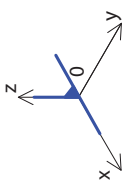
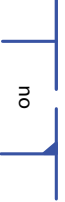
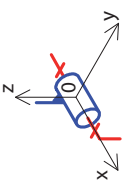
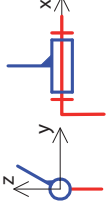
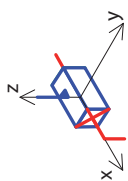
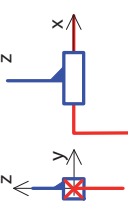
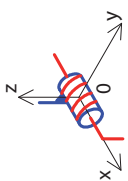
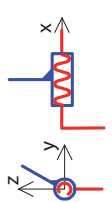
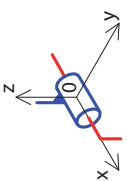
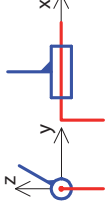
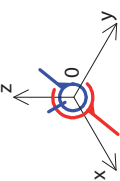
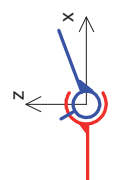
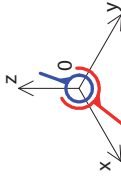
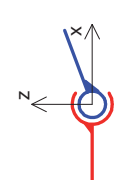
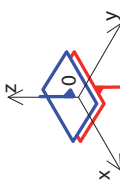
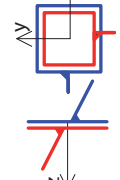
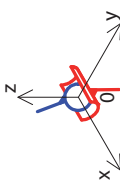
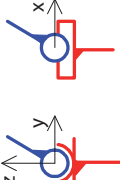
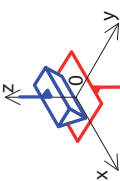
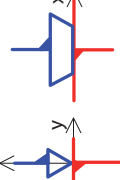
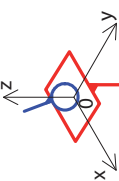
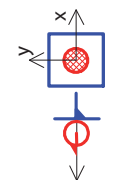


TABLE 1 – Liaisons normalisées : torseur cinématique et d'action transmissible

ddl	Liaison	Schématisation spatiale	Schématisation plane	Caractéristique géométrique	Torseur cinématique $\{\mathcal{V}_{i/j}\}$	Torseur d'action transmissible $\{\mathcal{F}_{j \rightarrow i}\}$	Point d'expression
0	Encastrement			aucune	$\left\{ \begin{array}{c c} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} \right\}_P$	$\forall P$	
1	Pivot			droite $(O, \vec{x})$	$\left\{ \begin{array}{c c} \omega_x & 0 \\ 0 & 0 \\ 0 & 0 \end{array} \right\}_P$	$P \in (O, \vec{x})$	
1	Glissière			direction $\vec{x}$	$\left\{ \begin{array}{c c} 0 & V_x \\ 0 & 0 \\ 0 & 0 \end{array} \right\}_P$	$\forall P$	
1	Helicoïdale			droite $(O, \vec{x})$	$\left\{ \begin{array}{c c} \omega_x & V_x \\ 0 & 0 \\ 0 & 0 \end{array} \right\}_P$	$P \in (O, \vec{x})$ $V_x = \frac{p}{2\pi} \omega_x$	
2	Pivot glissant			droite $(O, \vec{x})$	$\left\{ \begin{array}{c c} \omega_x & V_x \\ 0 & 0 \\ 0 & 0 \end{array} \right\}_P$	$P \in (O, \vec{x})$	

ddl	Liaison	Schématisation spatiale	Schématisation plane	Caractéristique géométrique	Torseur cinématique $\{\mathcal{V}_{i/j}\}$	Torseur d'action transmissible $\{\mathcal{F}_{j \rightarrow i}\}$	Point d'expression
2	Sphérique à doigt			Centre O ; direction du doigt $\vec{u}_1$; au normale plan de la rainure $\vec{n}_2$	$\left\{ \begin{array}{c} \omega_x \\ \omega_y \\ 0 \end{array} \right\}_P$	$P = O$	$P = O$
3	Sphérique ou rotule			centre O	$\left\{ \begin{array}{c} \omega_x \\ \omega_y \\ \omega_z \end{array} \right\}_P$	$P = O$	$P = O$
3	Appui plan			normale $\vec{z}$	$\left\{ \begin{array}{c} 0 \\ 0 \\ \omega_z \end{array} \right\}_P$	$\forall P$	$\forall P$
4	Linéaire annulaire			centre O et direction $\vec{x}$	$\left\{ \begin{array}{c} \omega_x \\ \omega_y \\ \omega_z \end{array} \right\}_P$	$P \in (O, \vec{x})$	$P \in (O, \vec{x})$
4	Linéaire rectiligne			droite de contact $\Delta = (O, \vec{x})$; normale au plan $\vec{n} = \vec{z}$	$\left\{ \begin{array}{c} \omega_x \\ 0 \\ \omega_z \end{array} \right\}_P$	$P \in (O, \vec{x})$	$P \in (O, \vec{x})$
5	Ponctuelle			point O et normale $\vec{z}$	$\left\{ \begin{array}{c} \omega_x \\ \omega_y \\ \omega_z \end{array} \right\}_P$	$P = O$	$P = O$