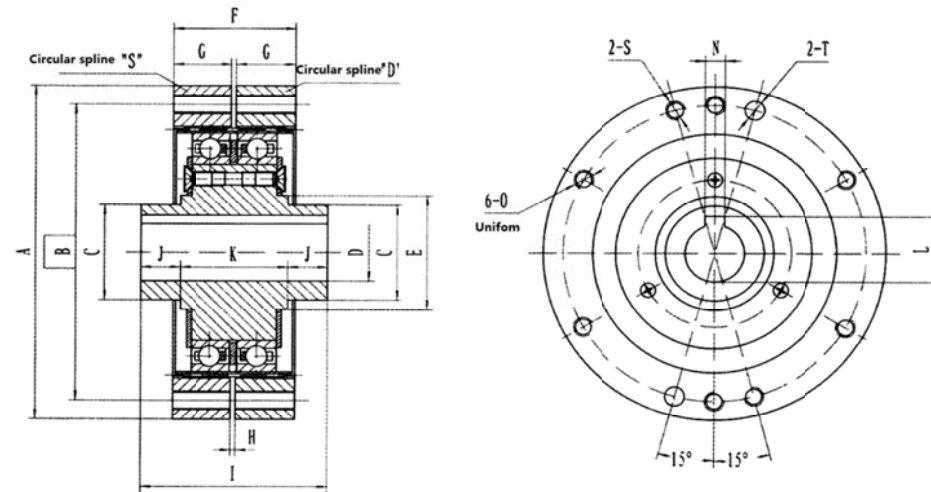
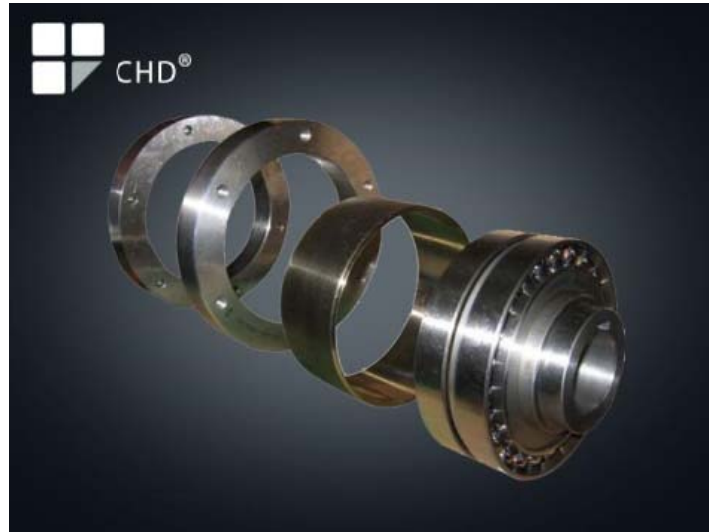


# Model Parameters and drawing:

## AHD-C Phase Adjuster Harmonic Drive Reducer Component Sets



**Z<sub>ci</sub>**: no. of teeth of input circular spine,  $Z_{ci}=Z_t+2$ ; **Z<sub>f</sub>**: no. of teeth of flexspline; **Z<sub>co</sub>**: no. of teeth of output circular spline,  $Z_{co}=Z_f$ ; **N<sub>w</sub>**: rpm of wave generator;

**N<sub>ci</sub>**: rpm of input circular spline; **N<sub>co</sub>**: rpm of output circular spline; **N<sub>f</sub>**: rpm of flexspline,  $N_f=N_{co}$

Notes: 1.  $R=Z_f/2$  (reduction ratio, absolute value as in the table) 2. Values of  $N_w, N_{ci}$ , etc. themselves are with their respective signs (+ or -) to indicate sense of rotation Output

Torque: 30 N.m-2600 N.m; Highest input speed: 3000 rpm; Max backlash: 9'; 6'; 3'; Transmission error: 9'; 6'; 3'

Dimensions (mm)

Size	Ratio	A (g6)	B	C Gs6)	D (H7)	E	F	G	H	I	J	K	N (JS9)	L	O	S	T (H7)
50	120; 126; 80; 84; 100	Φ70	Φ62	Φ20	Φ12	Φ24	25	12	1	38	8	22	4	13.8(+0.1,0)	M4	M4	Φ4
60	100; 120; 150	Φ85	Φ75	Φ30	Φ20	Φ33	29	14	1	40	7.5	25	6	22.8(+0.1,0)	M5	M5	Φ5
60	80; 160	Φ87	Φ77	Φ30	Φ20	Φ36	29	14	1	40	7	26	6	22.8(+0.1,0)	M5	M5	Φ5
80	80; 100; 135; 160; 200	Φ115	Φ100	Φ40	Φ30	Φ46	37	18	1	50	10	30	8	33.3(+0.2,0)	M6	M6	Φ5
100	80; 84; 100; 125; 168; 160	Φ135	Φ120	Φ50	Φ35	Φ56	43	21	1	68	12	44	10	38.3(+0.2,0)	M8	M8	Φ8
120	80; 100; 120; 150; 160; 200	Φ170	Φ150	Φ60	Φ40	Φ68	53	26	1	78	12	54	12	43.3(+0.2,0)	M10	M10	Φ10
160	80; 100; 135; 160; 200	Φ220	Φ195	Φ70	Φ50	Φ80	71	35	1	87	14	59	14	53.8(+0.2,0)	M12	M12	Φ12
200	80; 100; 125; 168; 200	Φ270	Φ240	Φ90	Φ65	Φ100	83	41	1	106	16	74	18	69.4(+0.2,0)	M16	M16	Φ16
250	100; 120; 150; 160; 200; 250; 315	Φ330	Φ295	Φ110	Φ80	Φ122	101	50	1	130	19	92	22	85.4(+0.2,0)	M20	M20	Φ20