Ouvre-barrière SINUSMATIC

Diagrammes SysML

Cas d'utilisation

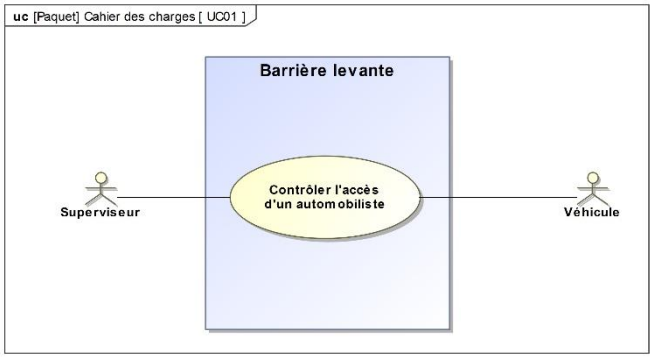


Diagramme de contexte

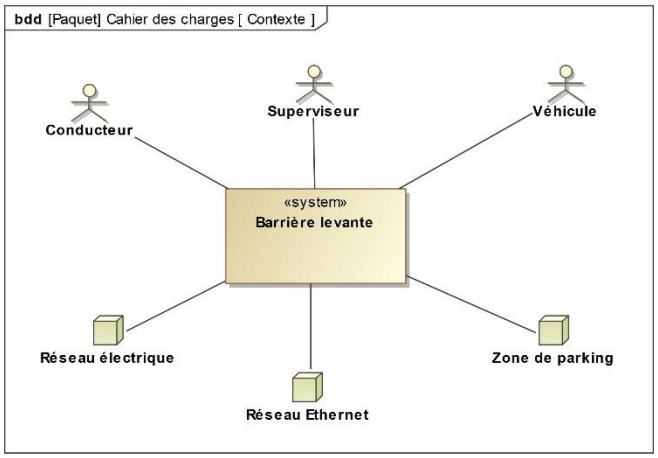


