

bespoke.

**WE ARE
ENGINEERS
WITH PASSION
FOR DESIGN**



**We
Think**



**We
Design**



We

Experiment

① Planar Geometry based on circles



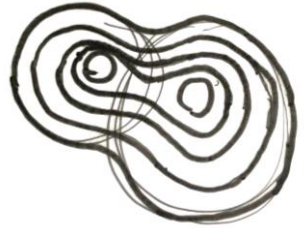
② Geometry center definition



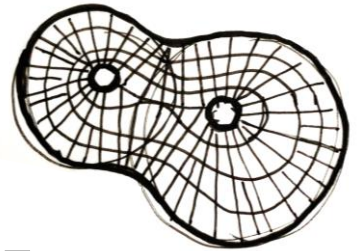
③ Radial Axis Definition



④ Concentric Structure Direction based on offset interpolation

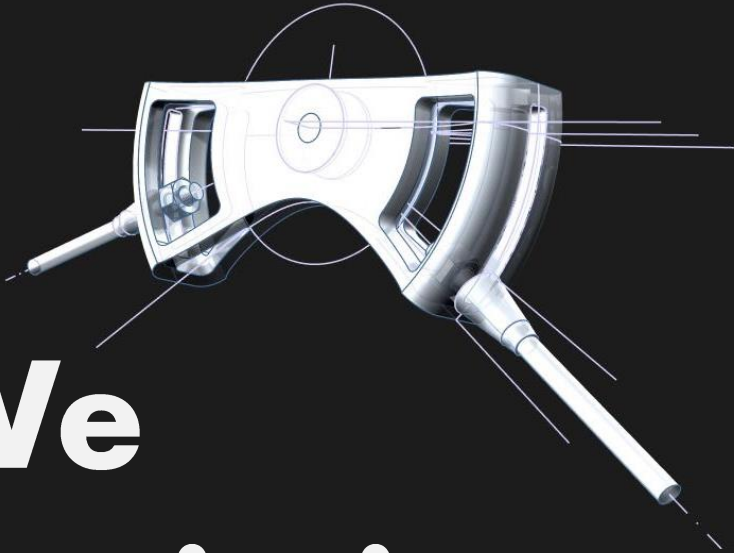
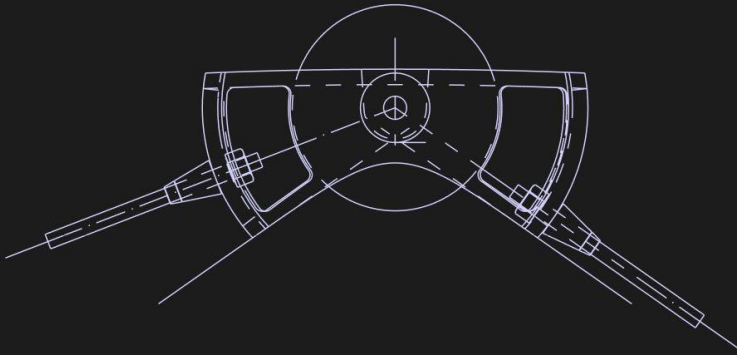


