

# FIRE-FIGHTING & AGRO SERVICES

PZL M 18B DROMADER



AGROAVIATION COMPANY



The PZL M18B "DROMADER" is fire-fighting, agricultural, single engine, low-wing, all-metal monoplane with a fixed-type main gear with a tail wheel and hopper located forward the cockpit. The airplane is designed to operate from ground or sod airstrips, of  $\geq 3.5 \text{ kg/cm}^2$  ground capacity. The airplane was built in compliance with the requirements of FAR Pt. 23, Amdt. 16. The M18B has been certified by 14 foreign airworthiness authorities, including the USA (FAA), Canadian, French, Spanish, Brazilian, Italian, Australian, Argentinean, Polish and other.

## APPLICATION

- forest, bush or fire fighting;
- line – drop spraying for fire – barrier production;
- forest area patrolling for detection and immediate fighting of fires spotted;
- chemical protection of forest or crops against pest and plant diseases;
- chemical fertilizing (dust or liquid);
- reclamation of polluted or erosion-endangered areas;
- seeding (rice, wheat, corn, etc.);
- cargo transportation up to 2 tons;

## TECHNICAL/PERFORMANCE DATA

Engine T-O power (HP)	1000		MTOW	5300
Wing span (m)	17.7	VNE speed (km/h)		230
Wing length (m)	9.5	VNO speed (km/h)		200
Hopper volume (l)	2500	VSO speed (km/h)		121
Fuel tank capacity (l)	712	Range, no fuel reserve (km)		800
Oil tank capacity (l)	70	Max. take off distance to H=15 m (m)		920
Airplane T-O weight, restricted category (kg)	5300	Maximum landing distance from H=15 m (m)		570
Payload (max.) (kg)	2200			

## FIRE-FIGHTING AND AGRICULTURAL EQUIPMENT (BASIC DATA)

### FIRE-FIGHTING SYSTEM

Time of airdrop of	2200 l	2.2 s
Dimensions of watered spot		25 x 75 m (82 x 246 ft)
Line-Drop Application Pattern Size		from width of 20 m at the line-drop start to (flight height - 20 m)
		Extinguishing load can be divided into a few portions
Hopper Load Discharge Time (2200 l)		11 sec.
Line-Drop Gate-Box Flap		up to max. 1 sec.
Opening/Closing Time		

### ULV SPRAYING SYSTEM (ATOMIZING)

Swath width (ww 25%)	24 to 34 m (79 to 112 ft)
(ww 30%)	28 to 40 m (92 to 131 ft)
(ww 40%)	45 to 57 m (131 to 187 ft)
Total swath width	up to 70 m (230 ft)
Doses	0.6 to 1.6 l/ha (0.06 to 1.71 gal/acre)

### STANDARD SPRAYING SYSTEM (MEDIUM DROPLET)

Swath width (ww 25%)	24 to 30 m (79 to 100 ft)
(ww 45%)	up to 40 m (131 ft)
Total swath width	up to 75 m (246 ft)
Doses	9.0 to 11.0 l/ha (1 to 12 gal/acre)

### DUSTING SYSTEM

Swath width (ww 25%)	20 to 40 m (66 to 164 ft)
Total swath width	up to 45 m (148 ft)
Outputs per second	5 to 85 kg/s (11 to 143 lb/s)
Doses	50 to 650 kg/ha (45 to 580 lb/acre)



EADS PZL "Warszawa-Okecie" S.A.

Al. Krakowska 110/114, 00-971 Warsaw, Poland

ZUA in Mielec, P.O. Box 51, 39-300 Mielec - Airport, Poland - Phone: (+48 17) 5864742, 7887841; Fax: (+48 17) 7886087, zua@ptc.pl, http://www.zua.ptc.pl