

ZDR、ZDGF/S系列减速机 ZDR、ZDGF/S SERIES GEAR BOX

系列号、机型标识说明 Type And Model Number

ZDR、ZDGF/S减速机 ZDR、ZDGF/S Reducers	伺服电机 Servo Motor
--------------------------------------	---------------------

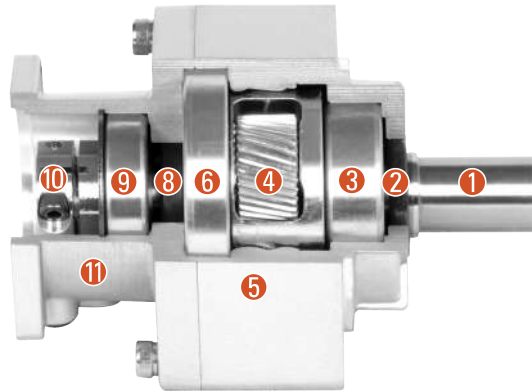
78 ZDR 20 () (S) - 750 T1 □
① ② ③ ④ ⑤ - ⑥ ⑦ ⑧

① 减速机机座号:ZDR:52,78,98,125 ZDGF(S):60,90,120,170	Gear head frame size:ZDR:52,78,98,125 ZDGF(S):60,90,120,170																																																		
② 减速机系列代号:ZDR:斜齿精密型 ZDGF:斜齿法兰盘输出型 ZDGS:斜齿轴输出型	Gear head series code: ZDR:Oblique tooth precision ZDGF:Helical flange plate output ZDGS:Helical shaft output																																																		
③ 减速比:ZDR:单级3,4,5,6,7,8,9,10; 双级15,20,25,35,45,81 ZDGF(S):单级※3.67,4,5,7,9,10; 双级11,15(15.4),20,21,25,33,35,40,45, 50,70,81,100(0,120,170的减速比为15.4)	Gear Ratio: ZDR: Single Stage 3,4,5,6,7,8,9,10; Two Stages 15,20,25,35,45,81 ZDGF(S): Single Stage ※3.67,4,5,7,9,10; Two Stages 1,15(15.4),20,21,25,33,35,40,45,50,70,81,100 (90,120,170 reduction ratio is15.4)																																																		
④ 精度 Amount of backlash 输出轴负荷量为容许输出扭矩的±5%时的值 precision (the load of output shaft is±5% of allowable output torque)	<table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th style="width: 15%;">机座号 Reducer Type No.</th> <th style="width: 10%;">级数 Stage</th> <th style="width: 20%;">标准型P2(省略) Standard Type</th> <th style="width: 20%;">精密型P1 Low-backlash Type</th> <th style="width: 25%;">高精型P0 High Precision Type</th> </tr> </thead> <tbody> <tr> <td rowspan="2">52ZDR</td> <td>1</td> <td>12分arc-min</td> <td>10分arc-min</td> <td>3分arc-min</td> </tr> <tr> <td>2</td> <td>15分arc-min</td> <td>12分arc-min</td> <td>5分arc-min</td> </tr> <tr> <td rowspan="2">78ZDR</td> <td>1</td> <td>8分arc-min</td> <td>5分arc-min</td> <td>3分arc-min</td> </tr> <tr> <td>2</td> <td>12分arc-min</td> <td>8分arc-min</td> <td>5分arc-min</td> </tr> <tr> <td rowspan="2">98ZDR</td> <td>1</td> <td>8分arc-min</td> <td>5分arc-min</td> <td>3分arc-min</td> </tr> <tr> <td>2</td> <td>12分arc-min</td> <td>8分arc-min</td> <td>5分arc-min</td> </tr> <tr> <td rowspan="2">125ZDR</td> <td>1</td> <td>8分arc-min</td> <td>5分arc-min</td> <td>3分arc-min</td> </tr> <tr> <td>2</td> <td>12分arc-min</td> <td>8分arc-min</td> <td>5分arc-min</td> </tr> <tr> <td rowspan="2">60-170ZDGF(S)</td> <td>1</td> <td>5分arc-min</td> <td>3分arc-min</td> <td>-</td> </tr> <tr> <td>2</td> <td>8分arc-min</td> <td>5分arc-min</td> <td>-</td> </tr> </tbody> </table>	机座号 Reducer Type No.	级数 Stage	标准型P2(省略) Standard Type	精密型P1 Low-backlash Type	高精型P0 High Precision Type	52ZDR	1	12分arc-min	10分arc-min	3分arc-min	2	15分arc-min	12分arc-min	5分arc-min	78ZDR	1	8分arc-min	5分arc-min	3分arc-min	2	12分arc-min	8分arc-min	5分arc-min	98ZDR	1	8分arc-min	5分arc-min	3分arc-min	2	12分arc-min	8分arc-min	5分arc-min	125ZDR	1	8分arc-min	5分arc-min	3分arc-min	2	12分arc-min	8分arc-min	5分arc-min	60-170ZDGF(S)	1	5分arc-min	3分arc-min	-	2	8分arc-min	5分arc-min	-
机座号 Reducer Type No.	级数 Stage	标准型P2(省略) Standard Type	精密型P1 Low-backlash Type	高精型P0 High Precision Type																																															
52ZDR	1	12分arc-min	10分arc-min	3分arc-min																																															
	2	15分arc-min	12分arc-min	5分arc-min																																															
78ZDR	1	8分arc-min	5分arc-min	3分arc-min																																															
	2	12分arc-min	8分arc-min	5分arc-min																																															
98ZDR	1	8分arc-min	5分arc-min	3分arc-min																																															
	2	12分arc-min	8分arc-min	5分arc-min																																															
125ZDR	1	8分arc-min	5分arc-min	3分arc-min																																															
	2	12分arc-min	8分arc-min	5分arc-min																																															
60-170ZDGF(S)	1	5分arc-min	3分arc-min	-																																															
	2	8分arc-min	5分arc-min	-																																															
⑤ 输出轴型式 S:整体锁紧(省略)(无论马达是否有键槽都可使用,但“D”字型不适用) S1:带锁紧环锁紧(无论马达是否有键槽都可使用,但“D”字型不适用) S2:带键槽锁紧(输入轴带键) K:带键槽 A:其他适配器(请与本公司联系)	Input shaft type S:Over locking(Omission)(regardless whether the motor with keyway can use it.But D Cut can't use) S1:Locking with locking ring(regardless whether the motor with keyway can use it.But D Cut can't use) S2:Locking with keyway (input shaft with key) K:With keyway A:Other type (please contact with us)																																																		
⑥ 适用伺服马达功率(W)	Applicable servo motor power (W)																																																		
⑦ 伺服马达厂家名称(43)	Manufacturer name of servo motor (P43)																																																		
⑧ 伺服马达型号	Mode of servo motor																																																		

