

ARROW

ARROW DEVELOPMENT CO.

243 MOFFETT BOULEVARD, MOUNTAIN VIEW, CALIF. • YORKSHIRE 7-3334



ARROW ANTIQUE CARS

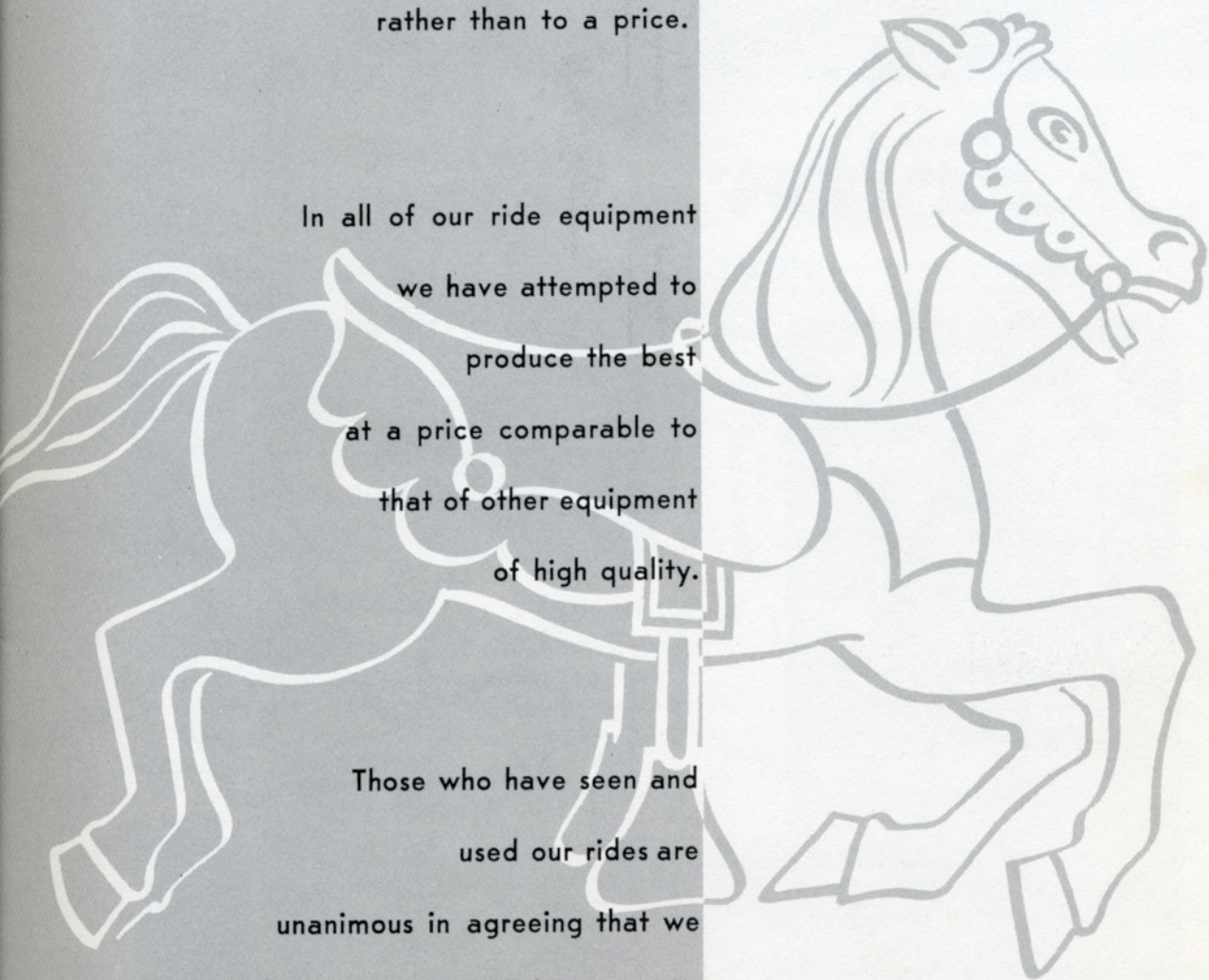
Authentic 3/5 scale models of 1906 Maxwell and 1910 Ford are available. Two styles: gasoline powered for freeway rides, or 24 volt electric tracked auto. This is the ride that attracted over 220,000 riders (60% adults) at Buena Park between Memorial Day and Labor Day, 1958. There are six Arrow cars on the Buena Park ride. Both Maxwell and Ford models have molded fiberglass fenders and bodies are fully sprung and use Timken bearings. Seats are foam rubber upholstered with best quality naugahyde. Trim details are authentic and beautiful. Gasoline powered cars are controlled by one pedal—stop or go—and are easily handled by people from 8 to 80. Engine is Koehler K90—4 hp; differential is type used in standard small automobiles. If you are interested in these scale model antique cars, please contact us for more complete information.

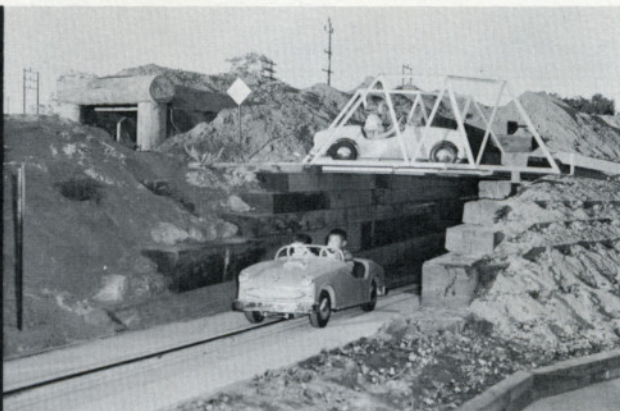
It has been the aim of the Arrow Development Company since its inception to build merchandise to a standard of quality rather than to a price.

FOREWORD

In all of our ride equipment we have attempted to produce the best at a price comparable to that of other equipment of high quality.

Those who have seen and used our rides are unanimous in agreeing that we have achieved this aim. It is our hope that the following pages may convey the same message to you.



