

LIA 1 LA CARACTERISATION DES LIAISONS ENTRE PIECES MECANIQUES

1 LIAISONS ENTRE 2 SOLIDES

Une liaison entre 2 pièces d'un mécanisme présente **quatre caractères principaux** :

- Le **nombre de degrés de libertés** (ex fig. 1 et 2) ;
- La **permanence** de la liaison (ex fig. 3 et 4) ;
- La **déformabilité** de la liaison (ex fig. 5 et 6) ;
- L'existence ou non d'**organes associés** à la réalisation de la liaison (ex fig. 7 et 8).

Liaisons

The diagram illustrates eight types of mechanical joints, each with a corresponding empty oval for analysis:

- fig. 1: Two rectangular blocks joined by two pins.
- fig. 2: A cylindrical pin passing through two rectangular blocks.
- fig. 3: A cylindrical pin with a conical end fitting into a hole in a rectangular block.
- fig. 4: A cylindrical pin with a conical end fitting into a hole in a rectangular block, with a spring-like component.
- fig. 5: A cylindrical pin with a conical end fitting into a hole in a rectangular block, with a spring-like component.
- fig. 6: A cylindrical pin with a conical end fitting into a hole in a rectangular block, with a spring-like component.
- fig. 7: A cylindrical pin with a conical end fitting into a hole in a rectangular block, with a spring-like component.
- fig. 8: A cylindrical pin with a conical end fitting into a hole in a rectangular block, with a spring-like component.