Diagramme d'exigences

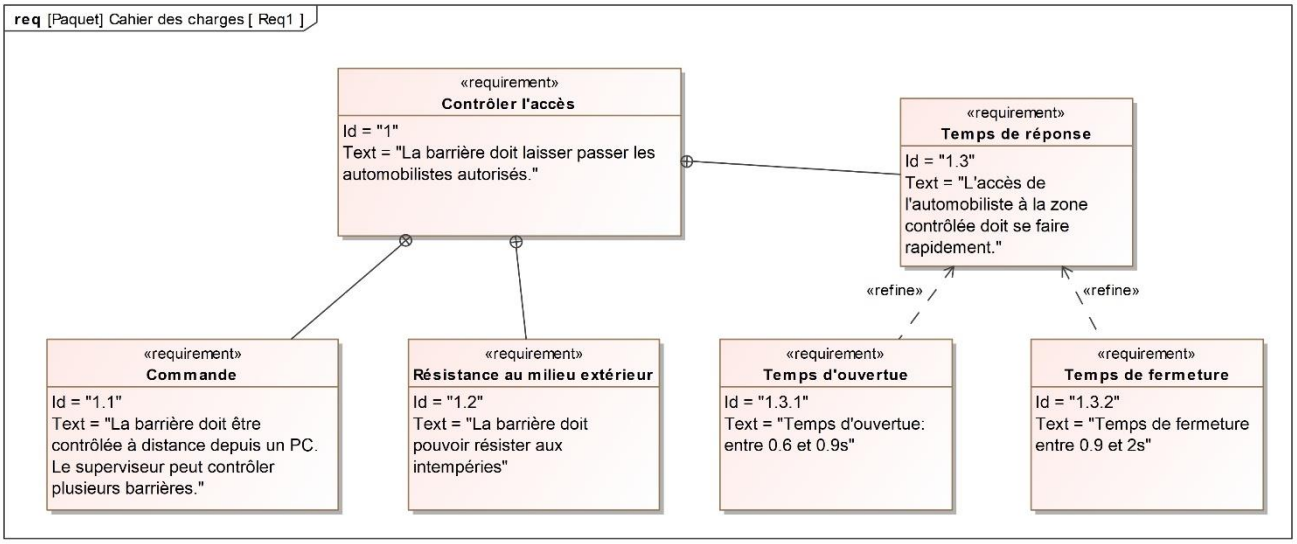


Diagramme de définition de blocs

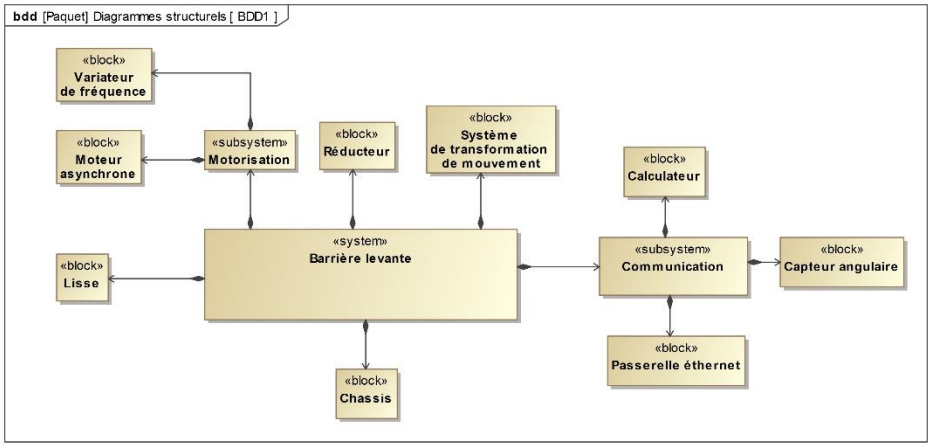