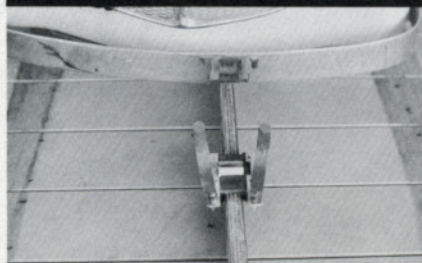


Arrow *tracked auto ride* now in use from coast-to-coast

ADULT SIZE CARS



REVOLUTIONARY ELECTRIC PICKUP



No greasy lubricants. No wires to break. Dry track and long lasting shoes reduce arcing and upkeep to a minimum.

Partial List

Elitch Gardens, Denver	Shamrock Shows,
Disneyland, Anaheim	Cleburne, Texas
Steeple Chase Park,	Gold Coast Shows,
Atlantic City	Oakland
Woodland Park, Seattle	Barrie Enterprises,
Peppermint Parks,	Chicago
Houston	Playtown, Palo Alto
Suker, Los Angeles	Wards, Coney Island
Nu-Pike, Long Beach	Coney Island, Cincinnati

Here's real fun for the new generation and the figures prove it! Arrow single stop load means four times the capacity of a flat circular ride.

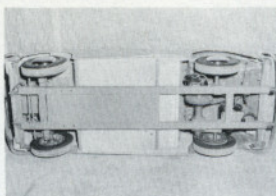
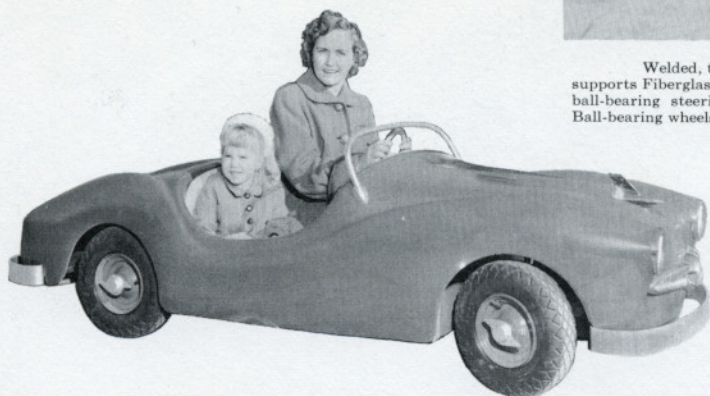
Top construction and details by the manufacturer associated in building of Disneyland's outstanding rides. Quality means less down time and long earning life. Check on the Arrow Tracked Auto Ride today.

*Safe 24 volt power complies
with national electrical code*

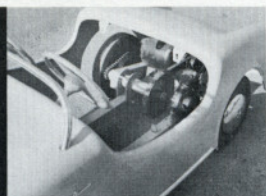
Permanent AND Portable Installations

Here is the BIG new earner in both the park and carnival field. See other side for more details.





Welded, tubular frame supports Fibreglas body. Heavy ball-bearing steering knuckles. Ball-bearing wheels.



Removable seat allows easy access to drive unit for servicing. Sealed bearings and heavy-duty construction reduces maintenance to a minimum.

- Racy sports body in Fibreglas with permanent colors.
- Two car sizes—Adult and Junior.
- All exposed metal heavily chromed.
- Headlights, tail-lights, horn—really work!
- Safe low voltage current—no batteries, no engines—just plug into your 220 volt supply.

PERMANENT INSTALLATIONS



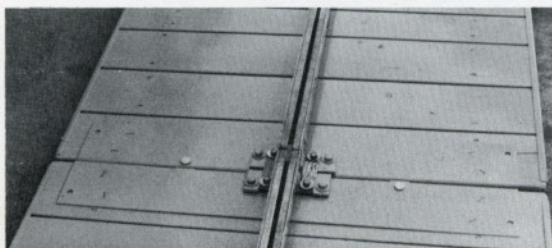
No maintenance here. Solid concrete track. Clean and dry. A real earning investment.

Here's a track layout that is actually in use—two cross-overs . . . plenty of room for the imaginative touch. Arrow assists you with track layout plans.



PORTABLE INSTALLATIONS

Portable units have a roadbed of finest Douglas fir with end locks that assure a sturdy joint. Straight and curved sections allow interesting layouts like this one—which is now in use.



Portable roadbed is solid and sound. Neoprene wheels in pickup unit guide cars on track rail.



End lock connection is simple, easy to handle. Best low loss connector.



Arrow train at Frontier City attracts a big crowd every time she chugs out of the station.

Ring the bell! Blow the
whistle! You'll have the
customers standing in line for Arrow's new
19th Century Train. It's a jewel of authenticity
which the most avid RR bug will admire. Colors
are rich dark green, red and black with lavish
use of antique gold scroll decoration and solid
brass stack collar, steam chest cylinder
ends, bell, whistle, etc.

ARROW 19th CENTURY TRAIN

30" Gauge For Safety and Stability

LOCOMOTIVE: Chassis and cab are welded steel construction with steel rivets for real old-time appearance. The cab has room for extra passenger and the engineer. All controls are located at the engineer's position. The control lines are equipped with Qwik disconnect couplers to facilitate uncoupling train and locomotive. Driver wheels have hardened rims for long life and are articulated on Timken bearings for safety and maximum stability on curves. Driver side rods run on anti-friction bearings. All axles are heat-treated alloy steel. Steam chest and steam cylinder rods are equipped with Oilite bushings and valve linkage actuated for realistic performance.

LENGTH 10 FT. 6 IN.

CAB HEIGHT 6 FT.

WHEEL DIAMETER 24 IN.

WIDTH 4 FT.

STACK HEIGHT 7 FT.

GAUGE 30 IN.

