

COMBINED BEVEL AND SPUR (IB/AS) GEARBOXES SIZING CHART FOR MOTOR OPERATION

Primary Gearbox	Primary Ratio	Primary Mechanical Advantage	Primary Output Torque Nm	Secondary Spur Attachment	Second Ratio	Secondary Mechanical Advantage	Secondary Output Torque Nm	Total Ratio	Total Mechanical Advantage	Total Output Torque Nm	Thrust Kn
IB4/5	2	1.7	306	AS3	2	1.83	406	4	3.11	306	IB4 = 53, IB5 = 177
IB4/5	3	2.55	678	AS3	2	1.83	406	6	4.67	678	
IB4/5	4	3.4	678	AS3	2	1.83	406	8	6.22	678	
IB4/5	3	2.55	678	AS3	3	2.7	406	9	6.89	678	
IB4/5	4	3.4	678	AS3	3	2.7	406	12	9.18	678	
IB4/5	6	5.1	678	AS3	3	2.7	406	18	13.77	678	
IB6/7	3	2.55	1355	AS3	2	1.83	406	6	4.67	1035	IB6 = 177, IB7 = 266
IB6/7	4	3.4	1355	AS3	2	1.83	406	8	6.22	1355	
IB6/7	3	2.55	1355	AS3	3	2.7	406	9	6.89	1035	
IB6/7	4	3.4	1355	AS3	3	2.7	406	12	9.18	1355	
IB6/7	6	5.1	1084	AS3	3	2.7	406	18	13.77	1084	
IB8/9	3	2.55	2033	AS5	2	1.9	678	6	4.85	1729	IB8 = 266, IB9 = 355
IB8/9	4	3.4	2033	AS5	2	1.9	678	8	6.46	2033	
IB8/9	3	2.55	2033	AS5	3	2.7	678	9	6.89	1729	
IB8/9	4	3.4	2033	AS5	3	2.7	678	12	9.18	2033	
IB8/9	4	3.4	2033	AS5	4	3.69	678	16	12.55	2033	
IB8/9	6	5.1	1627	AS5	3	2.7	678	18	13.77	1627	
IB8/9	6	5.1	1627	AS5	4	3.69	678	24	18.82	2033	
IB8/9	4	3.4	2033	AS5	6	5.4	678	24	18.36	2033	
IB8/9	6	5.1	1627	AS5	6	5.4	678	36	27.54	1627	
IB10/11	4	3.4	4067	AS5	2	1.9	678	8	6.46	2305	IB10 = 355, IB11 = 500
IB10/11	6	5.1	4067	AS5	2	1.9	678	12	9.69	3458	
IB10/11	4	3.4	4067	AS5	4	3.69	678	16	12.55	2305	
IB10/11	6	5.1	4067	AS5	3	2.7	678	18	13.77	3458	
IB10/11	4	3.4	4067	AS5	6	5.4	678	24	18.36	2305	
IB10/11	6	5.1	4067	AS5	6	5.4	678	36	27.54	3458	IB10 = 355, IB11 = 500
IB10/11	4	3.4	4067	AS6	2	1.8	1355	8	6.12	4067	
IB10/11	6	5.1	4067	AS6	2	1.8	1355	12	9.18	4067	
IB10/11	4	3.4	4067	AS6	4	3.6	1355	16	12.24	4067	
IB10/11	6	5.1	4067	AS6	3	2.7	1355	18	13.77	4067	
IB10/11	4	3.4	4067	AS6	6	5.4	1355	24	18.36	4067	
IB10/11	4	3.4	4067	AS6	8	7.2	1355	32	24.48	4067	
IB10/11	6	5.1	4067	AS6	6	5.4	1355	36	27.54	4067	
IB10/11	6	5.1	4067	AS6	8	7.2	1355	48	36.72	4067	
IB12/13/14	6	5.1	8135	AS5	2	1.9	678	12	9.69	3458	IB12 = 500, IB13 = 834 IB14 = 1320
IB12/13/14	8	6.8	8135	AS5	2	1.9	678	16	12.92	4610	
IB12/13/14	6	5.1	8135	AS5	3	2.7	850	18	13.77	4335	
IB12/13/14	8	6.8	8135	AS5	3	2.7	850	24	18.36	5780	
IB12/13/14	8	6.8	8135	AS5	4	3.69	850	32	25.09	5780	
IB12/13/14	6	5.1	8135	AS5	6	5.4	850	36	27.54	4335	IB12 = 500, IB13 = 834 IB14 = 1320
IB12/13/14	8	6.8	8135	AS5	6	5.4	850	48	36.72	5780	
IB12/13/14	6	5.1	8135	AS6	2	1.8	1355	12	9.18	6911	
IB12/13/14	8	6.8	8135	AS6	2	1.8	1355	16	12.24	8135	
IB12/13/14	6	5.1	8135	AS6	3	2.7	1355	18	13.77	6911	
IB12/13/14	8	6.8	8135	AS6	3	2.7	1355	24	18.36	8135	
IB12/13/14	8	6.8	8135	AS6	4	3.6	1355	32	24.48	8135	
IB12/13/14	6	5.1	8135	AS6	6	5.4	1355	36	27.54	6911	
IB12/13/14	8	6.8	8135	AS6	6	5.4	1355	48	36.72	8135	
IB12/13/14	8	6.8	8135	AS6	8	7.2	1355	64	48.96	8135	IB12 = 500, IB13 = 834 IB14 = 1320
IB12/13/14	8	6.8	8135	AS8	4	3.6	2033	32	24.48	8135	
IB12/13/14	6	5.1	8135	AS8	6	5.49	2033	36	28.00	8135	
IB12/13/14	6	5.1	8135	AS8	8	7.156	2033	48	36.50	8135	
IB12/13/14	6	5.1	8135	AS8	10	9.18	2033	60	46.82	8135	
IB12/13/14	8	6.8	8135	AS8	8	7.156	2033	64	48.66	8135	
IB12/13/14	6	5.1	8135	AS8	12	11.03	2033	72	56.25	8135	
IB12/13/14	8	6.8	8135	AS8	10	9.18	2033	80	62.42	8135	
IB12/13/14	6	5.1	8135	AS8	15	13.52	2033	90	68.95	8135	
IB12/13/14	8	6.8	8135	AS8	12	11.03	2033	96	75.00	8135	IB12 = 500, IB13 = 834 IB14 = 1320
IB12/13/14	8	6.8	8135	AS8	15	13.52	2033	120	91.94	8135	

MA updated in line with current product brochures