

REP	QTE	DESCRIPTION	MATIERE	OBSERVATION
1	4	Goupille	Acier de construction	Commerce
2	4	Axe de fixation	Acier de construction	
3	2	Axe mobile	Acier de construction	
4	2	Bague	Bronze	Commerce
5	8	Ecrou		Commerce
6	1	Plaque de base	Acier de construction	
7	1	Poutre de base	Acier de construction	
8	1	poutre de fixation d'éprouvette	Acier de construction	
9	4	Rondelle		Commerce
10	1	Plaque de fixation d'éprouvette	Acier de construction	
11	1	Cric hydraulique		Commerce



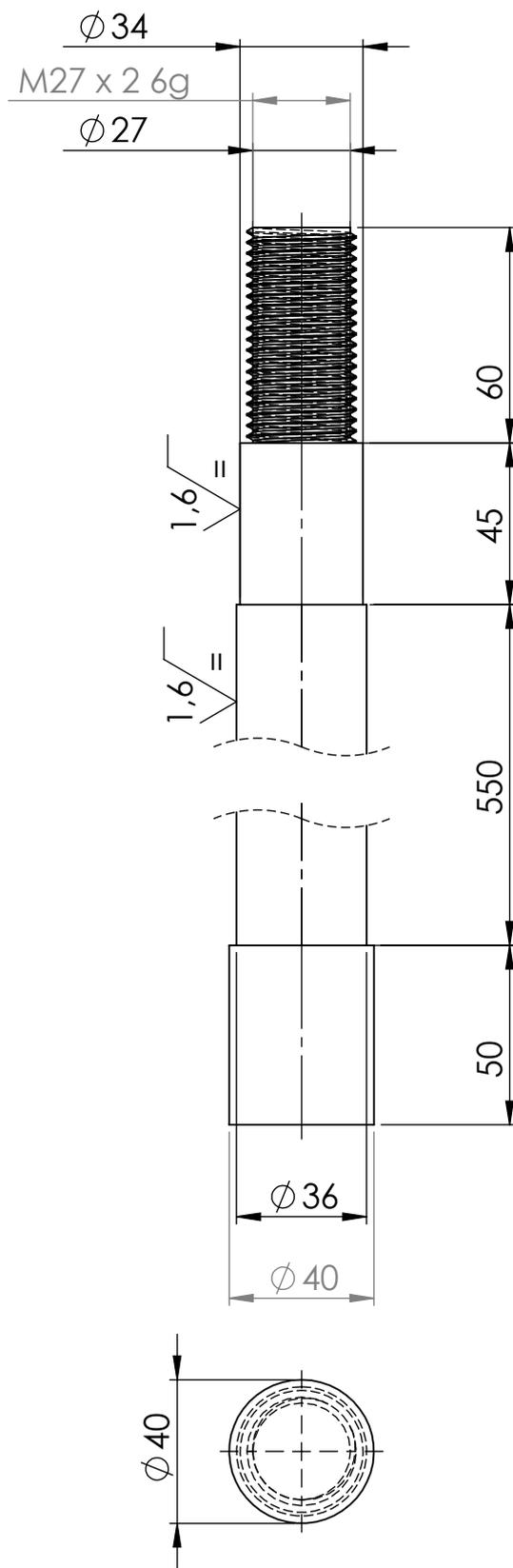
P.F.E

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machine de traction manuelle