COACHES: Coaches are of two types, 1) mine train style as illustrated in large photo on left page, 2) open trolley style with seats facing forward and open on both sides. Seats are 48" wide, accommodating 3 large adults or 4 children. Framing is constructed of die-formed assembly welded steel sections. Life time internal expanded air operated brakes on all coaches. High grade steel hitches and heat-treated alloy steel wheels assure long life and maximum safety. Springs articulated for smooth riding and roadability. Upholstery is finest grade Naugahyde with air foam padding. Coaches are available in any color combination with attractive striping and lettering to suit individual taste.

LENGTH 8 FT.

WHEEL DIAMETER 12 IN.

WIDTH 4 FT.

TENDER - POWER DRIVE UNIT: Simulated coal car contains 48 HP Ford Industrial Engine. Automatic transmission with torque converter gives "steam" type performance. Standard automotive parts used wherever possible. The engine is equipped with oil and air filters, voltage regulators, self-unloading air compressor and air gauge. Panels remove for easy access to engine, and dummy tool box lifts up for servicing final drive assembly and brake cylinder. Brakes are air operated hydraulics. Wheels are the finest heat-treated alloy steel.

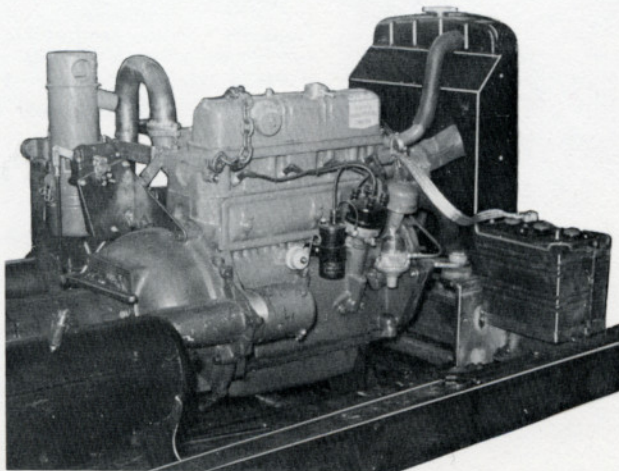
LENGTH 7 FT.

WHEEL DIAMETER 12 IN.

WIDTH 4 FT.

TRAIN CAPACITY 8 COACHES

(with proper ballast)



ARROW MINIATURE STREAMLINER



The beautiful, authentic appearance of the Miniature Streamliner and its many sturdy structural features combine to make another Arrow amusement ride noted for minimum upkeep and high return.

DESCRIPTION

Drive • Gasoline engine with electric starting and automatic choke. Fluid drive eliminates clutch or gear shifting and makes operation extremely simple. Reverse gear provided. All controls mounted for ease of operation.

Lighting • Powerful sealed beam headlight. Illuminated rear, clearance and number boxes.

Finish • Finished in best grade industrial synthetic enamels over zinc chromate priming. An automatic type finish that will retain its lustre for years. Heavy plexiglas windows in engine and cars.

Dimensions • Height 35 inches. Width 36 inches. Engine length 13'3". Coach length 15'10". Observation car 17'7". Train trucks require 24-inch gauge track.

Equipment • Necessary hand tools and grease gun.

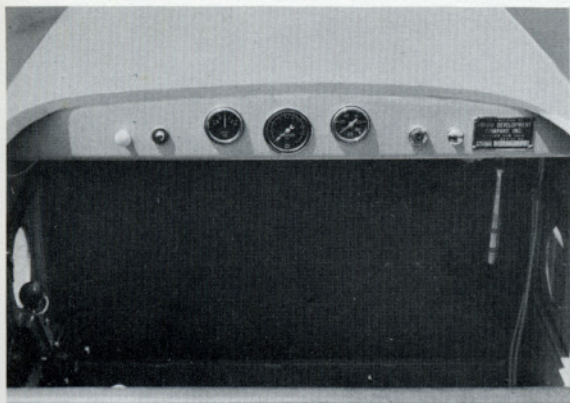
Capacity • Wide, comfortable seats will accommodate two adults or three children each. Total capacity of three-car train, 36 adults or 54 children.

Construction • Formed steel bodies on welded steel chassis make this one of the sturdiest trains built. Steel fabricated trucks articulated to assure rail hugging. Heat-treated alloy steel wheels are finest obtainable assuring extra long wear.

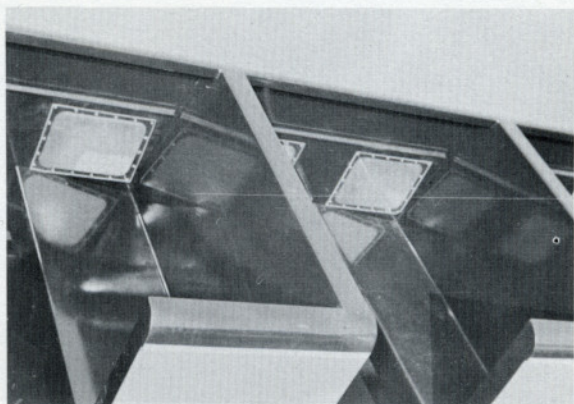
Bearings • Ball bearings throughout in running gear. Ball bearing truck pivots.

Brakes • Air brakes on every wheel of entire train insure smooth stopping for normal use or quick, positive stops when needed. Large area brake shoes lined with best grade friction lining for long wear. No adjustment needed for life of lining.

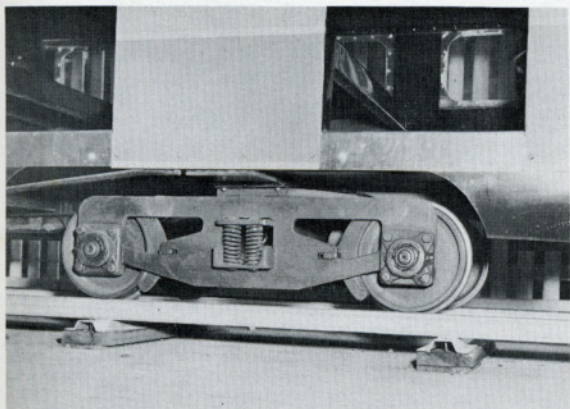
These features make your
ARROW MINIATURE STREAMLINER
a profitable investment.