⑤ Final Structure Grid with Radial and Concentric Directions



We

Research



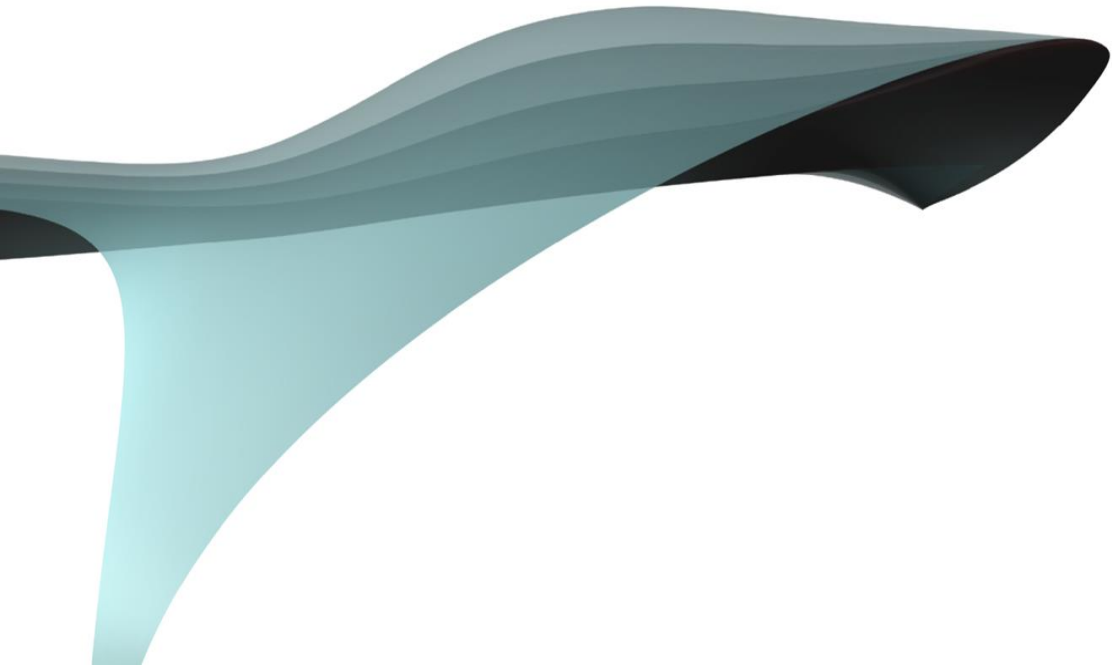
We

Optimize

**WE WORK WITH
ARCHITECTS
ARTISTS
FACTORIES,
WE PROVIDE
BESPOKE
ENGINEERING
SOLUTIONS**

Form-Finding

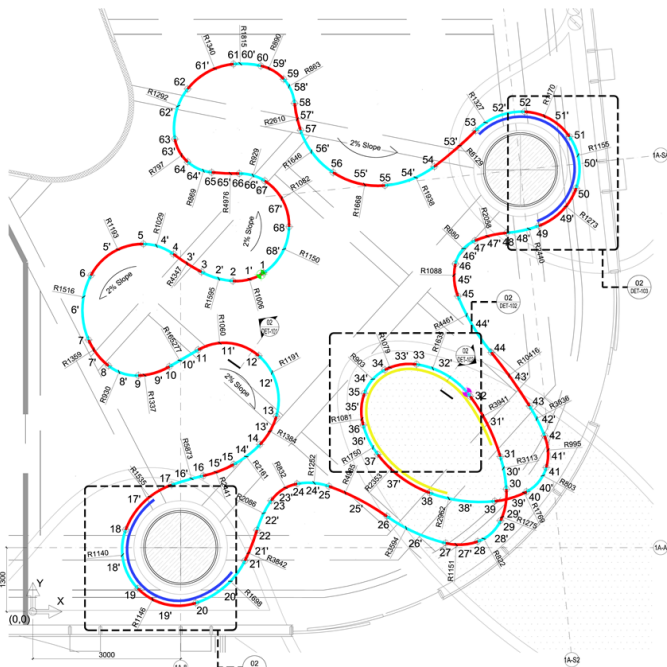
We like to start from concept stage to find the most efficient shape of a structure.



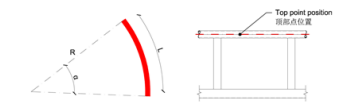
Geometry Optimization

We develop our own tools to rationalize geometry.