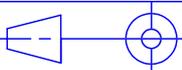
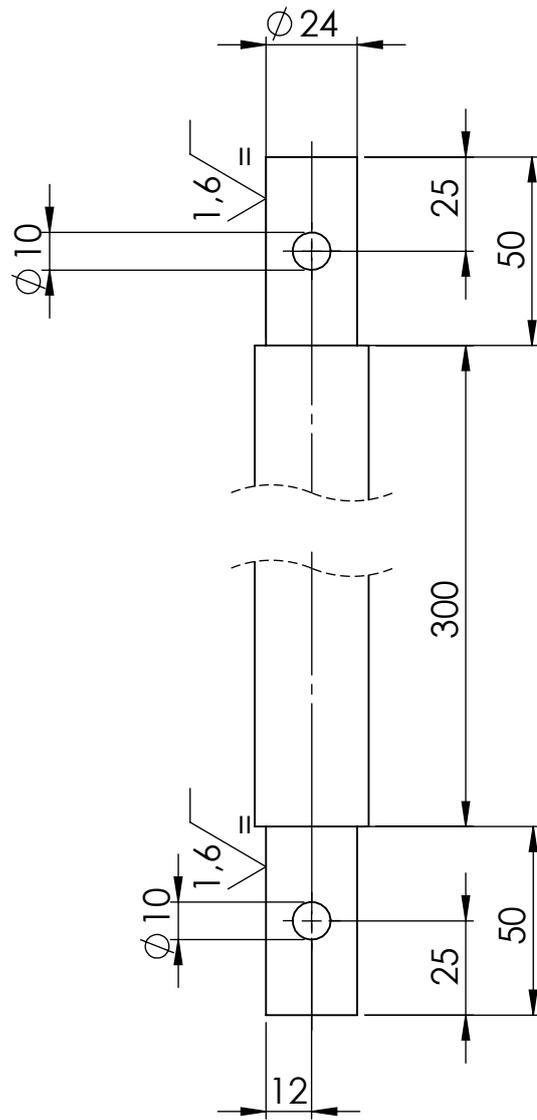
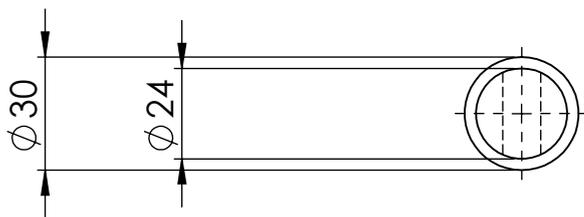
Echelle 1: 10

2017/2018



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P.F.E	Axe de fixation	2017/2018
N° 02		





P.F.E

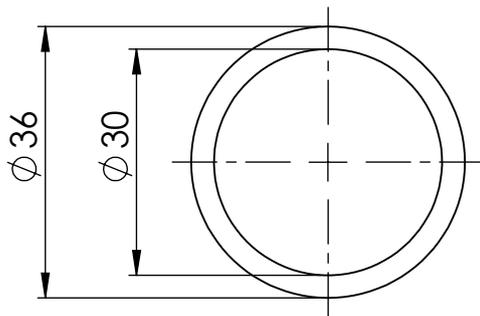
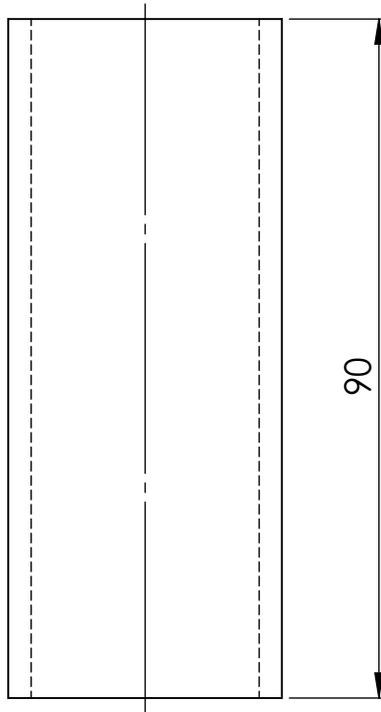
N° 03

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Axe mobile

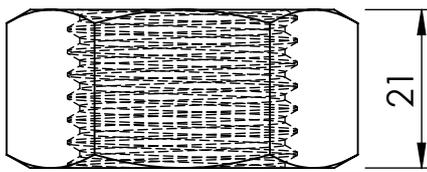
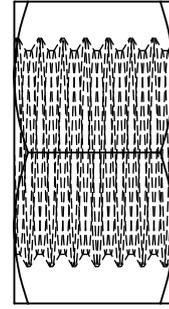
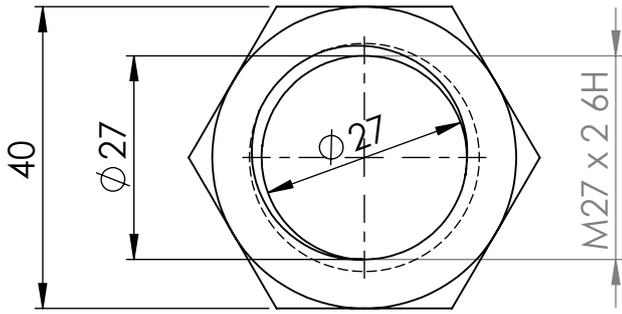
Echelle 1:2