Diagramme de blocs internes

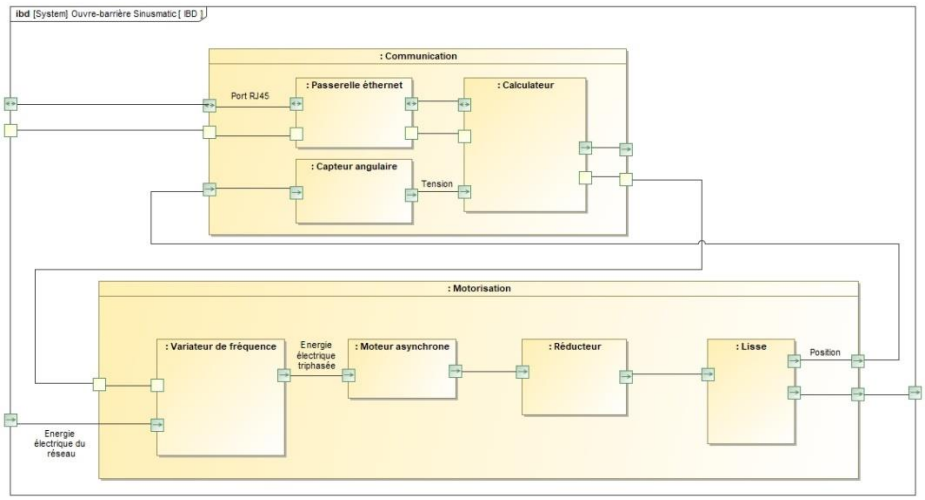
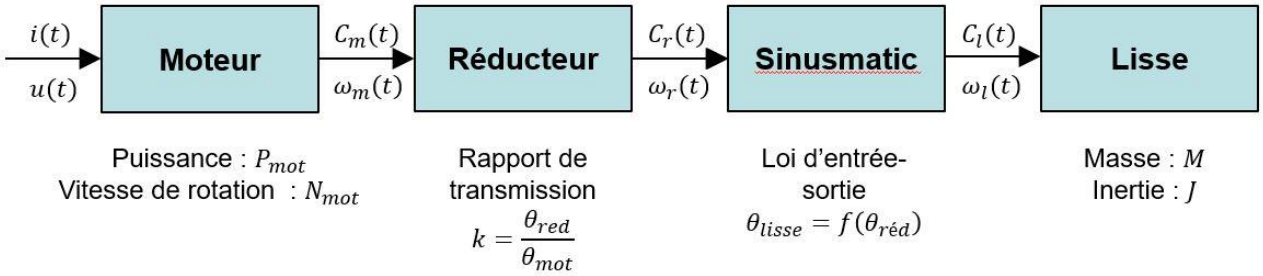
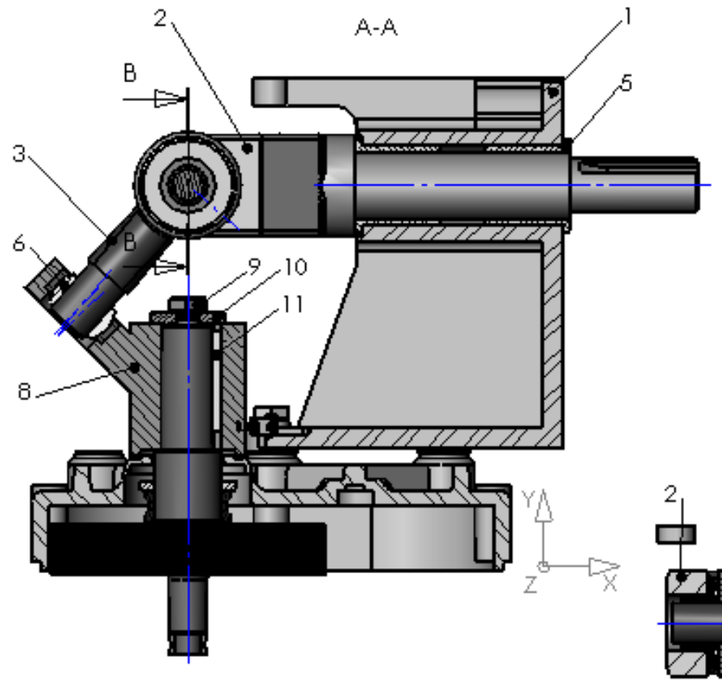