01 Future Lab Hanging Garden - Plan View 未来实验室飘浮花园平面布置图
Scale 1:500 (比例 1:500)



Curve length 弧长(Lmm)	Angle 角度(Degree)	Radius 半径(R mm)	中点 X坐标 (mm)	中点 Y坐标 (mm)	中点标高 (Top)(mm)		
1'	655	37	1,006	1	4,465	6,872	3,200
2'	650	34	3,065	2	5,062	6,700	3,262
3'	677	9	4,347	3	3,423	6,892	3,226
4'	666	37	1,029	4	2,862	7,244	3,213
5'	1,305	63	1,193	5	2,242	7,461	3,199
6'	1,005	53	1,515	6	1,178	6,822	3,173
7'	668	28	3,289	7	1,390	5,531	3,146
8'	654	40	990	8	1,534	4,989	3,133
9'	643	28	1,812	9	2,492	4,993	3,120
10'	676	0	168,272	10	2,721	4,072	3,106
11'	1,100	71	1,060	11	3,192	3,922	3,093
12'	1,104	65	1,191	12	4,505	5,102	3,087
13'	664	27	1,384	13	4,947	3,900	3,089
14'	671	18	2,163	14	4,631	3,192	3,075
15'	665	16	2,441	15	4,078	2,988	3,013
16'	648	7	3,451	16	4,448	2,764	2,998
17'	1,346	50	1,535	17	2,816	2,573	2,986
18'	1,364	65	1,163	18	1,883	1,601	2,960
19'	1,276	64	1,148	19	2,133	471	2,933
20'	670	10	3,842	20	4,304	1,033	2,900
21'	666	18	2,086	21	4,549	1,056	2,873
22'	646	44	892	22	4,837	2,353	2,855
23'	663	30	1,262	23	5,362	2,595	2,810
24'	1,189	15	4,985	24	4,621	2,542	2,797
25'	1,331	21	3,594	25	2,188	1,935	2,578
26'	663	35	1,161	26	6,262	1,391	2,453
27'	648	45	652	27	6,930	1,424	2,324
28'	661	30	1,275	28	6,094	1,444	2,261
29'	673	12	3,123	29	6,624	2,486	2,251
30'	1,171	20	3,941	30	6,492	3,145	2,223
31'	1,130	46	1,463	31	7,882	4,366	2,205
32'	667	35	1,079	32	7,788	5,017	2,276
33'	659	42	960	33	7,671	4,937	2,268
34'	661	35	1,081	34	6,420	4,429	2,485
35'	674	22	1,790	35	6,786	3,707	2,466
36'	1,111	32	2,673	36	7,000	2,648	2,468
37'	1,144	26	2,962	37	6,007	2,410	2,710
38'	678	22	1,769	38	9,379	2,434	2,703
39'	648	46	860	39	10,024	2,434	2,703
40'	678	39	1,060	40	10,413	2,122	2,943
41'	679	10	3,834	41	10,391	1,566	2,772
42'	1,189	15	4,985	42	10,095	1,172	2,790
43'	1,311	17	4,461	43	9,308	1,391	2,617
44'	668	35	1,088	44	8,631	6,400	2,810
45'	678	54	680	45	8,279	7,001	2,807
46'	669	19	2,098	46	8,974	7,326	2,879
47'	661	14	2,462	47	8,421	6,944	2,883
48'	1,130	50	1,273	48	10,275	7,838	2,897
49'	1,086	54	1,152	49	11,051	8,191	3,013
50'	1,081	53	1,170	50	10,896	6,937	2,941
51'	1,088	40	1,327	51	9,986	10,143	2,967
52'	1,114	8	1,107	52	9,990	9,704	2,905
53'	1,086	12	1,988	53	8,149	9,029	3,003
54'	1,105	18	1,495	54	7,486	8,646	3,009
55'	1,104	38	1,465	55	6,096	8,910	3,011
56'	1,103	50	1,123	56	4,413	8,767	3,013
57'	646	36	861	57	5,114	10,315	3,084
58'	661	39	860	58	5,965	10,365	3,085
59'	659	18	1,813	59	4,428	11,074	3,106
60'	1,087	46	1,340	60	4,071	11,110	3,117
61'	1,082	48	1,262	61	3,461	10,607	3,123
62'	541	39	797	62	2,882	9,589	3,142
63'	548	36	861	63	3,462	11,134	3,171
64'	501	6	4,976	64	3,650	8,912	3,184
65'	548	36	861	65	4,266	7,885	3,195
66'	1,102	38	1,081	66	4,709	8,741	3,206
67'	1,113	55	1,192	67	5,202	7,839	3,203



