

Main Unit Spec

	AB-30R	AB-40RVC	AB-50R AB-50RV	AB-50LRVC	AB-80R AB-80RV	AB-100R AB-100RV	AB-150R	AB-200R	AB-250R	AB-300R	AB-400R
Radial Rigidity (N/um)	12.7	24.5	24.5	49.0	34.3	55.9	98.0	166.6	205.8	392.0	333.2
Axial Rigidity (N/um)	19.6	27.4	35.3	35.3	205.8	323.4	558.6	705.6	1176.0	1234.8	1705.2
Normal Radial Load (N)	25.5	36.8	49.0	98.0	68.6	111.7	196.0	333.2	411.6	784.0	666.4
Max Radial Load (N)	32.3	49.0	61.7	122.5	86.2	140.1	245.0	421.4	519.4	980.0	833.0
Normal Axial Load (N)	39.2	41.1	70.6	70.6	411.6	646.8	1117.2	1411.2	2352.0	2469.6	3410.4
Max Axial Load (N)	49.0	49.0	88.2	88.2	519.4	813.4	1401.4	1764.0	2940.0	3087.0	4263.0
Radial Rotation Accuracy (um)	0.07	0.07	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.09
Axial Rotation Accuracy (um)	0.04	0.05	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.05	0.05
Max Rotation Speed (rpm)	30,000	24,000	20,000	22,000	15,000	10,000	5,000	3,000	2,500	1,500	500
Air Consumption (l/min)*	4	5	6	12	8	10	15	20	35	40	40
Rotor I (kg•m ²)	1.23 x 10 ⁻⁵	0.85 x 10 ⁻⁴	1.925 x 10 ⁻⁴	1.925 x 10 ⁻⁴	1.32 x 10 ⁻³	4.85 x 10 ⁻³	2.975 x 10 ⁻²	6.0 x 10 ⁻²	0.2775	0.63	1.3025
Weight (kg)	0.3	1.0	1.5	2.3	3.9	8.5	22	39	77	110	153