

Two-Speed Spur Gearboxes for Belt Conveyors with Medium Output PCE 55 S

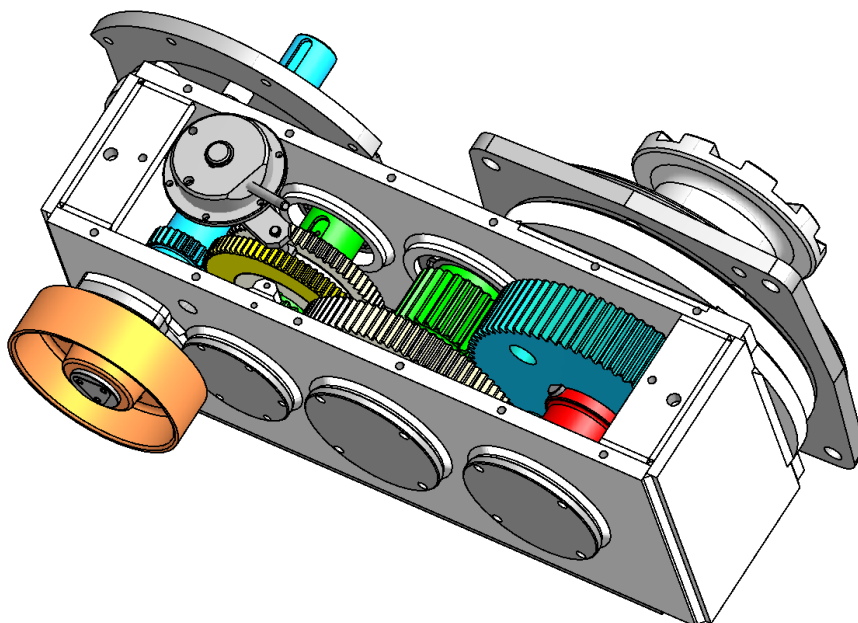
The gearboxes are dedicated for belt conveyors with medium output and transferred power up to 55 kW at nominal speed 1470 r.p.m.

The gearbox has also an outlet for the brake wheel or for the equipment to prevent the reverse run.

The gearboxes are manufactured in the explosion-proof version.

Table of Transferred Power by Input Speed 1470 r.p.m.

	Transferred Power in kW max. (valid for the both gear ratios)			
Gear Ratio i1	13,66 : 1	17,19 : 1	21,75 : 1	27,35 : 1
Gear Ratio i2	17,7 : 1	22,8 : 1	28,19 : 1	35,45 : 1
PCE 55 S (welded)	55	55	55	55



Theoretical Gear Ratio	Output Revolutions	Speed of Belt $v=m/s$ by the drum diameter		Real Gear Ratio
	r.p.m.	500	630	
13,7 : 1	107,61	2,82	3,55	13,66
17 : 1	85,51	2,24	2,82	17,19
17,7 : 1	83,05	2,17	2,74	17,70
21,7 : 1	67,59	1,77	2,23	21,75
22,2 : 1	65,98	1,73	2,18	22,28
27,3 : 1	53,75	1,41	1,77	27,35
28,0 : 1	52,15	1,36	1,72	28,19
35,4 : 1	41,47	1,09	1,37	35,45

