

AEROSAFE

Worm Gear Operated Chain Hoist

A New Standard In Precise Load Control....

MORGAN Worm Gear Operated Chain Hoists are designed for precise close quarter lifting and lowering. It is the ideal tool to lift or lower a load just a fraction of an inch at a time.

Lift a load Less Than 1/128 of an Inch or Lower With Infinite Graduations

A single lifting increment requires approximately 90 degrees of worm shaft rotation which translates into 0.027 inch of lift for the 2,500 lb. model, 0.214 inch of lift for the 6,000 LB model and .007 inch of lift for the 12,000 LB model. For precise control, the load can be lowered in infinite graduations....as small as 1/640 of an inch or less if desired.

These hoists may be operated by a ratchet handle, speed handle, or may be power assisted. Operation is simple and convenient. To raise the load hook, rotate input worm shaft in a clockwise direction. To lower hook, rotate input worm shaft in a counterclockwise direction. It's that simple!

Corrosion Resistant Positive Acting Load Brake

Load Brake mechanism provides smooth lowering with hairline control to permit accurate spotting of load. It will automatically hold a load in any position. Parts are specially plated to provide a corrosion resistant load brake. Brake friction discs are metal impregnated to assure long wear life.

Frames

Frames are aluminum alloy and machined to hold the gear train rigidly in close alignment. With its close "face-room" design, the hoist can be rigged and operated close to a flat surface or lifting apparatus.

Gearing

Input worm gearing is lubricated with gear oil. Wide faced spur gearing will carry a full load at all times. Spur gears are of nickel moly alloy steel, have machine cut and hardened spur teeth accurately meshed for long life and are grease lubricated. Bearings all have self lubricating properties. Pocket wheel is made of forged steel, full machined and heat-treated.



Model	Capacity	Reeving	Lift Increment	Torque required in ft/lb to raise load	
				Average	Max
A4191	3,000 lb.	1	0.027	10	12
A4193	6,000 lb.	2	0.014	11	13
A4194	9,000 lb.	3	0.009	12	14
A4196	12,000 lb.	4	0.007	14	16
A4197	15,000 lb.	4	0.007	15	16

Suspensions

Top and bottom hooks are a readily available as well as any custom option that you may have. The hooks and eyes are heat treated forged steel of the "non-fracturing" type, which are slow opening when subjected to abuse. Hook latches are also standard. Hook block on single part chain hoists is forged steel and the lower hook block on multiple part chain hoists is an aluminum alloy casting. Load eyes or eye bolts are available. They will accommodate all bootstrap lifting equipment for any jet engine or other special lifting equipment.

Load Chain

Load chains are bright plated welded link type of special calibrated pitch and are heat treated alloy steel for surface hardness and wearability. The 3000 LB model is a single line unit. The 6,000, 9,000, 12,000 & 15,000 LB capacity hoists utilize the same basic gearing, but employ a special upper block and load eye or hook assembly and special lower blocks to accommodate multiple reeving of load chain (2, 3, or 4 parts of chain depending upon capacity).

Manufactured exclusively by

Morgan Aero Products

1450 80th Street SW, Everett, WA. 98203 USA

EVERETT (425) 438-9600

Fax (425) 438-1907

www.morganaero.com