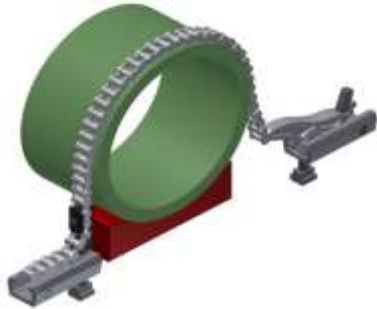


Chain Clamps

Application Examples:
Machining of cylindrical or bulky work pieces, such as valve bodies, flanges, pump housings, pistons etc.

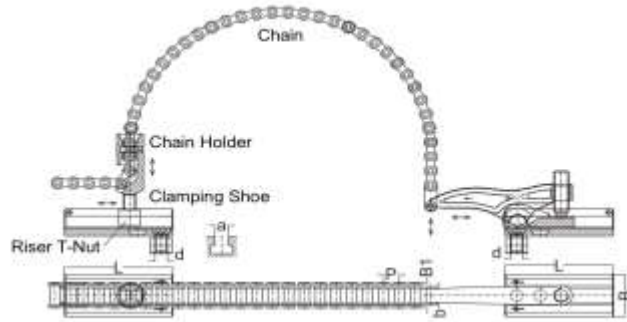
Clamping Force: **Up to 60 kN**

199-... Can be used parallel and at any angle to the T-Slot



- Chain/Chain Lock: Tempered Steel
- Clamping Shoe: Hardened alloy Steel
- Clamping Arm: Drop forged alloy Steel
- High Performance Roller-Chain

- Great clamping force through little torque
- Easily installation and easy adjustment through stepless adjustable MQ-Clamps
- Protects the T-Slot
- Chain links do not have to be taken out when clamping different sized parts
- Parts can be clamped parallel or at an angle to the T-Slot
- Great for repetitive work because chain does not have to be dismantled (stays on fixing elements)
- Can be easily fit to different sized machine tables, T-Slots or Tapped Holes
- Uniform clamping force distribution reduces workpiece distortion



Bolt Size (d)	Part Number	\$	Part Number	\$	Chain Pitch (P)	kN					Chain		Chain Lock		Clamping Unit Long		Clamping Shoe Short		Chain Holder		Allen Key for Chain Holder		Work Piece-Protection Plate		Riser Nut		Allen Key	
						b	B1	L	B	F1	Part No.	\$/m	Part No.	\$	Part Number	\$	Part Number	\$	Part No.	\$	Part No.	\$	Part No.	\$	Part No.	\$	Part No.	\$
Up to 12mm or 1/2"	199-019-0000-13		199-019-2500-13	1012.90	19.0	11.7	22.7	135	52	25	199-019-...	91.50	199-019-13-2	14.25	199-100-067-13	312.00	100-2-095-13	129.75	199-019-12	333.00	612-04	1.95	199-019-12-1	12.30	509-1224	13.50	610-08	8.40
	199-019-1000-13	884.80	199-019-3000-13	1054.90																								
	199-019-1500-13	926.80	199-019-4000-13	1141.00																								
	199-019-2000-13	970.20	199-019-5000-13	1226.40																								
Up to 16mm or 5/8"	199-019-0000-17		199-019-3000-17	1143.10	19.0	11.7	22.7	155	60	30	199-019-...	91.50	199-019-13-2	14.25	199-100-078-17	352.50	100-2-110-17	168.75	199-019-12	333.00	612-04	1.95	199-019-12-1	12.30	509-1628	17.25	610-10	10.50
	199-019-1000-17	973.00	199-019-4000-17	1229.20																								
	199-019-1500-17	1015.00	199-019-5000-17	1314.60																								
	199-019-2000-17	1058.40	199-019-6000-17	1400.00																								
Up to 20mm or 3/4"	199-025-0000-21				25.4	17.0	36.0	175	75	50	199-025-...	159.00	199-025-21-2	22.80	199-100-088-21	471.00	100-2-125-21	216.00	199-025-20	382.50	610-06	7.65	199-025-20-1	13.50	509-2034	39.00	610-12	13.50
	199-025-1000-21	1268.40	199-025-4000-21	1712.20																								
	199-025-2000-21	1416.80	199-025-5000-21	1860.60																								
	199-025-2500-21	1491.00	199-025-6000-21	2009.00																								
Up to 24mm or 1"	199-031-0000-26		199-031-4000-26	2287.60	31.7	19.6	43.0	205	88	60	199-031-...	234.00	199-031-25-2	39.45	199-100-102-26	612.00	100-2-150-26	289.50	199-031-24	463.50	610-08	8.40	199-031-24-1	14.70	509-2442	48.45	610-12	13.50
	199-031-1000-26	1628.20	199-031-5000-26	2506.00																								
	199-031-2000-26	1850.80	199-031-6000-26	2724.40																								
	199-031-3000-26	2070.60	199-031-7000-26	2942.80																								