



AKSHAR



A Series

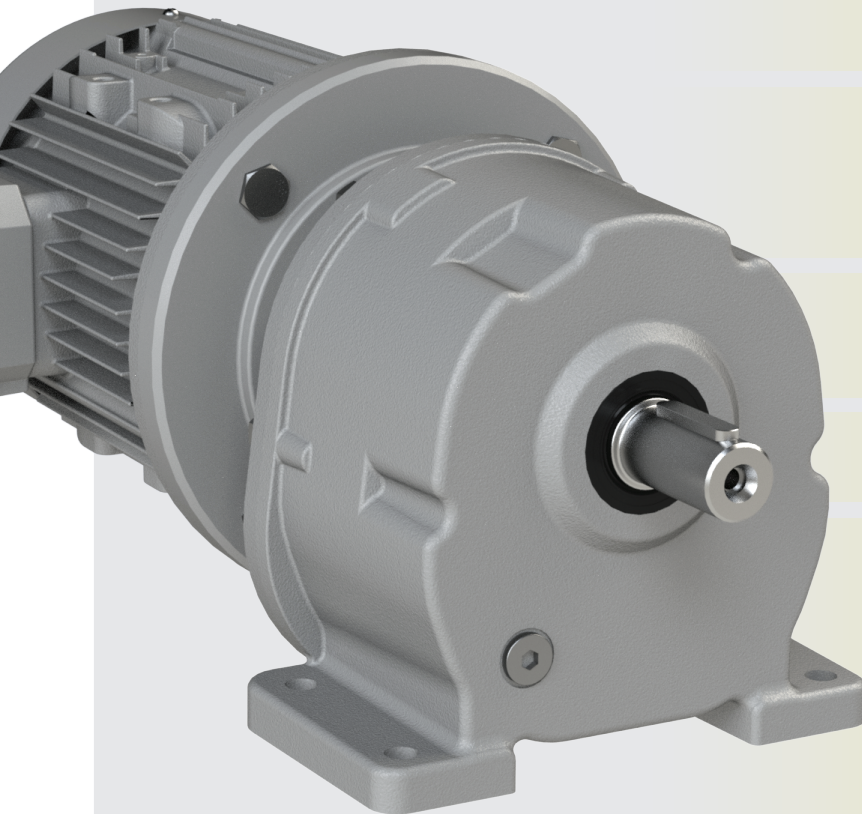
Inline Helical Gearboxes

A20 **A25**
A30 **A35**



A Series

TECHNICAL FEATURES



Mineral Oil **1**
Grade VG 320

Gears **2**
Forged Steel Grade 20MnCr5
Case Hardened 58-62 HRC
Gear Profile Grinding DIN 6 Accuracy
Exceptionally low Noise Level

Precision Bearings **3**
2RS Bearing at input shaft
for self lubrication & dust proofing

High Quality **4**
Nitrile (NBR) Double Lip Oil Seal

Gearbox Housing **5**
Cast Iron Grade FG 260
High Toughness

Colour Moon Grey **6**
Surface Treatment Zinc Phosphating
Pure Polyester Powder Coating

- > The gear units are designed in unibox housing to consume optimal installation space and can operate in harsh environments with minimum downtimes. Strict quality control measures are adopted at each stage of manufacturing and assembly of the gearbox
- > All units are suitable to fit with any standard IEC motor
- > Inspection Standards:

Surface hardness	UNE 7-257-72
Alignment of shaft to output flange	DIN 42955
Shaft seal tightness	Test at 1Kg/cm ²
Noise levels	Within the limits specified in VDI 2159

IN-HOUSE PRODUCTION FACILITIES

- > 40,000 Sq. Ft State of the Art Manufacturing Facility
- > Gear Cutting Machines: CNC Gear Hobbing Machine, CNC Shaving Machine, CNC Gear Grinding Machine, etc
- > Seal Quench Heat Treatment Plant
- > VMCs & HMCs
- > QA Facilities: CNC Gear Tester, CMM, Contracer, Leakage Testing Machine, UTM, Hardness Testers, Test Rig, etc



CNC Hobbing



CNC Gear Grinding



CNC Gear
Profile Tester



Coordinate Measuring
Machine

Speed Reducer Rating Chart

Input rpm, $n_1 = 1400$ rpm

A20

i Ratio	n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N
5.49	255	60	1.7	600	950
6.46	217	60	1.4	600	1040
7.75	181	60	1.2	600	1150
8.57	163	60	1.1	600	1210
9.92	141	65	1.0	600	1220
11.67	120	65	0.86	600	1340
14.00	100	65	0.72	600	1470
15.48	90	65	0.65	600	1540
18.01	78	80	0.68	600	1490
21.19	66	80	0.58	600	1620
25.43	55	80	0.48	600	1780
28.13	50	80	0.44	600	1880
31.71	44	80	0.39	600	1940
37.31	38	80	0.33	600	2100
44.77	31	80	0.28	600	2290
49.52	28.3	80	0.25	600	2400

