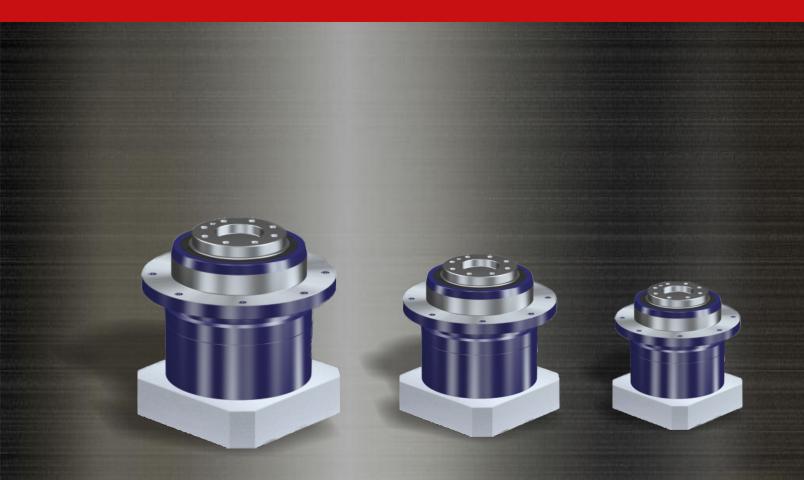
AH Series Highlights Overview



Higher Smoothness

Enhanced smoothness and lower noise due to adoption of Helical Gears.

Higher Precision

Fairly high precision enabled by backlash as 3arcmin.

Higher Rigidity and Torque Due to adoption of uncaged needle roller bearings.

Flexible Motor Integration

Can be integrated with any motor in the world.

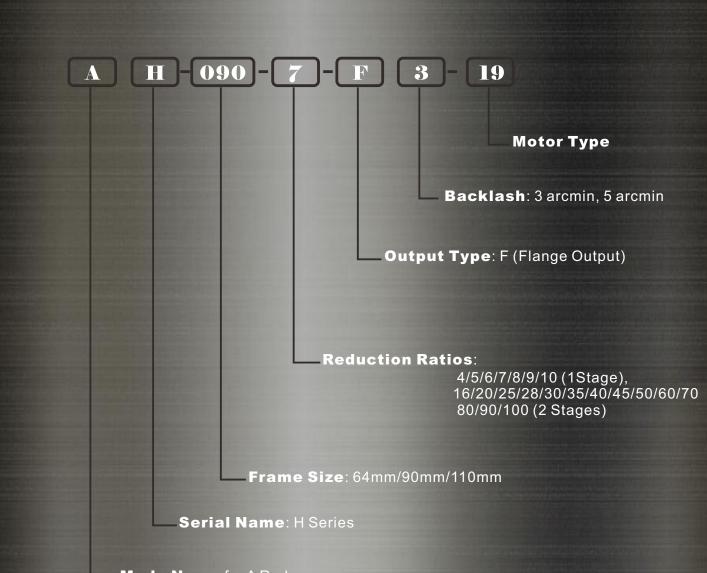
Free of Maintenance

No need to replace the grease for lifelong time and maintenance of any part.

No Grease Leakage

Usage of high viscosity and anti-seperation lifetime grease.

AH Series Naming Rules



Mode Name for A Reducer

AH-064 Series Load Performance Table

			₩1	₩2	₩3	₩4	₩5	₩6	₩7
Frame size	Stage	Ratio	Norminal output torque [Nm]	Maximum output torque [Nm]	Emergency stop torque [Nm]	Norminal input speed [rpm]	Maximum input speed [rpm]	Permitted radial load [N]	Permitted axial load [N]
		4	27	50	100	3000	6000	370	360
		5	27	50	100	3000	6000	400	390
		6	27	50	100	3000	6000	420	430
	1	7	27	50	100	3000	6000	440	460
		8	27	50	100	3000	6000	460	480
		9	18	35	80	3000	6000	480	510
		10	18	35	80	3000	6000	500	530
		16	27	50	100	3000	6000	580	650
		20	27	50	100	3000	6000	630	720
064		25	27	50	100	3000	6000	680	750
		28	27	50	100	3000	6000	700	750
		35	27	50	100	3000	6000	760	750
		40	27	50	100	3000	6000	790	750
	2	45	18	35	80	3000	6000	820	750
		50	27	50	100	3000	6000	850	750
		60	27	50	100	3000	6000	910	750
		70	27	50	100	3000	6000	950	750
		80	27	50	100	3000	6000	1000	750
		90	18	35	80	3000	6000	1000	750
		100	18	35	80	3000	6000	1100	750

