

Explanation of GEAR PRO-plot

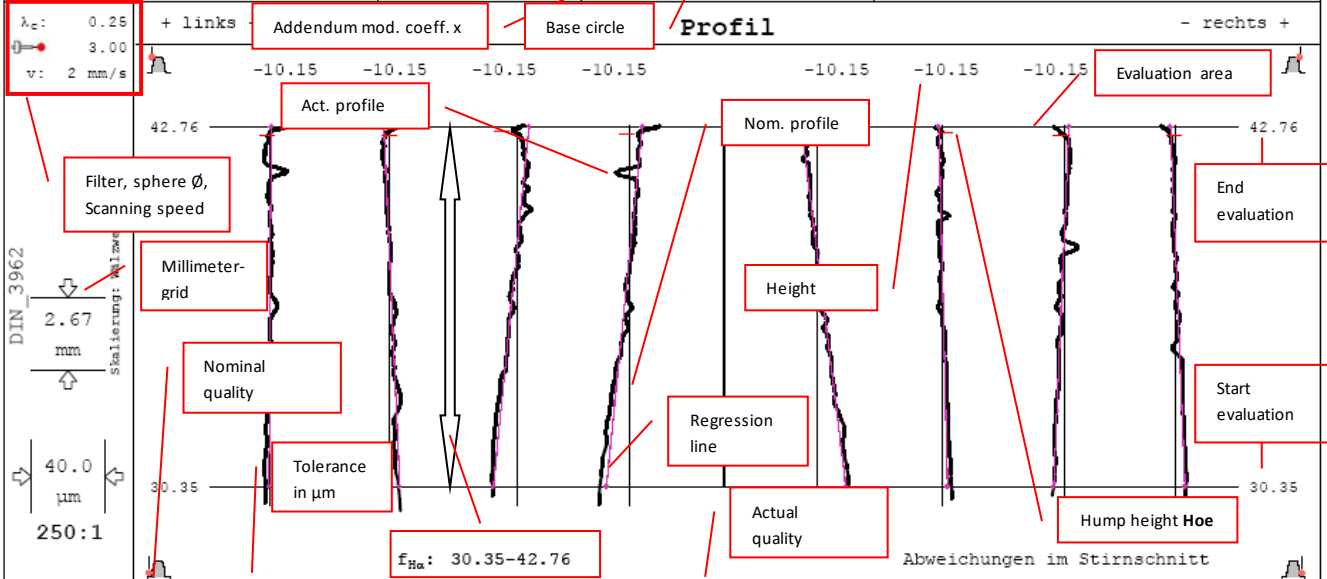
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Datum: 10.11.2010 13:28:24

