FTR - Flight Test Report

Manufacturer		Type testing No.	EAPR-GS-0838/18	Fct=
	UP International Kreuzeckbahnstraße 7 D-82462 Garmisch-Partenkirchen	serial number	Proto	Messen Prüfen Bewerten Rev. 2.3 - 26.11.2014
Model	Meru L	Location	Achensee	EAPR GmbH - Marktstr. 11 D-87730 Bad Grönenbach - Germany
	Mit Faltleinen erprobt	Location	Rofan, Achensee	

ise, vervielfältigt werden

Date of testing	19.07.2018	Minimum take off we 110 kg	eight	Maximum take 130 kg		veight
Testpilot		Benni Hörburger		Anselm Rauh		
Harness		MK Special L		EAPR		dis 4
Pilot's take off weig	nt	110 kg		128	kg	ANTER A

Classification	D



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Cascade occurs No A No A Entry A Rocking back less than 45° A Rocking back less than 45° A Recovery B Spontaneous in less than 3 sec A No A Dive forward angle on exit 0° - 30° Keeping course A No A Cascade occurs 0° - 30° Keeping course A No A Entry No A No A No Recovery No A No A Dive forward angle on exit 0° A No A Cascade occurs A Rocking back less than 45° A Rocking back less than 45° A Dive forward angle on exit 0° A No A Rocking back less than 45° A 11 Exting deep stall (parachutal stall) - 4.4.11 Sec Dive forward angle on exit D A Deep stall achieved Yes Yes Yes Yes Recovery Spontaneous in less than 3 sec A Spontaneous in less than 3 sec A Dive forward angle on exit 0° - 30° Spontaneous in less than 3 sec A No	Cascade occurs No A No Entry No A No Entry B Rocking back less than 45° A Rocking back less than 45° Recovery Spontaneous in 3 to 5 sec B Spontaneous in less than 3 sec Dive forward angle on exit 0° - 30° Keeping course A No Cascade occurs No A No Recovery Recovery No Recovery through pilot action in less than a D Recovery through pilot action in less than a Dive forward angle on exit Spontaneous Spontaneous A No Cascade occurs Recovery through pilot action in less than a D Recovery through pilot action in less than a Dive forward angle on exit Spontaneous Spontaneous A No Cascade occurs Spontaneous No C 30° - 60° Entering a turn of 90° to 180° 11. Exiting deep stall (parachutal stall) - 4.4.11 Yes Yes Yes	ard angle on exit	ads u	0° - 30° Keeping course	A	0° - 30° Keeping course	A
Recovery Spontaneous in 3 to 5 sec B Spontaneous in less than 3 sec A Dive forward angle on exit 0° - 30° Keeping course A 0° - 30° Keeping course A Cascade occurs No A No A No A Recovery Recovery through pilot action in less than 45° A Rocking back less than 45° A Rocking back less than 45° A Dive forward angle on exit 0° Recovery through pilot action in less than a D Recovery through pilot action in less than a D Recovery through pilot action in less than a D Recovery through pilot action in less than a D Recovery through pilot action in less than a D Recovery through pilot action in less than a D Recovery through pilot action in less than a D Recovery through pilot action in less than a D Recovery through pilot action in less than a D Recovery through pilot action in less than a D Recovery through pilot action in less than a D Recovery through pilot action in less than a D Recovery through pilot action in less than a D Recovery through pilot action in less than a No A No A A No A A	Recovery Spontaneous in 3 to 5 sec B Spontaneous in less than 3 sec Dive forward angle on exit 0° - 30° Keeping course A 0° - 30° Keeping course Cascade occurs No A No No A No Entry Recovery through pilot action in less than 45° A Recovery through pilot action in less than a further 3 sec D Recovery through pilot action in less than a further 3 sec Dive forward angle on exit 0° - 60° Entering a turn of 90° to 180° C 30° - 60° Entering a turn of 90° to 180° Cascade occurs No No A No 11. Exiting deep stall (parachutal stall) - 4.4.11 Yes Yes Yes	occurs	trin				