A25

i Ratio	n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N
5.02	279	120	3.7	350	760
5.92	236	120	3.1	450	800
6.47	216	120	2.9	560	860
7.88	178	120	2.3	760	1000
8.93	157	130	2.2	440	950
10.53	133	130	1.9	630	1080
11.51	122	130	1.7	720	1150
14.01	100	130	1.4	830	1310
16.42	85	160	1.5	380	1150
19.35	72	160	1.3	580	1320
21.16	66	160	1.2	670	1400
25.75	54	160	1.0	830	1600
31.27	45	160	0.8	510	1720
36.86	38	160	0.7	690	1910
40.29	35	160	0.6	780	2020
49.04	29	160	0.5	830	2260

A30

i Ratio	n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N
5.11	274	230	6.9	550	1350
6.22	225	230	5.7	850	1500
6.93	202	230	5.1	1000	1600
7.51	186	230	4.7	700	1600
7.78	180	230	4.6	1000	1750
9.14	153	260	4.4	920	1650
10.18	138	260	3.9	1000	1800
11.43	122	260	3.5	1000	2000
12.62	111	260	3.2	770	2000
15.37	91	260	2.6	1000	2300
17.11	82	260	2.3	1000	2500
19.21	73	260	2.1	1000	2600
24.19	58	320	2.0	490	2500
29.45	48	320	1.7	1000	2800
32.80	43	320	1.5	1000	3050
36.82	38	320	1.3	1000	3300

A35

i Ratio	n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N
5.11	274	340	10.3	900	4500
6.22	225	340	8.4	1050	4950
6.93	202	340	7.6	1140	5200
7.51	186	340	7.0	1050	5280
7.78	180	340	6.7	1200	5480
9.14	153	400	6.7	1100	5460
10.18	138	400	6.1	1150	5470
11.43	122	400	5.4	1150	6050
12.62	111	400	4.9	1050	6160
15.37	91	400	4.0	1150	6750
17.11	82	400	3.6	1150	7070
19.21	73	400	3.2	1150	7200
24.19	58	480	3.1	1150	7200
29.45	48	480	2.5	1150	7200
32.80	43	480	2.3	1150	7200
36.82	38	480	2.0	1150	7200

n_2 = Output rpm
 M_{n2} = Rated torque at Output Shaft
 P_{n1} = Rated torque at Input Shaft
 R_{n1} = Permissible Overhung Load at Input Shaft
 R_{n2} = Permissible Overhung Load at Output Shaft

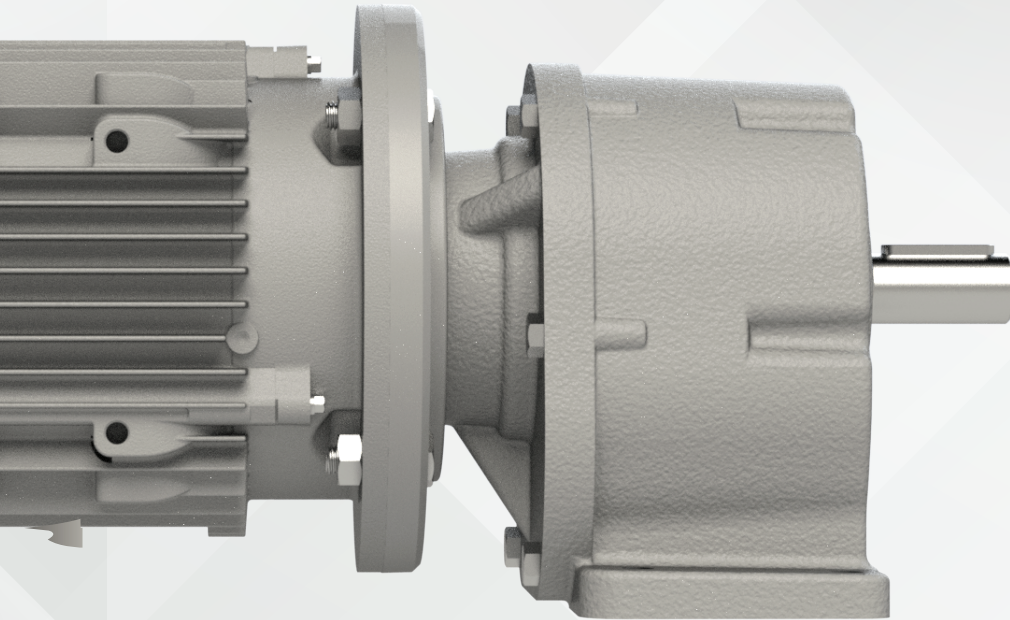
*Please refer technical catalogue for more details



APPLICATIONS

Oven, Dryer, Fryer, Mixer, Kneader, Crushers,
Bagging Machines & Conveyors, Drag Conveyor,
Feeding Systems, Washing & Sorting Systems,
Palletizing Machines, Wrapping Machines,
Overhead Cranes, Gantry Cranes, etc

WARRANTY
1 YEAR
WARRANTY



AKSHAR

IATF 16949 Certified Company

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