

Technical Bulletin 56: Using Two Twin-Path® Slings Together

Requests to Slingmax for larger capacity Twin-Path Slings has increased drastically over the past few years. Some of these slings can not be fabricated due to the logistics of constructing such high capacity slings. Therefore, Slingmax will make the recommendation of either using one sling in an inverted basket, or to use to smaller capacity slings together. To ensure that there was no loss of efficiency, Slingmax conducted a test with two slings being used side by side.

Testing

Three TPXCF8500 x 10ft were constructed. Each sling was assembled on the same roundsling machine independently. The first TPXCF8500 was tested alone. This Twin-Path® Sling broke at 541,500 lb or at a 6.3:1 Design Factor.

Next, the remaining two TPXCF8500 were rigged into the test machine in a side by side configuration. These Slings ultimately failed at 1,058,000 lb or at a 6.2:1 Design Factor.

Table 1 – Test Results

Serial Number	Sling	Length	WLL (lbf)	Break (lbf)	Design Factor
C091510N	TPXCF8500	10ft	85,000	541,500	6.3:1
C091511N & C091512N	(2ea)TPXCF8500	10ft	170,000	1,058,000	6.2:1

Figure 1 – (2ea) TPXCF8500 Test Configuration



Conclusion

The results of the test showed that there is effectively no loss of efficiency when using two Twin-Path Slings together as long as the lengths are identical. As well, this proves that when utilizing the Twin-Path Roundsling machine with Rifled Cover® Technology, Twin-Path Slings can be constructed to identical lengths.