



i Check lines:3.11;4.12;5.9;10.0;

Pinion

Gear

ii ☐ **Project information**

?

Input section

1.0 ☒ Options of basic input parameters

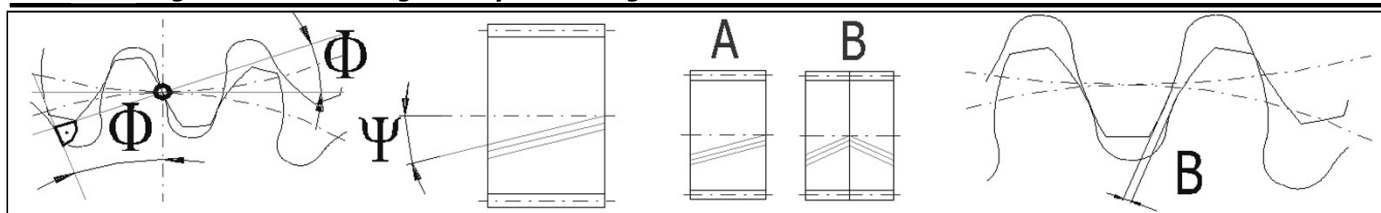
0.1	Transportation	100%	0.00	0.00
0.2	Transportation (Net)	100%	0.00	0.00
0.3	Transportation (Net)	100%	0.00	0.00
0.4	Transportation (Net)	100%	0.00	0.00
0.5	Transportation (Net)	100%	0.00	0.00
0.6	Transportation (Net)	100%	0.00	0.00
0.7	Transportation (Net)	100%	0.00	0.00
0.8	Transportation (Net)	100%	0.00	0.00
0.9	Transportation (Net)	100%	0.00	0.00
1.0	Transportation (Net)	100%	0.00	0.00

2.0 ☒ Options of material, loading conditions, operational and production parameters

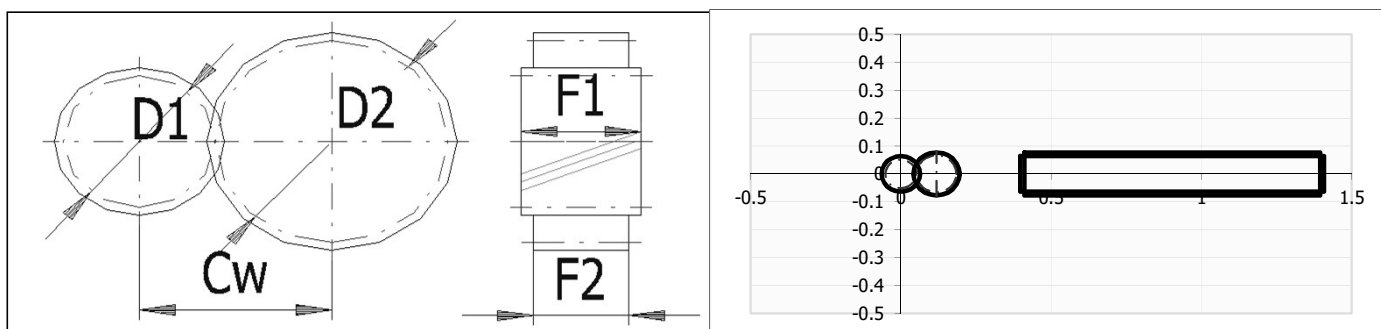
2.3	Material of the shaft (according to standard)	ANSI
2.3	Material of the pinion	D...Alloy structural steel AISI 4130 (S=135 Mpsi) heat treated
2.3	Material of the gear	D...Alloy structural steel AISI 4130 (S=135 Mpsi) heat treated
2.4	Loading of the pinion, along rotation - examples	A...Continuous
2.4	Loading of pinion, along rotation - examples	A...Continuous
2.4	Type of gearing mounting	B...Commercial enclosed gearboxes
2.4	Type of gearing mounting	A...Symmetric gearing support
2.7	Degree of accuracy (ANSI 2.1-1) (Ra min. = 16)	7 (10) (Ra min. = 32 / max. = 63)
2.8	Factor of safety (from stress values in)	100
2.9	Desired accuracy	
2.10	Coefficient of safety (corrected)	

3.0 ☐ Parameters of the cutting tool and tooth profile

4.0 ☒ Design of a module and geometry of toothing



6.1	Number of work pieces / day	N		10	15		
6.2	Normal process angle	Φ		24.62		[°]	
6.3	Rear back angle	Ψ		0.00		[°]	
6.4	Building of the area of the width of the piece to its diameter			<		>	
6.5	The value of the piece width to be dimensioned	Ψ_d / \max		1.1	+ 1.1		
6.6	Diameter Piece	F		62.1			
6.7	Circular Piece / Thread	(D _{nom})		0.00	0.00		3%
6.8	Reference diameter / Piece / Day	(D _{ref})		0.00	0.00		3%
6.9	Recommended width of galling			0.00-10.00			3%
6.10	Piece width (Dinner / Unit)	(L _{DT})		1.000	0.000		5%
6.11	Working from sides	(L _{sa})		0.000		<input checked="" type="checkbox"/>	1%
6.12	The value of the piece width to be dimensioned	Ψ_d / \max		9.87	+ 1.1		
6.13	Working section distance	(L _{sa})		0.000			3%
6.14	Approximate weight of the parting	M		0.00		[lb]	
6.15	Minimum coefficient of safety	(K _c / K _f)		0.13	0.25		



[illegible]

2017-2018	1.000
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0.17	Leafy Vegetables	leaf	0.008	0.2500	[modul (1/P)]
0.18	Leafy Vegetables	leaf	0.008	0.0026	[in]
0.19	Top Bananas and 1st banana bunches	leafy vegetable	0.008/0.01	0.149/0.151	[in]
0.20	Tomatoes and Bananas	leafy veg	7.100	17.000	[in]

- | | | |
|------|--------------------------|---|
| 7.0 | <input type="checkbox"/> | Supplemental parameters of gearing |
| 8.0 | <input type="checkbox"/> | Qualitative indices of gearing |
| 9.0 | <input type="checkbox"/> | Coefficients for safety calculation |
| 10.0 | <input type="checkbox"/> | Stress and safety coefficients |
| 11.0 | <input type="checkbox"/> | Check dimensions of gearing, ANSI/AGMA 2015-1-A01, 2015-2-A06, Accuracy Classification System |
| 12.0 | <input type="checkbox"/> | Force conditions (forces acting on the toothings) |
| 13.0 | <input type="checkbox"/> | Parameters of the chosen material |
| ? | | Additions section |
| 14.0 | <input type="checkbox"/> | Calculation of gearing for the given axis distance |
| 15.0 | <input type="checkbox"/> | Power, warming-up, gearbox surface |
| 16.0 | <input type="checkbox"/> | Preliminary design of shaft diameters (steel) |
| 17.0 | <input type="checkbox"/> | Approximate module calculation from the existing gear |
| 18.0 | <input type="checkbox"/> | Auxiliary calculations |