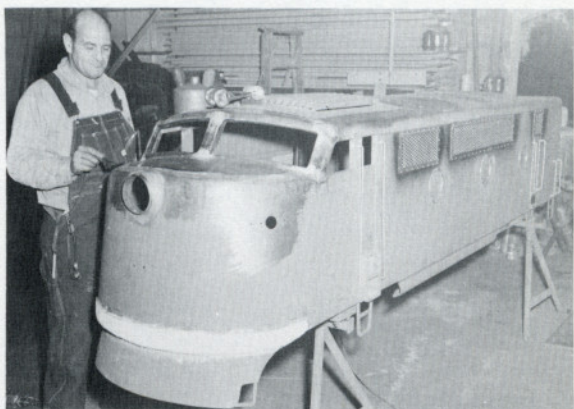
Ease of Operation. Electric starting and fluid drive make it one of the easiest trains to handle. Anyone can drive it. No complicated adjustments necessary to maintain and operate train.



Large Capacity. Wide seats accommodate 2 adults or 3 children comfortably. Total seating—36 adults or 54 children—without crowding.



Air brakes and wheels. Anti-friction bearing wheel journals throughout. Wheels are heat-treated alloy steel for longer wear. Air brakes on every wheel assures quick stopping.



Strong durable steel bodies. All steel car bodies on sturdy welded steel chassis. Lightweight and durable.

Air Brakes on All Cars

Heavy Plexiglas Windows Throughout

Powerful Sealed Beam Headlight

Running Lights on Locomotive and Observation Car

Authentic Sounding Horn

Extreme Ease of Mechanical Servicing

ADULT AND KIDDIE MERRY-GO-ROUNDS

Center of attraction on any lot or midway is the Arrow Merry-go-round with its bright, beautiful colors and handsome design.



Gleaming chrome, vari-colored fluorescents, beautifully finished horses—this Arrow Merry-go-round is a magnet for business.

DESCRIPTION

Construction • High grade steel used in all structural members. Sweeps, spreaders and sills of specially press formed steel designed for strength and lightweight. Fittings such as eccentrics bearing housings and horse pipe hangers of cast steel securely welded in place. Platforms of high grade seasoned lumber.

Bearings • Better bearings are a special feature of Arrow equipment. Timken tapered roller main bearing, hardened and ground roller bearing in sweeps hub. All eccentrics bearings are replaceable oilite (oil impregnated metal) inserts in machined steel housings. All bearings engineered for many times the load they will carry in order to insure longer life and greater safety. Alemite fittings for ease of lubrication.

Drive • 3 hp, 3 phase, 220 volt, 60 cycle motor standard equipment on all Merry-go-rounds except on Kiddie Merry-go-round which has 1 hp, single phase. Single phase electric or gasoline motor optional at higher cost. Integral drive unit consists of enclosed gear box with hardened helical gears and motor complete with fluid

drive and automatic electric brake giving a smoothness and compactness never previously obtained. Push button starting. Controls mounted inside machine as standard equipment. Machine may be operated by remote control if desired at additional cost.

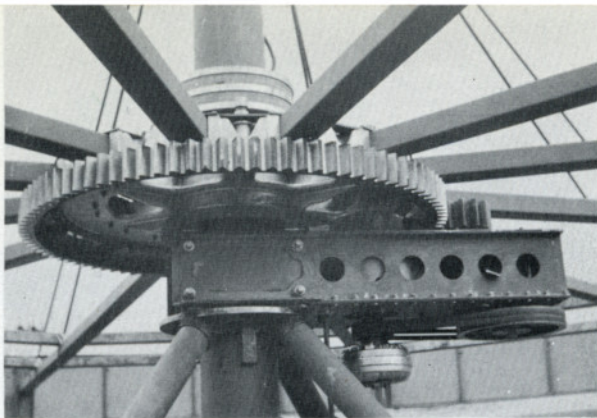
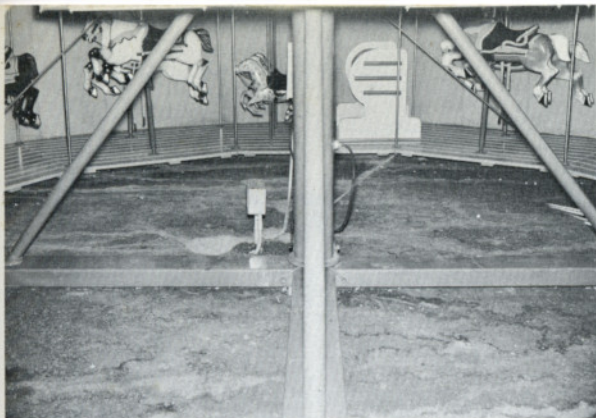
Lighting • Fluorescent lighting in various colors gives brilliant lighting and adds color and flash to the trim.

Safety • Arrow features safety step stirrups as shown in accessories.

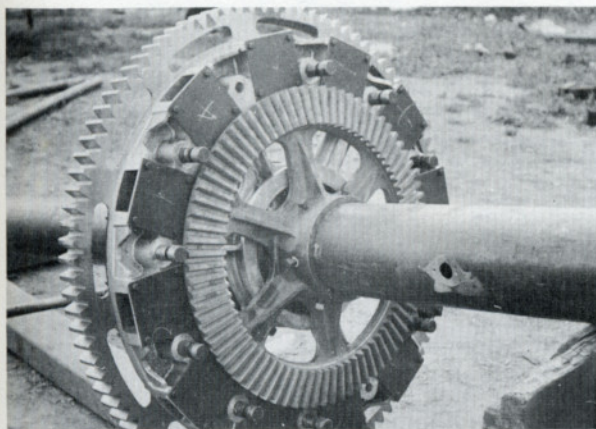
Finishes • Arrow enduring finishes cut your maintenance costs. First grade industrial synthetic enamels over properly prepared surfaces. Crestings trimmed with stainless steel moldings for permanent lustre. Platform rods and horse pipes covered with chrome plated tubing.

