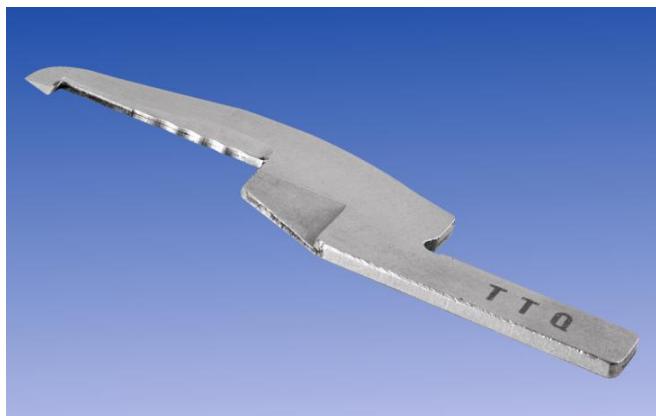


## TTQ (Total Tufting Quality) Cut Pile Looper

### I. By using TTQ Looper, you can expect to get better result of production report.

Below picture is wave (corrugated) edge, one of the TTQ options



II. Development of TTQ began in mid. 70s under the objectives as below :

- ① **To keep smooth cutting ability on any type of yarn for a long period of time**
- ② **To develop loopers that even enhance performance of tufting machine and durability of needles & knives**
- ③ **To realize enhanced productivity and quality of tufted carpet and better cost performance for tufting**

III. Through continuous progress for the last about 40 years, by today ideas and construction of TTQ have become recognized as standard of Cut Pile Looper for the world carpet industry (Cobble agreed with advantages of TTQ and became a licensee in 1998). TTQ has contributed to quality, production efficiency of cut pile tuft and to improving performance of tufting machine, thus brings total cost savings, with higher quality carpet.

IV. Ways to confirm a part of TTQ advantages (under normal running conditions) :

1. Better cut pile tufted carpet surface : By high cutting energy and accurate cutting edge. Less lint (yarn dust) will be found under tufting machine. With spun yarn the difference will be even clearer.
  2. Longer lifetime of needles & knives : By special ideas and materials. Needle scarf does not wear, so needles become usable for a long long period until the needle points become round. Also frequency of knife resharpening will be reduced, and you will enjoy stable quality and labor will be saved.
  3. Less maintenance and electricity consumption : By design concept of TTQ. Check the AMP meter on the main motor, and less electricity consumption will be confirmed, which means machine load is less and can reduce maintenance.
- V. Please experience machine's full tuning ability, and enjoy better carpet quality and productivity brought to you by TTQ.