₩9		
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			※ 8	※ 9	і0 № 10			
Frame size	Stage	Ratio	Maximum radial load [N]	Maximum axial load [N]	Weight [kg]	Moment of inertia (≪Φ8) [kgcm²]	Moment of inertia (≤ Φ 14) [kgcm²]	Moment of inertia (≪ Φ 19) [kgcm²]
		4	1500	750		0.13	0.21	0.4
		5	1500	750		0.10	0.18	0.4
		6	1500	750		0.085	0.17	0.4
	1	7	1500	750	1.4	0.075	0.15	0.4
		8	1500	750		0.068	0.15	0.4
		9	1500	750		0.064	0.14	0.4
		10	1500	750		0.062	0.14	0.4
		16	1500	750		0.059	0.14	-
		20	1500	750		0.055	0.14	-
064		25	1500	750		0.054	0.13	-
		28	1500	750		0.056	0.14	-
		35	1500	750		0.053	0.13	-
		40	1500	750		0.049	0.13	-
	2	45	1500	750	1.6	0.053	0.13	-
		50	1500	750	1.0	0.049	0.13	-
		60	1500	750		0.049	0.13	-
		70	1500	750		0.049	0.13	-
		80	1500	750		0.049	0.13	-
		90	1500	750		0.049	0.13	-
		100	1500	750		0.049	0.13	-

% 1 With nominal input speed, servic life is 20,000 hours

※ 2 The maximun torque when starting and stopping

3 The maximum torque when it receives shock (up to 1000times)
4 The maximum average input speed.
5 The maximum momentary input speed.

% 6 With this load and nominal input speed.service life will be 20,000 hours

(Applied to the output shaft center, at axial load 0) # 7 With this load and nominal input speed.service life will be 20,000 hours

(Applied to the output side bearing, at radial load 0) % 8 The maximum radial load the reducer can accept % 9 The maximum axial load the reducer can accept

* 10 The weight may vary slightly model to model.

ZionKaifull Automation Technology

AH-090 Series Load Performance Table

			₩1	₩2	₩3	₩4	₩5	₩6	₩7
Frame size	Stage	Ratio	Norminal output torque [Nm]	Maximum output torque [Nm]	Emergency stop torque [Nm]	Norminal input speed [rpm]	Maximum input speed [rpm]	Permitted radial load [N]	Permitted axial load [N]
		4	75	125	250	3000	6000	720	620
		5	75	125	250	3000	6000	780	680
		6	75	125	250	3000	6000	830	740
	1	7	75	125	250	3000	6000	870	790
		8	75	125	250	3000	6000	910	830
		9	50	80	200	3000	6000	950	880
		10	50	80	200	3000	6000	980	920
		16	75	125	250	3000	6000	1200	1100
		20	75	125	250	3000	6000	1200	1200
090		25	75	125	250	3000	6000	1300	1400
		28	75	125	250	3000	6000	1400	1400
		35	75	125	250	3000	6000	1500	1600
		40	75	125	250	3000	6000	1600	1700
	2	45	50	80	200	3000	6000	1600	1700
		50	75	125	250	3000	6000	1700	1700
		60	75	125	250	3000	6000	1800	1700
		70	75	125	250	3000	6000	1900	1700
		80	75	125	250	3000	6000	2000	1700
		90	50	80	200	3000	6000	2000	1700
		100	50	80	200	3000	6000	2100	1700