Dive forward angle on exit Description Spontalectors in 16 5 sec Description Spontalectors in 16 5 sec A Dive forward angle on exit 0° - 30° Keeping course A No A Recovery Provide the set than 45° A No A Dive forward angle on exit 0° - 30° Keeping course A No Cascade occurs A Rocking back less than 45° A Recovery through pilot action in less than 35° A Dive forward angle on exit 0° - 60° Entering a turn of 90° to 180° C 30° - 60° Entering a turn of 90° to 180° C 11 Exting deep stall (parachutal stall) - 4.4.11 Ves A No A Deep stall achieved Yes Yes Yes A Recovery Spontaneous in less than 3 sec A Spontaneous in less than 3 sec A Dive forward angle on exit 0° - 30° A 0° - 30° A	Dive forward angle on exit Description Spontalieous in less than 3 sec Dive forward angle on exit 0° - 30° Keeping course A 0° - 30° Keeping course Cascade occurs No A No Entry Recovery through pilot action in less than 45° A Rocking back less than 45° Dive forward angle on exit 30° - 60° Entery Recovery through pilot action in less than a D Dive forward angle on exit 30° - 60° Entering a turn of 90° to 180° C 30° - 60° Entering a turn of 90° to 180° Dive forward angle on exit 30° - 60° Entering a turn of 90° to 180° C 30° - 60° Entering a turn of 90° to 180° 11. Exiting deep stall (parachutal stall) - 4.4.11 Ves Yes Yes		%0	Rocking back less than 45°	A	Rocking back less than 45°	A
Incommonance of the contract	Image of count Image of count Image of count Image of count Cascade occurs No A No Entry No A No Recovery Recovery through pilot action in less than a further 3 sec D Recovery through pilot action in less than a further 3 sec D Dive forward angle on exit So Entry Recovery through pilot action in less than a further 3 sec D 11. Exiting deep stall (parachutal stall) - 4.4.11 Yes Yes			Spontaneous in 3 to 5 sec	В	Spontaneous in less than 3 sec	А
Construction C	Classical outcurs Procession Entry Recovery Recovery Recovery through pilot action in less than a further 3 sec Dive forward angle on exit 30° - 60° Cascade occurs Entering a turn of 90° to 180° 11. Exiting deep stall (parachutal stall) - 4.4.11 Deep stall achieved Yes						
Recovery Percovery through pilot action in less than a further 3 sec D Recovery through pilot action in less than a further 3 sec D Dive forward angle on exit 30° - 60° Entering a turn of 90° to 180° C 30° - 60° Entering a turn of 90° to 180° C 11. Exiting deep stall (parachutal stall) - 4.4.11 Ves Ves Ves A Recovery Yes Yes A A Dive forward angle on exit 0° - 30° A 0° - 30° A	Recovery Recovery through pilot action in less than a further 3 sec D Recovery through pilot action in less than a further 3 sec Dive forward angle on exit 30° - 60° Entering a turn of 90° to 180° C 30° - 60° Entering a turn of 90° to 180° 11. Exiting deep stall (parachutal stall) - 4.4.11 Ves Yes Yes	occurs	tric				
Recovery Percovery through plot action in less than a further 3 sec D Hecovery through plot action in less than a further 3 sec D Dive forward angle on exit 30° - 60° Entering a turn of 90° to 180° C 30° - 60° Entering a turn of 90° to 180° C 11. Exiting deep stall (parachutal stall) - 4.4.11 Ves A No A Deep stall achieved Yes Yes Percovery Recovery Spontaneous in less than 3 sec A Spontaneous in less than 3 sec A Dive forward angle on exit 0° - 30° A 0° - 30° A	Recovery Percovery through plot action in less than a further 3 sec Dive forward angle on exit further 3 sec Cascade occurs 30° - 60° I1. Exiting deep stall (parachutal stall) - 4.4.11 Deep stall achieved Yes		20%		A		A
