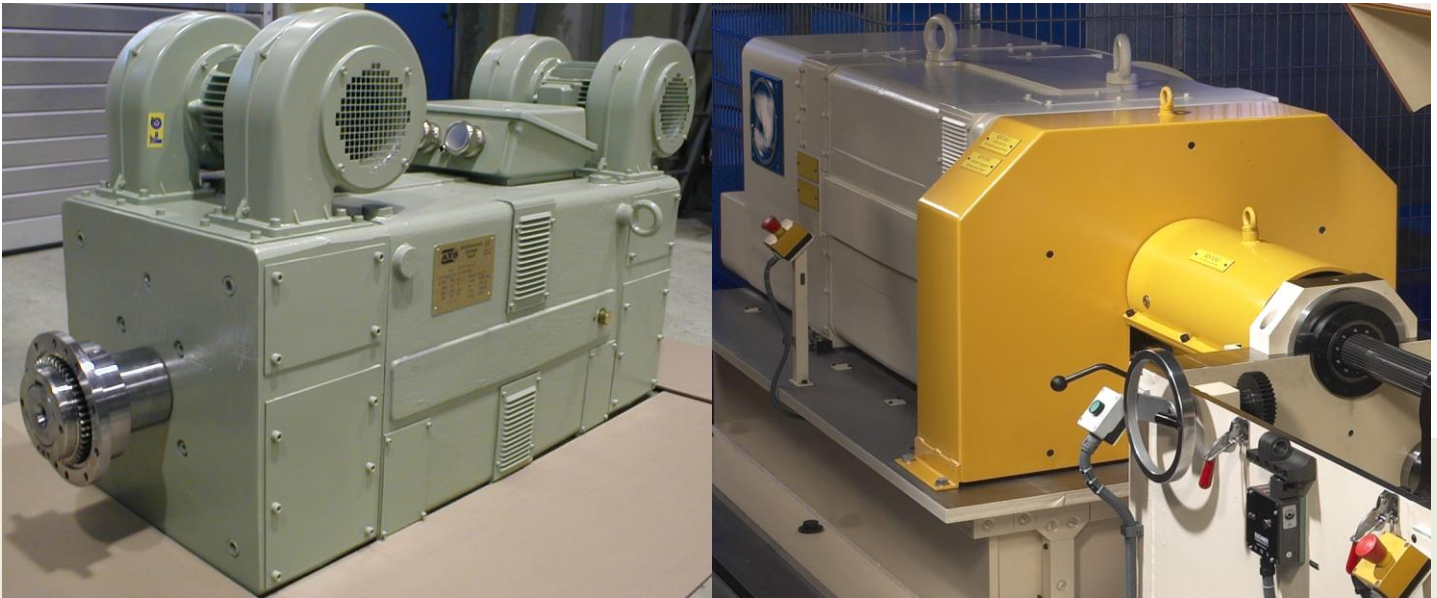


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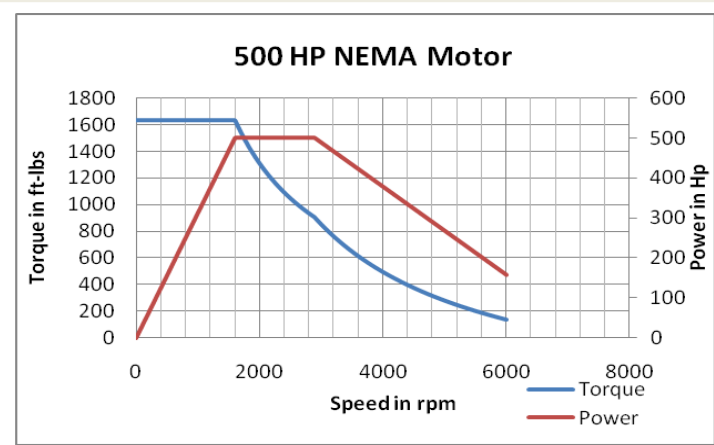
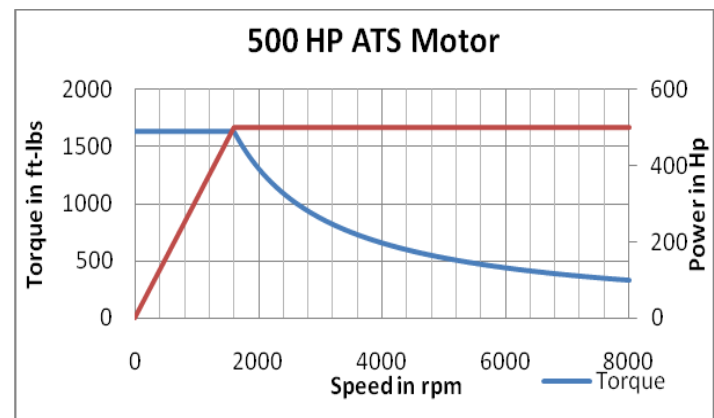
Asynchronous and Synchronous AC Motors