			₩8	※ 9	і10 ж€10				
Frame size	Stage	Ratio	Maximum radial load [N]	Maximum axial load [N]	Weight [kg]	Moment of inertia (≪ Φ 8) [kgcm²]	Moment of inertia (≤ Φ 14) [kgcm²]	Moment of inertia (≤ Φ 19) [kgcm²]	Moment of inertia (≪ Φ 28) [kgcm²]
		4	3300	1700		-	0.77	1.2	2.9
		5	3300	1700		-	0.58	1.0	2.9
		6	3300	1700		-	0.48	0.94	2.8
	1	7	3300	1700	3.6	-	0.41	0.88	2.8
		8	3300	1700		-	0.37	0.84	2.8
		9	3300	1700		-	0.35	0.81	2.8
		10	3300	1700		-	0.33	0.80	2.8
		16	3300	1700		0.16	0.31	0.75	-
		20	3300	1700		0.14	0.29	0.73	-
090		25	3300	1700]	0.13	0.28	0.72	-
		28	3300	1700]	0.14	0.30	0.73	-
		35	3300	1700	l	0.13	0.28	0.72	-
		40	3300	1700]	0.10	0.25	0.70	-
	2	45	3300	1700	4.0	0.12	0.27	0.71	-
		50	3300	1700	1 7.0	0.10	0.25	0.70	-
		60	3300	1700]	0.099	0.25	0.70	-
		70	3300	1700]	0.098	0.25	0.69	-
		80	3300	1700]	0.098	0.25	0.69	-
		90	3300	1700]	0.098	0.25	0.69	-
		100	3300	1700]	0.098	0.25	0.69	-

% 1 With nominal input speed, servic life is 20,000 hours
 % 2 The maximun torque when starting and stopping
 % 3 The maximun torque when it receives shock (up to 1000times)

* 4 The maximum average input speed.

* 5 The maximum momentary input speed.

% 6 With this load and nominal input speed.service life will be 20,000 hours

(Applied to the output shaft center, at axial load 0)
 7 With this load and nominal input speed, service life will be 20,000 hours (Applied to the output side bearing, at radial load 0)
 8 The maximum radial load the reducer can accept

* 9 The maximum axial load the reducer can accept

* 10 The weight may vary slightly model to model.

AH-110 Series Load Performance Table

			₩1	₩2	₩3	₩4	₩5	₩6	₩7
Frame size	Stage	Ratio	Norminal output torque [Nm]	Maximum output torque [Nm]	Emergency stop torque [Nm]	Norminal input speed [rpm]	Maximum input speed [rpm]	Permitted radial load [N]	Permitted axial load [N]
		4	120	330	625	3000	6000	4100	3500
		5	180	330	625	3000	6000	4400	3800
		6	180	330	625	3000	6000	4600	4000
	1	7	180	330	625	3000	6000	4800	4200
		8	180	330	625	3000	6000	5000	4300
		9	120	225	500	3000	6000	5200	4300
		10	120	225	500	3000	6000	5400	4300
		16	180	330	625	3000	6000	6200	4300
		20	180	330	625	3000	6000	6600	4300
110		25	180	330	625	3000	6000	7100	4300
		28	180	330	625	3000	6000	7300	4300
		35	180	330	625	3000	6000	7800	4300
		40	180	330	625	3000	6000	8200	4300
	2	45	120	225	500	3000	6000	8400	4300
		50	180	330	625	3000	6000	8500	4300
		60	180	330	625	3000	6000	8500	4300
		70	180	330	625	3000	6000	8500	4300
		80	180	330	625	3000	6000	8500	4300
		90	120	225	500	3000	6000	8500	4300
		100	120	225	500	3000	6000	8500	4300