Datei: 1289392104

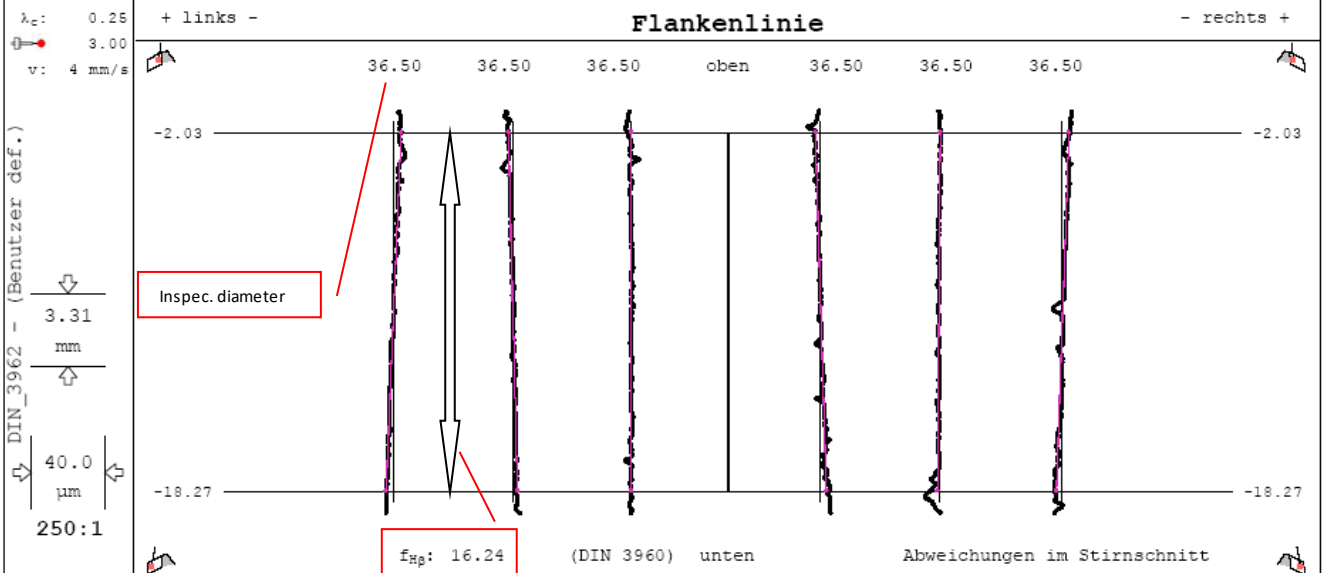
Zeiss - GEAR PRO 3.6.4.6 vom 25.10.2010

No of teeth	8	Filename	Oelpumpe1	Pressure angle	20.000°	helix angle	0.000°	Root circle df	42.80 mm
Module	2	Teilnehmer	Training	Erstellungsdatum	10.	Messmaschine	Pri	Tip circle da	-2.03 bis -18,27
Face width	20.30 mm	m_n	4.00 mm	β	0.41	d_f/d_a	24.65/		
		außen/Zahn	d_b		30.07 mm	b_u/b_o	-18.27/		



	Q_n	[...]	7	5	3	1	Q_a	Q_a	1	3	5	7	Q_n	[...]
F_α µm	10	56.0	12.7	10.5	21.9	31.3	9	9	25.2	8.7	12.7	13.4	10	56.0
$f_{f\alpha}$ µm	10	45.0	12.7	9.5	14.7	19.8	8	8	5.5	7.1	15.2	6.4	10	45.0
$f_{H\alpha}$ µm	10	±32.0	-1.2	8.8	-19.4	-19.8	9	10	-24.3	-4.9	8.1	-8.0	10	±32.0
Hoe µm		50.0	1.8	-0.1	8.1	1.9			---	1.5	-1.6	-0.6		50.0

