



Conception des **P**rocessus de **R**éalisation de **P**roduits

- Mécanique (2,5h/semaine)
- Technologie (2h/semaine)

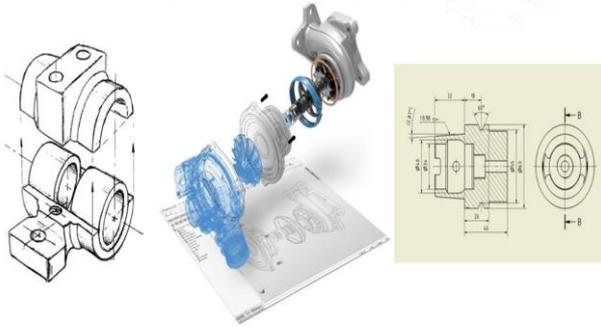


Savoir-faire à l'issue de la formation

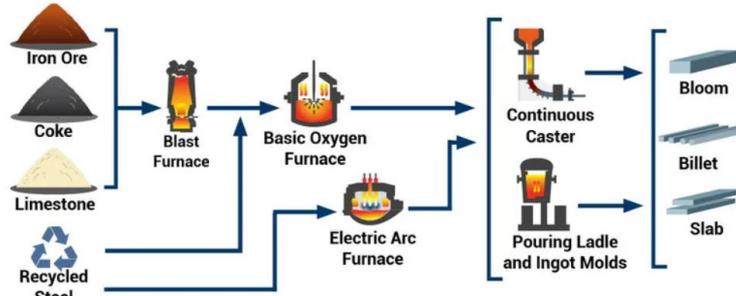
- **Fabrication** de pièces (notamment par usinage)
- Conception et réalisation des **montages d'usinage**
- **Contrôle** de la conformité des pièces



