 <b>CZECH AIRCRAFT GROUP</b>	<b>PS-28 Cruiser</b>	<b>Q-O-04AM</b>	AIRCRAFT S/N:	<b>C0638</b>
	Output control	Weight & Balance record	CENTRAL WING SECTION S/N:	<b>638</b>

**AIRCRAFT SPECIFICATION:**

AIRCRAFT REGISTRATION:

AIRCRAFT TYPE:

AIRCRAFT S/N:

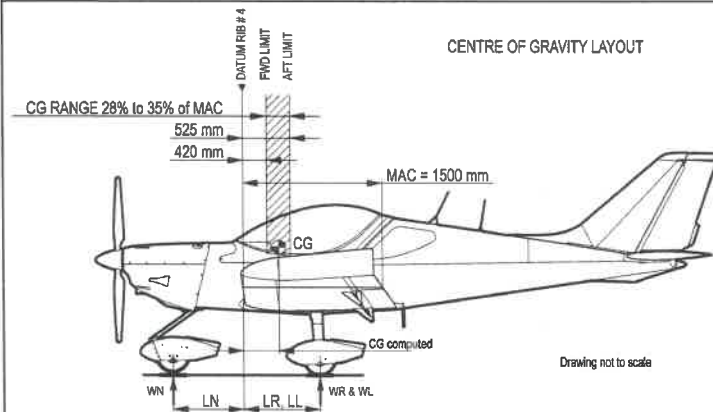
CENTRAL WING SECTION S/N:

**F-HDMG  
PS-28 Cruiser  
C0638  
638**

**INSTALLED EQUIPMENT:**

Rotax 912 ULS2 engine with airbox and thermostats  
 Sensenich 3B0R5R68C three-blade ground adjustable propeller  
 Dynon SkyView 2x SV-HDX1100, SV-ADAHRS-200, SV-GPS-250  
 Dynon SkyView SV-EMS-220, 2x SV-BAT-320, SV-OAT-340  
 Winter backup ASI, Winter backup ALT  
 Garmin GNC255A transceiver, PS Engineering PM3000 intercom  
 Trig TT21 transponder & TC20 transponder control unit, Kannad 406 AF-Compact ELT, Antennas  
 G-205 trim control and PTT on the control sticks, Trims and flaps electrically actuated  
 Kuntzleman LED Landing light in cowl, Cockpit light, 12V socket  
 AVE-WPST wing tip LED strobe/nav lights  
 Efficient cabin heating, Windshield defogging system, Carburetor preheating  
 Adjustable pedals, Dual hydraulic brakes, Parking brake, Wheel fairings tricycle  
 Leather upholstery, Metallic paint, Sunshade, Arm supports, Stall warning system, CO detector  
 Front ballast = 2,50 kg

*ELT and XPDR in rear space, NewEngCover, Pb battery,SV-BAT under right seat*



**NOTE:** Data in blue boxes can be changed.

**MEASURING THE AIRCRAFT:**

*Inflate the tires, drain the fuel from wing tanks.  
 Level the upper fuselage longeron with a spirit level.  
 DATUM is on leading edge at RIB # 4.  
 Measure wheel axle location from DATUM.  
 Positive arm is behind the DATUM.*

**LIQUIDS SPECIFICATION:**

FUEL WEIGHT	0,72 KG/LITER
VOLUME (MAX)	114,00 LITRES
OIL WEIGHT	0,80 KG/LITRE
VOLUME (MAX)	3,80 LITRES
COOLANT WEIGHT	1,03 KG/LITER
VOLUME (MAX)	2,50 LITRES

**OPERATING C.G. LIMITS :**

	MM	% MAC
<b>MAC :</b>	1 500,0	100,0
<b>FORWARD CG :</b>	420,0	28,0
<b>REARWARD CG :</b>	525,0	35,0
<b>CG RANGE :</b>	105,0	7,0

**EMPTY WEIGHT C.G. LIMITS :**

	MM	% MAC
<b>MAC :</b>	1 500,0	100,0
<b>FORWARD CG :</b>	427,5	28,5
<b>REARWARD CG :</b>	442,5	29,5
<b>CG RANGE :</b>	15,0	1,0