Total profile error F_α	F_α 19.1	Angular profile error $f_{H\alpha}$	$f_{H\alpha}$ -7.9	Profile form error $f_{f\alpha}$	$f_{f\alpha}$ 14.2	F_α 15.0	$f_{H\alpha}$ -7.3	$f_{f\alpha}$ 8.6
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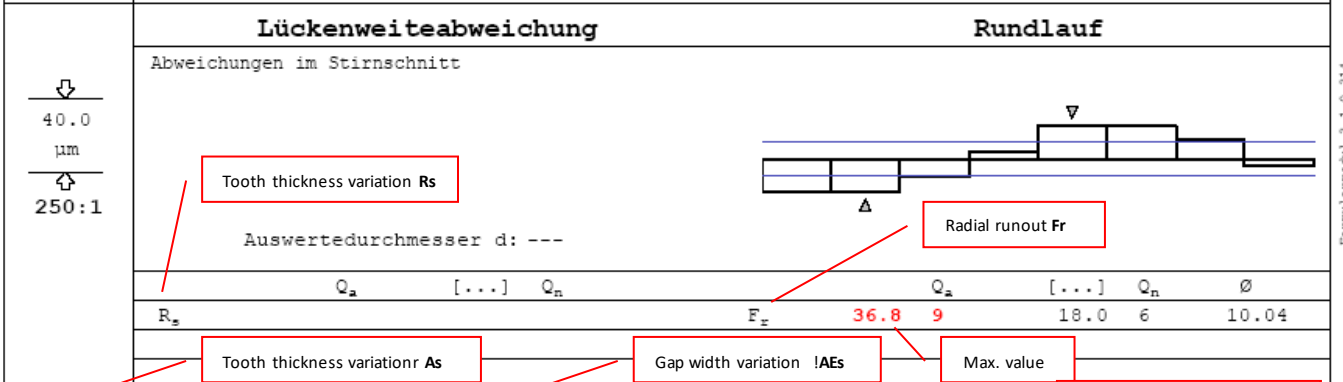
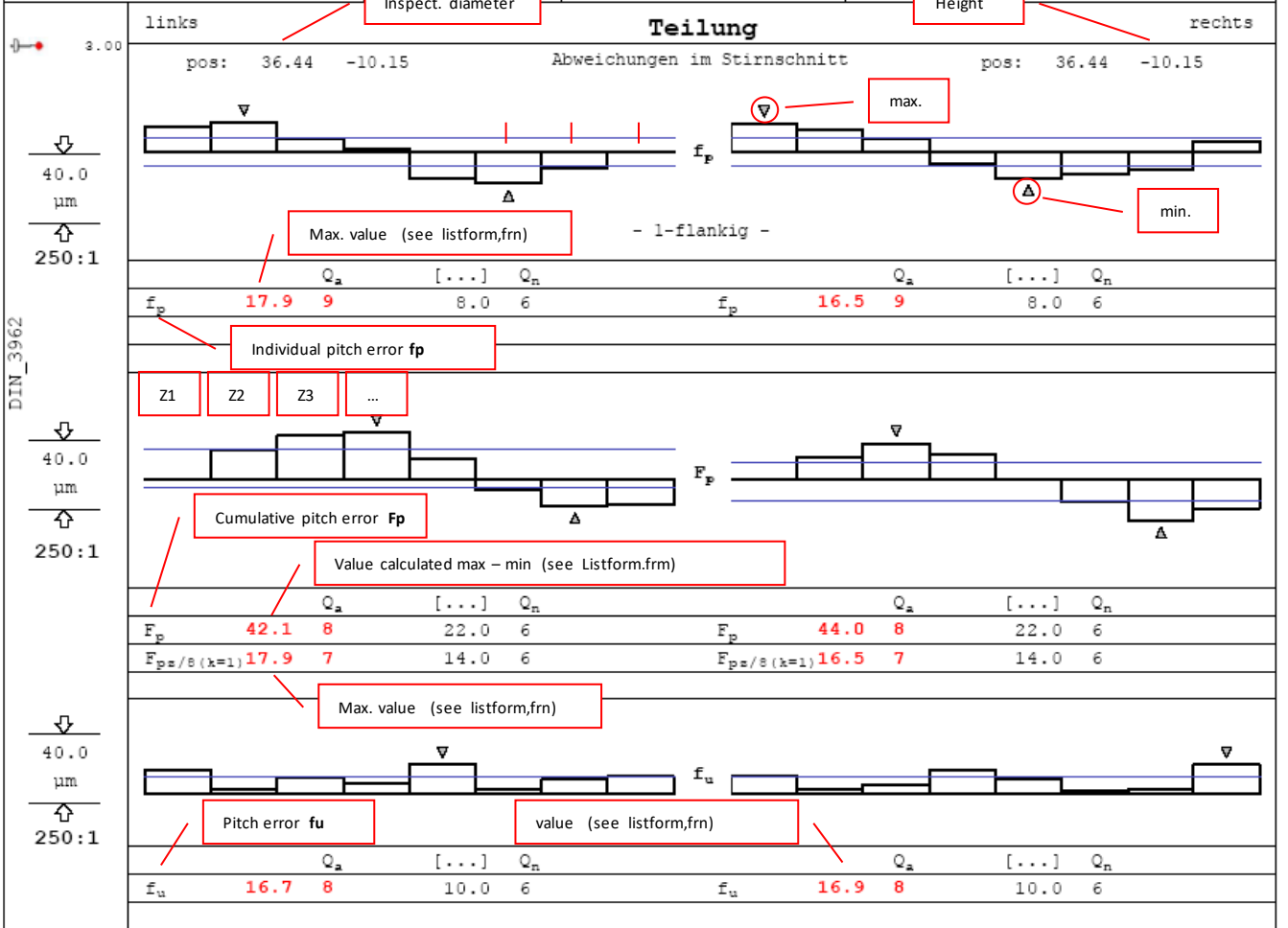


	Q_n	[...]	6	4	1	Q_a	Q_a	1	4	6	Q_n	[...]
F_β µm	10	50.0	10.7	8.2	7.9	7	7	8.9	6.0	10.1	10	50.0
$f_{f\beta}$ µm	10	28.0	4.2	5.1	7.9	7	7	6.2	5.0	7.4	10	28.0
$f_{H\beta}$ µm	10	±40.0	-8.4	4.6	-0.1	6	6	6.2	-1.6	-6.8	10	±40.0