			₩8	※ 9	ій 10 ж				
Frame size	Stage	Ratio	Maximum radial load [N]	Maximum axial load [N]	Weight [kg]	Moment of inertia (≪Φ8) [kgcm²]	Moment of inertia (≤ Φ 14) [kgcm²]	Moment of inertia (≤ Φ 19) [kgcm²]	Moment of inertia (≤ Φ 28) [kgcm²]
		4	8500	4300		-	2.5	4.6	12
		5	8500	4300		-	1.9	3.9	12
		6	8500	4300		-	1.5	3.6	11
	1	7	8500	4300	7.0	-	1.3	3.3	11
		8	8500	4300		-	1.2	3.2	11
		9	8500	4300		-	1.1	3.1	11
		10	8500	4300		-	1.0	3.0	11
		16	8500	4300		0.51	0.95	2.9	-
110		20	8500	4300		0.42	0.85	2.8	-
110		25	8500	4300		0.40	0.83	2.8	-
		28	8500	4300		0.45	0.89	2.8	-
		35	8500	4300		0.38	0.81	2.8	-
		40	8500	4300		0.29	0.74	2.7	-
	2	45	8500	4300	7.7	0.37	0.81	2.7	-
		50	8500	4300	1	0.28	0.73	2.7	-
		60	8500	4300		0.28	0.73	2.7	-
		70	8500	4300]	0.28	0.73	2.7	-
		80	8500	4300]	0.28	0.73	2.7	-
		90	8500	4300]	0.28	0.73	2.7	-
		100	8500	4300]	0.28	0.73	2.7	-

※ 1 With nominal input speed, servic life is 20,000 hours

※ 2 The maximun torque when starting and stopping

※ 3 The maximun torque when it receives shock (up to 1000times)

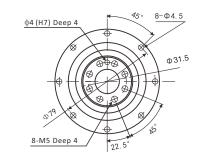
% 4 The maximum average input speed.
% 5 The maximum momentary input speed.
% 6 With this load and nominal input speed.service life will be 20,000 hours (Applied to the output shaft center, at axial load 0)

※ 7 With this load and nominal input speed.service life will be 20,000 hours

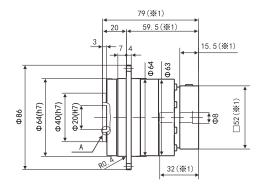
(Applied to the output side bearing, at radial load 0)

※ 8 The maximum radial load the reducer can accept

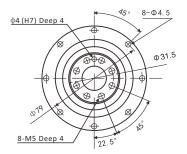
% 9 The maximum axial load the reducer can accept
 % 10 The weight may vary slightly model to model.

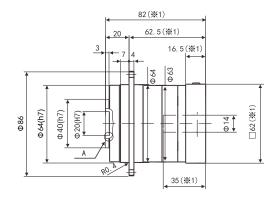


Input Shaft Diameter $\leq \phi 8$ (in mm)

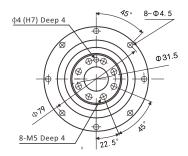


Input Shaft Diameter $\leqslant \varphi$ 14 $\,$ (in mm)

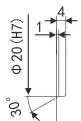


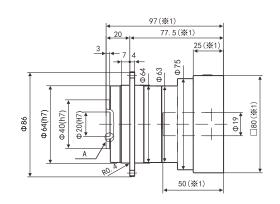


Input Shaft Diameter $\leq \phi$ 19 (in mm)



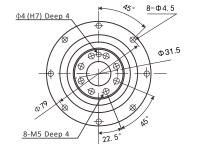
Enlarged Details A (in mm)

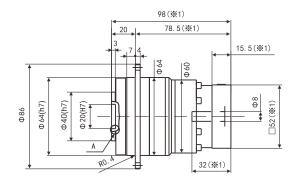




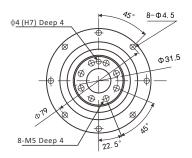
%1 Length may change for different motors.

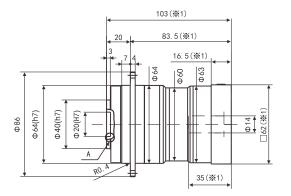
Input Shaft Diameter $\leq \phi 8$ (in mm)



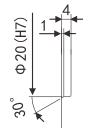


Input Shaft Diameter $\leq \phi 14$ (in mm)

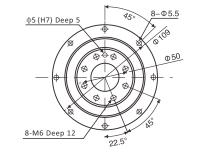




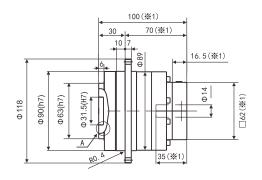
Enlarged Details A (in mm)



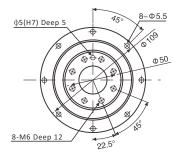
℁1 Length may change for different motors.