**AIRCRAFT EMPTY WEIGHT CENTER OF GRAVITY**

**POSITION OF:**

RIGHT MAIN WHEEL (LR)

LEFT MAIN WHEEL (LL)

NOSE WHEEL (LN)

DISTANCE BETWEEN NOSE AND MAIN WHEELS

*Note:*

	ARM MM
RIGHT MAIN WHEEL (LR)	784
LEFT MAIN WHEEL (LL)	792
NOSE WHEEL (LN)	-709

*NOTE: NEGATIVE ARM ( - )*

1 497

**WEIGHING POINT:**

RIGHT WHEEL (WR)

LEFT WHEEL (WL)

NOSE WHEEL (WN)

*Note:*

	SCALE READING	TARE	NET WEIGHT
	KG		
RIGHT WHEEL (WR)	150,3	0,0	150,3
LEFT WHEEL (WL)	149,5	0,0	149,5
NOSE WHEEL (WN)	91,9	0,0	91,9

**EMPTY WEIGHT:**

*NOTE: EMPTY WEIGHT IS INCLUDING OIL, COOLANT, HYDRAULIC FLUID AND UNUSUAL FUEL*

**391,7** KG

**MAXIMUM TAKEOFF WEIGHT (CS-LSA / ASTM LSA CATEGORY):**

**600,0** KG

**MAXIMUM USEFUL WEIGHT:**

*NOTE: MAX. USEFUL WEIGHT IS INCLUDING PILOT, PASSENGER, BAGGAGE AND FUEL*

**208,3** KG

**AIRCRAFT EMPTY WEIGHT C.G. CALCULATION:**

$MOMENT (KG MM) = WEIGHT (KG) \times ARM (MM)$

RIGHT MAIN WHEEL

LEFT MAIN WHEEL

NOSE WHEEL

**TOTAL:**

	WEIGHT KG	ARM MM	MOMENT KG MM
RIGHT MAIN WHEEL	150,3	784	117 835,2
LEFT MAIN WHEEL	149,5	792	118 404,0
NOSE WHEEL	91,9	-709	-65 157,1
<b>TOTAL:</b>	<b>391,7</b> KG		<b>171 082,1</b> KG MM

$AIRCRAFT C.G. = \frac{TOTAL MOMENT}{TOTAL WEIGHT} (MM) \times \frac{100}{MAC} (\%)$

**RESULT OF AIRCRAFT EMPTY WEIGHT C.G.:**

**436,8** MM

**29,1** % of MAC

**DATE : 2023-04-25**

**ENTITLED PERSON SIGNATURE :**

Pavel Lukeš



Czech Aircraft Group

# LOAD SHEET & BALANCE CHART

(CS-LSA / ASTM LSA MTOW 600 KG)

## PS-28 Cruiser

NOTES:

F-C-02AM

REGISTRATION:

**EXAMPLE:**

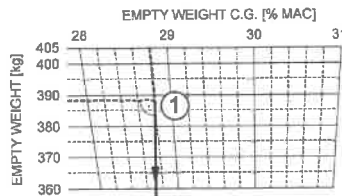
EMPTY C.G.	28,8	% MAC
ITEM	ITEM WEIGHT	SCALE DIVISION AND MOTION DIRECTION
AIRCRAFT EMPTY	387 kg	
PILOT	85 kg	5 kg ▷
PASSENGER	65 kg	5 kg ▷
BAGGAGE COMPARTMENT	10 kg	1 kg ▷
WING LOCKERS	10 kg	5 kg ▷
FUEL IN TANKS	43 kg	5 kg ◁
TAKEOFF WEIGHT	600 kg	
ZERO FUEL WEIGHT	557 kg	

NOTE:  
CONVERSION OF THE FUEL VOLUME TO WEIGHT UNIT:  
1 LITER = 0.72 kg

DATE:

