

CO2 DRAGSTERS SPECIFICATIONS EXPLAINED

**“Blink and you’ll
miss it”**

*If you are looking for a great Design
and Technology project – consider
CO₂ Dragsters*

The purpose of the CO₂ DRAGSTER competition is to provide a means for students to demonstrate their ability using Design Make Appraise (DMA) principles to draw, design and then build a dragster within a set of specifications. Dragsters are then tested on a 20-meter track for speed to determine the fastest dragster.

For further information regarding the Co2 Dragsters, Supplies and Competition Rules

Please contact: Velocity Technology School Supplies

Email info@vtss.com.au

Web site <http://www.vtss.com.au>



CO2 DRAGSTERS SPECIFICATIONS

CONTENTS

Dragster Body

Axles / Axle Holes / Wheelbase

Spacer / Washers / Clips

Power Plant Co2 Cartridge Hole

Screw Eyes

Wheels

Specifications A to E

Specifications F to I

Specifications J to K

Specifications L to O

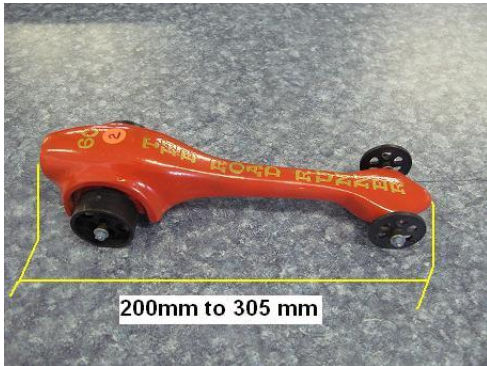
Specifications P to Q

Specifications R to U

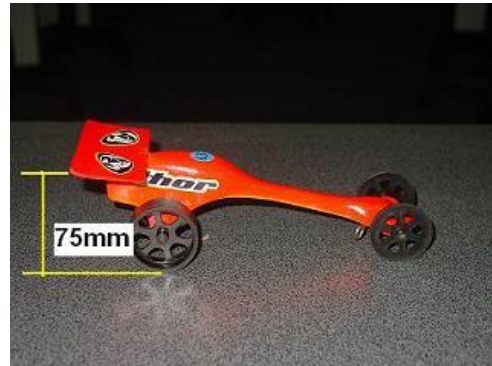


VELOCITY TECHNOLOGY SCHOOL SUPPLIES –
CO2 DRAGSTERS SPECIFICATIONS

DRAGSTER BODY – SPECIFICATION A to E



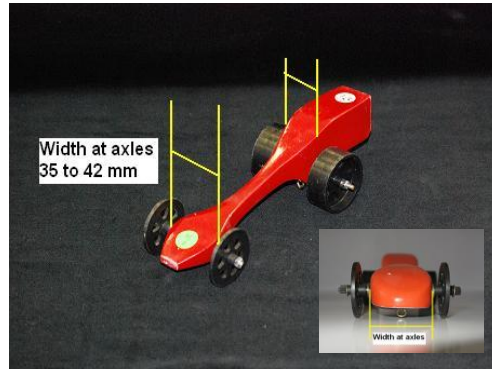
(A) Dragster Body Length



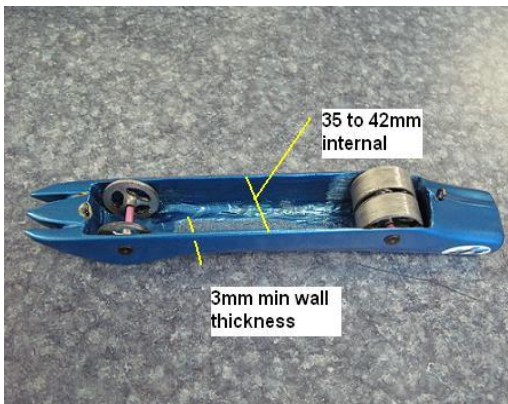
(B) Dragster Body Height at rear with wheels



**(C) Dragster body mass /weight with wheels
No Co2 cartridge**



(D) Dragster Body width at axles (Rail cars)



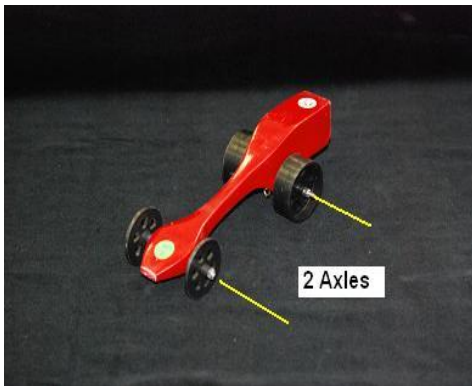
(Ds) Dragster Body width at axles (Shell cars)



