

HYDRAULIC KAT® AUTOMATION CARRIAGE

The Gullco Hydraulic KAT® is a heavy duty, all position automation carriage. It is hydraulically powered and self propelled in both the forward and reverse direction at precisely controlled speeds. The Hydraulic KAT® runs along a special track using self aligning wheels to grip the top and bottom of the track enabling travel along any plane.

The boggy wheel assembly keeps the carriage snug to the track, while allowing it to be easily mounted and removed from the track at any point. The positive drive of the KAT® is obtained from either a pinion that engages with the rack of the rigid track, or a ball drive gear that engages with slots in the flexible track. These are driven by a low speed, high torque hydraulic motor and gear-head power unit assembly.

As the Hydraulic KAT® automation carriage is most often used in waterjet cutting applications, the KAT® lower housing and wheel housing assembly are hard anodized and the mating surfaces are dry lube filmed for maximum internal moisture resistance. All gears and metallic parts are plated for added durability and all carriages are equipped with a lower housing gear cover.

No Electrical Components - Ideal for Waterjet Cutting

ALL POSITION CUTTING AND WELDING CARRIAGE



SPECIFICATIONS

Carriage Weight: 23 lbs (10.4 kg)

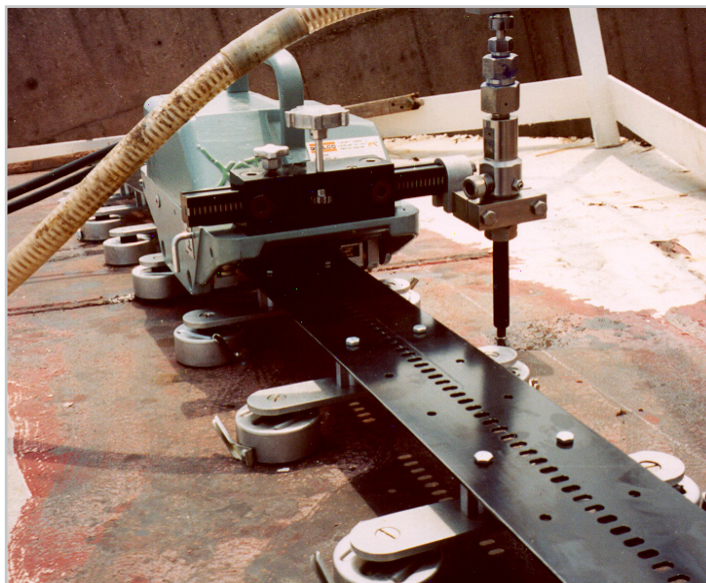
Vertical Load Capacity: 150 lbs (68 kg)

Hydraulic Supply: 1,000 psi (69 bars) recommended,
with a flow of 4 gpm (18.2 lpm)

Certification: C.E. Certification

MODEL	SPEED RANGE	TRACK USED
GK-190-H-018	0 - 4.9 in/min (0 - 12.4 cm/min)*	Rigid
GK-190-H-036	0.5 - 9.8 in/min (1.3 - 24.9 cm/min)*	Rigid
GK-190-H-090	1 - 26.5 in/min (0 - 19.1 cm/min)*	Rigid
GK-190-H-017	0 - 7.5 in/min (2.5 - 38.1 cm/min)*	Flexible
GK-190-H-035	1 - 15 in/min (2.5 - 38.1 cm/min)*	Flexible
GK-190-H-089	2 - 40.5 in/min (5.1 - 102.9 cm/min)*	Flexible

* The speed range given above is based on an oil pressure of 1,000 psi (69 Bars) with a flow of 4 gallons per minute (18.2 litres per minute). This is intended only as a guide and greater detail is provided in the operation manual.



Displacement cu. in./rev. (cu. cm./rev.)		.50 (8,2)
Speed (RPM)	Per GPM (3,8 LMP) Theo.	471
	@ Continuous Flow	2000
	@ Peak Flow	2500
Flow GPM (LPM)	Continuous	4 (16)
	Peak	5 (20)
Torque lb. in. (Nm)	Per 100 Δ P (Theo.)	7.8 (0,88)
	Continuous	57 (6,44)
	Peak	117 (13,2)
Pressure PSI (Bar)	Continuous Δ P	1000 (69)
	Peak Δ P	2000 (138)
Back Pressure PSI (Bar)	w/o external case drain	360 (24,8) cont. 1100 (76) Peak
	w/ external case drain	2000 (138) cont. 2500 (172) Peak
Weight lbs (kg)		3.5 (1,59)

ACCESSORIES

GK-181-027 - Cable Support Assembly - A raised cable/hose clamp that attaches to the KAT® carriage, with an adjustable swivel clamp, used to reduce cable/hose drag and interference.

GK-166-153 - High Speed Gear Assembly - An external gear assembly is available which can easily be fitted to any of the rigid track KAT® carriages to increase the available speed range by approximately 266.5%. This is not available for Flex KAT® carriages.

GK-166-169 - Low Speed Gear Assembly - A similar external gear assembly to that above, for lowering the speed range by approximately 42.6% is also available. This is not available for Flex KAT® carriages.

Other Accessories - The KAT® carriage is designed to incorporate rack boxes and rack box riser brackets, as well as links for towing idler carriages. See www.gullco.com for more details on these and other accessories.

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Δ PSI = True pressure difference between inlet and outlet ports

Maximum pressure at the motor inlet port of 2500 PSI (172 Bar) without regard to Δ PSI and/or back pressure ratings or combination thereof.

Continuous rating = Motor may be run continuously at these ratings

Peak operation 10% of every minute

Recommended Viscosity = 100 SUS (20 cSt) at operating temperature

Recommended Maximum System Operating Temperature = 180° F (82° C)

Recommended Filtration = 10 Micrometer

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE. ALL DIMENSIONS ARE NOMINAL

GULLCO

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