ATS Engineering based in Dresden, Germany is a manufacturer of high performance AC motors with a global sales and support network. We design and manufacture a comprehensive product line of AC motors for use by specialty equipment manufacturers in applications for the North American automotive, machine tool, heavy duty metal forming and plastics extrusion industries. The company drives motor technology by continued investment in research, resulting in innovative designs for reliable and cost-efficient operation.

Product Family Highlights

- Custom power ranges from 10 to 1,500kW
- Continuous duty rating S1 (IP23 & IP54)
- Air cooled asynchronous motors torque range of 50 – 30,000Nm
- Liquid cooled asynchronous motors torque range of 50 – 20,000Nm
- Ultra low inertia synchronous servomotors power range 50 – 700kW
- Two to sixteen pole designs with low rotor inertia
- Up to 12,000 rpm
- All motors can be trunnion mounted or use in line torque flange
- Isolated ceramic hybrid bearings
- Accelerometer mounting provisions



Standard Product Range and Specifications

Motor Type	Poles	Power (motoring) [kW]	Torque (motoring) [Nm]	Power (absorbing) [kW]	Torque (absorbing) [Nm]	Rated speed [rpm]	Max. speed [rpm]	Rot. speed gradient [rpm/sec]	Inertia max. [kgm ²]	Nominal max. motor [V]	Current motoring [A]
ARSD 180	4	76	484	80	510	1,500	5,000	20,376	0.31	460	157
ARSD 225	4	133	847	140	891	1,500	5,000	20,476	0.54	460	268
ARSD 250	4	251	1,198	267	1,275	2,000	6,000	14,384	1.10	460	445
ARSD 250	4	351	2,095	369	2,200	1,600	4,500	13,655	1.80	460	551
ARSD 250	4	418	2,348	445	2,500	1,700	6,000	15,517	2.00	460	850
ARSD 250	4	461	1,761	484	1,850	2,500	7,500	11,483	2.00	460	673
ARSD 315	4	592	3,325	623	3,500	1,700	4,500	6,682	6.50	460	1,204
ARSD 355	4	618	4,215	650	4,434	1,450	4,500	7,055	7.80	460	1,223
ARSD 400	4	651	4,955	675	5,177	1,245	5,026	1,977	30.00	690	933
ARSD 400	4	750	5,508	778	5,714	1,300	4,000	2,288	31.00	690	1,065
ARSD 160	4	43	103	45	107	4,000	10,000	17,029	0.08	460	79
ARSD 160	4	57	136	60	143	4,000	10,000	22,759	0.08	460	112
ARSD 180	4	143	318	150	333	4,300	10,000	15,306	0.27	460	230
ARSD 180	4	238	464	250	490	4,900	10,000	19,616	0.31	460	386
ARSD 225	4	257	701	275	750	3,500	10,000	17,235	0.54	460	419
ARSD 225	4	333	669	348	700	4,750	9,000	16,087	0.54	460	485
ARSD 225	4	356	829	369	860	4,100	9,000	19,770	0.54	460	534
ARSD 225	4	380	756	402	800	4,800	9,000	18,385	0.54	460	570
ARSD 250	4	432	959	450	1,000	4,300	9,000	15,321	0.81	460	730
ARSD 355	8	128	4,560	140	4,984	268	2,460	4,759	13.00	500	473
ARSD 400	8	220	10,005	236	10,731	210	663	3,249	41.00	460	675
ARSD 500	10	300	15,935	312	16,552	180	2,000	4,109	50.00	690	783
ARSD 355	4	424	5,399	449	5,716	750	2,650	5,054	10.80	500	780
ARSD 560	10	500	25,399	520	26,412	188	1,750	3,831	79.00	690	976
ARSD 500	4	1,500	20,000	1,550	20,672	716	2,600	3,250	70.50	690	2,018

Key Features

- Constant power for up to five times base speed for asynchronous motors
- Extremely low rotor inertia resulting from proprietary rotor designs
- Motors are specifically designed for current inverter technology
- The unique square motor geometry facilitates simplified fixturing and provides a higher power density than conventional NEMA type motors
- Proprietary magnetic circuit design software delivers optimized motor configurations to meet customer specific power, torque and speed characteristics
- Single and double ended designs
- Nine winding temperature sensors with two level alarm points
- Integrated 1024PPR, HTL shaft encoder