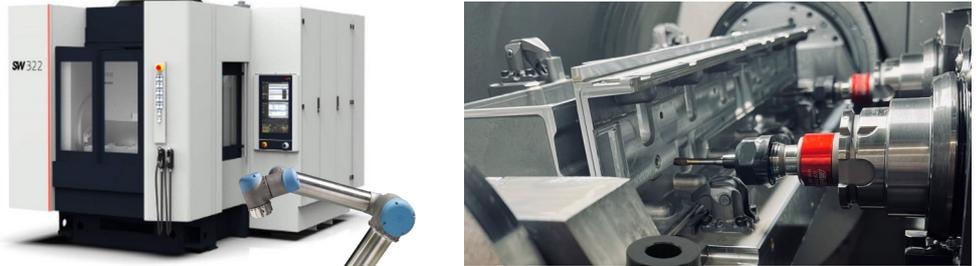


ZAC Les Terrasses de la Sarre  
F-57400 SARREBOURG  
+33 (0)3 8707 0077



## USINAGE en petites et grandes SÉRIES

Tournage et fraisage à commande numérique  
Spécialité : fraisage bi-broche avec chargement robotisé



### Fraisage séries

5x SW BA322 - Bi-broche  
3x MORI SEIKI NH4000DCG  
MORI SEIKI NH5000DCG  
MORI SEIKI NV4000DCG  
3x FANUC Robodril αT21i

### Tournage séries

CMZ TTL-66  
MORI SEIKI NZ 1500  
MORI SEIKI ZT 1500  
MORI SEIKI NL2500  
INDEX ABC  
3x TORNOS DT26

### Usinage unitaire

HERMLE C400 - 5 axes  
QUASER MV204  
MORI SEIKI NL2500

### Mesures

ZEISS Contura  
WENZEL Smart  
ZOLLER Venturion

### Chargement machines

8x Cellules robotisées  
Robots UR10-Universal Robots

### Dégraissage

PERO V4 Perchloréthylène  
3x PERO R1 Alcool modifié

### Logiciels

Solidworks  
Esprit  
CWork  
Calypso  
Q-Das

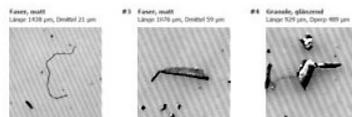
## USINAGE CNC UNITAIRE

Tournage et fraisage à commande numérique  
Conception - Assemblage



## DÉGRAISSAGE INDUSTRIEL ET NETTOYAGE PARTICULAIRE

Dégraissage avec solvants sous vide et ultrasons  
Nettoyage particulaire avec analyse de propreté selon ISO16232  
Sans huile et sans particules



