2.8	3.09	7.50	5.64	5.865	1.74 3.48	3.83	7.12	5.94	6.664	1.74 4.97	4.72		3.19	9.20
1000-950	4.62		945-950	3.44		9.50	6.44				9.00	6.14				8.62	6.44					3.69	
1000-1100	5.87		945-1100	4.69		11.00	7.69				10.50	7.39				10.12	7.69					4.94	
1000-1225	7.12		945-1225	5.94		12.75	8.94				12.25	8.64				11.62	8.94				6.19		
1000-1425	9.12		945-1425	7.94		14.75	10.94				14.25	10.64				13.62	10.94			8.19	10.10		
1000-1625	11.12	945-1625	9.94	16.75	12.94	16.25	12.64	15.62	12.94	10.19													
1100-825	3.81	11.00	1063-825	2.75	10.629	8.25	6.50	5.855	1.99 2.87	3.75	7.25	6.92	6.643	1.99 4.50	4.57	6.95	6.15	7.430	1.99 5.90	5.16		3.00	10.10
1100-950	5.06		1063-950	4.00		9.50	7.75				8.50	8.17				8.20	7.40					4.25	
1100-1150	7.06		1063-1150	6.00		11.50	9.75				10.50	10.17				10.20	9.40				6.25		
1100-1250	8.06		1063-1250	7.00		12.50	10.75				11.50	11.17				11.20	10.40				7.25		
1100-1450	10.06		1063-1450	9.00		14.50	12.75				13.50	13.17				13.20	12.40			9.25	11.50		
1100-1900	13.56	1063-1900	12.50	19.00	16.25	17.00	16.67	16.70	15.90	12.75													
1238-1225	6.62	12.375	1181-1225	5.56	11.81	12.25	10.21	6.44	2.49 3.9	4.00	11.62	10.62	7.42	2.49 4.90	5.30	11.12	10.36	8.405	2.49 6.40	6.10		5.81	11.50
1238-1350	8.12		1181-1350	7.06		13.50	11.71				12.88	12.12				12.38	11.86					7.31	
1238-1550	10.12		1181-1550	9.06		15.50	13.71				14.88	14.12				14.38	13.86				9.31		
1238-1650	11.12		1181-1650	10.06		16.50	14.71				15.88	15.12				15.38	14.86				10.31		
1238-1750	12.12		1181-1750	11.06		17.50	15.71				16.88	16.12				16.38	15.86			11.31	12.50		
1400-1200	8.00	14.00	1338-1200	5.00	13.38	12.00	8.56	7.41	3.15 4	4.20	10.50	9.21	8.4	3.15 5.48	5.315	10.00	9.212	9.38	3.15 6.56	5.905		5.25	13.80
1400-1450	10.00		1338-1450	7.50		14.50	11.06				13.00	11.71				12.50	11.712					7.75	
1400-1650	12.00		1338-1650	9.50		16.50	13.06				15.00	13.71				14.50	13.712					9.75	
1400-1900	15.00		1338-1900	12.00		19.00	15.56				17.50	16.21				17.00	16.212				12.25		
1500-1375	8.00	15.00	1476-1375	4.63	14.763	13.75	7.63	8.385	3.346 4.25	4.80	13.75	8.84	9.369	3.346 5.50	5.91	13.75	9.31	10.156	3.346 6.00	6.38	4.88	13.80	
1500-1475	9.00		1476-1475	5.63		14.75	8.63				14.75	9.84				14.75	10.31				5.88		
1500-1625	10.50		1476-1625	7.13		16.25	10.13				16.25	11.34				16.25	11.81				7.38		
1500-1825	12.50		1476-1825	9.13		18.25	12.13				18.25	13.34				18.25	13.81				9.38		
1500-2025	14.50		1476-2025	11.13		20.25	14.13				20.25	15.34				20.25	15.81			11.38	15.70		
1500-2225	16.50	1476-2225	13.13	22.25	16.13	22.25	17.34	22.25	17.81	13.38													
1700-1525	9.00	17.00	1654-1525	5.63	16.54	15.25	11.06	9.349	3.346 4.25	5.32	15.25	10.75	10.53	3.74 6.00	6.69	15.25	10.66	11.317	3.74 7.00	7.48		5.88	15.70
1700-1675	10.50		1654-1675	7.13		16.75	12.56				16.75	12.25				16.75	12.16					7.38	
1700-1875	12.50		1654-1875	9.13		18.75	14.5																