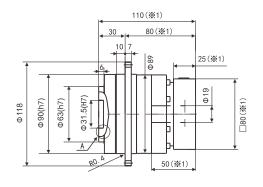


Input Shaft Diameter $\leq \phi 14$ (in mm)



Input Shaft Diameter $\leq \phi$ 19 (in mm)





127(※1)

97(※1)

35 (※1)

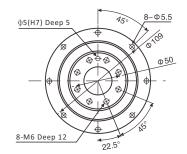
130 (※1)

Φ28

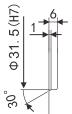
30

10 7

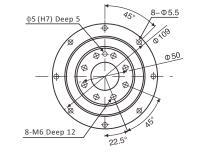
Input Shaft Diameter $\leq \phi$ 28 (in mm)



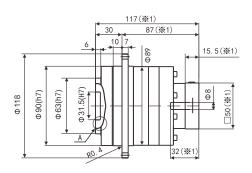
Enlarged Details A (in mm)



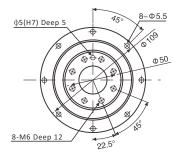
※1 Length may change for different motors.

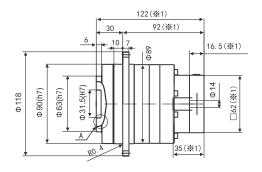


Input Shaft Diameter $\leq \phi 8$ (in mm)

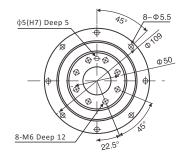


Input Shaft Diameter $\leq \phi 14$ (in mm)

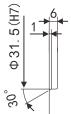


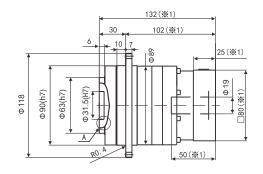


Input Shaft Diameter $\leq \phi$ 19 (in mm)

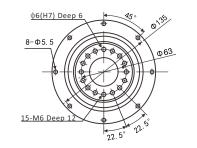


Enlarged Details A (in mm)

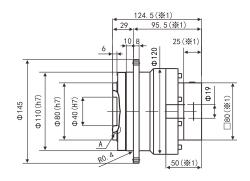




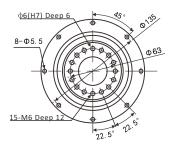
※1 Length may change for different motors.

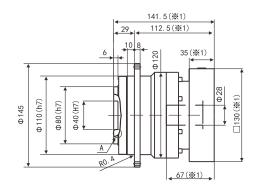


Input Shaft Diameter $\leq \phi 19$ (in mm)



Input Shaft Diameter $\leqslant \varphi \, 28 \,$ (in mm)





29

R0.4

Φ110(h7) Φ80(h7)

Φ145

Φ40 (H7)

10 8

Φ120

162.5(※1)

133.5(※1)

Φ125

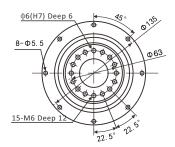
82(※1)

45 (※1)

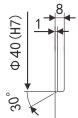
□180 (※1

Φ38

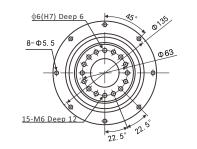
Input Shaft Diameter $\leq \phi$ 38 (in mm)



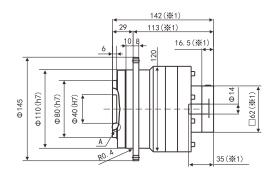
Enlarged Details A (in mm)



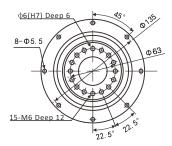


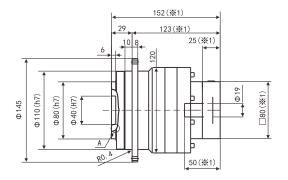


Input Shaft Diameter $\leq \phi 14$ (in mm)

