

Set of teeth	H	
Standard or Basic rack tooth profile	STD 5083,01	
Number of teeth	z	21
Normal module	m_n	3,175 / 1,5875
Normal diametral pitch	p_n	(8 / 16)
Nominal pressure angle	α_{on}	30 °
Helix angle	β	0°
Hand of helix	-	
Normal profile shift coefficient	x_n	(0)
Tool addendum / radius	h_{a0}/r_0	- / -
Tip chamfer diameter	d_{aV}	68,7±0,15
Reference diameter	d	(66,6750)
Form diameter	D_F	63,37
Root diameter	d_f	62,6±0,15
Base diameter	d_b	(57,7422)
Base helix angle	β_b	0°
Controlled profile (roll distance)	SCP - ECP	-
Tolerance class / type of fit	SP / Side fit	
Cirkular space width actual	E	- -
Cirkular space width effective	E_v	- -
Circular tooth thickness effective	S_v	4,987 ^{+0,048[3]} (+0,012)
Circular tooth thickness actual	S	4,987 ^(0) -0,036[3]
Span measurement w over k teeth	W / k	- - / -
Measurement over balls	M	(75,902) 75,847[3]
Ball diameter	d_M	6.096 ±0,001
Mating part no	17251354	

Gear data	GLEASON HYPOID	J
Summary no.	17265754	
Shaft angle	90°	
No. of teeth	13	
Module	11,081	
Pinion offset	38,1	
Pressure angle concave/convex	21° 44' / 23° 16'	
Mean spiral angle/direction	43°13'/LH	
Pitch diameter	-	
Normal chordal thickness	-	
Working depth	20,19	
Addendum	15,83	
Dedendum	6,79	
Chordal addendum	-	
Tooth tolerances [μ m]		
Datum	A - B	
Transverse pitch deviation	f_{pt}	45 [3]
Transverse tooth-to-tooth pitch deviation	Δf_{pt}	50 [3]
Total cumulative pitch deviation	F_p	110 [3]
Radial run-out	F_r	80 [3]
Circumferential backlash	0,30 - 0,46	
Mating part no./No. of teeth	17240328 / 37	

Cleanliness requirment STD 107-0002				
Max number of particles/cm2		1500	192	12
Particle size ranges	μ m	$5 \leq x < 15$	$15 \leq x < 100$	$100 \leq x < 200$
Max number of particles/cm2		1	0,01 1)	
Particle size ranges	μ m	$200 \leq x < 500$	$500 \leq x$	
Wetted surface	cm²	1213		Ac

1) Non metallic particles allowed [3]