2017/2018



	Universite Abou Bakr Belkaid Tlemcen	Echelle 1: 1
P.F.E	Bague	2017/2018
N° 04		

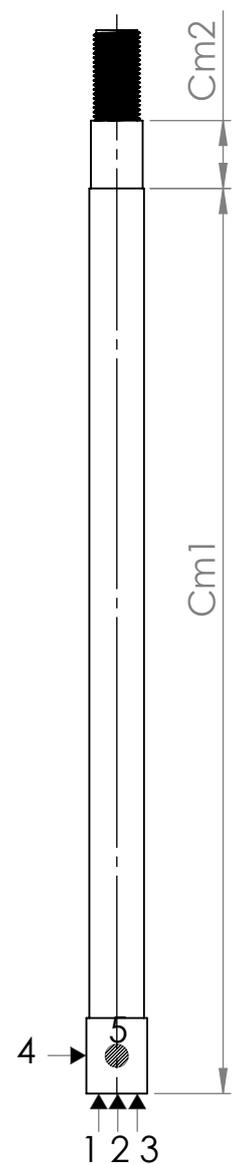




	Universite Abou Bakr Belkaid Tlemcen	Echelle 1: 1
P.F.E	Ecrou	2017/2018
N° 05		

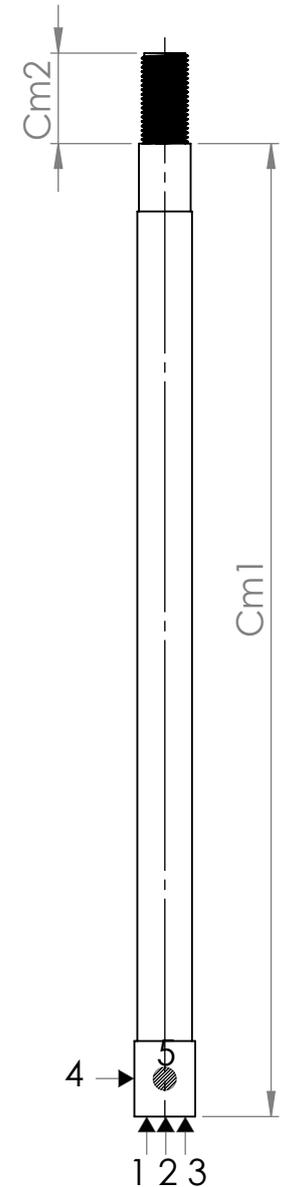
Axe de fixation

Feuille d'analyse de fabrication

N° phase	Désignation	M.O	Outillage	CROQUIS
300	<p>tournage: Montage définie par: Appuis plans 1,2,3: (1) Appuis linaires 4,5: (2)</p> <p>301:chariotage (4)en finition. Cm1=600 mm Cm2=45 mm</p>	Tour	Outil à charioter	 <p>The drawing shows a vertical shaft with a threaded top section. Dimension lines indicate a total length of Cm1 and a shorter section of Cm2. At the bottom, five support points are marked: 1, 2, and 3 are plan supports (triangles), and 4 and 5 are linear supports (arrows). A hatched area at the bottom is labeled '5'.</p>