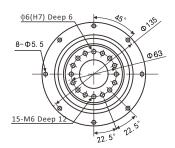


Input Shaft Diameter $\leqslant \varphi$ 19 (in mm)

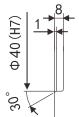


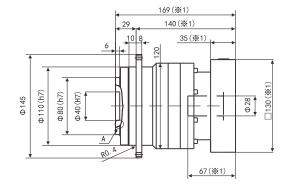


Input Shaft Diameter $\leq \phi 28$ (in mm)



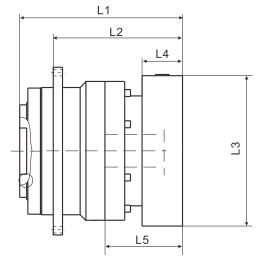
Enlarged Details A (in mm)





%1 Length may change for different motors.

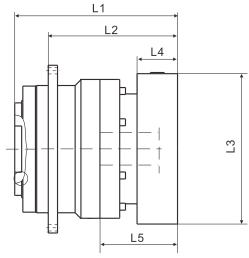
AH-064 Input Shaft Adaptors



				1 Stag	е				2 Stag	е	
Model number	**: Adapter code	L1	L2	L3	L4	L5	L1	L2	L3	L4	L5
	AA • AC • AD • AF • AG	79	59.5	□52	15.5	32	98	78.5	52	15.5	32
AH-064-[]-[]-8**	AB·AE·AH·AJ·AK	84	64.5	□52	20.5	37	103	83.5	□52	20.5	37
Input Shaft Dia. $\leq \phi 8$	BA · BB · BD · BE	79	59.5	□60	15.5	32	98	78.5	□60	15.5	32
	BC · BF	84	64.5	□60	20.5	37	103	83.5	□60	20.5	37
	СА	84	64.5	□70	20.5	37	103	83.5	□70	20.5	37
	BA • BB • BD • BE • BF • BG • BJ • BK	82	62.5	65	16.5	35	103	83.5	65	16.5	35
	BC · BH · BM	87	67.5	□65	21.5	40	108	88.5	□65	21.5	40
	BL	92	72.5	65	26.5	45	113	93.5	□65	26.5	45
	CA	82	62.5	□70	16.5	35	103	83.5	□70	16.5	35
	СВ	87	67.5	□70	21.5	40	108	88.5	□70	21.5	40
AH-064-[]-[]-14**	$DA \cdot DB \cdot DC \cdot DD \cdot DF \cdot DH$	82	62.5	□80	16.5	35	103	83.5	□80	16.5	35
Input Shaft Dia. $\leq \phi 14$	DE	87	67.5	□80	21.5	40	108	88.5	□80	21.5	40
	DG		72.5	□80	26.5	45	113	93.5	□80	26.5	45
	EA · EB · EC	82	62.5	□90	16.5	35	103	83.5	□90	16.5	35
	ED	92	72.5	□90	26.5	45	113	93.5	□90	26.5	45
	FA	82	62.5	□100	16.5	35	103	83.5	□100	16.5	35
	GA	82	62.5	□115	16.5	35	103	83.5	□115	16.5	35
	DA · DB · DC	97	77.5	□80	25	50	-	-	-	-	-
	DD	107	87.5	□80	35	60	-	-	-	-	-
	DE	102	82.5	□80	30	55	-	-	-	-	-
	EA	102	82.5	□90	30	55	-	-	-	-	-
	EB	97	77.5	□90	25	50	-	-	-	-	-
AH-064-[]-[]-19** Input Shaft Dia. ≤ ∲19	EC	107	87.5	□90	35	60	-	-	-	-	-
	FA	97	77.5	100	25	50	-	-	-	-	-
	FB	107	87.5	100	35	60	-	-	-	-	-
	GA·GC	102	82.5	□115	30	55	-	-	-	-	-
	GB · GD	97	77.5	□115	25	50	-	-	-	-	-
	НА	97	77.5	□130	25	50	-	-	-	-	-
	НВ	112	92.5	□130	40	65	-	-	-	-	-
	HC · HD · HE	102	82.5	□130	30	55	-	-	-	-	-

