

# FILTER'S CHAIN TYPE A

IP total load 1055.5 Kg  
diameter flex joint 10.23 mm  
diameter from Hennes 10.50

Suspension first wire dia 3.1 mm  
 $\sigma = 769.93 \text{ N/mm}^2$   
Wire's lenght 2271 mm

Suspension second wire dia 2.8 mm  
 $\sigma = 775.44 \text{ N/mm}^2$   
Wire's lenght 2271 mm

Suspension third wire dia 2.5 mm  
 $\sigma = 788.9 \text{ N/mm}^2$   
Wire's lenght 2271 mm

Suspension fourth wire dia 2.2 mm  
 $\sigma = 789.2 \text{ N/mm}^2$   
Wire's lenght 2271 mm

Suspension fourth wire dia 1.8 mm  
 $\sigma = 789.2 \text{ N/mm}^2$   
Wire's lenght 400 mm

Top filter: total mass (filter+ballast=100 Kg+acceler.) 474.4 Kg  
Total load on the blades 581.12 Kg  
N°3 blades: t=5; W=125; l=606; load/blades 116.15 Kg  
N°3 blades: t=5; W=83.47; l=606; load/blades 77.55 Kg

Filter 1: Mass 49.9+cup 38.8+ballast 4.44+ ring magnets10.5=103.64 Kg  
Total load 477.48 Kg  
N°10 blades: t=2.4; w=80; load/blade 40.3 Kg  
N°2 blades: t=2.4; w=73.92; load/blade 37.24 Kg

Filter 2: Mass 47.13+cup 38.8+ballast 4.3=total mass 90.23 Kg  
Total load 387.25 Kg  
N°8 blades: t=2.4; w=80; load/blade 40.3 Kg  
N°2 blades: t=2.4; w=64.36; load/blade 32.42 Kg

Filter 3: Mass 44.3+cup 38.8+ballast 4.15=total mass 87.25 Kg  
Total load 300 Kg  
N°6 blades: t=2.4; w=80; load/blade 40.3 Kg  
N°2 blades: t=2.4; w=57.8; load/blade 29.1 Kg


Filter 4: Mass 41.47 Kg+Cup 38.8+ ballast 4=total mass 84.27 Kg  
Total load 215.75 Kg  
N°4 blades: t=2.4; w=80; load/blade 40.3 Kg  
N°2 blades: t=2.4; w=54.2; load/blade 27.28 Kg

IRM mass 25.75 Kg  
IM mass 90 Kg

Mirror mass 10 Kg  
RM mass 90 Kg

N° 4 towers type A

Note: Special blade width  
to be adjusted after initial  
assembly

added note		14-09-12
modified length wires		12-07-11
ref.	note	date
modifications		
324	0327	wire suspension intermediate mass
322	0327	wire suspension filter 4
321	0327	wire suspension filter 3
320	0327	wire suspension filter 2
319	0327	wire suspension filter 1
ref.	draw.	denomination
<div> <div>  <b>PROMEC</b>  di Gianni Gennaro  Blarmino (Pisa)-Italia </div> <div> designed by  <b>R. De Salvo</b>  drawn by  <b>G. Gennaro</b>  date  <b>29-04-11</b>  scale  <b>LCGT-0013-02</b>  <b>LCGT-SAS</b>  <b>FILTER'S CHAIN TYPE A-Gr.0</b> </div> </div>		
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