REULAND PARTIAL MOTORS

Performance Table

REULAND FRAME		REFERENCE FRAME		2 POLE - 3600			4 POLE - 1800			6 POLE - 1200			
WITH SHELL	WITHOUT SHELL			MAX. HP 60Hz	NOM. HP 60Hz	MAX. SPEED	MAX. HP 60Hz	NOM. HP 60Hz	MAX. SPEED	MAX. HP 60Hz	NOM. HP 60Hz	MAX. SPEED	MAX. HP NON-VENT
350-333	315-333		430-250	0.08			0.05						
350-375	315-375		430-375	0.20		52,500	0.15		47,500	0.12		42,000	0.20
350-450	315-450		430-450	0.28			0.20						
350-550	315-550		430-550	0.35			0.27						
400-315	354-315		480-315	0.30			0.20			0.15			
400-430	354-430		480-430	0.40		47,500	0.30		42,000	0.20		38,000	0.25
400-500	354-500		480-500	0.53			0.40			0.25			
400-600	354-600		480-600	0.67			0.50			0.32			
450-400	419-400		550-400	0.54			0.35			0.25			
450-490	419-490		550-490	0.80		38,000	0.60		34,000	0.40		30,000	0.37
450-590	419-590		550-590	1.10		50,000	0.72		45,000	0.50		40,000	
450-710	419-710		550-710	1.60			1.10			0.62			
470-390	472-390	407	615-375	0.75	0.33		0.60			0.32	0.10		
470-465	472-465	410	615-460	1.15	0.50		0.85	0.25		0.50	0.20		
470-540	472-540	413	615-540	1.50	0.75		1.15	0.33		0.65	0.25		
470-615	472-615	416	615-618	2.00	1.00	34,000	1.55	0.50	30,000	0.95		26,000	0.75
470-715	472-715	420	615-718	2.25	1.25	50,000	1.80	0.60	45,000	1.20		40,000	
470-815	472-815	424	615-818	3.25	1.50		2.20	0.75		1.45	0.30		
470-915	472-915	428	615-918	3.80	1.75		2.60	0.80		1.70	0.33		
470-1015	472-1015	432	615-980	4.40	2.00		3.00	1.00		2.00	0.50		
570-400	532-400	507	700-400	1.25	0.50		0.90	0.25		0.61	0.20		
570-450	532-450	509	700-450	1.60	0.75		1.20	0.50		0.82	0.25		
570-530	532-530	512	700-530	2.20	1.00	30,000	1.65	0.75	26,000	1.13		23,500	1.00
570-680	532-680	518	700-680	3.80	1.50	45,000	2.60	1.00	40,000	1.90		35,000	
570-830	532-830	524	700-830	5.20	2.00		3.50	1.50		2.60	1.00		
570-980	532-980	530	700-980	6.50	2.50		4.50			3.25			
647-610	622-610	609	145-570	2.75	1.00		1.80	0.75		1.00	0.50		
647-685	622-685	612	145-650	3.75	1.50		2.50	1.00		1.40	0.75		
647-785	622-785	616	145-710	5.25	2.00	25,000	3.50	1.30	21,000	2.00		19,000	1.50
647-850	622-850	618	145-800	5.75	3.00	40,000	4.35	1.50	33,000	2.20		30,000	
647-1000	622-1000	624	145-950	7.75	5.00		5.85	2.00		3.00	1.50		
647-1150	622-1150	630	145-1100	10.00	6.00		7.40	3.00		3.70	2.00		
647-1600	622-1600	644	145-1140	14.80	10.00		11.80			5.50			
800-675	782-675	811	184-630	4.25	1.50		2.75	1.00		1.66			
800-750	782-750	814	184-690	6.10	2.00		4.00	1.50		2.20			
800-800	782-800	816	184-730	7.30	3.00		4.80	2.00		2.90	1.50		
800-935	782-935	820	184-850	9.50	5.00		6.40	3.00		3.90	2.00	15,000	3.00
800-1150	782-1150	826	184-1000	14.00	7.50	19,000	9.85	5.00	16,500	6.00	3.00	23,000	
800-1350	782-1350	832	184-1140	17.80	10.00	30,000	12.50	6.00	25,000	8.70			
800-1450	782-1450	836	184-1240	20.00	13.00		14.40	7.50		10.00	5.00		
800-1550	782-1550	840	184-1300	23.00			16.20			11.10	6.00		
800-1650	782-1650	844	184-1420	25.50			18.00	10.00		12.50	7.00		
1000-800	945-800	1016	215-800	10.00	5.00		8.30	3.00		5.50	2.00		
