

Product List by Motor Matching, Capacity, Shape and Category Z-Type Reducer

Product List by Motor Matching, Capacity, Shape and Category

- (Notes) 1. The list below indicates the product line up as of November 2007. Since the specifications of the servomotors change from time to time, we recommend that you reconfirm the servomotor flange dimensions and the dimensions of the servomotor mounting parts when placing an order.
2. The servomotors listed below are to standard specifications. For products with optional specifications, such as motors with oil seals, please confirm whether the motor can be adjusted by checking the detailed drawings of input shaft and flange shape shown on page 95.
3. The maximum allowable rotational speed is 3000 rpm. When using a servomotor with top rotational speed of over 3000 rpm, please do not exceed 3000 rpm.
4. In case adaptable servomotor can be supplied beforehand, we assemble the Z Type Reducer with the servomotor and ship it as assembled unit. When assembling servomotor the standard setting is for the lead wire coming out in the bottom side for the AF3S/AF3F/AF2S/AF2F/AFS/AFF types with all other types out of the top side.
5. The ADME Series from Hitachi Sanki System is regarded as custom made.
6. For details, please ask our nearest office.

Makers (in Japanese syllabary order)	Type	Motor Capacity (W)							
		100	200	400	750	1000		1500	2000
						1 arcmin, 3 arcmin	Low Backlash		
OMRON CORP.	R7M-Z	100S1	200S2	400S1	750S1	-	-	-	-
	A Series R7M-A(Cylinder type)	100S1	200S2	400S1	750S1	-	-	-	-
	A Series R7M-AP	100F1	200F2	400F1	750F1	-	-	-	-
	W Series R88M-W(Cylinder type)	100S1	200S2	400S1	750S1	-	-	-	-
	W Series R88M-WP	100F1	200F2	400F1	750F1	-	-	-	-
	U Series R88M-U	100S1	200S2	400S1	750S1	-	-	-	-
KEYENCE CORP.	MV Series	100S1	200S2	400S1	750S4	-	-	-	-
Sanyo Denki Co., Ltd.	P1	-	-	-	-	1000K31	2000K31	-	-
	P2	-	-	-	-	1000K22	2000K22	2000K22	2000K22
	P3	100S1	200S2	400S1	750S1	-	-	-	-
	P6	-	-	-	-	1000K32	2000K32	2000K32	-
	R2AA04	100S1	-	-	-	-	-	-	-
	R2AA06	100F1	200S2	400S1	-	-	-	-	-
	R2AA08	-	-	-	750S1	-	-	-	-
	Q1	100S1	200S2	400S1	750S4	1000K22	2000K22	2000K22	2000K22
	Q2AA07	-	200F3	400F3	-	-	-	-	-
	Q2AA10	-	-	-	-	1000K22	2000K22	2000K22	-
Shinko Electric Co., Ltd.	Q2AA13	-	-	-	-	1000K32	2000K32	2000K32	-
	BeBop Series BM	100S1	200S2	400S1	750S2	1000K32	2000K32	2000K32	2000K32
Tamagawa Seiki Co., Ltd.	BeBop Series BMC	100S1	200S2	400S1	750S2	1000K32	2000K32	2000K32	2000K32
	BeBopZ Series ZM	100S1	200S2	-	-	-	-	-	-
	TS4503,TS4603	100S1	-	-	-	-	-	-	-
	TS4606	100F1	-	-	-	-	-	-	-
	TS4506,TS4507,TS4607	-	200S2	-	-	-	-	-	-
	TS4611	-	200F2	-	-	-	-	-	-
	TS4509,TS4609	-	-	400S1	-	-	-	-	-
	TS4612	-	-	400F1	-	-	-	-	-
	TS4614	-	-	-	750S2	-	-	-	-
	TS4813	-	-	-	-	1000K22	-	-	-
Toei Electric Co., Ltd.	VLBST	-	200S2	400S1	-	-	-	-	-
	VLBSV	-	-	-	-	1000K31	2000K31	-	-
	VLBSV-ZA	100S1	200S2	400S1	750S2	-	-	-	-
Hitachi Industrial Equipment Systems Co., Ltd.	ADMA Series	100S1	200S2	400S1	750S2	-	-	-	-
	ADMB Series	100F1	200F2	400F1	750F2	-	-	-	-
	ADME Series	-	-	-	-	2000K32(注5)	-	-	-
	ADMG Series	-	-	-	-	1000K22	2000K32	2000K32	-
FANUC, LTD.	Refer to the separate table on page A5.								
Fuji Electric FA Components & Systems Co., Ltd.	GYS Series	100S1	200S2	400S1	750S1	1000K23	2000K23	2000K23	2000K23
	GYC Series	100F1	200F2	400F1	-	1000K33	2000K33	2000K33	2000K33
Matsushita Electric Industrial Co., Ltd.	MQMA	100F3	200F3	400F3	-	-	-	2000K21	2000K21
	MSMA	100S3	200S3	400S3	750S3	-	-	-	-
	MSMD Series	100S3	200S3	400S3	750S3	-	-	-	-
	MUMA	-	200S3	400S3	750S3	-	-	-	-
	MDMA	-	-	-	-	1000K32	2000K32	2000K32	2000K32
Mitsubishi Electric Corp.	HC-UFS 3000rpm Series	100F1	200F2	400F1	750F2	-	-	-	-
	HC-KFS Series	100S1	200S2	400S1	750S2	-	-	-	-
	HC-MFS Series	100S1	200S2	400S1	750S2	-	-	-	-
	HC-PQ Series	100S1	200S2	400S1	-	-	-	-	-
	HF-KP Series	100S1	200S2	400S1	750S2	-	-	-	-
	HF-MP Series	100S1	200S2	400S1	750S2	-	-	-	-
	HC-LFS Series	-	-	-	-	1000K33	2000K33	2000K33	-
	HC-LP Series	-	-	-	-	1000K33	2000K33	2000K33	-
	HC-RFS Series	-	-	-	-	1000K23	2000K23	2000K23	2000K23
	HC-RP Series	-	-	-	-	1000K23	2000K23	2000K23	2000K23
	HC-SFS 3000rpm Series	-	-	-	-	1000K33	2000K33	2000K33	-
	HF-SPシリーズ	-	-	-	-	1000K33	2000K33	2000K33	-
	YASKAWA Electric Corp.	Series SGMPH	100F1	200F2	400F1	750F1	-	-	-
Series SGMAH		100S1	200S2	400S1	750S1	-	-	-	-
Series SGMAS		100S1	200S2	400S1	750S1	-	-	-	-
Series SGMP5		100F1	200F2	400F1	750F1	-	-	-	-
JUNMA Series SJME		100S1	200S2	400S1	750S1	-	-	-	-
Series SGMAV		100S1	200S2	400S1	750S2	-	-	-	-
Series SGMJV		100S1	200S2	400S1	750S2	-	-	-	-
WAKO GIKEN Co., Ltd.	CNE	100S1	200S2	400S1	-	-	-	-	