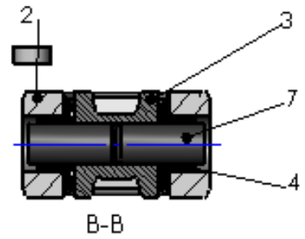
Schéma-bloc

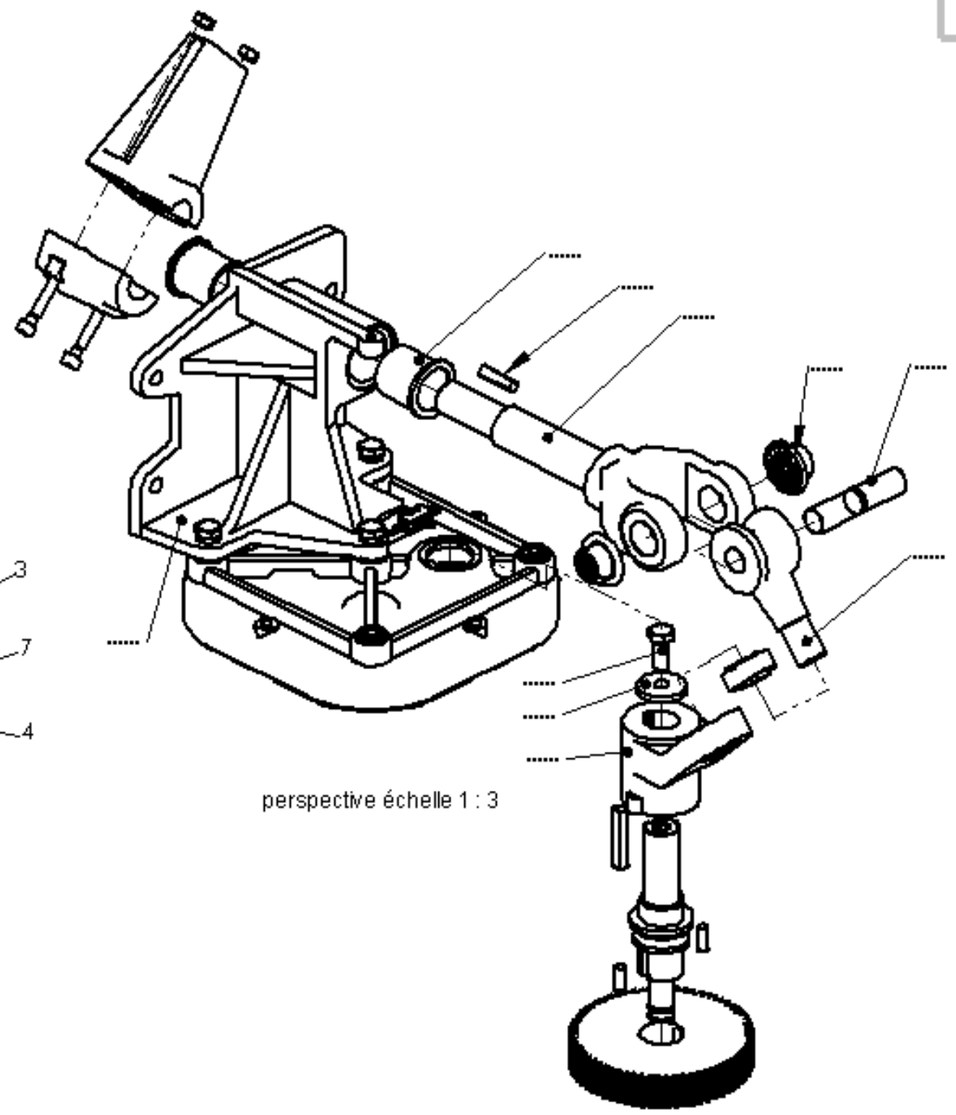


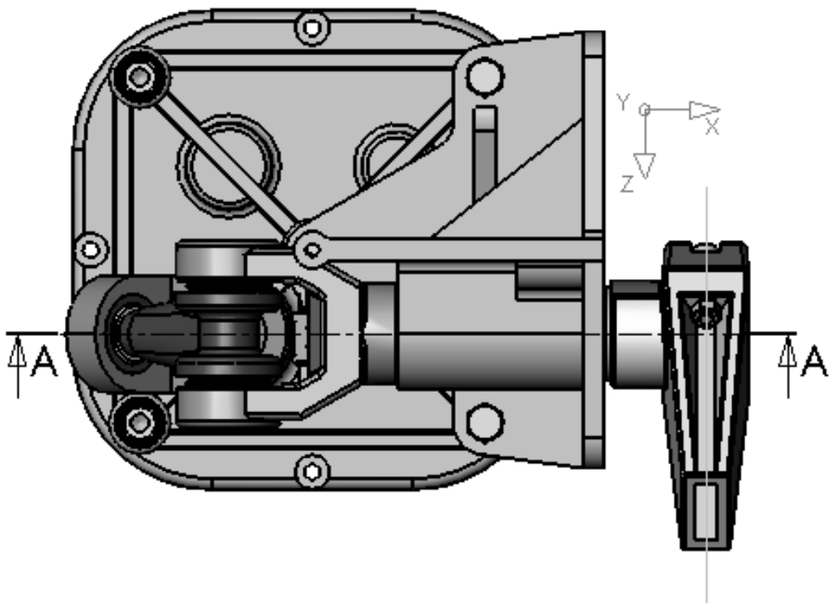
Dessin d'ensemble

DT 01





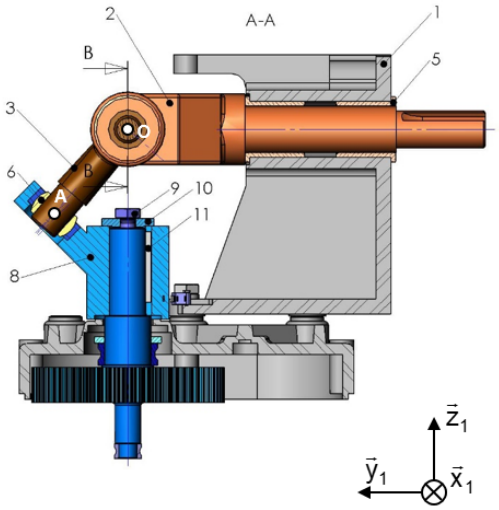




REP.	NBR.	DESIGNATION	MATIERE	OBSERVATION
Echelle 1:2		*LP de ROMPSAY - LA ROCHELLE*		
A3		***LEVE-BARRIERE***		**3/10**
Date :				00

Modélisation cinématique

