



Fibrous

Length Matters: A Case Study in shirring length

When length matters.

Labor-saving technology is created so that a process can be completed with minimal human assistance. Its most significant advantages in the industry are faster production and lower labor costs. Besides these two very obvious benefits, it also replaces or reduces hard, physical or monotonous work. Certainly, the same rules apply when it comes to sausage production, especially on a major scale.

Keep or reduce?

One way to become more efficient is to reduce manpower while keeping the output stable. Another is to increase the output while keeping the same labor. The following example, taken from field experience, is the result of wonderful teamwork between ViskoTeepak and a customer. It clearly shows how the output can be increased without incurring extra labor costs.

Fibrous, size 102, 120 m/strand

We made it possible for the customer to produce approximately 2,000 kg of sausages more per day. The method used was simply to increase the length of shirred fibrous casing per strand from 100 to 120 meters. By doing that the customer didn't have to additionally invest in human resources or equipment. Moreover, the customer gained added value because the strands could be loaded less frequently, resulting in less casing waste during loading.

Calculation example

To visualize this and provide a better understanding of the achievement in terms of output, we did some math (see example below). For specific earnings or savings, please, contact your ViskoTeepak representative.

Calculations for size/RSD: 102/111 8.7 kg/m

Casing length (m/strand)	Stuffing time (sec)	Strand change time (sec)	Total time (sec)	Difference (sec)	kg/strand	kg/sec	kg/hour	kg/8 hrs (efficient work time = 7 hrs)	kg/16 hrs (efficient work time = 14 hrs)	Increase (kg/8 hrs)	Increase (kg/16 hrs)
100	300	10	310		870	2.8065	10,103	70,723	141,445		
120	360	10	370	60	1,044	2.8216	10,158	71,105	142,210	382	765

One 8 hour shift per day		Two 8 hour shifts per day	
kg/month	kg/year	kg/month	kg/year
1,555,897 at 100 m/strand	18,670,761 at 100 m/strand	3,111,794 at 100 m/strand	37,341,523 at 100 m/strand
1,564,307 at 120 m/strand	18,771,684 at 120 m/strand	3,128,641 at 120 m/strand	37,543,369 at 120 m/strand
8,410 kg/month at 120 m/strand	100,923 more kg/year at 120 m/strand	16,821 kg/month at 120 m/strand	201,846 more kg/year at 120 m/strand

Conclusion

Nice cost-saving results can be achieved, especially if you run medium- or large-scale production. In some instances it can be done by matching the right casing with your application, while in other cases the key might be to increase the shirring length. At ViskoTeepak, we're always around to help. So, please don't hesitate to inquire about ways to increase your outputs. By working together as a team, we can help your business grow.