Matching list of FANUC products

- (Notes)1. Only straight-shaft servomotors can be mounted.
 2. Darkly shaded spaces can only be used with 1 arcmin, 3 arcmin specs.
 3. The maximum allowable rotational speed is 3000 rpm. When using a servomotor with top rotational speed of over 3000 rpm, please do not exceed 3000 rpm.
 4. If mountable servomotors for the products are provided, NISSEI will mount them to the products before shipping.
 5. For details, contact your nearest NISSEI office.

Manufacturer	Type	Code by capacity and shape
FANUC Corporation	is0.2 / 5000 , M0.2	100S1
	is0.3 / 5000 , M0.3	100S1
	is0.4 / 5000 , M0.4	200S5
	is0.5 / 6000 , M0.5	200S5
	is1 / 6000 , M1	400S1
	is2 / 4000	
	is4 / 4000	750S6
	is8 / 3000	2000F31
	is12 / 2000 , is12 / 3000	2000F33
	1 / 5000i	
	2 / 5000i	
	4 / 4000i	2000F31
	8 / 3000i	2000F31
	is2 / 5000 , is2 / 6000	
	is4 / 5000	
	is8 / 4000 , is8 / 6000	2000F31

Standard Model Lineup

Z-Type Reducer

Precision
1 Arcmin, 3 Arcmin Specs
AF3S Type/ AF3F Type

* For a servomotor with a capacity of 1500W please select a reducer with a capacity of 2000W equiv.

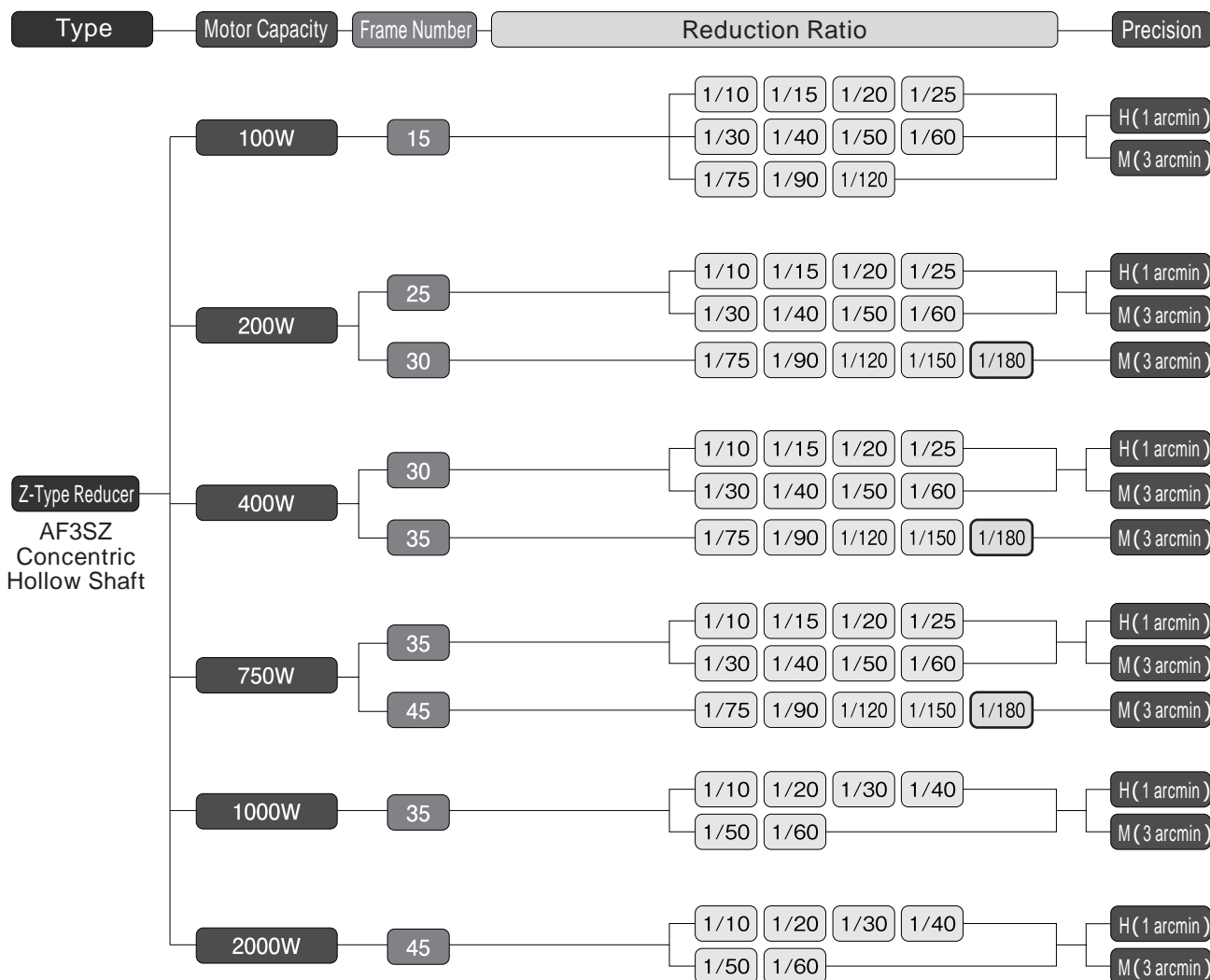
* For machines with low backlash specs (precision 30 arcmin or more), please refer to page 14.