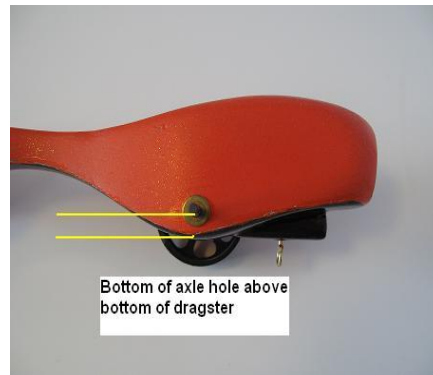
(E) Dragster Body Width (including wheels)

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DRAGSTER AXLES / AXLE HOLES / WHEELBASE – SPECIFICATION F to I



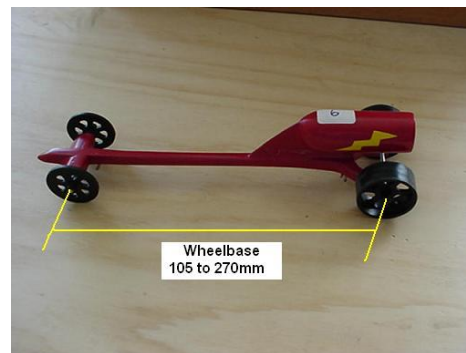
(F) Number of axles



(G) Bottom of axle hole above bottom of dragster



(H) Rear axle from above rear of dragster



(I) Wheelbase

**Dragster Spacers / washers / Clips
Specification J and K**



(J) Spacer Washers



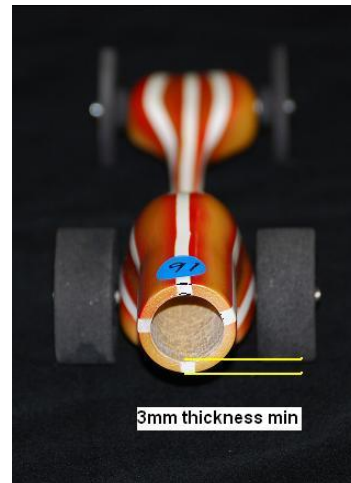
(K) Axle Clips or Similar

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CO2 DRAGSTERS SPECIFICATIONS

DRAGSTER POWER PLANT (CO2 CARTRIDGE HOLE) – SPECIFICATION L to O



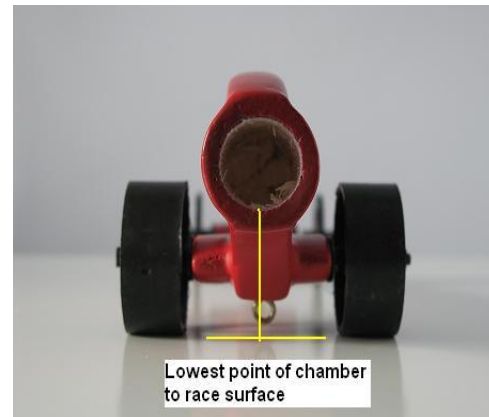
(L) Power plant Depth of Hole



**(M) Power Plant housing thickness
3 mm around entire housing
(Must not broken)**



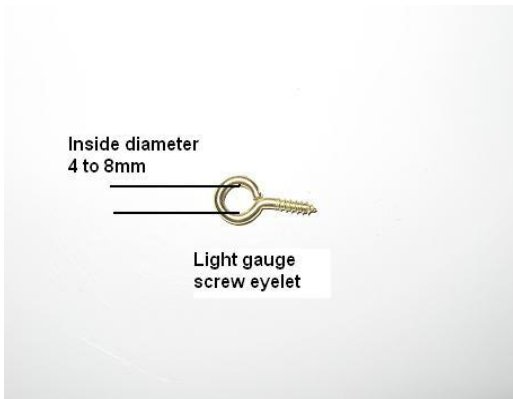
**(N) Power plant housing (diameter)
Please a 19.5 mm or 3/4" drill**