1^{ère} année BTS CPRP



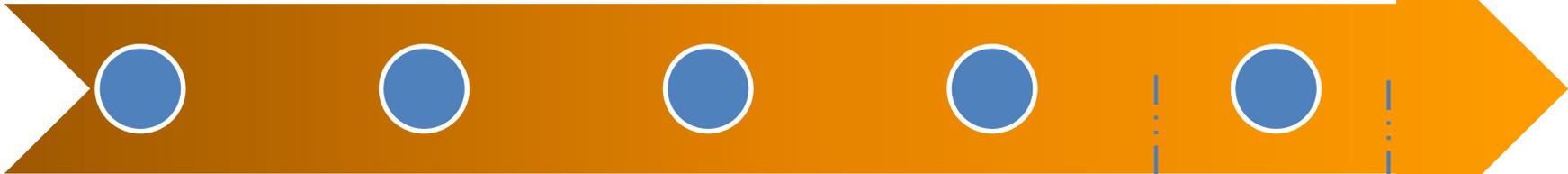
Cahier des charges



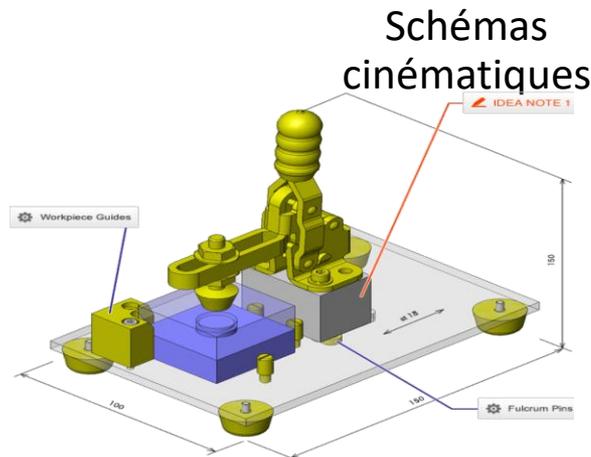
Procédés d'obtention des bruts

Désignation des matériaux

Designation	Composition chimique (%)										Métallurgie		Norme
	C	Mn	P	S	Si	Al	N	O	Cr	Mo	Ni	Temp. max. (°C)	
SA 500	0.25	0.35	0.015	0.008	0.25	0.005	0.005	0.005	0.005	0.005	0.005	500	20
SA 515	0.25	0.35	0.015	0.008	0.25	0.005	0.005	0.005	0.005	0.005	0.005	515	20
SA 530	0.25	0.35	0.015	0.008	0.25	0.005	0.005	0.005	0.005	0.005	0.005	530	20
SA 560	0.25	0.35	0.015	0.008	0.25	0.005	0.005	0.005	0.005	0.005	0.005	560	20
SA 590	0.25	0.35	0.015	0.008	0.25	0.005	0.005	0.005	0.005	0.005	0.005	590	20
SA 630	0.25	0.35	0.015	0.008	0.25	0.005	0.005	0.005	0.005	0.005	0.005	630	20
SA 660	0.25	0.35	0.015	0.008	0.25	0.005	0.005	0.005	0.005	0.005	0.005	660	20
SA 690	0.25	0.35	0.015	0.008	0.25	0.005	0.005	0.005	0.005	0.005	0.005	690	20
SA 730	0.25	0.35	0.015	0.008	0.25	0.005	0.005	0.005	0.005	0.005	0.005	730	20
SA 760	0.25	0.35	0.015	0.008	0.25	0.005	0.005	0.005	0.005	0.005	0.005	760	20
SA 800	0.25	0.35	0.015	0.008	0.25	0.005	0.005	0.005	0.005	0.005	0.005	800	20
SA 830	0.25	0.35	0.015	0.008	0.25	0.005	0.005	0.005	0.005	0.005	0.005	830	20
SA 860	0.25	0.35	0.015	0.008	0.25	0.005	0.005	0.005	0.005	0.005	0.005	860	20
SA 890	0.25	0.35	0.015	0.008	0.25	0.005	0.005	0.005	0.005	0.005	0.005	890	20
SA 920	0.25	0.35	0.015	0.008	0.25	0.005	0.005	0.005	0.005	0.005	0.005	920	20
SA 950	0.25	0.35	0.015	0.008	0.25	0.005	0.005	0.005	0.005	0.005	0.005	950	20
SA 980	0.25	0.35	0.015	0.008	0.25	0.005	0.005	0.005	0.005	0.005	0.005	980	20
SA 1020	0.25	0.35	0.015	0.008	0.25	0.005	0.005	0.005	0.005	0.005	0.005	1020	20
SA 1060	0.25	0.35	0.015	0.008	0.25	0.005	0.005	0.005	0.005	0.005	0.005	1060	20
SA 1100	0.25	0.35	0.015	0.008	0.25	0.005	0.005	0.005	0.005	0.005	0.005	1100	20
SA 1150	0.25	0.35	0.015	0.008	0.25	0.005	0.005	0.005	0.005	0.005	0.005	1150	20
SA 1200	0.25	0.35	0.015	0.008	0.25	0.005	0.005	0.005	0.005	0.005	0.005	1200	20
SA 1250	0.25	0.35	0.015	0.008	0.25	0.005	0.005	0.005	0.005	0.005	0.005	1250	20
SA 1300	0.25	0.35	0.015	0.008	0.25	0.005	0.005	0.005	0.005	0.005	0.005	1300	20
SA 1350	0.25	0.35	0.015	0.008	0.25	0.005	0.005	0.005	0.005	0.005	0.005	1350	20
SA 1400	0.25	0.35	0.015	0.008	0.25	0.005	0.005	0.005	0.005	0.005	0.005	1400	20
SA 1450	0.25	0.35	0.015	0.008	0.25	0.005	0.005	0.005	0.005	0.005	0.005	1450	20
SA 1500	0.25	0.35	0.015	0.008	0.25	0.005	0.005	0.005	0.005	0.005	0.005	1500	20
SA 1550	0.25	0.35	0.015	0.008	0.25	0.005	0.005	0.005	0.005	0.005	0.005	1550	20
SA 1600	0.25	0.35	0.015	0.008	0.25	0.005	0.005	0.005	0.005	0.005	0.005	1600	20
SA 1650	0.25	0.35	0.015	0.008	0.25	0.005	0.005	0.005	0.005	0.005	0.005	1650	20
SA 1700	0.25	0.35	0.015	0.008	0.25	0.005	0.005	0.005	0.005	0.005	0.005	1700	20
SA 1750	0.25	0.35	0.015	0.008	0.25	0.005	0.005	0.005	0.005	0.005	0.005	1750	20
SA 1800	0.25	0.35	0.015	0.008	0.25	0.005	0.005	0.005	0.005	0.005	0.005	1800	20
SA 1850	0.25	0.35	0.015	0.008	0.25	0.005	0.005	0.005	0.005	0.005	0.005	1850	20
SA 1900	0.25	0.35	0.015	0.008	0.25	0.005	0.005	0.005	0.005	0.005	0.005	1900	20
SA 1950	0.25	0.35	0.015	0.008	0.25	0.005	0.005	0.005	0.005	0.005	0.005	1950	20
SA 2000	0.25	0.35	0.015	0.008	0.25	0.005	0.005	0.005	0.005	0.005	0.005	2000	20



Mouvements et vitesses

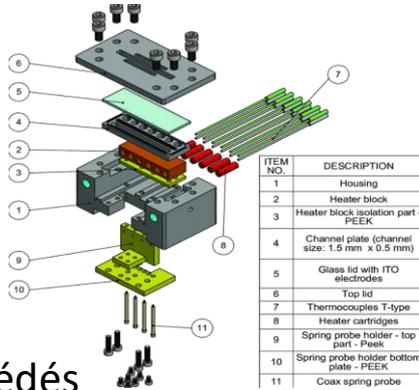


Schémas cinématiques



Stage en entreprise 8 semaines

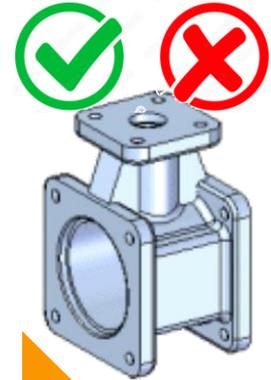
2ème année BTS CPRP



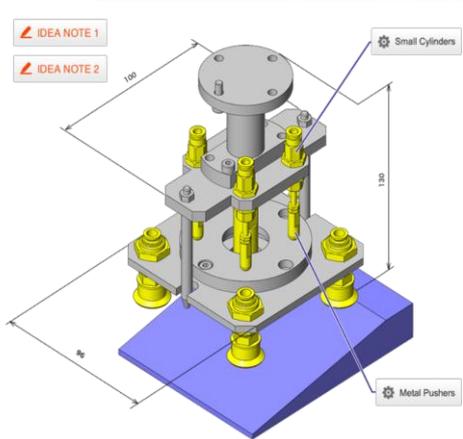
Procédés d'assemblage



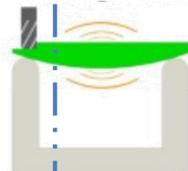
Procédés de finition



Contrôle de conformité



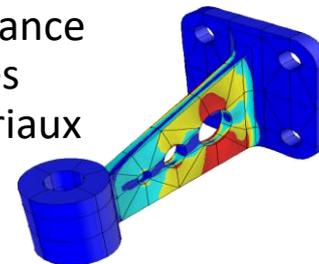
Efforts



Soutenance de projet

Soutenance de stage

Résistance des matériaux



Soutenance de projet

Projet collaboratif avec CPI

5 semaines

Projet Industriel

8 semaines