Axe de fixation

Feuille d'analyse de fabrication

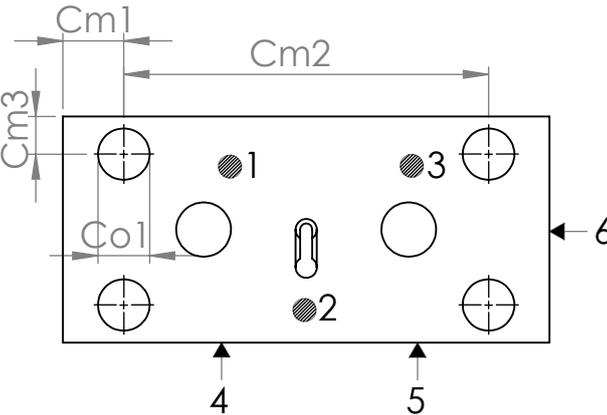
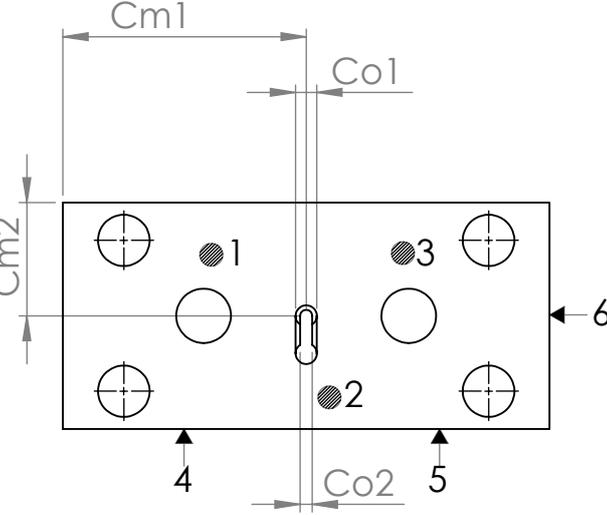
N° phase	Désignation	M.O	Outillage	CROQUIS
400	<p>tournage: Montage définie par: Appuis plans 1,2,3: (1) Appuis linaires 4,5: (2)</p> <p>401:Filetage (5)en finition. Cm1=645 mm Cm2=60 mm</p>	Tour	Outil à fileter	 <p>The drawing shows a vertical threaded rod. At the top, there is a section with a different diameter, shaded black, with a dimension line labeled Cm2. The main body of the rod has a dimension line labeled Cm1. At the bottom, there are five support points: three triangular supports labeled 1, 2, and 3, and two rectangular supports labeled 4 and 5. A dashed line indicates the center of the rod.</p>

Axe de fixation		Feuille d'analyse de fabrication		
N° phase	Désignation	M.O	Outillage	CROQUIS
100	Contrôle de brut			
200	<p>tournage: Montage définie par: Appuis plans 1,2,3: (1) Appuis linaires 4,5: (2)</p> <p>201:chariotage (3)en finition. Cm1=50 mm Cm2=550 mm</p>	Tour	Outil à charioter	<p>The drawing shows a vertical shaft with a threaded top section. At the bottom, there are five support points labeled 1, 2, 3, 4, and 5. Points 1, 2, and 3 are indicated by upward-pointing triangles, representing plan supports. Points 4 and 5 are indicated by horizontal arrows pointing to the shaft, representing linear supports. Dimension lines show Cm1 as the distance from the bottom of the shaft to the top of the support points 4 and 5, and Cm2 as the total length of the shaft from the bottom to the top of the threaded section.</p>

Plaque de base			Feuille d'analyse de fabrication	
N° phase	Désignation	M.O	Outils	CROQUIS
100	Contrôle de brut			
200	<p>Fraisage: Montage définie par: Appuis plans 1,2,3: (3) Appuis linaires 4,5: (1) Appui ponctuelle 6: (2)</p> <p>201:perçage (4)en finition. Cm1=40 mm Cm2=240 mm Cm3= 25 mm</p>	F.V (F.U)	Fraise 3taile $\varnothing 36$ mm	

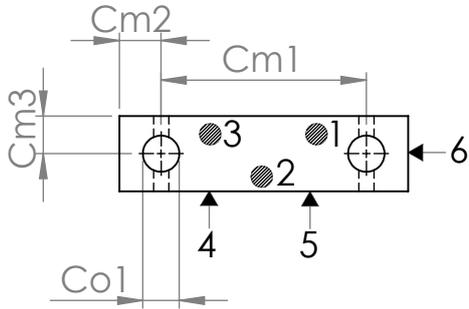
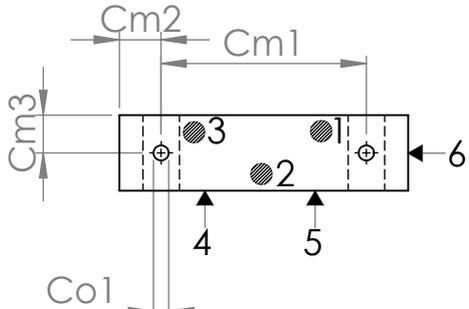
Plaque de fixation d'éprouvette

