

Decision Matrix: Get a Grip!

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Idea #1: Fixture involving a reverse mold of the clamp on one side, 8 dowel pins in each of the holes, and a screw to adjust to the length needed

Idea #2: Fixture involving an idle piece and one spring to adjust the moving side using bolts.

Idea #3: Fixture involving a circular moving part holding all features.

Idea #4: Fixtures they are currently using, which involves screwing the clamp into place with 4 screws but each size has a different fixture

	Cost	Complexity	Development Time	Safety	Company Standards	Reusability	Total
Idea #1	3	3	2	4	4	3	19
Idea #2	3	2	3	3	2	4	17
Idea #3	1	2	2	3	3	3	14
Idea #4	1	2	1	1	3	1	9

4	3	2	1
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Best

	WT	1	2	3	4
Easy to use	9	+	+	+	+
Easy to attach	7	+	+	+	+
Easy to detach	6	+	S	S	+
Not bend	4	+	+	-	+
Long life	2	+	+	+	+
Light weight	5	+	+	S	S
Unthreaded holes	8	+	-	-	-
Easy to repair	3	+	-	-	-
Cost	1	+	+	-	-
Size	5	+	+	-	S
TOTAL +		10	7	3	5
TOTAL -		0	2	5	3
OVERALL TOTAL		10	5	-2	2
WEIGHTED TOTAL		50	22	-3	16