Products with precision codes H and M (backlash 1 arcmin, 3 arcmin respectively) have different output shaft details from products with precision code L (low backlash). Please check the dimensions diagram.

List of AF3S Type (Hollow Shaft) Models

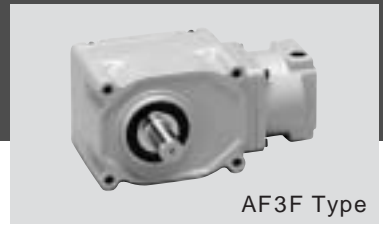
Backlash
1 arcmin, 3 arcmin specs



(Note) Models marked are limited torque type.



AF3S Type



AF3F Type

* For a servomotor with a capacity of 1500W please select a reducer with a capacity of 2000W equiv.

* For machines with low backlash specs (precision 30 arcmin or more), please refer to page 15.



Products with precision codes H and M (backlash 1 arcmin, 3 arcmin respectively) have different output shaft details from products with precision code L (low backlash). Please check the dimensions diagram.

List of AF3F Type (Concentric Solid Shaft) Models Backlash 1 arcmin, 3 arcmin specs

Type	Motor Capacity	Frame Number	Output Shaft Arrangement	Reduction Ratio	Precision	
Z-Type Reducer AF3FZ Concentric Solid Shaft	100W	18	H	1/10 1/15 1/20 1/25	H (1 arcmin)	
			M	1/30 1/40 1/50 1/60	M (3 arcmin)	
			F	1/75 1/90 1/120		
	200W	22	H	1/10 1/15 1/20 1/25	H (1 arcmin)	
			M	1/30 1/40 1/50 1/60	M (3 arcmin)	
			F			
		28	H			
			M	1/75 1/90 1/120 1/150 1/180	M (3 arcmin)	
			F			
	400W	28	H	1/10 1/15 1/20 1/25	H (1 arcmin)	
			M	1/30 1/40 1/50 1/60	M (3 arcmin)	
			F			
		32	H			
			M	1/75 1/90 1/120 1/150 1/180	M (3 arcmin)	
			F			
	750W	32	H	1/10 1/15 1/20 1/25	H (1 arcmin)	
			M	1/30 1/40 1/50 1/60	M (3 arcmin)	
			F			
40		H				
		M	1/75 1/90 1/120 1/150 1/180	M (3 arcmin)		
		F				
1000W	32	H	1/10 1/20 1/30 1/40	H (1 arcmin)		
		M	1/50 1/60	M (3 arcmin)		
		F				
2000W	40	H	1/10 1/20 1/30 1/40	H (1 arcmin)		
		M	1/50 1/60	M (3 arcmin)		
		F				

(Note) Models marked are limited torque type.

Standard Model Lineup

Z-Type Reducer

Low backlash specs
AF3S Type
AF3F Type

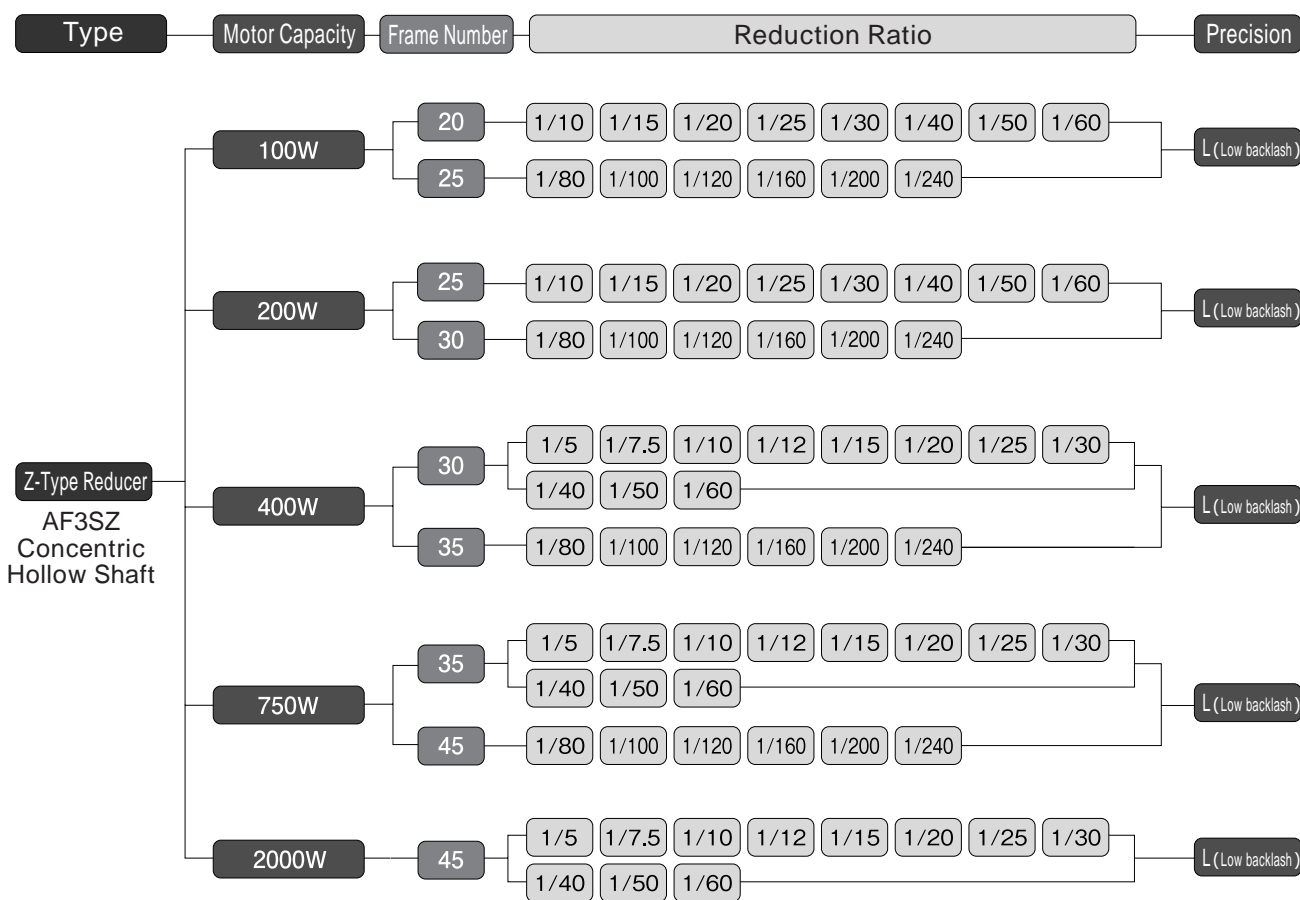
- * For precision of low backlash spec products refer to the Performance List.
- * For a servomotor with a capacity of 1000W or 1500W please select a reducer with a capacity of 2000W equiv.