Groupes cinématiques - Graphe de liaisons



Groupes cinématiques : Ensemble de pièces n'ayant aucun mouvement relatif entre elles

1 Bâti

2 Arbre de sortie

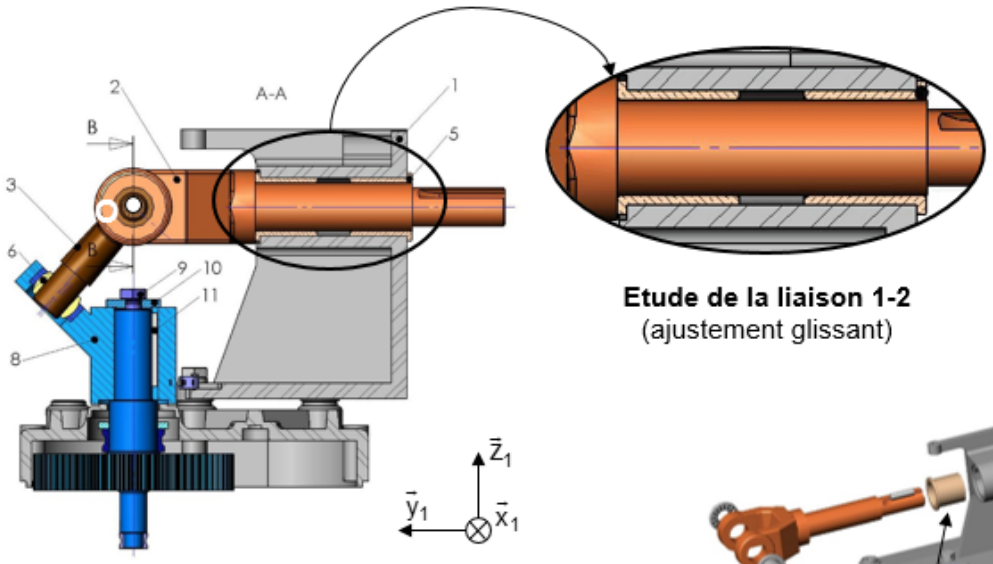
3 Croisillon

8 Arbre d'entrée

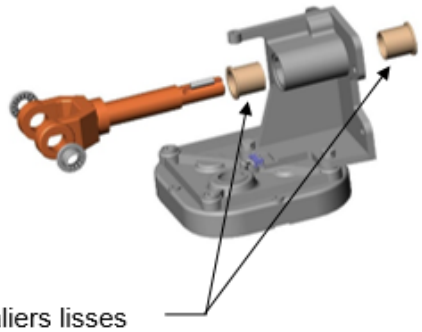
6 Sphère

Graphe de liaisons (incomplet) :

Etude de la liaison 1-2



Etude de la liaison 1-2
(ajustement glissant)