Portability • Extremely easy to set up and take down. Lightweight metal structural members retain original factory fit. All machines set up, fitted and test run before shipping.

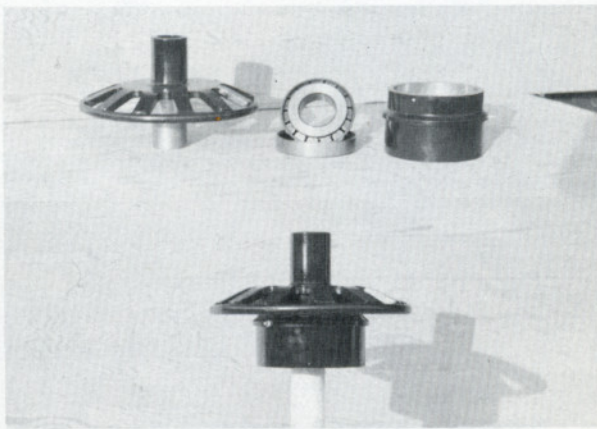
Equipment • Tent top and sidewalls and necessary hand tools and grease gun.



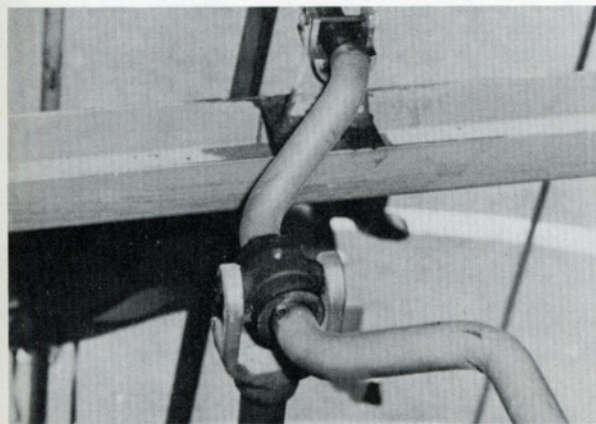
Where is the drive unit? Drive unit complete with automatic electric brakes is mounted integrally with center pole, eliminating need for A frame, shafting and other unsightly driving mechanisms. Pole and sill joints are automatically locked in place when pole is raised—eliminating need for bolts or thread parts.



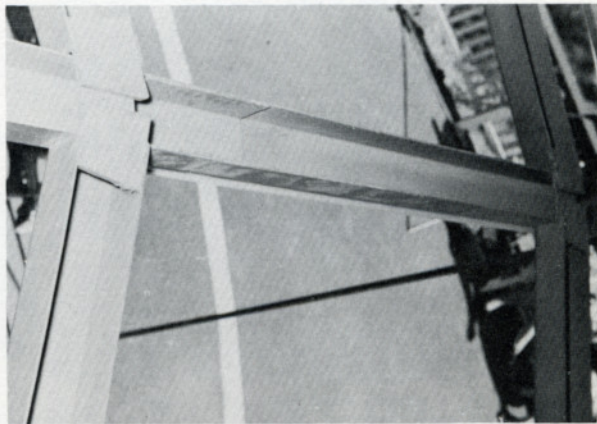
Machine cut gears as featured in Arrow rides add to overall smoothness and quietness of operation and allow exact mesh of gears not possible with cast teeth.



Timken tapered bearings eliminate top bearing trouble by handling load and sway with equal ease. Machined steel housings for greater strength and safety. Alemite fittings for easy lubrication.



No more daily lubrication. Modern oilite self-lubricating bushings in all eccentrics shaft bearings require only occasional light oiling. Replaceable inserts in machined steel housings.



Since 1947, all steel construction. Steel is used throughout Arrow machines for structural parts such as sweeps and sills pictured above.

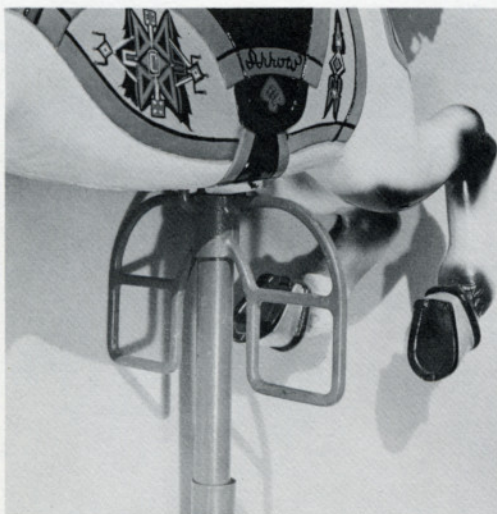
BETTER BUILT FOR LONGER LIFE AND LOWER UPKEEP

MERRY-GO-ROUND SPECIFICATIONS

	45 foot	36 foot (3 abreast)	36 foot (2 abreast)	Teen-Age	Kiddie
CAPACITY					
Jumping Horses	56 adult	30 adult	20 adult	20 adult	20 kiddie
Chariots (See Note 1)	2 double	2 double	2 double	2 double	2 single
DIMENSIONS					
Platform diameter	43'-0"	32'-6"	32'-6"	28'-4"	19'-0"
Over-all diameter	45'-10"	36'	36'	31'-5"	20'-5"
Over-all height	28'	18'	18'	16'	13'
WEIGHT—Shipping in Crates	26,000 lbs.	16,000 lbs.	14,500 lbs.	12,000 lbs.	5,000 lbs.
SHIPPING REQUIREMENTS	2 semi-trucks	32' truck	32' truck	24' truck	12' truck
DRIVE UNIT					
Motor—H.P.	5	3	3	2	1½
Phase	Three	Three	Three	Three	Single
Voltage	220	220	220	220	110
LIGHTING					
Cresting (color fluorescent)	48 tubes	36 tubes	36 tubes	36 tubes	24 tubes
Inner Scenery (color fluorescent)	(8 circline 16 tubes	(8 circline 8 tubes	(8 circline 8 tubes	Note (2)	12 tubes
Medallions (indirect lights)	16 lights	12 lights	12 lights	None	None
Sweeps	16 tubes	12 tubes	12 tubes	12 tubes	None

Note (1): Eight (8) kiddie stationary horses with two (2) single chariots may be substituted for double chariots at additional cost.
 Note (2): Four (4) indirect spot lights through colored transparent plastic panels.