Total lead error F_β	F_β 8.9	Angular lead error $f_{H\beta}$	$f_{H\beta}$ -1.3	Lead form error $f_{f\beta}$	$f_{f\beta}$ 5.7	F_β 8.4	$f_{H\beta}$ -0.7	$f_{f\beta}$ 6.2
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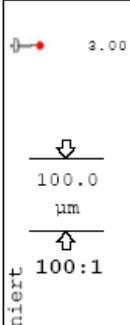
Oelpumpe1		Helix angle		Nicht OK	
Bediener Training		Auftraggeber			
Teilnummer 1		Zeichnungsnummer 4711			
z 8		α_n 20.000°		Erstellungsdatum 10.11.2010 11:52:28	
m _n 4.00 mm		β 0.000°		Messmaschine Prismo	
b 20.30 mm		x 0.41		d _f /d _a 24.65/ 42.80 mm	
d _{fb} 30.07 mm		b _u /		8.27/ -2.03 mm	



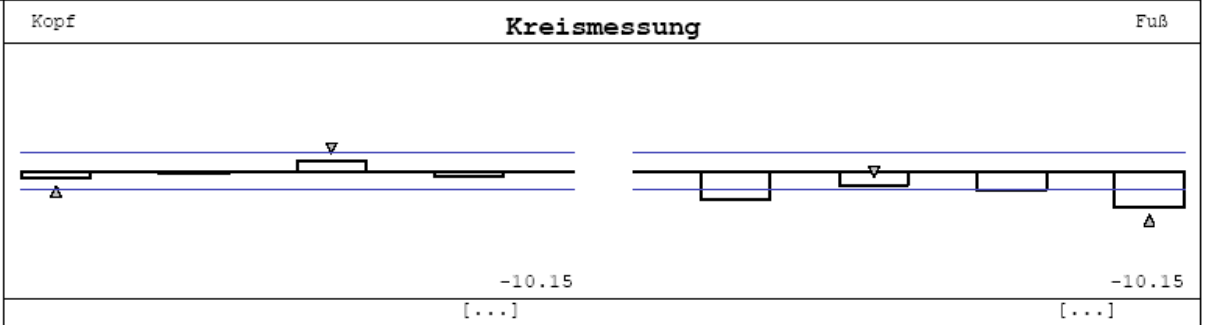
A _s [...]		!AE _s [...]		M _{2K} Ø		Dimension over 1-ball Mrk	
max		max		max		Dimension over 2-balls MdK	
min		min		min			
S _s Tooth thickness Ss		E _s Gap width Es		M _{dK} Ø 9.00 [...]			
max		max		max		48.91 48.93	
min		min		min		48.91 48.93	
W _k 2 Spanwidth (Wk) over 2		Kreismessung		Tio dia. Da (min/max)		Dimension over 2-pins MdR	
				root dia Df (min/max)			
w _k 19.28 19.29		D _{a,max} 42.83 42.85					
max 19.29 19.29		D _{a,min} 42.78 42.75					
min 19.28 19.26		D _{f,max} 24.61 24.70					
R _w 0.01		D _{f,min} 24.55 24.60					



Oelpumpe1		Nicht OK
Bediener	Training	Auftraggeber
Teilnummer	1	Zeichnungsnummer 4711
z	8	α_n 20.000°
m_n	4.00 mm	β 0.000°
b	20.30 mm	x 0.41
außen/Zahn	d_b 30.07 mm	d_f/d_a 24.65/ 42.80 mm
		b_u/b_o -18.27/ -2.03 mm



Benutzer-definiert



$D_a \text{ max}$	42.83	$D_f \text{ max}$	24.61
$D_a \text{ min}$	42.78	$D_f \text{ min}$	24.55
$D_a \text{ mean}$	42.80	42.75/42.85	$D_f \text{ mean}$ 24.58
R_{aD}	0.02	R_{fD}	0.03

Mean value of $D_a \text{ max} - D_a \text{ min}$

Mean value of $D_f \text{ max} - D_f \text{ min}$