

1-Généralité

L'usinage par enlèvement de matière est le moyen le plus fiable pour obtenir des pièces de précision, à partir de pièces moulées, extrudées ou forgées

Usiner c'est **modifier la forme d'une pièce**, brute ou partiellement élaborée, par l'action d'une **machine-outil**. Les nouvelles surfaces ainsi obtenues sont dites surfaces usinées.

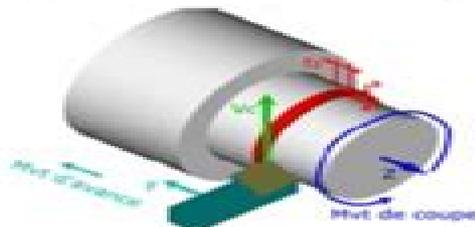
Les techniques d'usinage couramment utilisées sont les suivantes : **Le tournage, le fraisage et le perçage.**

2-Procédés d'usinage

Pour chaque procédé, la réalisation des différentes surfaces résulte de la conjugaison de deux mouvements. **Mouvement d'avance et mouvement de rotation**

2.1-Le tournage

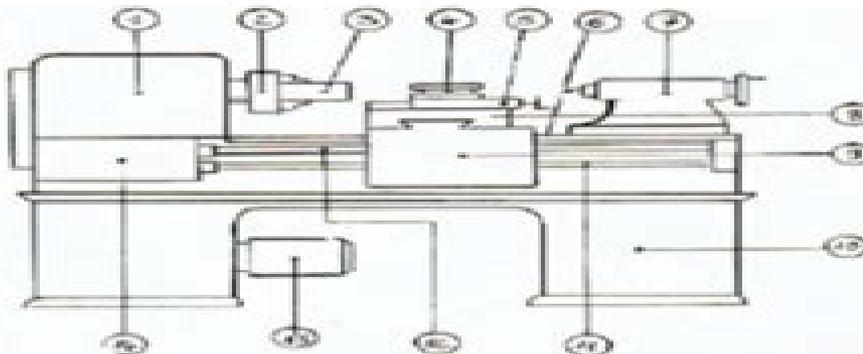
Ce procédé d'usinage permet d'obtenir des formes de révolution extérieures ou intérieures, à l'aide d'outil généralement à tranchant unique.



Le mouvement d'avance est donné à **l'outil**

Le mouvement de rotation (mouvement de coupe) est donné à **la pièce**

Machine de tournage : le tour



- 1 - La boîte des vitesses de la broche
- 2 - Le mandrin porte pièce
- 3 - La pièce
- 4 - La tourelle porte-outils
- 5 - Le chariot porte-outils
- 6 - Les glissières du tour
- 7 - La poupée mobile
- 8 - Le chariot transversal
- 9 - Le chariot longitudinal ou traînard
- 10 - Le bâti
- 11 - La barre de chariotage
- 12 - La vis mère
- 13 - Le moteur
- 14 - La boîte des avances

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