ACCESSORIES



Music Box • High fidelity record player, amplifier and speaker system housed in attractive organ-type box. Tape recorders can be furnished on request.

Fencing • Colorful pipe fencing, in 8' sections. Movable stanchions.

Portable Installation Kit for Traveling Shows • Kit includes hydraulic pole-raising mechanisms and wheeled dolly for installing drive unit and main drive gear.

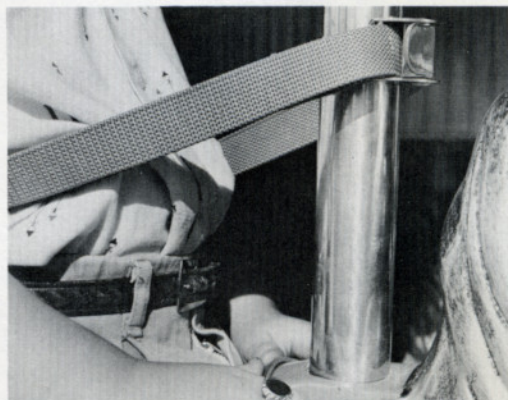
Safety Stirrup. Fits merry-go-rounds of all makes and designs. Tool jig available for drilling holes in horse pipes.

FEATURES

Two foot rests — for quick mounting and comfort of all passengers.

Support for horse — eliminates rotation by means of pin insert.

Safety factor — eliminates sliding-off injuries.



Safety Strap • Complies with most stringent local ordinances. Strong, flexible Nylon webbing with airplane seat-type clamp for quick loading and unloading.

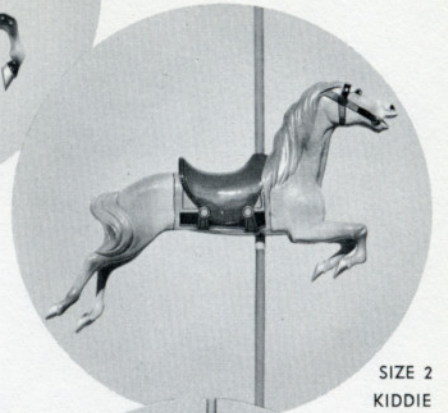
ARROW Merry-go-round HORSES

Careful design of these horses has created a product that is distinct and beautiful as well as practical and serviceable. Cast in two halves from aluminum and solidly welded into one virtually indestructible unit, they have no joints to crack and peel the enamels. Heavily primed with chromate and beautifully decorated, their colors are protected with a tough coat of wear-resistant varnish.

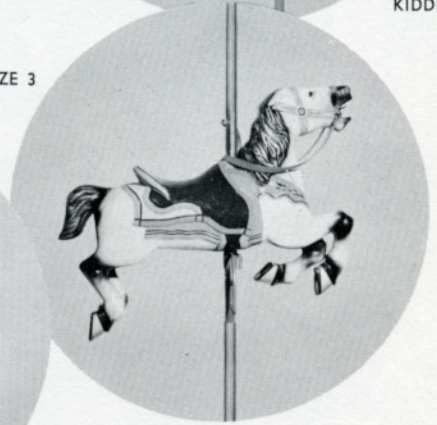
Frequent repainting, a common expense to the operator, has been eliminated.



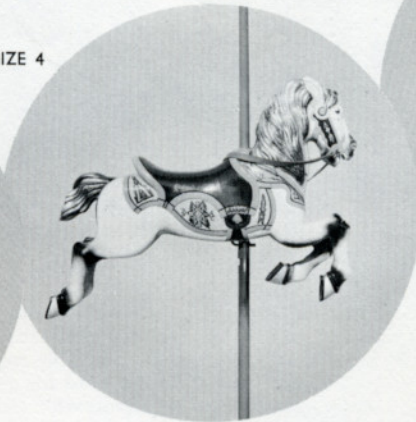
SIZE 1
KIDDIE



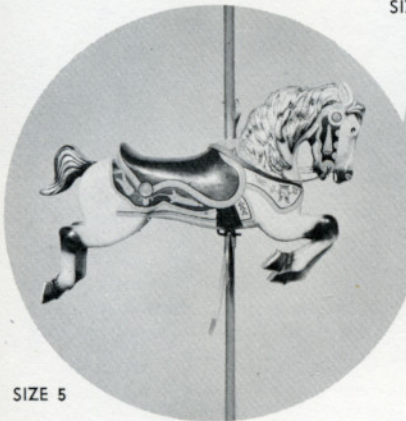
SIZE 2
KIDDIE



SIZE 3

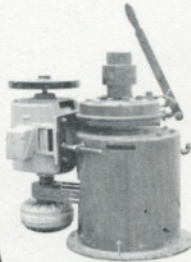


SIZE 4



SIZE 5

MODERNIZE your old Merry-go-round with **ARROW UNIT DRIVE**



A drive-unit specifically designed to modernize an old Merry-go-round, not the drive-unit used in new Arrow Merry-go-rounds. Easily fitted to any standard Merry-go-round, with a flexible coupling that fits to your present drive shaft.

Extremely sturdy and durable. Heat-treated gears totally enclosed and running in oil give quiet, dependable operation. No flapping, stretching flat belts. No noisy, dirty open gearing.

Automatically smooth even starts every time. No clutches to wear and give trouble. Lengthens the life of your machine by eliminating strain to working parts caused by jerky starting.

Makes your old Merry-go-round a modern push-button operated machine; eliminates the need for skilled operators. Light, compact and easy to handle for portable operations.



WHEN ORDERING, SPECIFY NUMBER OF TEETH IN
DRIVESHAFT PINION AND BULL GEAR. ALSO SPEED OF PLATFORM DESIRED.

