



ELEKTRADRIVE REFERENCE GUIDE

The Kessler elektraDRIVE motors are designed to be used in conjunction with either the ORACLE motion control unit or the Basic Controller. They come in a variety of speeds to meet any motion control setup need.

MOTOR SELECTION GUIDE

The elektraDRIVE motors come in several speeds. The guide below will assist in selecting the best motor for your application. The standard motors currently offered are the 100 Series, 200 Series and 500 Series. We also offer two specialty motors; the 50 Series and 1000 Series. The series number references the approximate speed ratio of the motor.

100 SERIES

The 100 Series motor is the suggested *normal use* motor for the Pocket Dolly, Philip Bloom Dolly, and Stealth. It is the suggested quicker, *live use* motor for the CineSlider. Speed ratio 100:1

200 SERIES

The 200 Series motor is the suggested *Time Lapse* (slow) motor for the Pocket Dolly, Philip Bloom Dolly and Stealth. It is the suggested *normal use* motor for the CineSlider. Speed ratio 264:1

500 SERIES

The 500 Series motor is the suggested *Time Lapse* (slow) motor for the CineSlider. It can also be used as a very slow Time Lapse motor for the Pocket Dolly. It has the most torque of the 3 standard motors. Speed ratio 516:1

50:1 (SPECIALTY MOTOR)

The 50 Series motor should be used when extremely fast movements are desired. This motor will move at approximately twice the speed of the 100 Series motor. Speed ratio 50:1

1000:1 (SPECIALTY MOTOR)

The 1000:1 motor would be used when ultra slow movements are desired. This motor would move at approximately half the speed of the 500 Series Motor. Speed ratio 1000:1

LIVE SPEED RANGE

	50	100	200	500	1000
POCKET DOLLY	0.8 - 64	1.6 - 135	4.3 - 264	8.7 - 615	17.4 - 1230
PHILIP BLOOM & STEALTH	0.6 - 48	1.2 - 101	3.2 - 197	6.5 - 460	13 - 919
CINESLIDER	0.43 - 34	0.9 - 72	2.3 - 141	4.6 - 328	9.3 - 657
SHUTTLE POD & SHUTTLE POD MINI	0.40 - 32	0.8 - 67	2.1 - 130	4.3 - 304	8.6 - 607

ALL SPEED RANGES ARE MEASURED IN SECONDS/FT.

APPROXIMATE DYNAMIC RANGE, FOR CONTINUOUS LIVE MOVEMENT AT THE HIGHEST AND LOWEST MOTOR SPEED SETTINGS.

INSTALLING THE MOTORS

POCKET DOLLY MOTOR INSTALL

The Pocket Dolly is compatible with our elektraDRIVE system. Drive motors can be mounted for motion control work for a broad range of applications.

1. Remove the hand crank from the Pocket Dolly by lifting it off of the drive shaft. Store in a safe location.
2. Using the motor mount plate and the two (2) included thumbscrews, mount the motor mount to the end of the Pocket Dolly.
3. Slide the aluminum belt drive wheel over the drive shaft.
4. Loosely insert the two 3/4" long thumb screws into the bottom of the elektraDRIVE motor.
5. Slide the motor into the motor mount slots and pull the belt over the aluminum drive wheel.
6. Pull the motor away from the drive belt.
7. Tighten the screws on the bottom of the elektraDRIVE to hold motor in place with tension on drive belt.
8. Connect your motion control unit such as the Basic Controller or ORACLE.

NOTE: Be sure to disengage the Pocket Dolly brake (if installed) before using the elektraDRIVE motor.

PHILIP BLOOM / STEALTH DOLLY MOTOR INSTALL

The Philip Bloom Pocket Dolly and Stealth are compatible with our elektraDRIVE system. Drive motors can be mounted for motion control work for a broad range of applications.

1. Remove the plastic knob from the tension control and set aside.
2. Remove the aluminum plate being careful not to lose the plastic washer in the top. Store this in a safe place. You will not need it for the motion control setup. Leave the spring on the drive shaft.
3. Slide the aluminum motor mount over the drive shaft hub and tighten the black ratchet screw on the side.
4. Slide the elektraDRIVE belt wheel over the drive shaft and replace the plastic knob removed in Step 1.
5. Loosely insert the two (2) long, silver thumb screws into the bottom of the elektraDRIVE motor of choice.
6. Slide the motor assembly onto the motor mount and pull the belt over the belt wheel.
7. Apply tension to the elektraDRIVE motor so the drive belt does not have any slack. Tighten the two (2) thumbscrews to secure the motor.
8. Connect your motion control unit such as the Basic Controller or ORACLE.

CINESLIDER MOTOR INSTALL

The CineSlider is compatible with our elektraDRIVE system. Drive motors can be mounted for motion control work for a broad range of applications.

1. Remove the plastic knob from the drag control and set aside.
2. Remove the aluminum plate being careful not to lose the plastic washer in the top. Store this in a safe place. You will not need it for the motion control setup. Leave the spring on the drive shaft.
3. Slide the aluminum motor mount over the drive shaft hub and tighten the black ratchet screw on the side.
4. Slide the elektraDRIVE belt wheel over the drive shaft and replace the plastic knob removed in Step 1.
5. Loosely insert the two (2) black thumb screws into the bottom of the elektraDRIVE motor of choice.
6. Slide the motor assembly onto the motor mount and pull the belt over the belt wheel.
7. Apply tension to the elektraDRIVE motor so the drive belt does not have any slack. Tighten the two (2) thumbscrews to secure the motor.
8. Connect your motion control unit such as the Basic Controller or ORACLE.

SHUTTLE POD BELT INSTALL

The optional drive belt kit allows the Shuttle Pod to utilize the ElektraDRIVE motor for motorized motion control.

1. Locate the drive belt, two end clamps, mounting plate/belt pulley, and two (2) 3/4" fine thread thumb screws.
2. Insert the belt into the mounting plate/belt pulley.
3. Using the 3/4" fine thread thumb screws, attach the mounting plate/belt pulley to the corresponding holes on top of the Shuttle Pod Carriage. Keep the track to the inside of the Shuttle Pod track.
4. Install a clamp on one end of the Shuttle Pod track. The tightening knob should be on the bottom and the track should be on the inside of the clamp.
5. Loosen the belt gripper on top of the clamp. Insert the drive belt and tighten.
6. Repeat the process on the opposite end of the track. Pull the belt tight before tightening the belt gripper.
7. Once the belt is installed, you can loosen one of the clamps on the track and slide it as necessary to adjust belt tension.

SHUTTLE POD MOTOR INSTALL

The ElektraDRIVE motor is attached to the mounting plate / belt pulley. The motor is powered via one of the Kessler Control units such as the ORACLE.

1. Locate two (2) 1/2" fine thread thumb screws.
2. Loosely insert the screws into the ElektraDRIVE motor
3. Slide the motor into the mounting plate.
4. Pull the motor belt over the mounting plate's pulley and then left the motor up to create tension on belt.
5. Tighten the two (2) thumbs screws to secure the motor in place.