

A-A (1 : 1)

M16x1.5 x 36
□ Ø16,5 ▽ 15

CARBONITRURAZIONE 58 HRC 0,5÷0,8 mm.

OBTAINED FROM GEAR
STRAIGHT TOOTHING "CHIARAVALLI"

STRAIGHT TOOTHING M4 α20°
ENGAGE WITH 21.MAC.003.166.027

00	06/07/2022	EMISSIONE - ISSUE	C.C.	EJP												
Modified	Date	Description	Drawn	Approved	References											
EJP		Chamfers not quoted: Filletts not quoted:	✓(3.2) ✓ ✓ ✓		Format A3											
		Dimensions without toler. indic.: ISO 2768 - MEDIUM														
Dimension [mm]	>0.5	≤3	>3	≤6	>6	≤30	>30	≤120	>120	≤400	>400	≤1000	>1000	≤2000	>2000	≤4000
tolerance ±	0.1		0.1		0.2		0.3		0.5		0.8		1.2		2	
		Scale	Mass (Kg)		Material and treatments											
		1 : 1	0,93 kg		C40 - EN 10083-2 CARBONITRIDING 58 HRC											
		Obtained from:													sheet: 1/1	
		Drawing number										Title				
		21.MAC.003.166.036										CREMAGLIERA RACK				

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Technical drawing of a rack and pinion gear assembly, showing the rack profile and its engagement with a pinion.

Top View (A-A):

- Overall length: 162 ± 0,2
- Pinion pitch diameter: Ø16,5
- Pinion addendum: 11
- Pinion dedendum: 11
- Pinion total thickness: 36
- Pinion fillet radius: 3,2
- Pinion tooth thickness: 12,57
- Pinion tooth spacing: 12,57
- Pinion tooth width: 4,96
- Pinion tooth height: 30 h12 (+0,00 / -0,21)
- Pinion tooth fillet radius: 3,2
- Pinion tooth root fillet radius: 3,2
- Pinion tooth root thickness: 15
- Pinion tooth root width: 30 h11 (+0,00 / -0,13)
- Pinion tooth root fillet radius: 3,2

Side View (A-A):

- Overall length: 162 ± 0,2
- Pinion pitch diameter: Ø16,5
- Pinion addendum: 11
- Pinion dedendum: 11
- Pinion total thickness: 36
- Pinion fillet radius: 3,2
- Pinion tooth thickness: 12,57
- Pinion tooth spacing: 12,57
- Pinion tooth width: 4,96
- Pinion tooth height: 30 h12 (+0,00 / -0,21)
- Pinion tooth fillet radius: 3,2
- Pinion tooth root fillet radius: 3,2
- Pinion tooth root thickness: 15
- Pinion tooth root width: 30 h11 (+0,00 / -0,13)
- Pinion tooth root fillet radius: 3,2

Material and Treatment:

- C40 - EN 10083-2
- CARBONITRIDING 58 HRC

Table:

Dimension [mm]	>0,5	≤3	>3	≤6	>6	≤30	>30	≤120	>120	≤400	>400	≤1000	>1000	≤2000	>2000	≤4000
tolerance ±	0,1	0,1	0,1	0,2	0,3	0,5	0,8	1,2	2							

Notes:

- 00 06/07/2022 EMISSIONE - ISSUE C.C. EJP
- Modified Date Description Drawn Approved References
- Chamfers not quoted: ✓ (3,2) ✓ ✓ ✓
- Fillet not quoted: ✓
- Dimensions without toler. indic.: ISO 2768 - MEDIUM
- Scale: 1:1
- Mass (Kg): 0,93 kg
- Material and treatments: C40 - EN 10083-2 CARBONITRIDING 58 HRC
- Obtained from: 21.MAC.003.166.036
- Drawing number: 21.MAC.003.166.036
- Title: CREMAGLIERA RACK
- sheet: 1/1

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 EJP Italia S.r.l. Via Malignani,3 33035 MARTIGNACCO (UD) - Italy Tel. +39-0432-1846200 Fax +39-0432-1842044		Chamfers not quoted: Filletts not quoted:	✓(3.2) ✓ ✓ ✓															
		Dimensions without toler. indic.: ISO 2768 - MEDIUM																
		Dimension [mm]	>0.5	≤3	>3	≤6	>6	≤30	>30	≤120	>120	≤400	>400	≤1000	>1000	≤2000	>2000	≤4000
		tolerance ±	0.1		0.1		0.2		0.3		0.5		0.8		1.2		2	
		Scale	Mass (Kg)	Material and treatments														
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		Obtained from:																
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		21.MAC.003.166.036		CREMAGLIERA RACK														
				sheet: 1/1														

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Ø16,5 ± 0.01

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