FLYING PLATFORM RIDE



This sensational new ride is appealing not only to the younger set but the teen-agers as well. The feeling of whirling speed in open space plus the thrill of being able to control the swaying motion by shifting of weight is unsurpassed. This Arrow Flying Platform Ride is designed to be a safe and economical answer to the need for a junior thrill ride. The large capacity baskets are big enough to accommodate parents who wish to join their children.

DESCRIPTION

Capacity • Eight (8) Flying Platforms will accommodate sixteen (16) passengers in fast loading baskets.

Construction • Sturdy steel tower with wide base for safety to accommodate heavy loads. Tubular sweeps inserted in sockets in steel hub. Aircraft type alloy steel plane cables support Flying Platform. Basket enclosure made of heavy steel expanded metal secured to heavy Fibreglas ring.

Lighting • Fluorescent lights in color on tower give illumination and sparkle.

Drive • 1 hp., 3-phase motor operating through fluid drive for smooth starting. Automatic electric braking permitting controls to be mounted at entrance gate is optional. Heavy Timken bearing supports main center-pole.

Finish • Highest quality heavy Fibreglas rings with molded-in color. Best grade of industrial and synthetic enamels over zinc chromated primed metal surfaces.

Equipment • Hand tools and grease gun. Decorative pennants. Canvas top optional at extra cost.



**Quick to
Set Up**

Strong expanded metal enclosed by heavy tubular and bar frame baskets. Extra heavy Fiberglas rings with molded-in color built for rough usage. Note the steel cover above hinges of door to protect against catching of fingers in opening and closing of door.



Flying Platform Basket hung by aircraft cables and is so designed that it is impossible to overturn. Quick loading and safety latch feature this ride.



**Simple to
Operate**

Fluid Drive permits mounting of controls outside of machine for ease of operation.

KIDDIE BOAT RIDE



This is the ride that provides a completely different sensation. It is irresistible to youngsters And the Arrow quick set-up features make it practical for traveling shows as well as permanent locations.

DESCRIPTION

Capacity • Six boats seating four passengers each.

Construction • Sturdy central drive unit securely locked to tank to keep centralized and prevent twisting. Steel sweeps. Tank of corrosion-proofed alloy steel for strength and lightweight. Nesting type tank to conserve space in loading furnished at slightly higher cost. Quick-locking clamps that eliminate tedious bolting at assembly.

Boats • Lightweight boats of Fiberglas molded with a racy appearance have molded-in color. Extremely sturdy and permanently leak-proof. Molded-in seats for ease in cleaning. Equipped with solid brass chrome-plated bells and brackets. Colored plastic-covered cast aluminum steering wheels.

Lighting • Twelve fluorescent lights on medallion and six

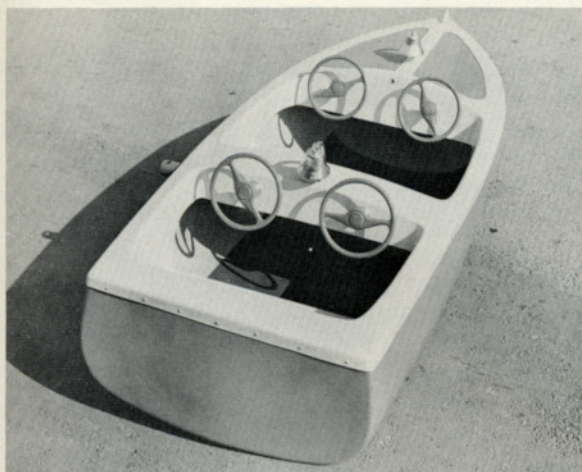
large fluorescent lights clustered about center pole give brilliance and sparkle.

Decoration • Durably and beautifully finished with synthetic enamels over carefully prepared and primed surfaces.

Drive • 1 hp., single phase, 110-220 volt, 60-cycle motor with hydraulic clutch and push-button starting. 3-phase motor optional. Drive mounted as single central unit. Anti-friction bearing throughout. Sturdy and dependable.

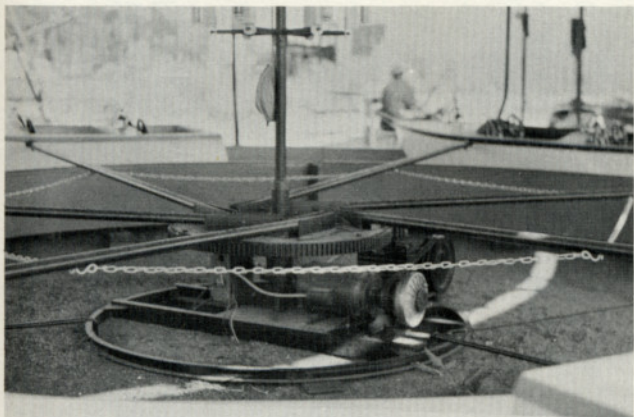
Dimensions • Tank diameter 24', cornice diameter 27'-6", over-all height 13'. Weight 4700 lbs. Complete Boat Ride with nesting tanks can be transported in 14' truck or trailer body.

Equipment • Tent top, side walls, hand tools and grease gun.

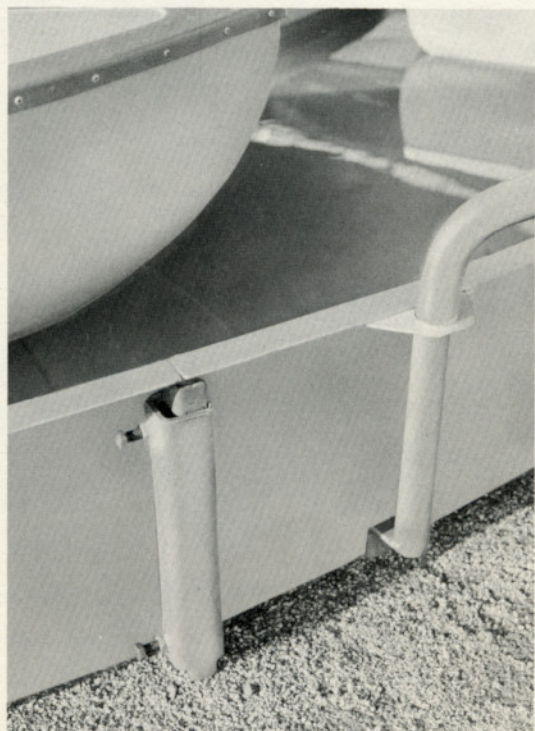


Fiberglass boats are superior, light in weight, molded-in streamlined contours that are easy to keep clean. Permanently leak-proof. Molded-in colors. Equipped with solid brass chrome plated bells and brackets.