1000-950	945-950	1018	215-880	12.00	7.50		9.70	5.00		6.40	3.00		
1000-1100	945-1100	1023	215-1000	16.00	10.00	15,500	13.25	7.50	14,000	8.70	5.00	12,500	5.00
1000-1225	945-1225	1028	215-1120	18.50	15.00	28,000	16.80	10.00	21,000	11.00	7.50	19,000	
1000-1425	945-1425	1036	215-1300	27.00	20.00		22.50	15.00		16.00	10.00		
1000-1625	945-1625	1044	215-1500	35.00	25.00		28.30	20.00		20.00	13.00		
1100-825	1063-825		256-800	13.00	6.00		10.60	4.00		7.10	3.00		
1100-950	1063-950		256-1060	19.00	8.00		15.00	6.00		10.30	4.00		
1100-1150	1063-1150		256-1140	28.00	16.00	14,000	21.50	11.00	12,500	15.50	6.00	11,000	7.50
1100-1250	1063-1250		256-1300	33.00	18.00	21,000	26.50	12.00	19,000	18.00	8.00	17,000	
1100-1450	1063-1450		256-1530	43.00	21.00		33.70	14.00		23.00	10.00		
1100-1900	1063-1900		256-1820	60.00	29.00		47.00	22.00		32.00	13.00		
1238-1225	1181-1225	1226	286-1200	35.00	20.00		27.50	15.00		18.50	10.00		
1238-1350	1181-1350	1232	286-1350	43.00	25.00	12,000	35.00	20.00	11,000	23.00	15.00	10,000	10.00
1238-1550	1181-1550	1240	286-1420	55.00	30.00	19,000	45.00	22.00	17,000	30.00	16.00	15,000	
1238-1650	1181-1650	1244	286-1600	60.00	35.00		50.00	25.00		35.00	20.00		
1238-1750	1181-1750	1248	286-1680	67.00	40.00		55.00	30.00		37.50	22.00		
1400-1200	1338-1200		326-1100	38.50	30.00		31.50	22.00		21.00	15.00		
1400-1450	1338-1450		326-1350	57.50	45.00	11,000	47.00	34.00	10,000	32.00	22.00	8,750	15.00
1400-1650	1338-1650		326-1550	73.00	55.00	17,000	60.00	45.00	15,000	40.00	28.00	13,000	
1400-1900	1338-1900		326-1800	92.00	60.00		80.00	55.00		51.00	35.00		
1500-1375	1476-1375	1518	365-1150	43.50	30.00		36.00	25.00		24.30	15.00		
1500-1475	1476-1475	1522	365-1340	52.50	40.00		43.50	30.00		29.60	20.00		
1500-1625	1476-1625	1528	365-1450	67.00	50.00	10,000	55.00	40.00	8,750	37.40	25.00	8,000	20.00
1500-1825	1476-1825	1536	365-1700	85.00	60.00	15,000	71.00	50.00	13,000	48.00	30.00	12,000	
1500-2025	1476-2025	1544	365-1900	104.00	75.00		86.00	60.00		58.00	40.00		
1500-2225	1476-2225	1552	365-2040	123.00	100.00		102.00	75.00		69.00	40.00		
1700-1525	1654-1525	1722	405-1525	70.00	60.00		57.00	50.00		37.50	30.00		
1700-1675	1654-1675	1728	405-1675	88.00	75.00	8,750	73.00	60.00	7,800	47.50	40.00	7,250	30.00
1700-1875	1654-1875	1736	405-1875	112.00	100.00	13,000	94.00	75.00	12,000	61.00	50.00	11,000	
1700-2175	1654-2175	1748	405-2175	150.00	125.00		125.00	100.00		83.00	60.00		
1700-2475	1654-2475	1760	405-2475	186.00	150.00		155.00	125.00		103.00	75.00		
1950-1750	1889-1750	1928	445-1750	205.00	100.00		205.00	75.00		125.00	60.00		
1950-1950	1889-1950	1936	445-1950	250.00	125.00		250.00	100.00		160.00			
1950-2050	1889-2050	1940	445-2050	290.00	150.00	7,250	290.00	125.00	6,500	175.00	75.00	5,600	40.00
1950-2150	1889-2150	1944	445-2150	320.00		11,000	320.00	150.00	10,000	200.00		8,000	
1950-2350	1889-2350	1952	445-2350	370.00			370.00			230.00	100.00		

*Special high speed designs, consult factory.



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