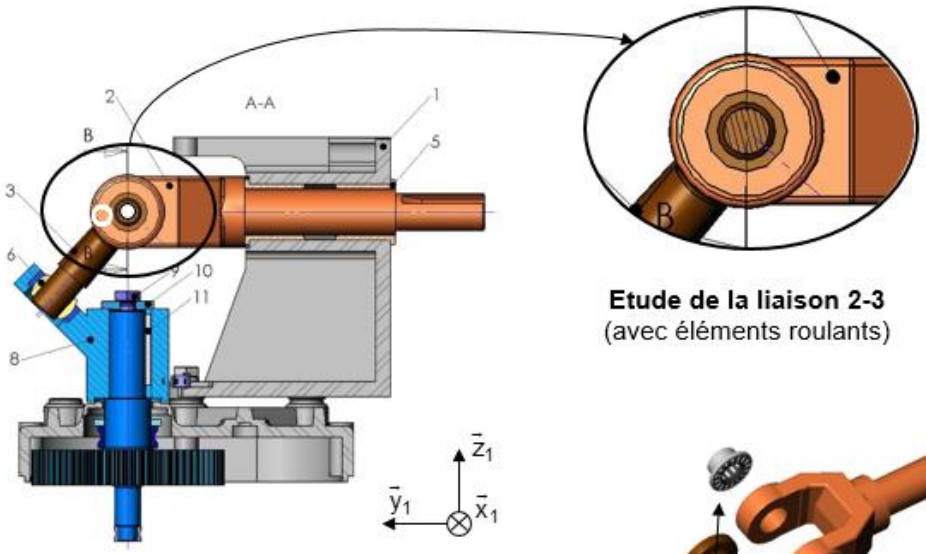


Nature des surfaces en contact

Mobilités autorisées

Caractérisation de la liaison

Etude de la liaison 2-3

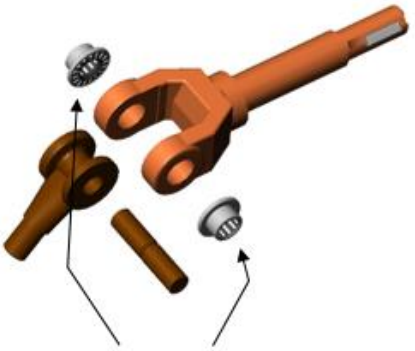


Etude de la liaison 2-3
(avec éléments roulants)