Dire forward angle on exit M M C 30° - 60° Entering a turn of 90° to 180° C Cascade occurs No A No A A T1. Exiting dep stall (parachutal stall) - 4.4.11 Deep stall achieved Yes Yes Recovery Dive forward angle on exit 0° - 30° A 0° - 30° A	Dive forward angle on exit			further 3 sec		further 3 sec	_
Dive forward angle on exit Yes Yes Dive forward angle on exit 0° - 30° A 0° - 30° A	Incompared county Incompared county 11. Exiting deep stall (parachutal stall) - 4.4.11 Deep stall achieved Yes						
Deep stall achieved Yes Yes Recovery Spontaneous in less than 3 sec A Spontaneous in less than 3 sec A Dive forward angle on exit 0° - 30° A 0° - 30° A	Deep stall achieved Yes Yes			No	A	No	A
Recovery Spontaneous in less than 3 sec A Spontaneous in less than 3 sec A Dive forward angle on exit 0° - 30° A 0° - 30° A			1				
Dive forward angle on exit 0° - 30° A 0° - 30° A	Recovery Spontaneous in less than 3 sec. A Spontaneous in less than 3 sec.	achieved		Yes		Yes	
				Spontaneous in less than 3 sec	А	Spontaneous in less than 3 sec	А
Changing course less than 45° A Changing course 45° or more C	Dive forward angle on exit 0° - 30° A 0° - 30°	ard angle on exit		0° - 30°	A	0° - 30°	A
	Change of course Changing course less than 45° A Changing course 45° or more	course		Changing course less than 45°	A	Changing course 45° or more	С

Recovery		Spontaneous in	Spontaneous in less than 3 sec		А	Spontaneous in less than 3 sec			А
Cascade occurs		No	No		A	No			A
13. Recovery from a developed full stall -	4.4.13								
Dive forward angle on exit		30° - 60°			В	30° - 60°			В
Collapse Cascade occurs (other than collapse)		No collapse No			A	No collapse No			A
Rocking backward		Less than 45°			A	Less than 45°			A
Line tension		Most lines tight			A	Most lines tight			А
14. Asymmetric collapse (trim speed) - 4.4	.14								
Folding lines used		Yes		1	D	Yes			D
Change of course until re-inflation	ę	< 90°	Dive or roll angle	15° - 45°	A	< 90°	Dive or roll angle	15° - 45°	А
Re-inflation behavior	trim speed, trim speed, max 50% collapse	Spontaneous re	e-inflation		А	Spontaneous re	-inflation	· · · · · · · · · · · · · · · · · · ·	А
	trim speed, x 50% colla		Spontaneous re-inflation				milation		
Total change of course Collapse on the opposite side occurs	20 II	No	Less than 360°		A	Less than 360° No			A
Twist occurs	max	No			A	No			A
Cascade occurs		No			A	No			А
Change of course until re-inflation	Θ	90° - 180°	Dive or roll angle	15° - 45°	В	90° - 180°	Dive or roll angle	15° - 45°	В
De lafferte de la charter	trim speed, max 75% collapse	0		1	•	0	1-0-0-0	· · · · · ·	•
Re-inflation behavior	ee co	Spontaneous re			A	Spontaneous re	e-Inflation		A
Total change of course	im s 75%	Less than 360°			A	Less than 360°			<u>A</u>
Collapse on the opposite side occurs Twist occurs	nax tr	No			A	No No			A
Cascade occurs		No			A	No			A
Observe of serves south as here at		008 1025	Diu	150 15-	P		Dia	150 155	
Change of course until re-inflation	Se	90° - 180°	Dive or roll angle	15° - 45°	В	< 90°	Dive or roll angle	15° - 45°	A
Re-inflation behavior	accelerated, max 50% collapse	Spontaneous re	e-inflation		А	Inflates in less	than 3 sec from st	art of pilot action	С
Total change of course	accelerated x 50% colla	Less than 360°			A	Less than 360°			A
Collapse on the opposite side occurs	x 50	No			A	No			A
Twist occurs	ma	No			A	No			А
Cascade occurs		No		1	A	No			A
Change of course until re-inflation	Se	90° - 180°	Dive or roll angle	45° - 60°	С	90° - 180°	Dive or roll angle	60° - 90°	D
Re-inflation behavior	accelerated, max 75% collapse	Spontaneous re	e-inflation		А	Spontaneous re	a-inflation		А