Products with precision codes H and M (backlash 1 arcmin, 3 arcmin respectively) have different output shaft details from products with precision code L (low backlash). Please check the dimensions diagram.

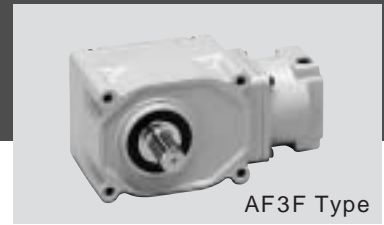
*Refer to page 12 for 1 arcmin, 3 arcmin specs machine lineup.

List of AF3S Type (Concentric hollow shaft) Models Low backlash specs





AF3S Type



AF3F Type

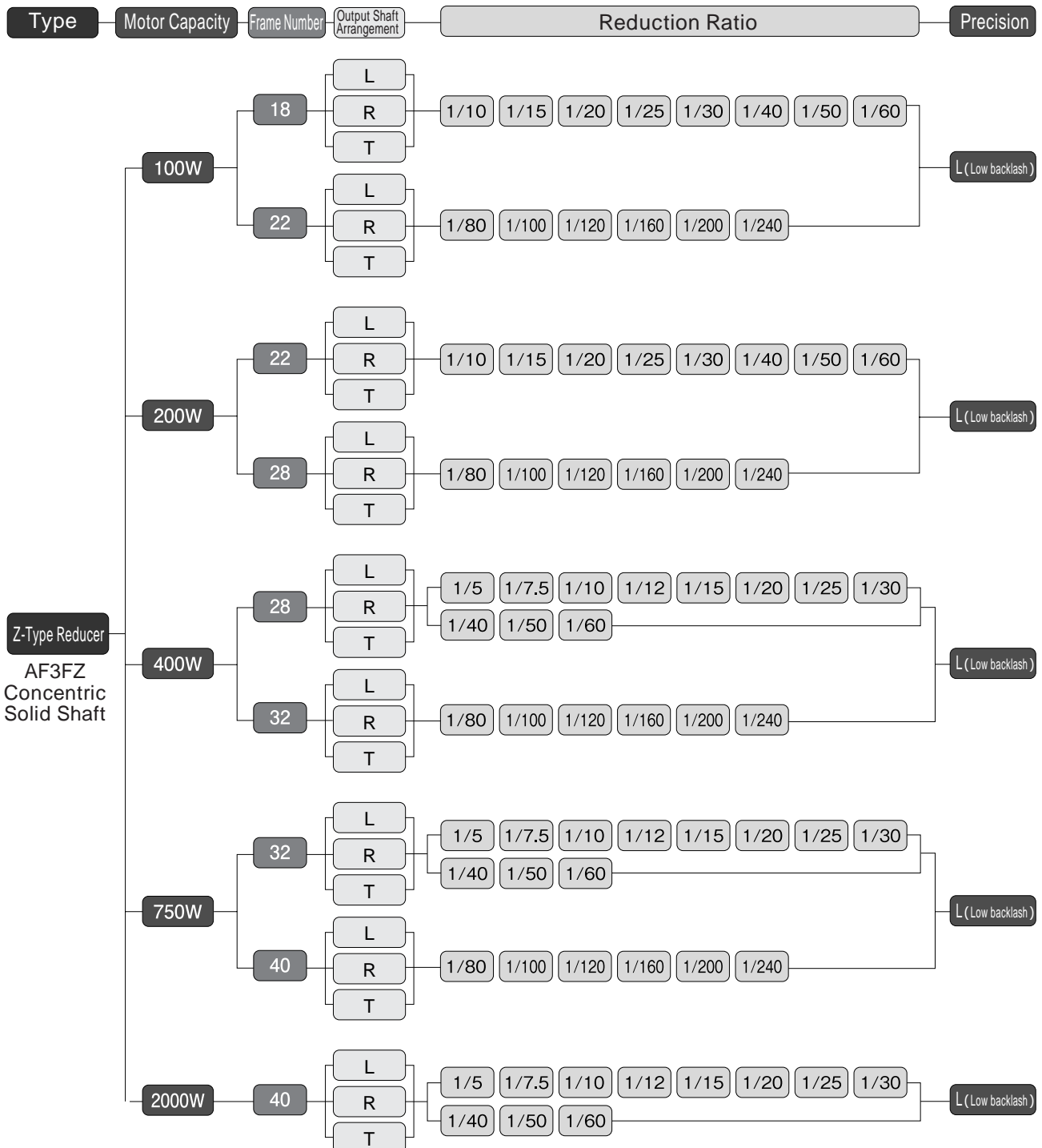
- * For precision of low backlash spec products refer to the Performance List.
- * For a servomotor with a capacity of 1000W or 1500W please select a reducer with a capacity of 2000W equiv.