%1 1-stage reduction ratios 4 to 10, 2-stages reduction ratios 16 to 100

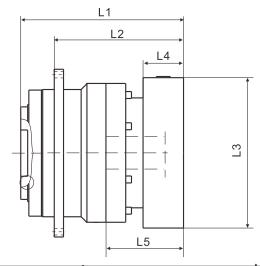
AH-090 Series Input shaft Adaptors



				1 Stag	е				2 Stag	e	
Model number	**: Adapter code	L1	L2	L3	L4	L5	L1	L2	L3	L4	L5
	AA · AC · AD · AF · AG	-	-	-	-	-	117	87	52	15.5	32
	AB·AE·AH·AJ·AK	-	-	-	-	-	122	92	52	20.5	37
AH-090-[]-[]-8**	BA • BB • BD • BE	-	-	-	-	-	117	87	60	15.5	32
Input Shaft Dia. $\leq \phi 8$	BC · BF	-	-	-	-	-	122	92	60	20.5	37
	CA	-	-	-	-	-	122	92	70	20.5	37
	BA · BB · BD · BE · BF · BG · BJ · BK	100	70	65	16.5	35	122	92	65	16.5	35
	BC · BH · BM	105	75	65	21.5	40	127	97	65	21.5	40
	BL	110	80	65	26.5	45	132	102	65	26.5	45
	СА	100	70	□70	16.5	35	122	92	□70	16.5	35
	СВ	105	75	□70	21.5	40	127	97	□70	21.5	40
	$DA \cdot DB \cdot DC \cdot DD \cdot DF \cdot DH$	100	70	80	16.5	35	122	92	80	16.5	35
	DE	105	75	80	21.5	40	127	97	80	21.5	40
AH-090-[]-[]-14**	DG	110	80	80	26.5	45	132	102	80	26.5	45
Input Shaft Dia. ≤ ¢14	EA · EB · EC	100	70	□90	16.5	35	122	92	90	16.5	35
	ED	110	80	□90	26.5	45	132	102	90	26.5	45
	FA	100	70	□100	16.5	35	122	92	□100	16.5	35
	GA	100	70	115	16.5	35	122	92	115	16.5	35
	DA · DB · DC	110	80	80	25	50	132	102	80	25	50
	DD	120	90	80	35	60	142	112	80	35	60
	DE	115	85	80	30	55	137	107	80	30	55
	EA	115	85	□90	30	55	137	107	90	30	55
	EB	110	80	□90	25	50	132	102	□90	25	50
	EC	120	90	□90	35	60	142	112	90	35	60
	FA	110	80	□100	25	50	132	102	□100	25	50
	FB	120	90	100	35	60	142	112	□100	35	60
AH-090-[]-[]-19**	GA · GC	115	85	115	30	55	137	107	115	30	55
Input Shaft Dia. $\leq \phi$ 19	GB · GD	110	80	115	25	50	132	102	115	25	50
	HA	110	80	130	25	50	132	102	□130	25	50
	HB	125	95	130	40	65	147	117	□130	40	65
	HC · HD · HE	115	85	130	30	55	137	107	130	30	55
	FA · FB · FC	127	97	100	35	67	-	-	-	-	-
	$GA \cdot GB \cdot GC \cdot GD \cdot GE \cdot GF \cdot GG$	127	97	□115	35	67	-	-	-	-	-
	HA · HC · HD	127	97	130	35	67	-	-	-	-	-
AH-090-[]-[]-28**	HB	127	107	130	45	77	-	-	-	-	-
Input Shaft Dia. $\leq \phi 28$	JA • JB • JC	127	97	□150	35	67	-	-	-	-	-
	KA · KB	127	97	□180	35	67	-	-	-	-	-
-	KD	137	107	180	45	77	-	-	-	-	-
	LA	127	97	□200	35	67	-	-	-	-	-
	MA	127	97	220	35	67	-	-	-	-	-

