Auger drivetrain calculation:

P_{motor}	n_{motor}	M_{motor}		$z1_{motor}$	$z2_{auger}$		*i*	M_{auger}	n_{auger}		Comment
1,1	460,0	22,8		15,0	57,0	D=296	*3,8*	86,8	121,1		*10B-1 15-57 (both taper)*
2,2	920,0	22,8		15,0	57,0	D=296	*3,8*	86,8	242,1		
1,1	460,0	22,8		12,0	57,0	D=296	*4,8*	108,5	96,8		*10B-1 12-57 (z12 without taper)*
2,2	920,0	22,8		12,0	57,0	D=296	*4,8*	108,5	193,7		
1,1	460,0	22,8		12,0	76,0	D=392	*6,3*	144,6	72,6		*10B-1, z12, z76 (z12 without taper)* → **2025.11.22 installed:** motor stalls when trailer fully loaded works fine in normal use
2,2	920,0	22,8		12,0	76,0	D=392	*6,3*	144,6	145,3		

Scraper drivetrain calculation:

P_{motor}	n_{motor}	M_{motor}		$z1_{motor}$	$z2_{PTO\text{-}trailer}$		*i*	M_{PTO}	n_{PTO}		Comment
4,0	1450,0	26,0		100,0	250,0		*2,5*	65,0	580,0		*Tests with water pump project + PTO* Tested: 50Hz way too fast
4,0	725,0	26,0		100,0	250,0		*2,5*	65,0	290,0		Tested: 25Hz: good, maybe a little fast
4,0	435,0	26,0		100,0	250,0		*2,5*	65,0	174,0		Tested: 15Hz: quite perfect, sufficient for continuous auto-use
50,0	297,0	1607,7		1,0	1,0		*1,0*	1607,7	297,0		*IHC Tractor idle PTO-1000:* perfect for almost empty trailer
1,1	460,0	22,8		12,0	**35,0**		*2,9*	66,6	157,7		→ **2025.12.07 installed:** speed 1 perfect for use in auto mode with trailer 70% full
2,2	920,0	22,8		12,0	**35,0**		*2,9*	66,6	315,4		
1,1	460,0	22,8		12,0	37,0		*3,1*	70,4	149,2		
2,2	920,0	22,8		12,0	37,0		*3,1*	70,4	298,4		