



Cycloid reducers 2S-50 - 2S-120

Plug in version

AKIM gear technology – Swiss Made.

Cycloid reducers 2S-50 - 2S-120 - Plug in version.

Cycloid reducers are the first choice where high power, high torque and great ratio is needed. Plug in version: the hollow shaft allows a short mounting length. 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 rates 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
- High overload safety
- Excellent weight / performance ratio
- Very robust design
- Reliable
- Lifetime lubrication
- No oil fittings
- Maintenance free

Technical data.

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

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

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

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