Note the wide seats which easily accommodate two to three children.



Sturdy, trouble-free drive. Anti-friction bearings and fluid clutch lower the maintenance and operating costs.



Quick locking tank sections. Rubber seal retained in groove at tank joints. No loose parts at joints—no exposed flanges on inside of tank for easy cleaning. Sealing is accomplished by tightening 4 set screws at each joint—24 in all.

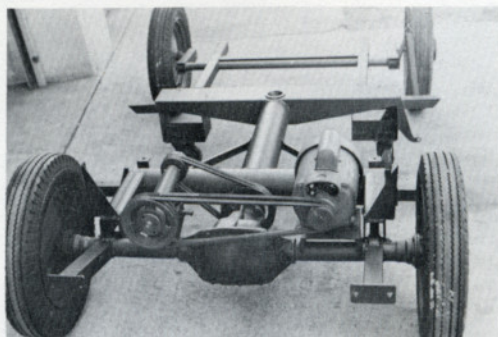
ARROW

DARK CAR RIDES *and* DARK CAR RIDE GAGS

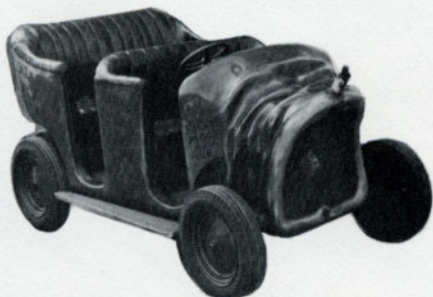
While many standard components can be used in developing most Dark Car projects, special treatments by our design staff will serve to give you a ride that is unique, attractive and a solid investment as well. We specialize in development of "theme" ideas for this type of ride. Arrow participated in building well known Dark Car rides for Disneyland—Alice in Wonderland, Snow White and Mr. Toad's Hot Rods.



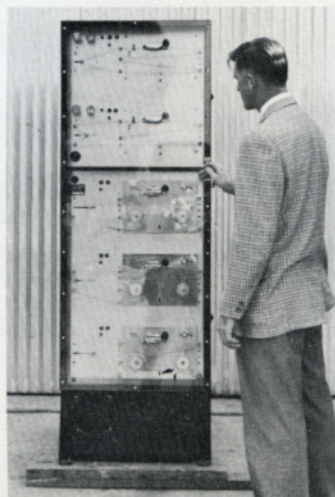
Shown here are cars for "theme" rides developed by Arrow. The upper photograph illustrates a "mine" theme ride, the lower, a "jalopy" ride. For original Dark Car rides consult with Arrow.



All Arrow dark cars feature sturdy "underneath" construction and drive mechanisms.



COMPLETE ELECTRONIC SOUND CENTER This specially designed Arrow accessory is an automatic message repeater with a separate channel and speaker at each gag location. Channels can be used to provide background sounds in a general area; also, the unit will play back to the control center for operational check of each channel. The rack is complete with amplifiers, power supply, tape decks, monitor and cooling blowers. The exclusive Arrow Sound Center makes your Arrow Dark Car ride come to life.



ARROW DARK CAR RIDE GAGS

Here's what the industry has been waiting for—gags with imaginative and/or spooky effects combined with rugged construction features that mean less maintenance. The ideas illustrated below are samples of gags that have been produced recently by Arrow. It is not possible in a catalog to show all of the possibilities of the medium; however, if you will discuss your project with Arrow designers, you will obtain complete cooperation in developing new, original conceptions for your Dark Car ride gags.



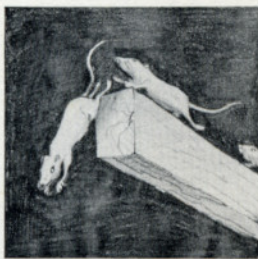
COP BLOW HIS TOP



MACHINE GEARS



FALLING PAINTER



RATS ON RAFTER



FALLING ROCKS



FLUORESCENT WATERFALL



HAUNTED FOREST



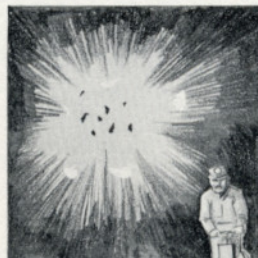
FALLING GHOST FACES



DANCING SKELETON



FLYING BAT



MINE EXPLOSION

**WE ARE PROUD TO BE ASSOCIATED
IN THE BUILDING OF RIDES FOR DISNEYLAND
SOME OF WHICH ARE SHOWN BELOW**

KING ARTHUR'S CAROUSEL



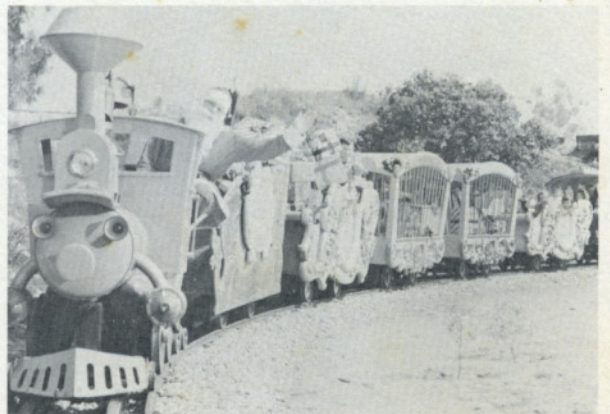
DUMBO THE FLYING ELEPHANT



TEACUP RIDE



CASEY JR. TRAINS



SNOW WHITE DARK CARS



MR. TOAD'S HOT ROD CARS