Läufige Anzahl (Stückzahl)		Stückzahl nicht (Luminiert)				Summe ausgeführter Partikelmessungen		aktuelle Anzahl
anzahl je	Partikel	max.	Standard	max.	Partikel	Partikel		
Längeneinheit (µm)	anzahl	max.	Standard	max.	Partikel	Partikel		
100 - 500	0/200	0/200	0/200	0	0	0	0/200	
500 - 1000	0/200	0/200	0/200	0	0	0	0/200	
1000 - 1500	0/200	0/200	0/200	0	0	0	0/200	
1500 - 2000	0/200	0/200	0/200	0	0	0	0/200	
2000 - 3000	0/200	0/200	0/200	0	0	0	0/200	
3000 - 4000	0/200	0/200	0/200	0	0	0	0/200	
4000 - 5000	0/200	0/200	0/200	0	0	0	0/200	
5000 - 10000	0/200	0/200	0/200	0	0	0	0/200	
10000 - 15000	0/200	0/200	0/200	0	0	0	0/200	
15000 - 20000	0/200	0/200	0/200	0	0	0	0/200	
20000 - 30000	0/200	0/200	0/200	0	0	0	0/200	
30000 - 40000	0/200	0/200	0/200	0	0	0	0/200	
40000 - 50000	0/200	0/200	0/200	0	0	0	0/200	
50000 - 100000	0/200	0/200	0/200	0	0	0	0/200	
100000 - 150000	0/200	0/200	0/200	0	0	0	0/200	
150000 - 200000	0/200	0/200	0/200	0	0	0	0/200	
200000 - 300000	0/200	0/200	0/200	0	0	0	0/200	
300000 - 400000	0/200	0/200	0/200	0	0	0	0/200	
400000 - 500000	0/200	0/200	0/200	0	0	0	0/200	
500000 - 1000000	0/200	0/200	0/200	0	0	0	0/200	
1000000 - 1500000	0/200	0/200	0/200	0	0	0	0/200	
1500000 - 2000000	0/200	0/200	0/200	0	0	0	0/200	
2000000 - 3000000	0/200	0/200	0/200	0	0	0	0/200	
3000000 - 4000000	0/200	0/200	0/200	0	0	0	0/200	
4000000 - 5000000	0/200	0/200	0/200	0	0	0	0/200	
5000000 - 10000000	0/200	0/200	0/200	0	0	0	0/200	
10000000 - 15000000	0/200	0/200	0/200	0	0	0	0/200	
15000000 - 20000000	0/200	0/200	0/200	0	0	0	0/200	
20000000 - 30000000	0/200	0/200	0/200	0	0	0	0/200	
30000000 - 40000000	0/200	0/200	0/200	0	0	0	0/200	
40000000 - 50000000	0/200	0/200	0/200	0	0	0	0/200	
50000000 - 100000000	0/200	0/200	0/200	0	0	0	0/200	
100000000 - 150000000	0/200	0/200	0/200	0	0	0	0/200	
150000000 - 200000000	0/200	0/200	0/200	0	0	0	0/200	
200000000 - 300000000	0/200	0/200	0/200	0	0	0	0/200	
300000000 - 400000000	0/200	0/200	0/200	0	0	0	0/200	
400000000 - 500000000	0/200	0/200	0/200	0	0	0	0/200	
500000000 - 1000000000	0/200	0/200	0/200	0	0	0	0/200	
1000000000 - 1500000000	0/200	0/200	0/200	0	0	0	0/200	
1500000000 - 2000000000	0/200	0/200	0/200	0	0	0	0/200	
2000000000 - 3000000000	0/200	0/200	0/200	0	0	0	0/200	
3000000000 - 4000000000	0/200	0/200	0/200	0	0	0	0/200	
4000000000 - 5000000000	0/200	0/200	0/200	0	0	0	0/200	
5000000000 - 10000000000	0/200	0/200	0/200	0	0	0	0/200	
10000000000 - 15000000000	0/200	0/200	0/200	0	0	0	0/200	
15000000000 - 20000000000	0/200	0/200	0/200	0	0	0	0/200	
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30000000000 - 40000000000	0/200	0/200	0/200	0	0	0	0/200	
40000000000 - 50000000000	0/200	0/200	0/200	0	0	0	0/200	
50000000000 - 100000000000	0/200	0/200	0/200	0	0	0	0/200	
100000000000 - 150000000000	0/200	0/200	0/200	0	0	0	0/200	
150000000000 - 200000000000	0/200	0/200	0/200	0	0	0	0/200	
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300000000000 - 400000000000	0/200	0/200	0/200	0	0	0	0/200	
400000000000 - 500000000000	0/200	0/200	0/200	0	0	0	0/200	
500000000000 - 1000000000000	0/200	0/200	0/200	0	0	0	0/200	
1000000000000 - 1500000000000	0/200	0/200	0/200	0	0	0	0/200	
1500000000000 - 2000000000000	0/200	0/200	0/200	0	0	0	0/200	
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5000000000000 - 10000000000000	0/200	0/200	0/200	0	0	0	0/200	
10000000000000 - 15000000000000	0/200	0/200	0/200	0	0	0	0/200	
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100000000000000 - 150000000000000	0/200	0/200	0/200	0	0	0	0/200	
150000000000000 - 200000000000000	0/200	0/200	0/200	0	0	0	0/200	
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500000000000000 - 1000000000000000	0/200	0/200	0/200	0	0	0	0/200	
1000000000000000 - 1500000000000000	0/200	0/200	0/200	0	0	0	0/200	
1500000000000000 - 2000000000000000	0/200	0/200	0/200	0	0	0	0/200	
2000000000000000 - 3000000000000000	0/200	0/200	0/200	0	0	0	0/200	
3000000000000000 - 4000000000000000	0/200	0/200	0/200	0	0	0	0/200	
4000000000000000 - 5000000000000000	0/200	0/200	0/200	0	0	0	0/200	
5000000000000000 - 10000000000000000	0/200	0/200	0/200	0	0	0	0/200	
10000000000000000 - 15000000000000000	0/200	0/200	0/200	0	0	0	0/200	
15000000000000000 - 20000000000000000	0/200	0/200	0/200	0	0	0	0/200	
20000000000000000 - 30000000000000000	0/200	0/200	0/200	0	0	0	0/200	
30000000000000000 - 40000000000000000	0/200	0/200	0/200	0	0	0	0/200	
40000000000000000 - 50000000000000000	0/200	0/200	0/200	0	0	0	0/200	
50000000000000000 - 100000000000000000	0/200	0/200	0/200	0	0	0	0/200	
100000000000000000 - 150000000000000000	0/200	0/200	0/200	0	0	0	0/200	
150000000000000000 - 200000000000000000	0/200	0/200	0/200	0	0	0	0/200	
200000000000000000 - 300000000000000000	0/200	0/200	0/200	0	0	0	0/200	
300000000000000000 - 400000000000000000	0/200	0/200	0/200	0	0	0	0/200	
400000000000000000 - 500000000000000000	0/200	0/200	0/200	0	0	0	0/200	
500000000000000000 - 1000000000000000000	0/200	0/200	0/200	0	0	0	0/200	
1000000000000000000 - 1500000000000000000	0/200	0/200	0/200	0	0	0	0/200	
1500000000000000000 - 2000000000000000000	0/200	0/200	0/200	0	0	0	0/200	
2000000000000000000 - 3000000000000000000	0/200	0/200	0/200	0	0	0	0/200	
3000000000000000000 - 4000000000000000000	0/200	0/200	0/200	0	0	0	0/200	
4000000000000000000 - 5000000000000000000	0/200	0/200	0/200	0	0	0	0/200	
5000000000000000000 - 10000000000000000000	0/200	0/200	0/200	0	0	0	0/200	
10000000000000000000 - 15000000000000000000	0/200	0/200	0/200	0	0	0	0/200	
15000000000000000000 - 20000000000000000000	0/200	0/200	0/200	0	0	0	0/200	
20000000000000000000 - 30000000000000000000	0/200							