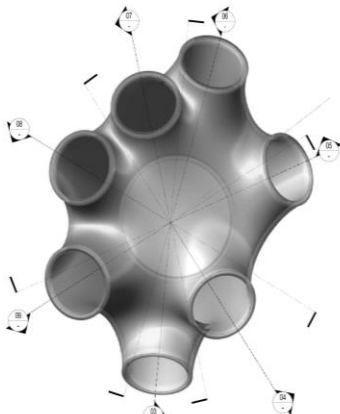
Refer to DET-102
参考节点 DET-102
Refer to DET-103
参考节点 DET-103

Highest Point Elevation (z=3250mm)
最高点标高(z=3250mm)
Lowest Point Elevation (z=2210mm)
最低点标高(z=2210mm)

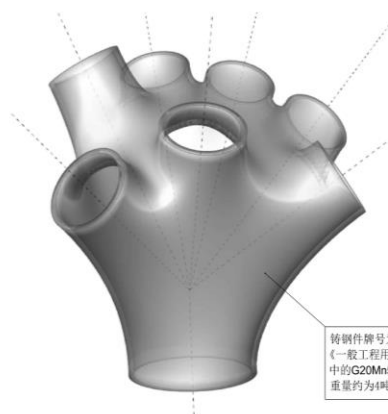
Structures as Art

We enjoy spending time on key details.

Top View Tree 1 Casted Steel Node 树柱1钢铸件顶视图
No Scale

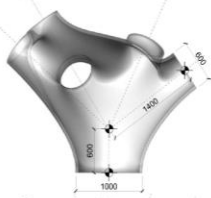


Perspective View Tree 1 Casted Steel Node 树柱1钢铸件透视图
No Scale



铸钢件牌号为地标DIN EN 10293
《一般工程用铸钢件》10293-2005
中的G20Mn5（对应国标牌号为ZG20Mn）
重量约为4吨

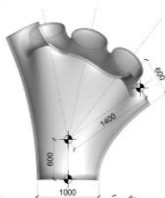
Section A 剖面A
No Scale



Section B 剖面B
No Scale



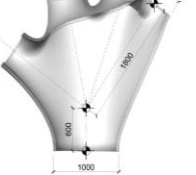
Section C 剖面C
No Scale



Section D 剖面D
No Scale



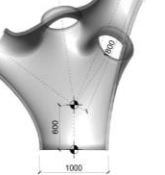
Section E 剖面E
No Scale



Section F 剖面F
No Scale



Section G 剖面G
No Scale



Note:
-Exact Geometry To Be Extracted From 3D Model.
-Contractors To Further Optimize According To Fabrication Practices.
说明:
-该节点几何布置取自三维模型。
-承包商需根据加工中的实际需要深化此铸件节点。

Complex geometries



We always keep in mind
fabrication process when
we develop solutions.

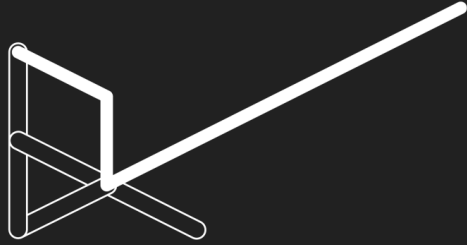


Light Weight Structures

**We like to push limits and
think outside the box.**



**Of
Course,
Computers
are doing all
the jobs, we
are just
telling them
what
to do.**



bespoke.

bespoke. , Creative Engineering Studio
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