



Cycloid reducers 2S-40 - 2S-120

AKIM gear technology – Swiss Made.

Cycloid reducers 2S-40 - 2S-120.

Cycloid reducers are the first choice where high power, high torque and great ratio is needed. With shaft end. Drive speed up to 1500 min⁻¹. The ratios of 18 : 1 to 125 : 1 achievable in single stage, are all integer and mathematic precise.

General informations.

- Low backlash
- Fixed backlash: depending on application
- Backlash is < 0.02° and can be adjusted from outside
- Achieve efficiency of well over 90%
- Gear ratios greater than 125 : 1 require a two stage reducer and are available on request
- Nominal torque up to 20'000 Nm
- Easy motor mounting: separate flange with coupling
- Conventional motor can be mounted
- Excellent weight / performance ratio
- Very robust design
- Reliable
- Smooth operation
- Lifetime lubricated
- No oil fittings
- Maintenance free

Standard program.

Type	2S-40	2S-50	2S-60	2S-70	2S-80	2S-90	2S-100	2S-110	2S-120
Reduction ratio	20	18	22	22	27	25	24	28	33
	23	22	25	28	30	29	27	31	36
	28	28	28	29	34	34	30	35	41
	35	33	33	34	39	38	35	40	47
	40	36	40	40	45	44	40	46	55
	47	41	45	47	55	50	45	53	62
	55	47	50	53	60	60	53	60	71
	71	55	55	60	69	68	60	71	84
	90	68	68	69	79	75	72	85	100
		85	80	80	90	86	83	95	110
			100	97	110	100	93	105	125
							105	120	

Admissible continuous torque T₂ [Nm] at drive speed n₁.

Drive speed n ₁ [min ⁻¹]	Type								
	2S-40	2S-50	2S-60	2S-70	2S-80	2S-90	2S-100	2S-110	2S-120
1500	475	675	1255	1995	3175	3945	6070		
1000	535	765	1420	2260	3590	4460	6860	11400	16300
750	585	830	1545	2460	3900	4860	7475	12425	17770
500	660	940	1745	2780	4415	5485	8445	14030	20060

Detailed technical documentation is available on our website www.akim.ch.