%1 1-stage reduction ratios 4 to 10, 2-stages reduction ratios 16 to 100

AH-110 Input Shaft Adaptors



				1 Stag	е				2 Stag	е	
Model number	**: Adapter code	L1	L2	L3	L4	L5	L1	L2	L3	L4	L5
	BA • BB • BD • BE • BF • BG • BJ • BK	-	-	-	-	-	142	113	65	16.5	35
	BC · BH · BM	-	-	-	-	-	147	118	65	21.5	40
	BL	-	-	-	-	-	152	123	65	26.5	45
	СА	-	-	-	-	-	142	113	□70	16.5	35
	СВ	-	-	-	-	-	147	118	□70	21.5	40
AH-110-[]-[]-14**	$DA \cdot DB \cdot DC \cdot DD \cdot DF \cdot DH$	-	-	-	-	-	142	113	80	16.5	35
Input Shaft Dia. $\leq \phi 14$	DE	-	-	-	-	-	147	118	80	21.5	40
	DG	-	-	-	-	-	152	123	80	26.5	45
	EA · EB · EC	-	-	-	-	-	142	113	□90	16.5	35
	ED	-	-	-	-	-	152	123	□ 90	26.5	45
	FA	-	-	-	-	-	142	113	100	16.5	35
	GA	-	-	-	-	-	142	113	115	16.5	35
	DA · DB · DC	124.5	95.5	80	25	50	152	123	80	25	50
	DD	134.5	105.5	80	35	60	162	133	80	35	60
	DE	129.5	100.5	80	30	55	157	128	80	30	55
	EA	129.5	100.5	90	30	55	157	128	90	30	55
AH-110-[]-[]-19** Input Shaft Dia. $≤ φ$ 19	EB	124.5	95.5	90	25	50	152	123	□90	25	50
	EC	134.5	105.5	90	35	60	162	133	90	35	60
	FA	124.5	95.5	100	25	50	152	123	100	25	50
	FB	134.5	105.5	100	35	60	162	133	100	35	60
	GA · GC	129.5	100.5	115	30	55	157	128	115	30	55
	GB · GD	124.5	95.5	115	25	50	152	123	115	25	50
	HA	124.5	95.5	130	25	50	152	123	130	25	50
	HB	139.5	110.5	130	40	65	167	138	130	40	65
	HC · HD · HE	129.5	100.5	130	30	55	157	128	130	30	55
	FA · FB · FC	141.5	112.5	100	35	67	169	140	100	35	67
	$GA \cdot GB \cdot GC \cdot GD \cdot GE \cdot GF \cdot GG$	141.5	112.5	115	35	67	169	140	115	35	67
	HA · HC · HD	141.5	112.5	130	35	67	169	140	130	35	67
AH-110-[]-[]-28**	HB		122.5	130	45	77	179	150	130	45	77
Input Shaft Dia. $\leq \phi 28$	JA · JB · JC		112.5	150	35	67	169	140	130	35	67
	KA · KB		112.5	180	35	67	169	140	150	35	67
	KD		122.5	180	45	77	179	150	180	45	77
	LA		112.5	200	35	67	169	140	200	35	67
	MA		112.5	220	35	67	169	140	220	35	67
	HA		133.5	130	45	82	-	-	-	-	-
	HB		128.5	130	40	77	-	-	-	-	-
	JA		133.5		45	82	-	-	-	-	-
AH-110-[]-[]-38** Input Shaft Dia. ≪ ∲38	KA · KB · KC		133.5	180	45	82	-	-	-	-	-
	LA		133.5		45	82	-	-	-	-	-
	LB		143.5	200	55	92	-	-	-	-	-
	MA · MB		133.5	220	45	82	-	-	-	-	-
	NA	162.5	133.5	250	45	82	-	-	-	-	-

%1 1-stage reduction ratios 4 to 10, 2-stages reduction ratios 16 to 100%2 Adaptors available to match different input shaft diameters.