	accelerated ix 75% colla						-IIIIatioII		
Total change of course Collapse on the opposite side occurs	cce 75	Less than 360° No	,		A	Less than 360° No			A
Twist occurs	a max	No			A	No			A
Cascade occurs		No			A	No			Α
15. Directional control with a maintained as	symmetric c	ollapse - 4.4.15							
Able to keep course straight		Yes			A	Yes			A
180° turn away from the collapsed side possib	ole in 10 sec	Yes		А	Yes		А		
Amount of control source between two and stal	l eu eulo	More than 50% of the symmetric control travel		٨	More than 50% of the symmetric control travel		•		
Amount of control range between turn and stal	i or spin	More than 50%	s of the symmetric	control travel	A	wore than 50%	of the symmetric	control travel	A
16. Trim speed spin tendency - 4.4.16									
Spin occurs		No			A	No			A
17. Low speed spin tendency - 4.4.17									
17. Low speed spin tendency - 4.4.17 Spin occurs	10	No No			A	No No			A
17. Low speed spin tendency - 4.4.17	18				A	No			
17. Low speed spin tendency - 4.4.17 Spin occurs	18		in 90° to 180°				in 90° to 180°		
17. Low speed spin tendency - 4.4.17 Spin occurs 18. Recovery from a developed spin - 4.4.	18	No	in 90° to 180°		A	No	in 90° to 180°		A
17. Low speed spin tendency - 4.4.17 Spin occurs 18. Recovery from a developed spin - 4.4. Spin rotation angle after release	18	No Stops spinning	in 90° to 180°		A C	No Stops spinning	in 90° to 180°		A C
17. Low speed spin tendency - 4.4.17 Spin occurs 18. Recovery from a developed spin - 4.4. Spin rotation angle after release Cascade occurs	18	No Stops spinning	in 90° to 180°		A C	No Stops spinning	in 90° to 180°		A C
17. Low speed spin tendency - 4.4.17 Spin occurs 18. Recovery from a developed spin - 4.4. Spin rotation angle after release Cascade occurs 19. B-line-stall - 4.4.19	18	No Stops spinning	in 90° to 180°		A C A	No Stops spinning	in 90° to 180°		A C A
17. Low speed spin tendency - 4.4.17 Spin occurs 18. Recovery from a developed spin - 4.4. Spin rotation angle after release Cascade occurs 19. B-line-stall - 4.4.19 Change of course before release Behaviour before release	18	No Stops spinning	in 90° to 180°		C A NA NA	No Stops spinning	in 90° to 180°		A C A NA NA
17. Low speed spin tendency - 4.4.17 Spin occurs 18. Recovery from a developed spin - 4.4. Spin rotation angle after release Cascade occurs 19. B-line-stall - 4.4.19 Change of course before release	18	No Stops spinning	in 90° to 180°		C A NA	No Stops spinning	in 90° to 180°		A C A NA
17. Low speed spin tendency - 4.4.17 Spin occurs 18. Recovery from a developed spin - 4.4. Spin rotation angle after release Cascade occurs 19. B-line-stall - 4.4.19 Change of course before release Behaviour before release Recovery Dive forward angle on exit	18	No Stops spinning	in 90° to 180°		C A NA NA NA NA	No Stops spinning	in 90° to 180°		A C A NA NA NA
17. Low speed spin tendency - 4.4.17 Spin occurs 18. Recovery from a developed spin - 4.4. Spin rotation angle after release Cascade occurs 19. B-line-stall - 4.4.19 Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs	18	No Stops spinning	in 90° to 180°		C A NA NA NA	No Stops spinning	in 90° to 180°		A C A NA NA NA
17. Low speed spin tendency - 4.4.17 Spin occurs 18. Recovery from a developed spin - 4.4. Spin rotation angle after release Cascade occurs 19. B-line-stall - 4.4.19 Change of course before release Behaviour before release Recovery Dive forward angle on exit	18	No Stops spinning	in 90° to 180°		A C A NA NA NA NA	No Stops spinning	in 90° to 180°		A C A NA NA NA
