

# Bicycle Chain Breaking Load Test Results

Testing conducted by Wippermann

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## Breaking Load Results Summary

Chain model	Ranking
Connex 10S0	1
Connex 10S8	1
Shimano CN 6600	2
Campagnolo C10	3
Connex 10S1 *	4
Shimano CN 7801	5
Campagnolo C10 Ultra *	6
Shimano CN 5600	7
SRAM PC 1090	8
SRAM PC 1090 R *	9
SRAM PC 1070	10

*Notice Wippermann's hollow pin chain, the Connex 10S1, out performed other \* hollow pin chains.*

Chain model	Breaking Load	
	Min	Max
Connex 10S0	10,600N	10,800N
Connex 10S8	10,600N	10,700N
Shimano CN 6600	10,400N	10,550N
Campagnolo C10	10,350N	10,650N
Connex 10S1 *	10,300N	10,500N
Shimano CN 7801	10,000N	10,150N
Campagnolo C10 Ultra *	9,900N	10,050N
Shimano CN 5600	9,850N	9,900N
SRAM PC 1090	9,550N	9,700N
SRAM PC 1090 R *	9,250N	9,550N
SRAM PC 1070	9,100N	9,300N

*Sorted by minimum breaking load, highest to lowest.*

*\* hollow pin chains*

## Breaking Load Test Methodology

Five breaking load tests were conducted on each chain model tested. Then the chains were ranked by minimum breaking load.

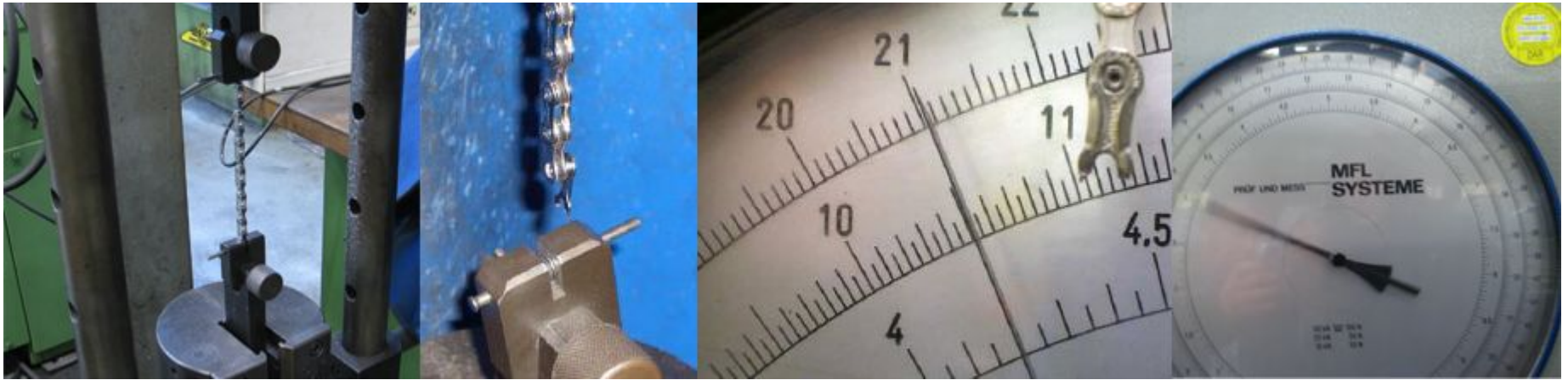
## Breaking Load of the Connex Link

The breaking load on the Connex link, 10-, 9- and 8-speed, is a minimum 2,248 pounds (10,000 Newtons).



*Connex Link*

## Breaking Load Test Equipment Photos



*Photos of the breaking load testing equipment.*

## Breaking Load Full Results Chart

10 speed chain breaking load test conducted August, 2007.

Chain model	Samples and Breaking Loads					Min	Max
	P1	P2	P3	P4	P5		
Connex 10S0	10,600N	10,700N	10,800N	10,600N	10,700N	10,600N	10,800N
Connex 10S8	10,700N	10,600N	10,600N	10,700N	10,700N	10,600N	10,700N
Shimano CN 6600	10,550N	10,500N	10,400N	10,500N	10,450N	10,400N	10,550N
Campagnolo C10	10,400N	10,350N	10,400N	10,650N	10,600N	10,350N	10,650N
Connex 10S1 *	10,300N	10,400N	10,300N	10,500N	10,300N	10,300N	10,500N
Shimano CN 7801	10,000N	10,100N	10,150N	10,100N	10,050N	10,000N	10,150N
Campagnolo C10 Ultra *	10,000N	9,900N	10,050N	9,950N	10,000N	9,900N	10,050N
Shimano CN 5600	9,850N	9,850N	9,900N	9,850N	9,900N	9,850N	9,900N
SRAM PC 1090	9,600N	9,650N	9,700N	9,600N	9,550N	9,550N	9,700N
SRAM PC 1090 R *	9,300N	9,300N	9,400N	9,550N	9,250N	9,250N	9,550N
SRAM PC 1070	9,200N	9,300,N	9,200N	9,250N	9,100N	9,100N	9,300N

*Results are sorted by **minimum** breaking load, highest to lowest.*

*\* Hollow Pin Chains*