

CATA

CATA is a high performance, feature packed pneumatic launch system for ISR UAV's and target drones.

THREOD
SYSTEMS

Key features:

- 100 kJ launch energy
- Fits into standard ISO20 container
- Weatherproof
- Short setup time
- Terrain capable trailer



Custom air vehicle
carriages

Dedicated trailer with multiple
towing adapter and levelling
adjustment options

Integrated engine, high
pressure compressor and
auxiliary compressor

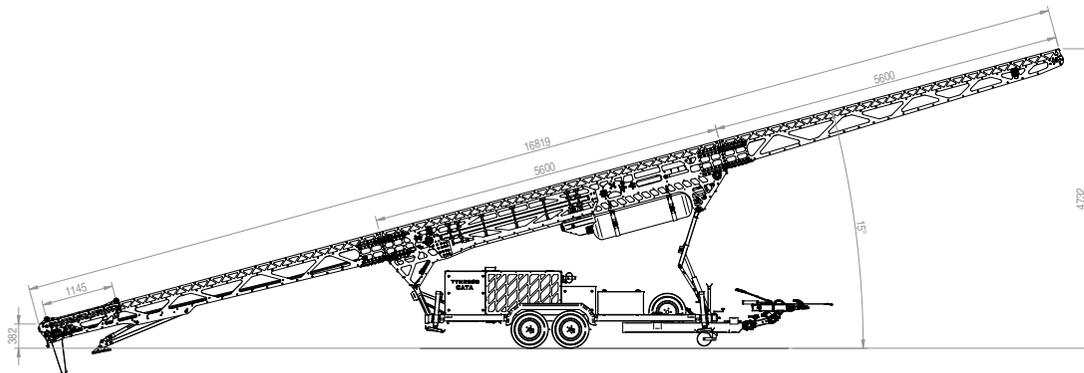


Dedicated launch remote
control system

CATA Specifications



CATA launcher set

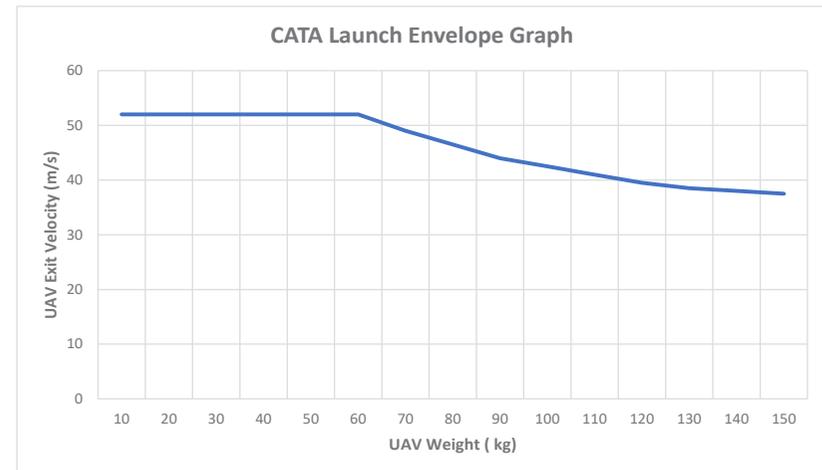


CATA launcher deployed dimensions

UAV Launch Performance	
UAV Mass	30 to 150 kg
Maximum Launcher Adapter Mass	35 kg
Launch Speed	20 – 52 m/s
Maximum Axial Acceleration	11.5 g (depends on configuration)
Maximum Vertical Acceleration	3 g (Shock Load)
Maximum Transverse Acceleration	3 g (Shock Load)
Launch Angle	10° to 15°
Launcher Physical and Operational Configuration	
Launch Rail Length	16.8 m
Storage Dimensions	5.8 m x 2.1 m x 2.03 m (L x W x H)
Transportation	Fits standard ISO20 Sea Container
Launcher System Mass	< 2500 kg
Operational Deployment Time	< 15 minutes when operated by a crew consisting of 3 people
Launch Recovery Time	< 5 minutes
Launcher Roll Angle	-5° < > +5°
Launcher Remote Control System	
Components	Remote Control Panel, Tripod, 20 m extension cable
Weight	8.1 kg
Environmental Protection	IP65
Dimensions	409 mm x 331 mm x 175 mm
Features	7" HMI Display Screen Brightness Adjustment Emergency Stop Switch Full Launcher Diagnostics Launcher Data Logging Cooling Unit

Trailer	
Ground Clearance	280 mm
Wheelbase	1890 mm
Trailer Axle	Dual axle - Torsional
Trailer Braking System	4x Drum brakes with overrun device
Towbar Height Adjustment	467 mm – 835 mm
Allowed Transportation Speed	90 km/h (Road Legal)
Trailer Coupling	Different options available
External UAV Power Interface	
Electrical system voltage	24 VDC
Nominal Power Consumption	720 W
Peak Power Consumption	2400 W
Physical Interface	MIL-D38999 Type Connector
Environmental	
Operating Temperature	-20 °C to +55 °C
Storage Temperature	-33 °C to +70 °C
Standards	
Environmental	MIL-STD-810G
Features	
4-cylinder diesel engine with high pressure compressor	
Operated with Remote Control System – 20m long cable	
Built in UAV Interlock Connection with Umbilical Interface	
Built in safety critical features	
Hydraulically actuated carriage locking mechanism, rail tilt mechanism, rope tensioning system	
Bay for Customer Furnished Cases	
External Air Compressor for cleaning and tyre inflation	
Optional: UAV Sunshade, UAV Forced Air Cooling Unit	

Note! CATA has multiple carriage variants. Contact Threod for options and quotations



UAV mass and exit velocity performance envelope