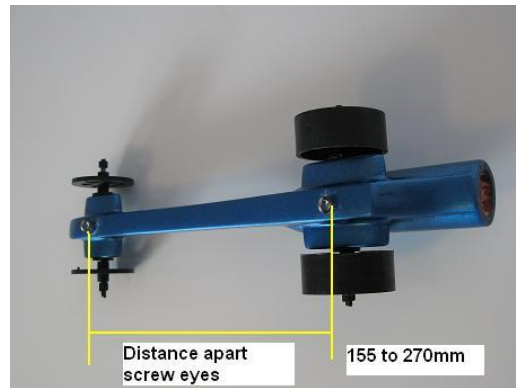
**(O) Power plant lowest point of
chamber to race surface
with wheels**

VELOCITY TECHNOLOGY SCHOOL SUPPLIES –
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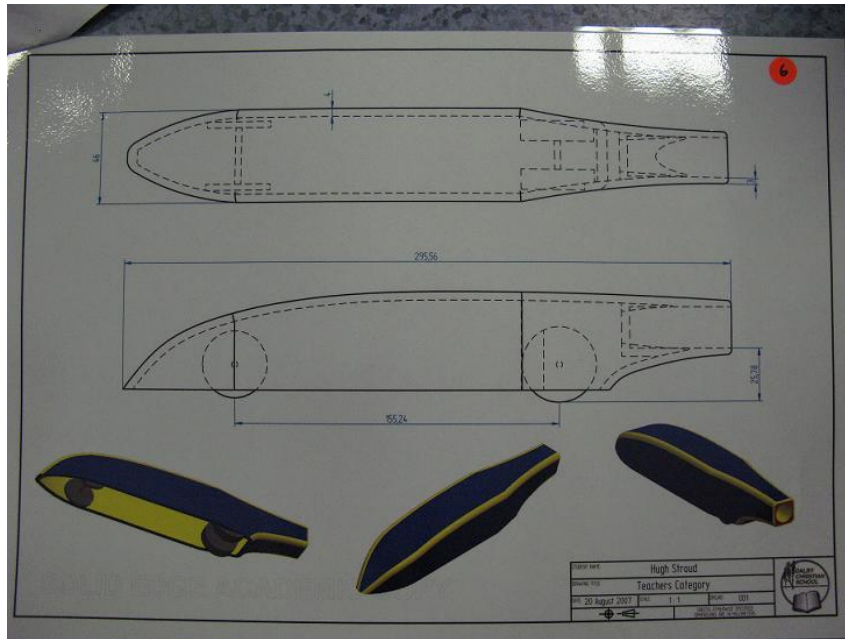
DRAGSTER SCREW EYES – SPECIFICATION P to Q



(P) Screw eye or eyelets inside diameter



(Q) Screw eyes (2) distance apart at farthest point



Sample drawing

VELOCITY TECHNOLOGY SCHOOL SUPPLIES –
CO2 DRAGSTERS SPECIFICATIONS

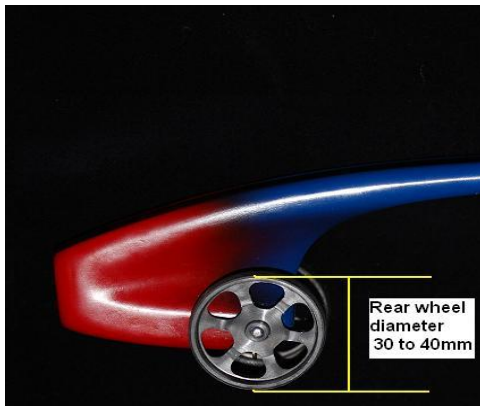
DRAGSTER WHEELS – SPECIFICATION R TO U



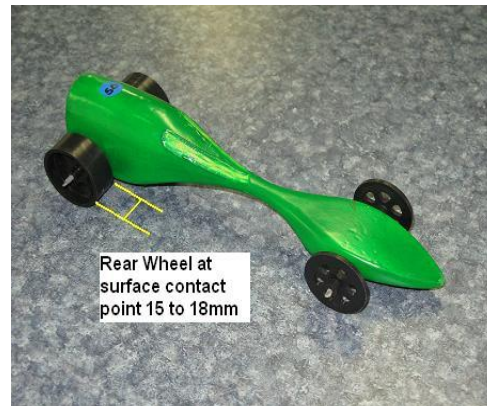
(R) Wheels: Front Diameter



(S) Wheels: Front width at surface contact point



(T) Wheels: Rear Diameter



(U) Wheels: Rear width at surface contact point