

4.1 Two-speed gearboxes

PS

PS two-speed gearboxes with loss-optimized direct drive

Features

Power density	★★★ ☆
Backlash	*****
Price category	€€€
Shaft load	****
Smooth operation	****
Torsional stiffness	****
Mass moment of inertia	★★★★ ☆
Fast changeover between high speed and high	✓
torque	
High-precision, helical planetary gear unit	✓
Direct drive or neutral gear position optimized	✓
to reduce loss (optional)	
Splash lubrication or circulating lubrication (op-	✓
tional)	
Oil sight glass or oil level gauge (optional)	✓
Easy and reliable attachment to any main feed	✓
motor	
Key: ★☆☆☆ good ★★★★ excellent	

Technical data

Туре	i	n _{1max} [rpm]	P _{N,GB} [kW]	M _{2max} [Nm]	M _{2N} [Nm]	Δφ ₂ [arcmin]
PS2501	1 – 5.5	2500 – 10000	47	2200	1375	20 – 30
PS2501	1 – 4	2500 – 10000	47	1600	1200	20 – 30
PS3001	1 – 5.5	2500 – 10000	47	2200	1375	20 – 30
PS3001	1 – 4	2500 – 10000	47	1600	1200	20 – 30

Housing design							
Short bearing distance					✓		
Medium bearing distance					✓		
Long bearing distance					✓		
Shaft design							
Flange shaft					✓		
Solid shaft without feather key					✓		
Solid shaft with two feather keys					✓		
Bearing design							
Deep-groove ball bearing					✓		
Angular contact ball bearing					✓		
Cylindrical roller bearing					✓		
Lubrication							
Splash lubrication					✓		
Circulating lubrication					✓		
Housing design	S	M	S	M	M	L	
Shaft design	G		Р		F		
Bearing design							
R	SGR	_	SPR	_	_	-	
S	SGS	MGS	SPS	MPS	MFS	-	
Z	_	MGZ	_	MPZ	MFZ	LFZ	

Further information

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http://www.stoeber.de/en/PS