Nature des surfaces en contact

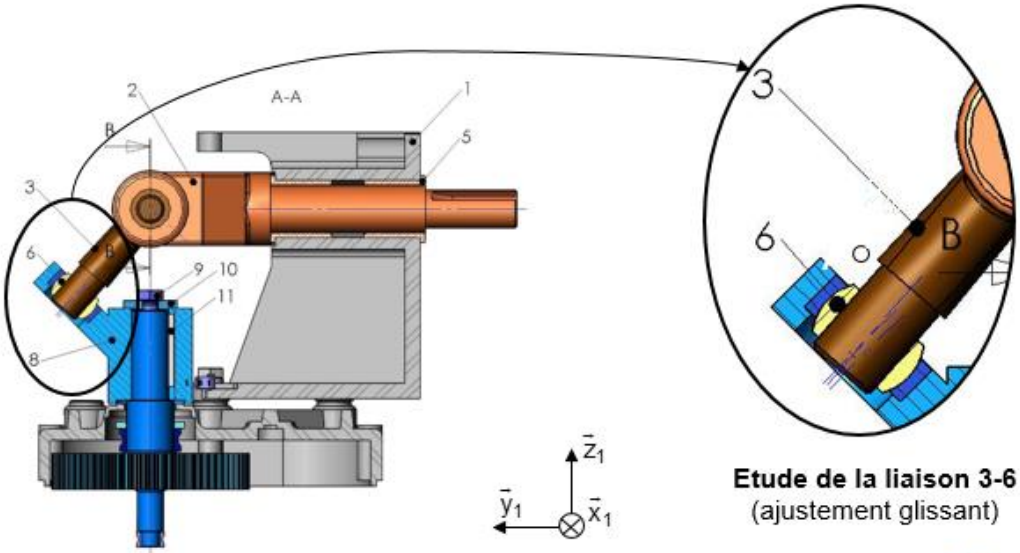
Mobilités autorisées

Caractérisation de la liaison



Roulements combinés

Etude de la liaison 3-6



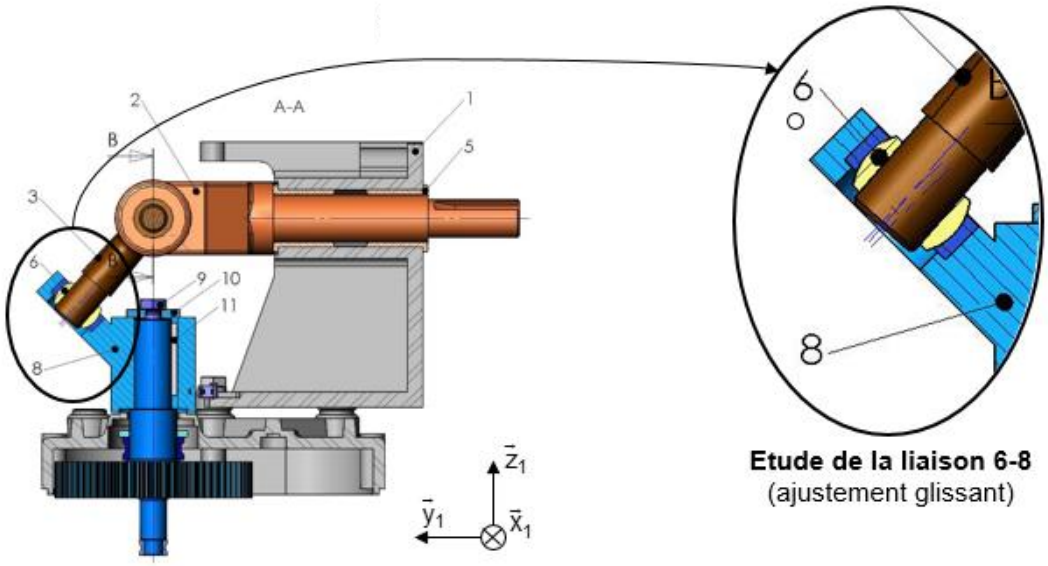
Etude de la liaison 3-6
(ajustement glissant)

Nature des surfaces en contact

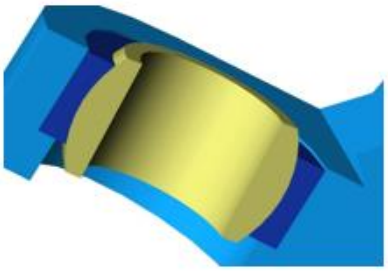
Mobilités autorisées

Caractérisation de la liaison

Etude de la liaison 6-8



Etude de la liaison 6-8
(ajustement glissant)