Products with precision codes H and M (backlash 1 arcmin, 3 arcmin respectively) have different output shaft details from products with precision code L (low backlash). Please check the dimensions diagram.

*Refer to page 13 for 1 arcmin, 3 arcmin specs machine lineup.

List of AF3F Type (Concentric Solid Shaft) Models Low backlash specs



Standard Model Lineup

Z-Type Reducer

Precision
1 Arcmin, 3 Arcmin Specs
AF2S Type/ AF2F Type

* For a servomotor with a capacity of 1500W please select a reducer with a capacity of 2000W equiv.

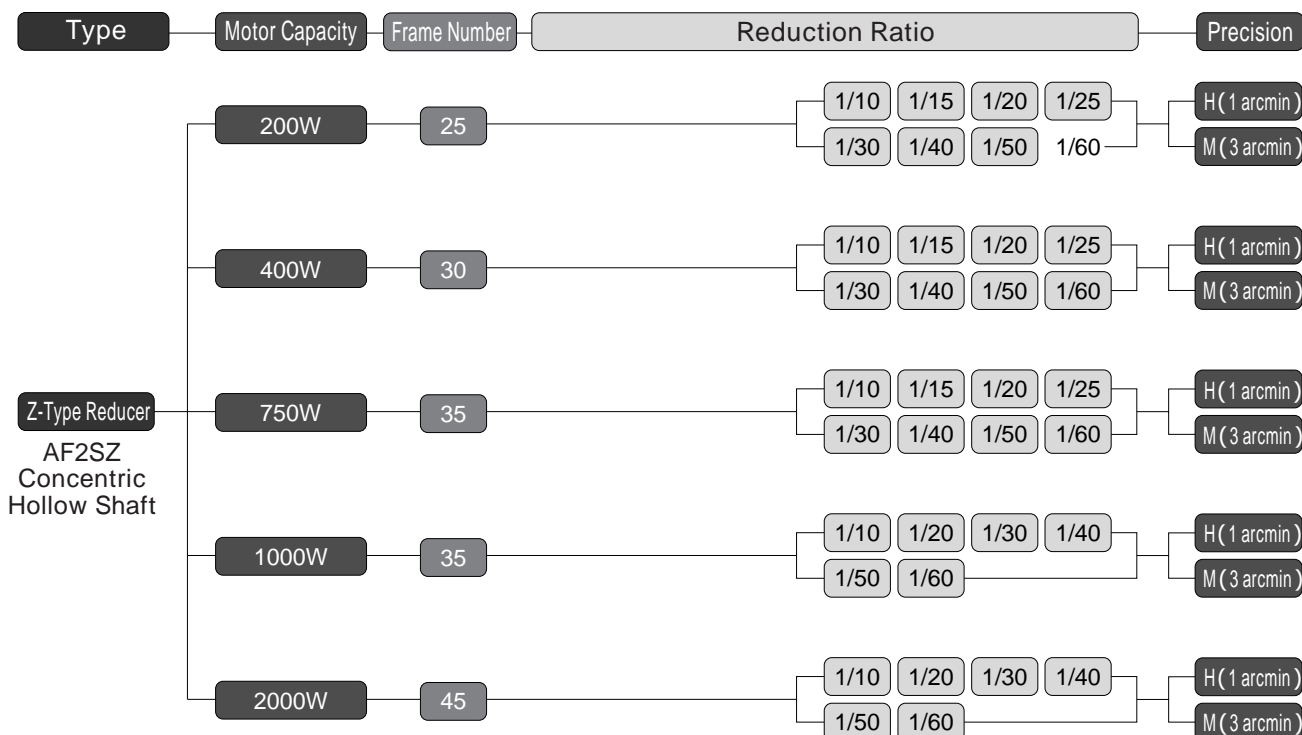
* For machines with low backlash specs (precision 30 arcmin or more), please refer to page 18.

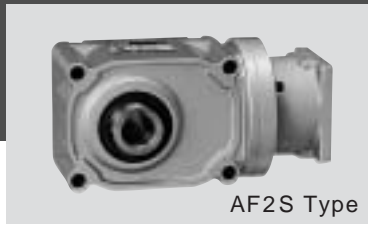


Products with precision codes H and M (backlash 1 arcmin, 3 arcmin respectively) have different output shaft details from products with precision code L (low backlash). Please check the dimensions diagram.

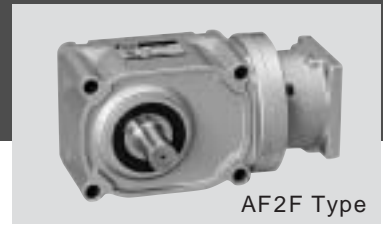
List of AF2S Type (Hollow Shaft) Models

Backlash
1 arcmin, 3 arcmin specs





AF2S Type



AF2F Type

* For a servomotor with a capacity of 1500W please select a reducer with a capacity of 2000W equiv.