Feuille d'analyse de fabrication

N° phase	Désignation	M.O	Outillage	CROQUIS
100	Contrôle de brut			
200	<p>Fraisage: Montage définie par: Appuis plans 1,2,3: (3) Appuis linéaires 4,5: (1) Appui ponctuelle: (2)</p> <p>201:perçage (4)en finition. Cm1=40 mm Cm2=240 mm Cm3=25 mm</p>	F.V (F.U)	Fraise 3taille Ø 34 mm	 <p>The drawing shows a rectangular plate with four corner holes. A central slot is cut out. Support points are indicated: 1 and 3 are top corners, 2 is the bottom center of the slot, 4 and 5 are bottom edges, and 6 is the right edge. Dimensions are: Cm1 (width of the left hole), Cm2 (total width), Cm3 (height of the top hole), Co1 (width of the central slot), and 6 (width of the right edge).</p>
300	<p>Fraisage: Montage définie par: Appuis plans 1,2,3: (1) Appuis linéaires 4,5: (3) Appui ponctuelle: (2)</p> <p>301:Fraisage (5)en finition. Cm1=95 mm Cm2=25 mm</p> <p>302:Fraisage (6)en finition. Cm1=95 mm Cm2=25 mm</p>	F.V (F.U)	Fraise 3taille Co1= Ø 14 mm et Co2= Ø 8 mm	 <p>The drawing shows the same plate as above but with a vertical slot cut through the center. Dimensions are: Cm1 (width of the left hole), Cm2 (height of the top hole), Co1 (width of the top slot), and Co2 (width of the bottom slot). Support points 1, 2, 3, 4, 5, and 6 are also indicated.</p>

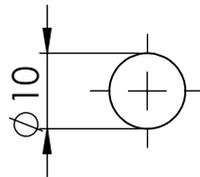
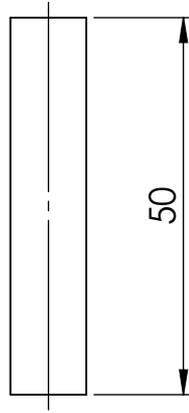
Poutre de base

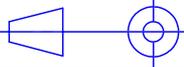
Feuille d'analyse de fabrication

N° phase	Désignation	M.O	Outillage	CROQUIS
100	Contrôle de brut			
200	<p>Fraisage: Montage définie par: Appuis plans 1,2,3: (3) Appuis linéaires 4,5: (1) Appui ponctuelle: (2)</p> <p>201:perçage (7)en finition. Cm1=27,5 mm Cm2=135 mm Cm3=25 mm</p>	F.V (F.U)	Fraise 3taille Ø 24 mm	
300	<p>Fraisage: Montage définie par: Appuis plans 1,2,3: (1) Appuis linéaires 4,5: (3) Appui ponctuelle: (2)</p> <p>301:perçage (5)en finition. Cm1=27,5 mm Cm2=135 mm Cm3=25 mm</p>	F.V (F.U)	Fraise 3taille Ø 10 mm	

