

Data set SHIRTS

Instance	Number of different pieces	Total number of pieces	Vertices by piece (average)	Feasible orientations (degrees)	Plate width
SHITRS	8	99	6.63	0 and 180	40

PIECE 1	10	PIECE 6
QUANTITY	VERTICES (X,Y)	QUANTITY
8	0 0	15
NUMBER OF VERTICES	3 0	NUMBER OF VERTICES
8	3 -1	4
VERTICES (X,Y)	5 0	VERTICES (X,Y)
0 0	8 0	0 0
7 1	11 -1	4 0
7 5	12 4	4 1
0 7	11 8	0 1
-1 5	7 7	
-1 4	0 7	PIECE 7
-2 3		QUANTITY
-1 2	PIECE 4	15
	QUANTITY	NUMBER OF VERTICES
PIECE 2	15	4
QUANTITY	NUMBER OF VERTICES	VERTICES (X,Y)
8	5	0 0
NUMBER OF VERTICES	VERTICES (X,Y)	3 0
10	0 0	3 1
VERTICES (X,Y)	4 0	0 1
0 0	4 2	
11 0	3 3	PIECE 8
12 2	0 3	QUANTITY
11 3		15
11 5	PIECE 5	NUMBER OF VERTICES
10 6	QUANTITY	8
6 5	15	VERTICES (X,Y)
3 6	NUMBER OF VERTICES	0 0
0 5	4	8 0
-1 3	VERTICES (X,Y)	8 2
	0 0	6 2
PIECE 3	8 0	4 1
QUANTITY	7 1	3 1
8	1 1	2 2
NUMBER OF VERTICES		-1 2

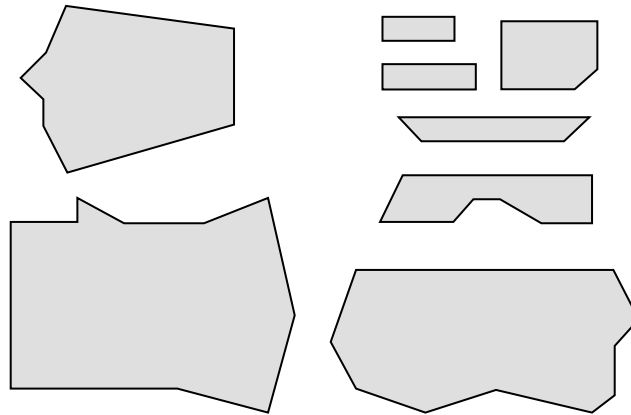


Figure 1: Data set: SHIRTS

References

Oliveira, J.F., Gomes, A.M. and Ferreira, J.S., A new constructive algorithm for nesting problems, *OR Spektrum* (2000) 22: 263-284.

Dowsland, K.A., Dowsland, W.B., Bennel, J.A. (1998), Jostling for position: Local improvement for irregular cutting patterns, *Journal of the Operational Research Society* 49:647-658.