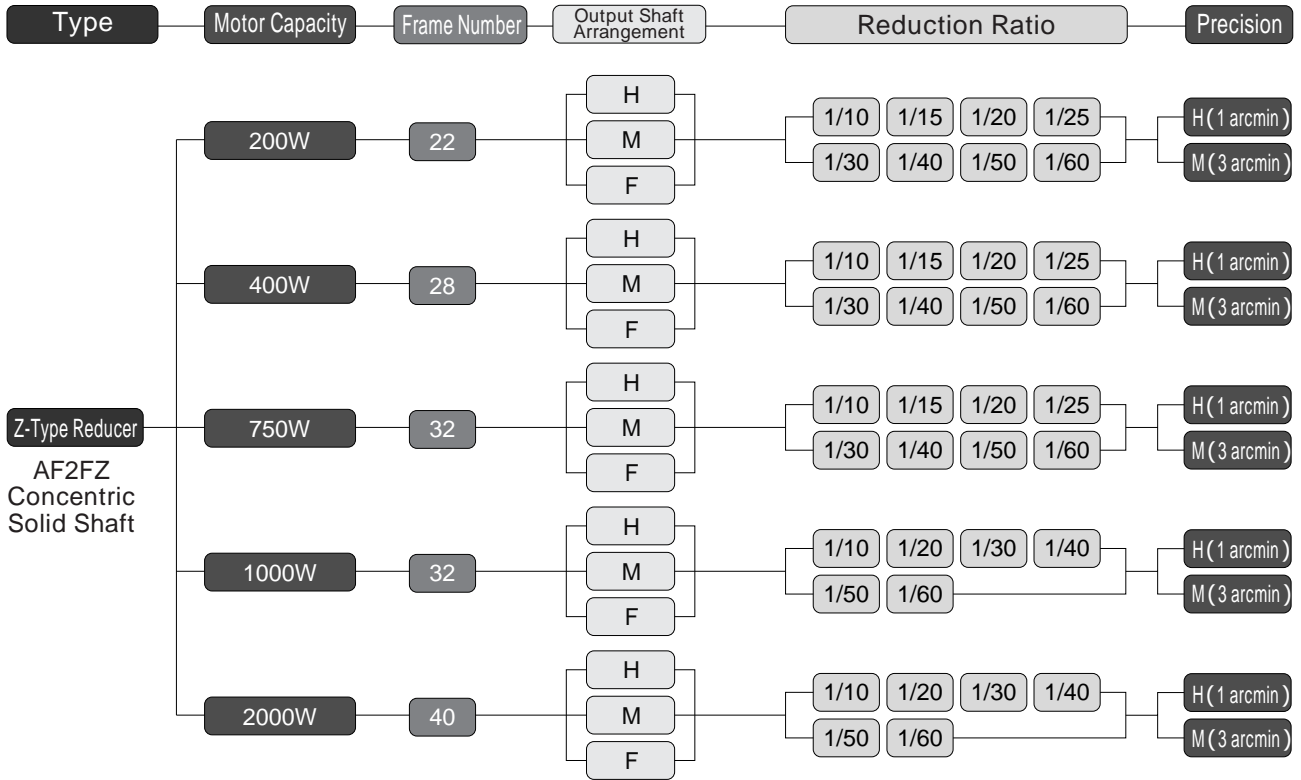
* For machines with low backlash specs (precision 30 arcmin or more), please refer to page 19.



Products with precision codes H and M (backlash 1 arcmin, 3 arcmin respectively) have different output shaft details from products with precision code L (low backlash). Please check the dimensions diagram.

List of AF2F Type (Concentric Solid Shaft) Models

**Backlash
1 arcmin, 3 arcmin specs**



Standard Model Lineup

Z-Type Reducer

Low backlash specs
AF2S/AFS Type
AF2F/AFF Type

- * Models marked are limited torque type.
- * For precision of low backlash spec products refer to the Performance List.
- * For a servomotor with a capacity of 1000W or 1500W please select a reducer with a capacity of 2000W equiv.



Products with precision codes H and M (backlash 1 arcmin, 3 arcmin respectively) have different output shaft details from products with precision code L (low backlash). Please check the dimensions diagram.

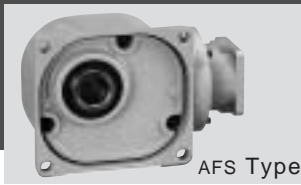
*Refer to page 16 for 1 arcmin, 3 arcmin specs machine lineup.

List of AF2S/AFS Type (hollow shaft) Models Low backlash specs

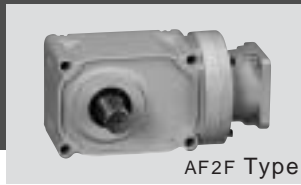
Type	Motor Capacity	Frame Number	Reduction Ratio	Precision
Z-Type Reducer AF2SZ Concentric Hollow Shaft (1/5 ~ 1/60)	100W	20	1/10 1/15 1/20 1/25 1/30 1/40 1/50 1/60	L (Low backlash)
	200W	25	1/10 1/15 1/20 1/25 1/30 1/40 1/50 1/60	L (Low backlash)
	400W	30	1/5 1/7.5 1/10 1/12 1/15 1/20 1/25 1/30 1/40 1/50 1/60	L (Low backlash)
	750W	35	1/5 1/7.5 1/10 1/12 1/15 1/20 1/25 1/30 1/40 1/50 1/60	L (Low backlash)
	2000W	45	1/5 1/7.5 1/10 1/12 1/15 1/20 1/25 1/30 1/40 1/50 1/60	L (Low backlash)
Z-Type Reducer AFSZ Hollow Shaft (1/80 ~ 1/240)	100W	25	1/80 1/100 1/120 1/160 1/200 1/240	L (Low backlash)
	200W	30	1/80 1/100 1/120 1/160 1/200 1/240	L (Low backlash)
	400W	35	1/80 1/100 1/120 1/160 1/200 1/240	L (Low backlash)
	750W	45	1/80 1/100 1/120 1/160 1/200 1/240	L (Low backlash)
	2000W	55	1/80 1/100 1/120 1/160 1/200 1/240	L (Low backlash)



