

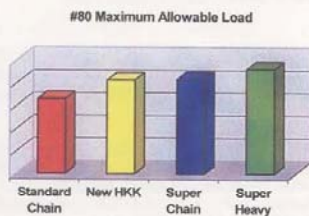
# HKK's **NEW** ROLLER CHAIN HAS UP TO

## 25% HIGHER WORKING LOADS

HKK's new high fatigue strength chain has up to **25% higher working loads** than conventional chain. This new working load is higher than most other manufacturers heavy chains and approaches their super chain working loads. As you have come to expect, this feature is **STANDARD** on HKK Chain. Please call for details.



HKK's NEW CHAIN		Standard Chain		Working Load Increase
Chain Size	New Max. Allowable Load (lbs)	Chain Size	Max. Allowable Load (lbs)	
HKK 35	560	35	480	15%
HKK 40	940	40	820	15%
HKK 50	1620	50	1410	15%
HKK 60	2470	60	1950	25%
HKK 80	4140	80	3300	25%
HKK 100	6360	100	5080	25%
HKK 120	8540	120	6830	25%
HKK 140	11340	140	9040	25%
HKK 160	14900	160	11910	25%
HKK 180	16600	180	13200	25%
HKK 200	18600	200	16100	15%
HKK 240	25400	240	22100	15%



**HKK'S NEW HIGH FATIGUE STRENGTH CHAINS HAVE WORKING LOADS HIGHER THAN OTHER MANUFACTURERS HEAVY CHAINS. THIS EXTRAORDINARY FEATURE WILL BE **STANDARD** on HKK Chain.**

## NEW GENERATION SOLUTIONS FOR AN OLD PROBLEM

On properly engineered and maintained chain drives, roller chain failure is most commonly caused by one of two factors: Wear (elongation) or Fatigue. Generally, roller chain quality and life is directly related to its resistance to wear and fatigue.

### Wear

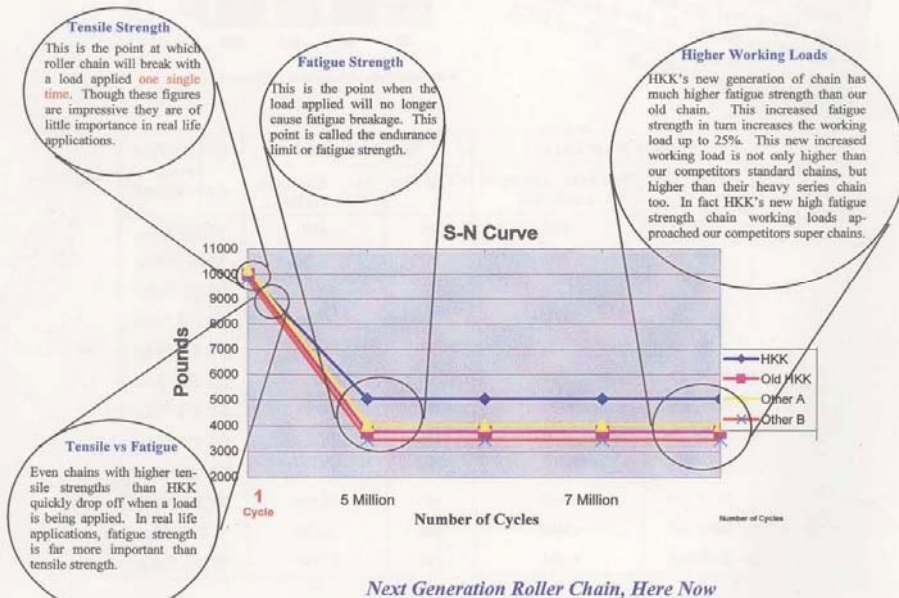
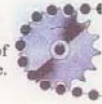
Webster definition: to impair, diminish, or decay by use of scraping or rubbing.

When used in roller chain terminology, elongation is the result of wear due to the erosion of metal in the bearing area of the chain caused by friction. The oscillation and contact of the moving chain parts will cause roller chain to elongate. Elongation causes improper chain and sprocket tooth contact requiring chain replacement.

### Fatigue

Webster definition: the tendency of material to break under repeated stress.

When used in roller chain terminology, fatigue is the endurance of a roller chain when a load is applied under recurring cycles. During a complete cycle, chain will go through a period of tension and slack. The higher the load applied, the less cycles the chain can endure. The point at which the load applied will no longer cause fatigue breakage, is called the endurance limit or fatigue strength.



### Next Generation Roller Chain, Here Now

#### Resistance to wear.

HKK Chain has been the leader in solid bushing and solid roller technology over the past 10 years. Our cold forged solid bushings and solid rollers are the single best resource available when combating the problem of chain elongation. A few of our competitors offer this advantage on their premium chains only, and many are not cold forged. This advanced feature has been standard on HKK Chain for over a decade.

#### Resistance to fatigue.

HKK Chain's newest advancement targets fatigue strength. This new generation of roller chain has ultra high fatigue strength. Our new manufacturing process greatly increases the fatigue strength of our chain. As fatigue strength increases, so does the working load. In fact, these new generation of chain working loads are 15% to 25% higher than our old chain. That makes HKK Chain's new working loads higher than most manufacture's heavy chains, and close to most manufacture's super chains. As with solid bushings and rollers, this increased strength will be standard on HKK Chain.