17. Low speed spin tendency - 4.4.17 Spin occurs 18. Recovery from a developed spin - 4.4. Spin rotation angle after release Cascade occurs 19. B-line-stall - 4.4.19 Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs	18	No Stops spinning			C A NA NA NA NA	No Stops spinning			A C A NA NA NA
17. Low speed spin tendency - 4.4.17 Spin occurs 18. Recovery from a developed spin - 4.4. Spin rotation angle after release Cascade occurs 19. B-line-stall - 4.4.19 Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs 20. Big ears - 4.4.20	18	No Stops spinning No			A C A NA NA NA NA	No Stops spinning No			A C A NA NA NA NA
17. Low speed spin tendency - 4.4.17 Spin occurs 18. Recovery from a developed spin - 4.4. Spin rotation angle after release Cascade occurs 19. B-line-stall - 4.4.19 Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs 20. Big ears - 4.4.20 Entry procedure Behaviour during big ears	18	No Stops spinning No Stops data Standard techn Stable flight	ique		A C A NA NA NA NA A A	No Stops spinning No Stops spinning Stops spinning Stops spinning Stops spinning Special device Stable flight	required		A C A NA NA NA NA A A A
17. Low speed spin tendency - 4.4.17 Spin occurs 18. Recovery from a developed spin - 4.4. Spin rotation angle after release Cascade occurs 19. B-line-stall - 4.4.19 Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs 20. Big ears - 4.4.20 Entry procedure Behaviour during big ears Recovery	18	No Stops spinning No Stops data Standard techn Stable flight Spontaneous ir	ique		C A A NA NA NA A A B	No Stops spinning No Sopecial device Stable flight Spontaneous in			A C A NA NA NA A A A A
17. Low speed spin tendency - 4.4.17 Spin occurs 18. Recovery from a developed spin - 4.4. Spin rotation angle after release Cascade occurs 19. B-line-stall - 4.4.19 Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs 20. Big ears - 4.4.20 Entry procedure Behaviour during big ears Recovery Dive forward angle on exit	18	No Stops spinning No Stops data	ique		A C A NA NA NA NA A A	No Stops spinning No Stops spinning Stops spinning Stops spinning Stops spinning Special device Stable flight	required		A C A NA NA NA NA A A A
17. Low speed spin tendency - 4.4.17 Spin occurs 18. Recovery from a developed spin - 4.4. Spin rotation angle after release Cascade occurs 19. B-line-stall - 4.4.19 Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs 20. Big ears - 4.4.20 Entry procedure Behaviour during big ears Recovery Dive forward angle on exit 21. Big Ears in accelerated flight - 4.4.21	18	No Stops spinning No Stops spinning Standard techn Stable flight Spontaneous ir 0° - 30°	ique 1 3 to 5 sec		C A A NA NA NA A A B A	No Stops spinning No Special device Stable flight Spontaneous in O° bis 30°	required less than 3 sec		A C A NA NA NA NA A A A A A
17. Low speed spin tendency - 4.4.17 Spin occurs 18. Recovery from a developed spin - 4.4. Spin rotation angle after release Cascade occurs 19. B-line-stall - 4.4.19 Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs 20. Big ears - 4.4.20 Entry procedure Behaviour during big ears Recovery Dive forward angle on exit 21. Big Ears in accelerated flight - 4.4.21 Entry procedure	18	No Stops spinning No Stops spinning No Standard techn Stable flight Spontaneous ir 0° - 30° Standard techn	ique 1 3 to 5 sec		C A A NA NA NA A A A A A A A A A A A A A	No Stops spinning No Special device Stable flight Spontaneous in 0° bis 30° Special device	required less than 3 sec		A C NA NA NA NA A A A A A