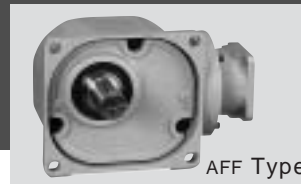
AF2S Type



AFS Type



AF2F Type



AFF Type

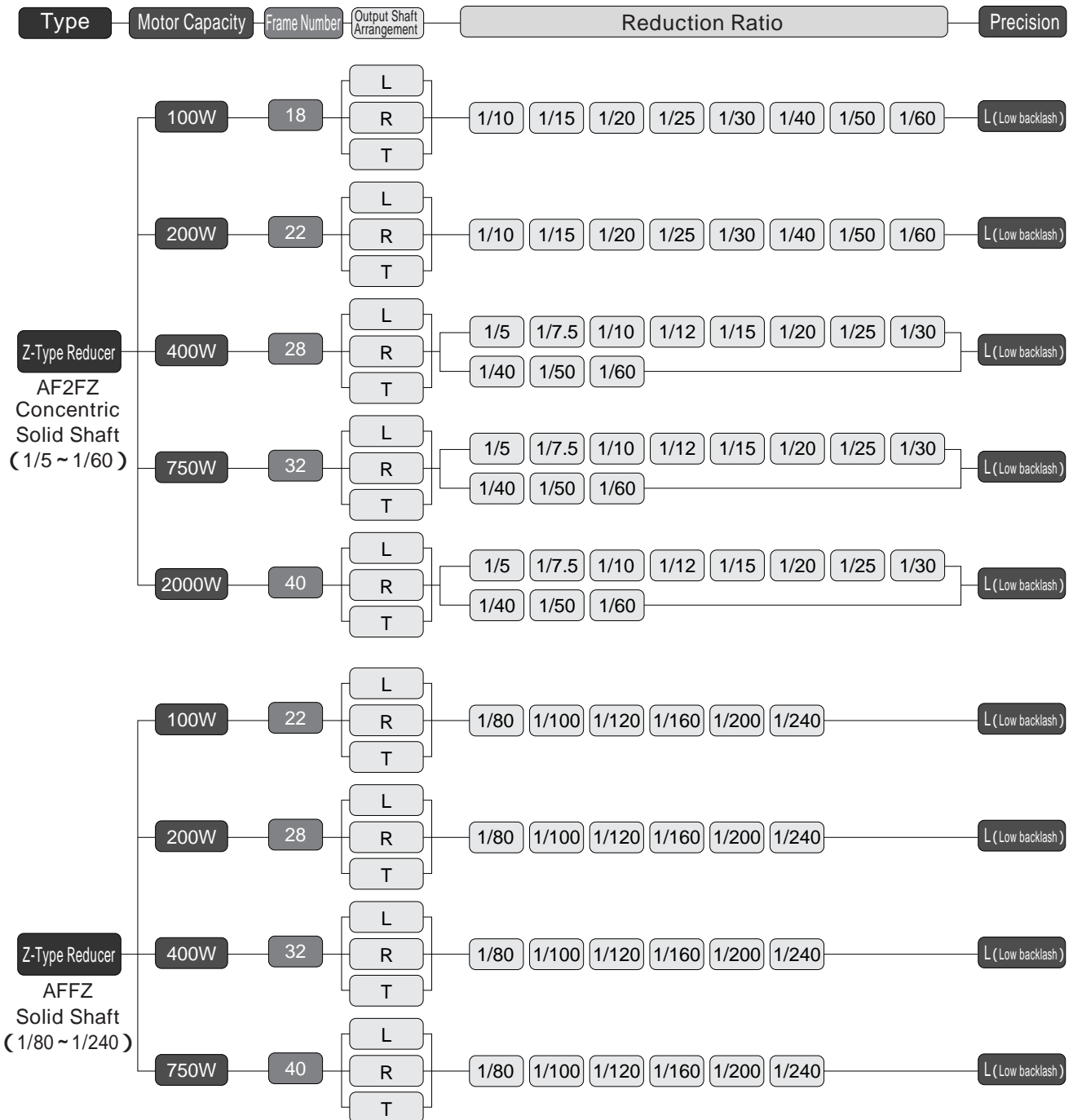
- * For precision of low backlash spec products refer to the Performance List.
- * For a servomotor with a capacity of 1000W or 1500W please select a reducer with a capacity of 2000W equiv.



Products with precision codes H and M (backlash 1 arcmin, 3 arcmin respectively) have different output shaft details from products with precision code L (low backlash). Please check the dimensions diagram.

*Refer to page 17 for 1 arcmin, 3 arcmin specs machine lineup.

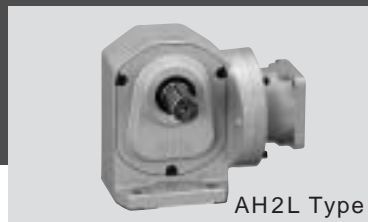
List of AF2F/AFF Type (Solid Shaft) Models Low backlash specs