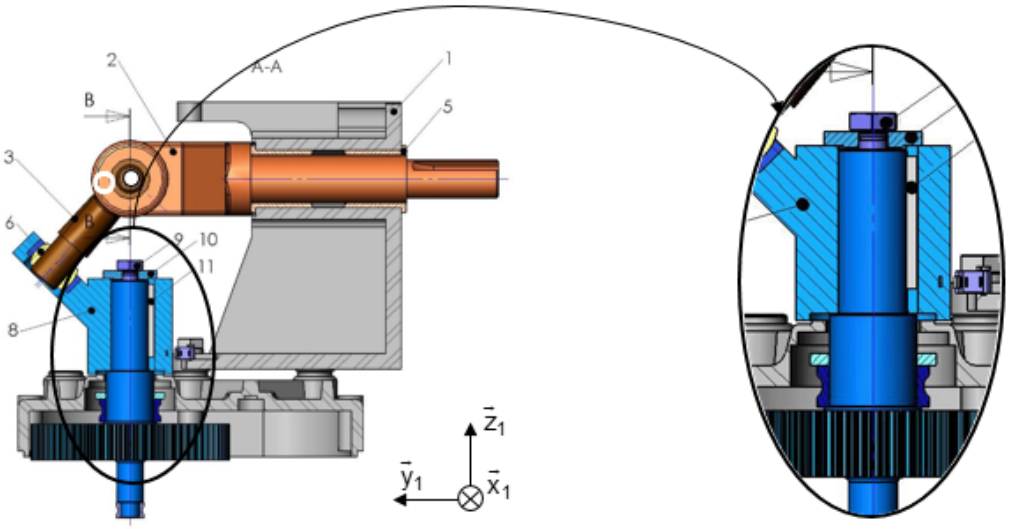


Nature des surfaces en contact

Mobilités autorisées

Caractérisation de la liaison

Etude de la liaison 1-8



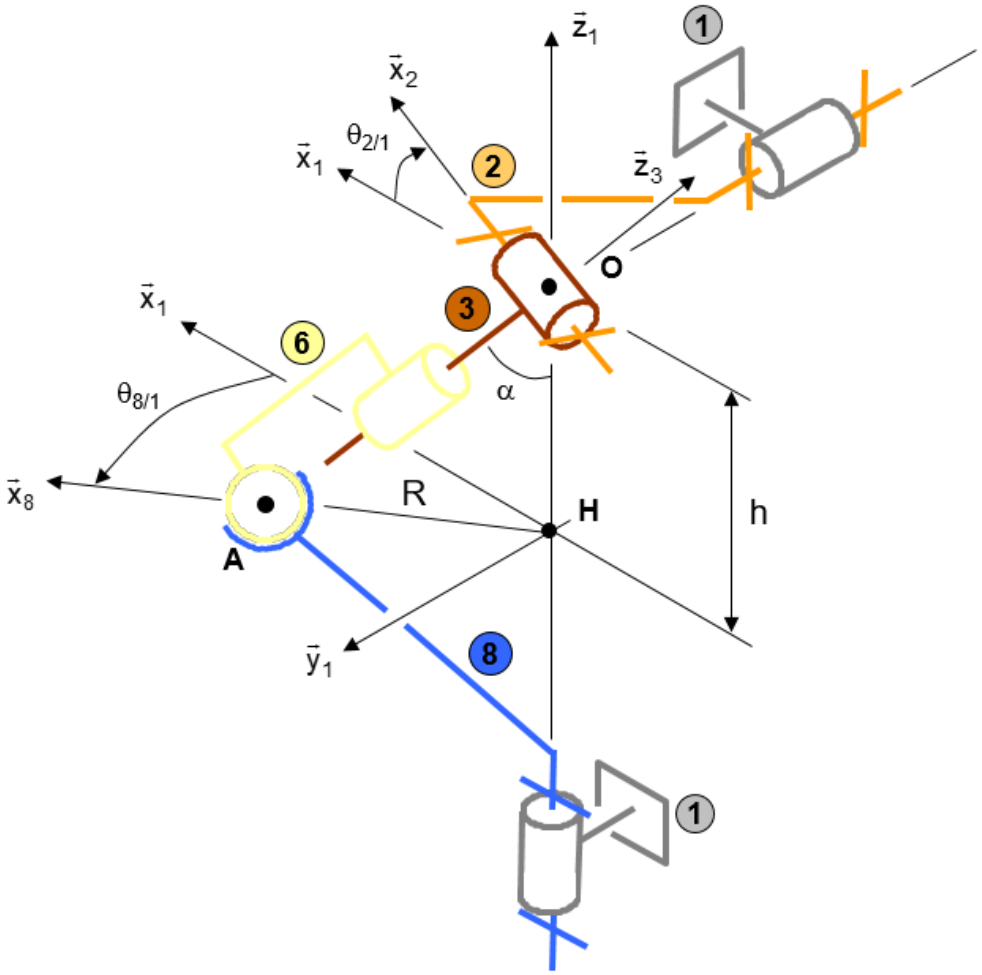
Etude de la liaison 1-8
(ajustement glissant)

Nature des surfaces en contact

Mobilités autorisées

Caractérisation de la liaison

Paramétrage



Loi d'entrée-sortie

$$\boxed{tg\theta_{2/1} = -tg\alpha.\cos\theta_{8/1}} \qquad tg\alpha = \frac{R}{h}$$

Cas: $tg\alpha = \frac{R}{h} = 1$