



Name	Case number	spline X	spline Y
modulus	M	1	1
Number of teeth	Z	27	21
pressure angle	α	45°	45°
indexing circle diameter	D	$\phi 27$	$\phi 21$
Large diameter	Dee	$\phi 27.8^{+0.05}_{-0.25}$	$\phi 22^{+0.05}_{-0.25}$
Narrow path	Die	$\phi 25.8^{+0.05}_{-0.25}$	$\phi 20$
Tooth tolerance		0.025	0.025
Tooth tolerance		0.06	0.06
Adjacent Sundy Tolerances		0.013	0.013
Weekly Cumulative Tolerance	Fp	0.04	0.04
Diameter of measuring rod	DRe	$\phi 2$	$\phi 2$
Span	MRe	$30.22^{+0.05}_{-0.05}$	$24.32^{+0.05}_{-0.05}$

1. Maximum swing angle of fixed-end ball-cage universal joint is 46 degrees and maximum swing moment of fixed-end is 8Nm. Swing is flexible and without sticking.
2. The maximum swing angle of the moving end ball cage universal joint is shown in the diagram between working angle and slip. The maximum swing moment of the moving end is 5Nm, which is flexible.
3. The minimum static torsional strength is 2000 Nm.
4. Axial clearance: Under the action of $\sim 100\text{N}$ axial force of the drive shaft, the axial clearance of the fixed end is $\sim 0.65\text{mm}$.
5. Circumferential clearance: The circumferential angle clearance of the drive shaft is <15 degrees.
6. Circumferential clearance: Under the action of $<10\text{Nm}$ torque in the direction of rotation.
7. Pull-off force requirement: Under the 2000 N axial pull force of the drive shaft, the intermediate shaft is not allowed to disengage from the universal joint.
8. When assembling, pour proper amount of D3 grease into fixed-end ball cage universal joint and dust cover, and proper amount into mobile-end ball cage universal joint and dust cover.
9. Grease D3 grease.
10. When assembling the dust shield of the axially movable ball cage universal joint, lock it with 2 screws to ensure the same air pressure inside and outside.
11. The assembly is clean in appearance, and the surfaces of bearing and oil seal are rust-proof.
12. The assembly is packed in foggy bags with matched lengths.
13. Mark the middle of the exposed part of the intermediate shaft (No. 12 in bold) with the user map number + date of manufacture.
14. The maximum transmission torque is not less than 20000 Nm.

12	MH20-01	Nut	1	45	
11	GB/T91.3.24-0	Cotter pin	1	Q235	standard parts
10	DC19314	Elastic retainer ring	1	65Mn	standard parts
9	D150087-00	Mobile universal joint	1		
8	CT903.0-3	External Circlips	1		
7	CH513 0-4	Mouth retaining spring	1	65Mn	
6	04.18SD.LZ1-01	Intermediate shaft	1	40Cr	
5	0260-1008R	Clamp	2	304	standard parts
4	C2268-001	A dust cover	2	TPE	
3	0720-1008R	Clamp	2	304	standard parts
2	DC23016	Elastic retainer ring	1	65Mn	standard parts
1	B14.2115-00	Fixed universal joint	1		
Serial No.	Part No.	Part Name	Qty	Material	Remark

Stage markers	Proportion	weight
	1:1	

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0418SDLZ2-00