Standard Model Lineup

Z-Type Reducer

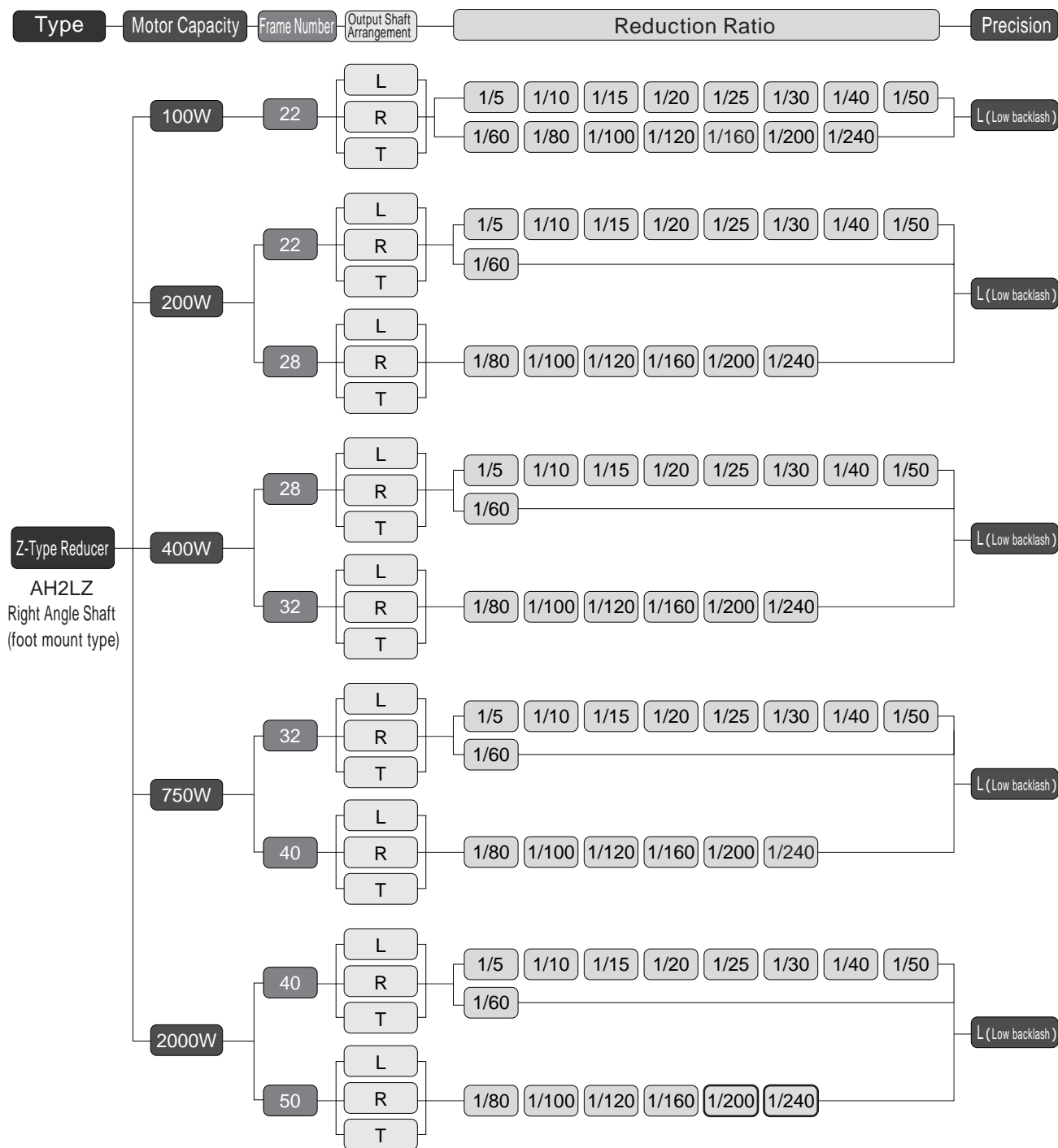
Low backlash specs
AH2L Type



- * Models marked are limited torque type.
- * For precision of low backlash spec products refer to the Performance List.
- * For a servomotor with a capacity of 1000W or 1500W please select a reducer with a capacity of 2000W equiv.

*AH2L Type is not available in precision 1 arcmin, 3 arcmin specs.

List of AH2L Type (Right Angle Shaft) Models Low backlash specs



Standard Model Lineup Z-Type Reducer

Low backlash specs
AG3L/AG3K/
AG3F Type



- * Models marked are limited torque type.
- * For precision of low backlash spec products refer to the Performance List.
- * For a servomotor with a capacity of 1000W or 1500W please select a reducer with a capacity of 2000W equiv.

*AG3L/AG3K/AG3F Type is not available in precision 1 arcmin, 3 arcmin specs.

List of AG3L/AG3K/AG3F Type (Parallel Shaft) Models Low backlash specs

Type	Motor Capacity	Frame Number	Reduction Ratio								Precision
Z-Type Reducer AG3LZ Parallel Shaft (foot mount type)	100W	18	1/5	1/10	1/15	1/20	1/25	1/30	1/40	1/50	L (Low backlash)
		22	1/60	1/80	1/100	1/120	1/160	1/200			
	200W	18	1/5	1/10	1/15	1/20	1/25				L (Low backlash)
		22	1/30	1/40	1/50	1/60	1/80				
		28	1/100	1/120	1/160	1/200					
	400W	22	1/5	1/10	1/15	1/20	1/25				L (Low backlash)
		28	1/30	1/40	1/50	1/60	1/80				
		32	1/100	1/120	1/160	1/200					
	750W	28	1/5	1/10	1/15	1/20	1/25				L (Low backlash)
		32	1/30	1/40	1/50	1/60	1/80				
		40	1/100	1/120	1/160	1/200					
	2000W	32	1/5	1/10	1/15	1/20	1/25				L (Low backlash)
40		1/30	1/40	1/50	1/60	1/80					
50		1/100	1/120	1/160	1/200						
Z-Type Reducer AG3KZ Parallel Shaft (Small flange mount type) (Frame No. 18 to 32)	100W	18	1/5	1/10	1/15	1/20	1/25	1/30	1/40	1/50	L (Low backlash)
		22	1/60	1/80	1/100	1/120	1/160	1/200			
	200W	18	1/5	1/10	1/15	1/20	1/25				L (Low backlash)
		22	1/30	1/40	1/50	1/60	1/80				
		28	1/100	1/120	1/160	1/200					
	400W	22	1/5	1/10	1/15	1/20	1/25				L (Low backlash)
		28	1/30	1/40	1/50	1/60	1/80				
		32	1/100	1/120	1/160	1/200					
	750W	28	1/5	1/10	1/15	1/20	1/25				L (Low backlash)
		32	1/30	1/40	1/50	1/60	1/80				
	2000W	32	1/5	1/10	1/15	1/20	1/25				L (Low backlash)
	Z-Type Reducer AG3FZ Parallel Shaft (Flange mount type) (Frame No. 40 to 50)	750W	40	1/100	1/120	1/160	1/200				L (Low backlash)
2000W		40	1/30	1/40	1/50	1/60	1/80			L (Low backlash)	
		50	1/100	1/120	1/160	1/200					