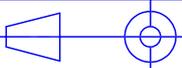
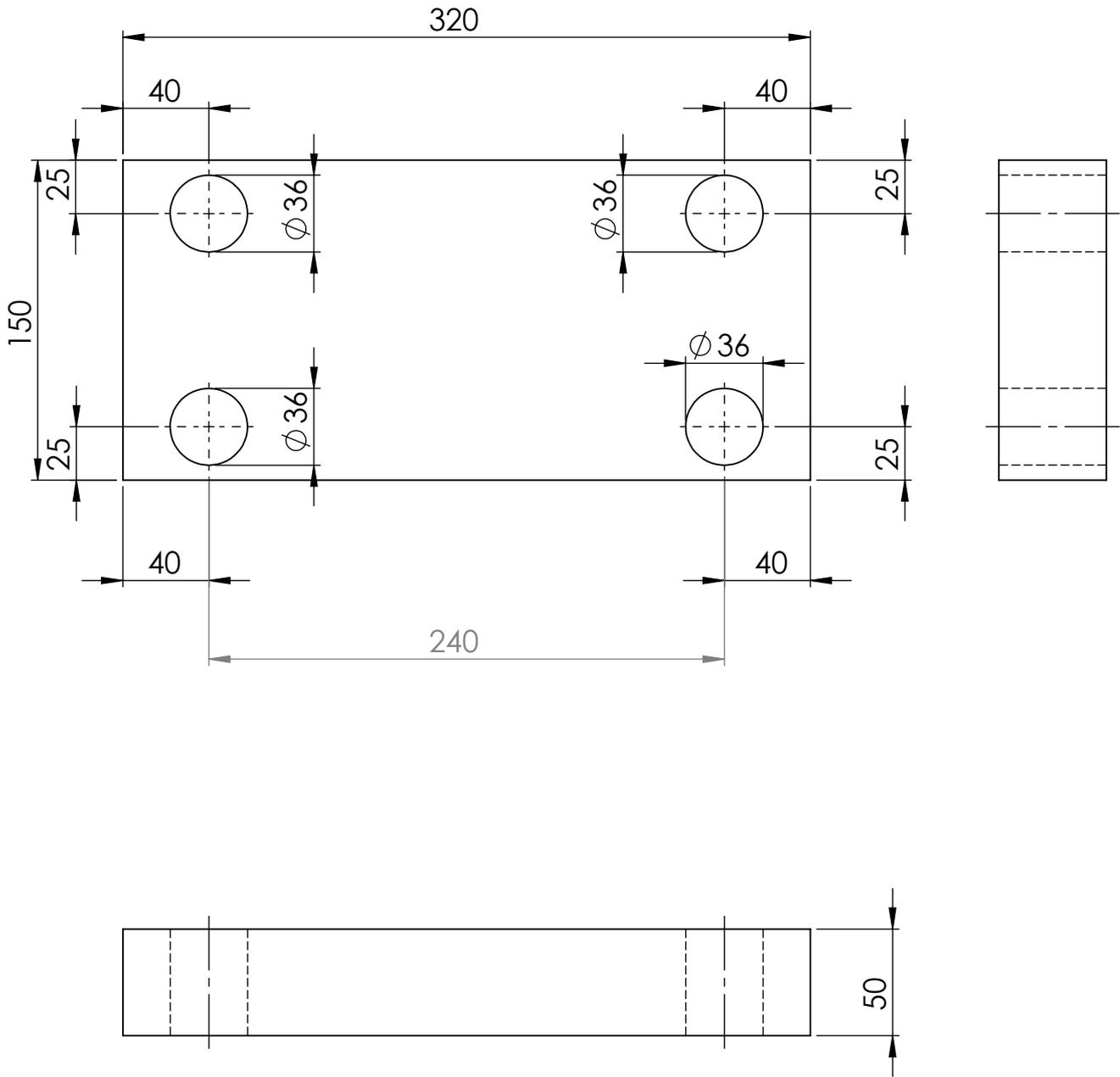
Poutre de fixation d'éprouvette			Feuille d'analyse de fabrication	
N° phase	Désignation	M.O	Outillage	CROQUIS
100	Contrôle de brut			
200	<p>Fraisage: Montage définie par: Appuis plans 1,2,3: (3) Appuis linéaires 4,5: (1) Appui ponctuelle: (2)</p> <p>201:perçage (7)en finition. Cm1=27,5 mm Cm2=135 mm Cm3=25 mm</p>	F.V (F.U)	Fraise 3taille Ø 24 mm	
300	<p>Fraisage: Montage définie par: Appuis plans 1,2,3: (1) Appuis linéaires 4,5: (3) Appui ponctuelle: (2)</p> <p>301:perçage (5)en finition. Cm1=27,5 mm Cm2=135 mm Cm3=25 mm</p>	F.V (F.U)	Fraise 3taille Ø 10 mm	
400	<p>Fraisage: Montage définie par: Appuis plans 1,2,3: (1) Appuis linéaires 4,5: (3) Appui ponctuelle: (2)</p> <p>301:Fraisage (9)en finition. Cm1=95 mm Cm2=25 mm</p> <p>302:Fraisage (8)en finition. Cm1=95 mm Cm2=25 mm</p>	F.V (F.U)	Fraise 3taille Co1= Ø 14 mm et Co2= Ø 8 mm	

Axe de mobile			Feuille d'analyse de fabrication	
N° phase	Désignation	M.O	Outils	CROQUIS
100	Contrôle de brut			
200	<p>tournage: Montage définie par: Appuis plans 1,2,3: (2) Appuis linaires 4,5: (1)</p> <p>201:chariotage (3)en finition. Cm1=30 mm Cm2=24 mm Cm3=400 mm</p>	Tour	Outil à charioter	
300	<p>perçage: Montage définie par: Appuis plans 1,2,3: (3) Appuis linaires 4,5: (2)</p> <p>301:perçage (4)en finition. Cm1= 12 mm Cm2=25 mm</p>	perceuse	foret Ø 10 mm	