※ 1:3.67 是3/11 = 1/3.666.....

ZDR 减速比、机座号 ZDR REDUCTION RATIO & TYPE NUMBER

剖视图 Sectional Drawing



- ① 输出轴 Output shaft
- ② 油封 Seal for the output shaft
- ③ 输出轴前轴承 Bearing for the output shaft
- ④ 行星轮 Planetary gear
- ⑤ 前盖 Front cover
- ⑥ 输出轴后轴承 Bearing for the output shaft
- ⑦ 油封 Seal for the output shaft
- ⑧ 输入轴轴承 Bearing for the input shaft
- ⑨ 精密装夹系统 Precision clamping system
- ⑩ 后盖 Rear cover

输入转速为3000rpm时 When Input Speed Is 3000rpm

马达功率 Motor Power (W)	单级减速 1 Stage Reduction			两级减速 2 Stage Reduction					
	1/3	1/5	1/9	1/15	1/20	1/25	1/35	1/45	1/81
50W									
100W		52			52				98
200W					78			98	125
400W							98		
750W		78			98			125	
1000W									
1500W	98			125					
2000W									
2500W									
3000W		125							
3500W									
4000W									
4500W									
5000W									

注1) 全部为斜齿轮适用范围 Note1) All corresponding to helical gear

输入转速为2000rpm时 When Input Speed Is 2000rpm

马达功率 Motor Power (W)	单级减速 1 Stage Reduction			两级减速 2 Stage Reduction					
	1/3	1/5	1/9	1/15	1/20	1/25	1/35	1/45	1/81
50W									
100W		52			52				
200W					78			98	
400W		78			98				
750W									
1000W	98			125					
1500W									
2000W									
2500W		125							
3000W									
3500W									

注1) 全部为斜齿轮适用范围

Note1) All corresponding to helical gear

※以下为限扭矩机种:

52: 1/5减速(100W)

78: 1/81减速(50W)

98: 1/3减速(1500W)、1/45减速(200W)

1/81减速(100W)

125: 1/3减速(3500W)、1/25减速(750W)

※Torque is limited to the following types:

52: 1/5 reduction(100W)

78: 1/81 reduction(50W)

98: 1/3 reduction(1500W)、1/45 reduction(200W)

1/81 reduction(100W)

125: 1/3 reduction(3500W)、1/25 reduction(250W)

关于润滑油 About Lubricant

• 润滑: 润滑脂

• 更换: 不可

• Lubrication: Grease

• Replacement: Not available