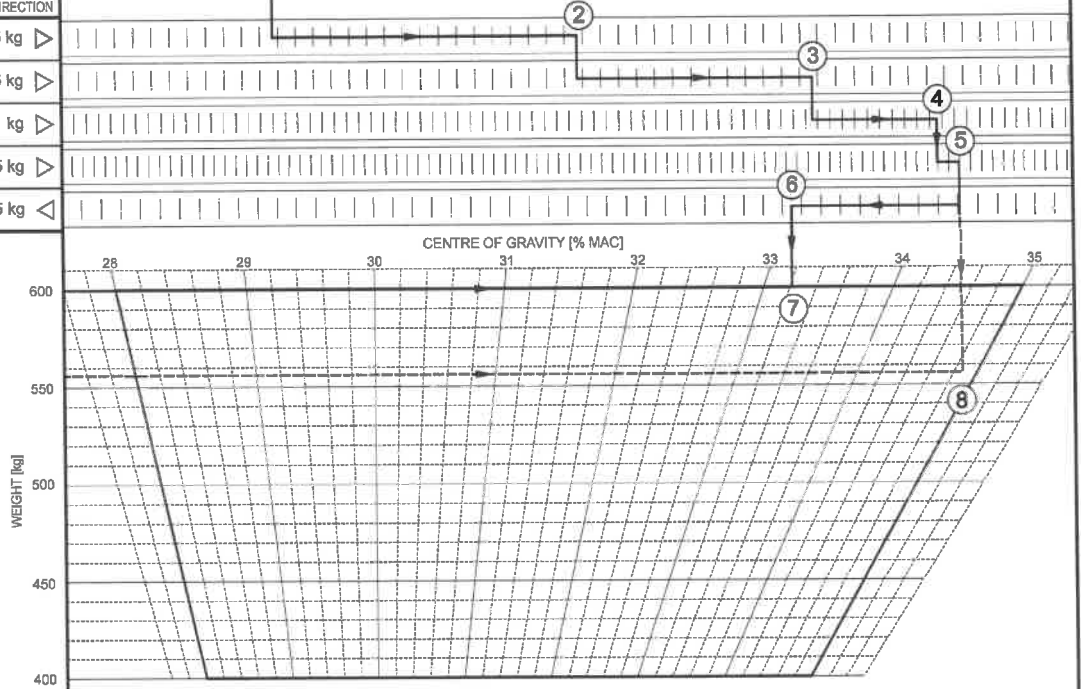
PILOT:

SIGNATURE:



### LOAD SHEET & BALANCE CHART

NOTE: EMPTY C.G. RANGE 28.5 - 29.5% MAC  
OPERATING C.G. RANGE 28 - 35% MAC  
MAX. TAKEOFF WEIGHT 600 kg  
MIN. PILOT WEIGHT 55 kg



REGISTRATION:

F-C-02AM

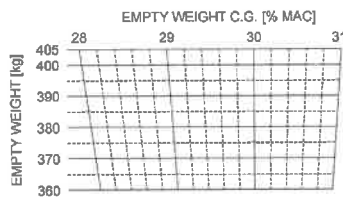
EMPTY C.G.		% MAC
ITEM	ITEM WEIGHT	SCALE DIVISION AND MOTION DIRECTION
AIRCRAFT EMPTY		
PILOT		5 kg ▷
PASSENGER		5 kg ▷
BAGGAGE COMPARTMENT		1 kg ▷
WING LOCKERS		5 kg ▷
FUEL IN TANKS		5 kg ◁
TAKEOFF WEIGHT		
ZERO FUEL WEIGHT		

NOTE:  
CONVERSION OF THE FUEL VOLUME TO WEIGHT UNIT:  
1 LITER = 0.72 kg

DATE:

PILOT:

SIGNATURE:



### LOAD SHEET & BALANCE CHART

NOTE: EMPTY C.G. RANGE 28.5 - 29.5% MAC  
OPERATING C.G. RANGE 28 - 35% MAC  
MAX. TAKEOFF WEIGHT 600 kg  
MIN. PILOT WEIGHT 55 kg