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P.F.E	Goupille	2017/2018
N° 01		





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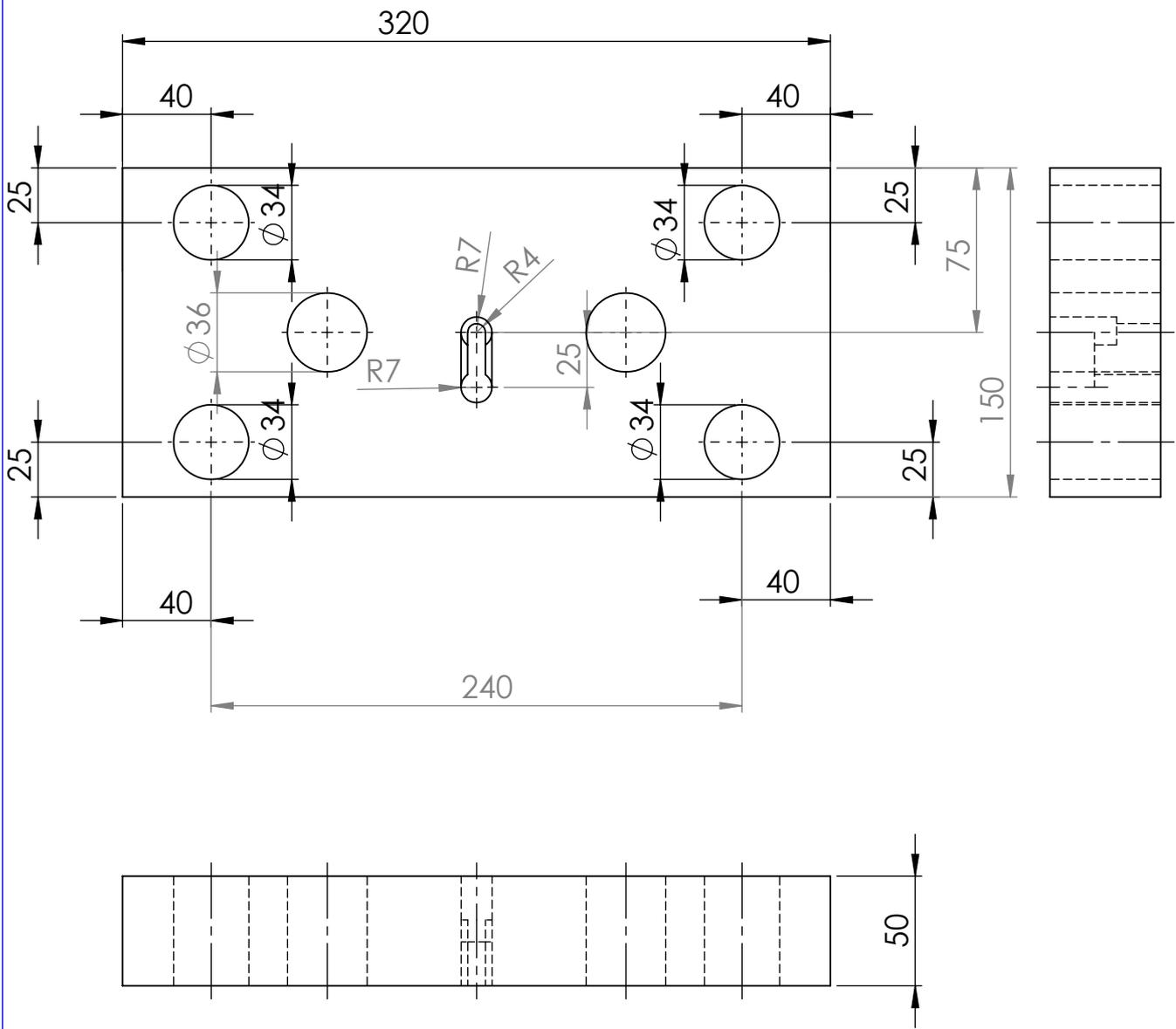
Echelle 1:3

P.F.E

Plaque de base

2017/2018

N° 06



P.F.E
N° 10

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Plaque de fixation d'éprouvette

Echelle 1: 3
2017/2018

