



BALISTIC RESCUE PARACUTE SYSTEMS FOR ULTRALIGHTS

SYSTEMS:	USH 150	USH 35 E soft	USH 35 E Hard	USH 520 Hard	USH 520 soft	USH 52 S soft	USH 600 soft
Gross weight of airplane:	150 kg	350 kg	350 kg	473 kg 525 kg	473 kg 525 kg	520 kg 525 kg	600 kg
Maximum speed for mening:	140 km.h ⁻¹	240 km.h ⁻¹	240 km.h ⁻¹	230 km.h ⁻¹ 180 km.h ⁻¹	230 km.h ⁻¹ 180 km.h ⁻¹	293 km.h ⁻¹ 250 km.h ⁻¹	300 km.h ⁻¹
Minimum opening height at m/km/h:	70 m / 45-140	100 m / 65-240	100 m / 65-240	80 m / 65-230	80 m / 65-230	100 m / 80-290	200 m / 300
Weight of parachute with rocket:	4,7 kg	7,1 kg	8,2 kg	12,1 kg	10,8 kg	12 kg	12,4 kg
Container type:	Textil. soft	Textil. soft	Hard Alu	Hard Alu	Textil. soft	Textil. soft	Textil. soft
Size of soft cont.: [mm]	90x180x350	135x230x280			145x260x400 150x230x420 150x180x520	145x260x450 150x230x430	145x260x480 190x260x390
Size of hard cont.: [mm]			L= 450, Ø 85	L= 560, Ø195			
Descent Rate speed m.s ⁻¹ :	7,5	7,5	7,5	7,5	7,5	7,5	7,5
Opening time max. Conditions [km.h ⁻¹ /s]	45 km.h ⁻¹ / 3 s 140 km / 2,5 s	65 km.h ⁻¹ / 4 s 240 km.h ⁻¹ / 4,4 s	65 km.h ⁻¹ / 4 s 240 km.h ⁻¹ / 4,4 s	65 km.h ⁻¹ / 3,5 s 230 km.h ⁻¹ / 3 s	65 km.h ⁻¹ / 3,5 s 230 km.h ⁻¹ / 3 s	80 km.h ⁻¹ / 4 s 290 km.h ⁻¹ / 5 s	300 km.h ⁻¹ /7 s 220 km.h ⁻¹ /5 s
Parachute type surface	E-40 / 40 m ²	E-69 / 69 m ²	E-69 / 69 m ²	E-105U /105 m ²	E-105U /105 m ²	E-105 S /105 m ²	E-107 /107 m ²
Number of lines	22 / 1,8 kN	24 / 1,8 kN	24 / 1,8 kN	30 / 2,6 kN	30 / 2,6 kN	30 / 2,6 kN	40/ 2,2 kN
Lenght of strap	22 kN / 2 m	44 kN / 4 m	44 kN / 4 m	46 kN / 1 m	46 kN / 4 m	46 kN / 4 (5) m	50 kN / 4 m
Slider	No	Yes	Yes	No	No	Yes	Yes
Opening shock [kN]	8,25	17	17	19,7	19,7	21	29
Service life	24 years	24 years	24 years	24 years	24 years	24 years	24 years
Checking every	6 years	6 years	6 years	6 years	6 years	6 years	6 years
Certified	LAA ČR	LAA ČR	LAA ČR	LAA ČR, DULV	LAA ČR, DULV	LAA ČR, DULV	LAA ČR
Rocket engine type	UPI-PFE-200	UPI-PFE-200	UPI-PFE-200	UPI-PFE-400	UPI-PFE-400	UPI-PFE-400	UPI-PFE-400
Total thrustpulze	220 Ns /20°C	220 Ns /20°C	220 Ns /20°C	400 Ns / 20°C	400 Ns / 20°C	400 Ns / 20°C	400 Ns / 20°C
Maximum rocket engine pul	0,96 kN	0,96 kN	0,96 kN	1,42 kN	1,42 kN	1,42 kN	1,42 kN
Burming time at 20°C	0,6 s	0,6 s	0,6 s	0,55 s	0,55 s	0,55 s	0,55 s