17. Low speed spin tendency - 4.4.17 Spin occurs 18. Recovery from a developed spin - 4.4. Spin rotation angle after release Cascade occurs 19. B-line-stall - 4.4.19 Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs 20. Big ears - 4.4.20 Entry procedure Behaviour during big ears Recovery Dive forward angle on exit 21. Big Ears in accelerated flight - 4.4.21	18	No Stops spinning No Stops spinning Standard techn Stable flight Spontaneous ir 0° - 30°	ique 1 3 to 5 sec		C A A NA NA NA A A B A	No Stops spinning No Special device Stable flight Spontaneous in O° bis 30°	required less than 3 sec		A C A NA NA NA NA A A A A A A
17. Low speed spin tendency - 4.4.17 Spin occurs 18. Recovery from a developed spin - 4.4. Spin rotation angle after release Cascade occurs 19. B-line-stall - 4.4.19 Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs 20. Big ears - 4.4.20 Entry procedure Behaviour during big ears Recovery Dive forward angle on exit 21. Big Ears in accelerated flight - 4.4.21 Entry procedure	18	No Stops spinning No Stops spinning No Standard techn Stable flight Spontaneous ir 0° - 30° Standard techn	ique 1 3 to 5 sec		C A A NA NA NA A A A A A A A A A A A A A	No Stops spinning No Special device Stable flight Spontaneous in 0° bis 30° Special device	required less than 3 sec required		A C NA NA NA NA A A A A A
17. Low speed spin tendency - 4.4.17 Spin occurs 18. Recovery from a developed spin - 4.4. Spin rotation angle after release Cascade occurs 19. B-line-stall - 4.4.19 Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs 20. Big ears - 4.4.20 Entry procedure Behaviour during big ears Recovery Dive forward angle on exit 21. Big Ears in accelerated flight - 4.4.21 Entry procedure Behaviour during big ears	18	No Stops spinning No Stops spinning No Standard techn Stable flight Standard techn Stable flight	ique 1 3 to 5 sec		C A NA NA NA NA A A A A A	No Stops spinning No Stops spinning No Special device Stable flight Special device Stable flight	required less than 3 sec required		A C NA NA NA NA A A A A A A A A A
17. Low speed spin tendency - 4.4.17 Spin occurs 18. Recovery from a developed spin - 4.4. Spin rotation angle after release Cascade occurs 19. B-line-stall - 4.4.19 Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs 20. Big ears - 4.4.20 Entry procedure Behaviour during big ears Recovery Dive forward angle on exit 21. Big Ears in accelerated flight - 4.4.21 Entry procedure Behaviour during big ears Recovery Dive forward angle on exit Entry procedure Behaviour during big ears Recovery Dive forward angle on exit Behaviour during big ears Recovery Dive forward angle on exit Behaviour during big ears Recovery Dive forward angle on exit Behaviour during big ears Recovery Dive forward angle on exit Behaviour during big ears Recovery Dive forward angle on exit Behaviour during big ears Recovery Dive forward angle on exit Behaviour during big ears Recovery Dive forward angle on exit Behaviour during big ears Recovery Dive forward angle on exit Behaviour during big ears Recovery Dive forward angle on exit Behaviour during big ears Recovery Dive forward angle on exit Behaviour during big ears Recovery Dive forward angle on exit Behaviour during big ears Recovery Dive forward angle on exit Behaviour during big ears Recovery Dive forward angle on exit Behaviour during big ears Recovery Dive forward angle on exit Behaviour during big ears Recovery Dive forward angle on exit Behaviour during big ears Recovery Dive forward angle on exit Behaviour during big ears Recovery Dive forward angle on exit Behaviour during big ears Recovery Dive forward angle on exit Behaviour during big ears Recovery Behaviour immediately after releasing the acc		No Stops spinning No Stops spinning No Standard techn Stable flight Spontaneous ir O° - 30° Standard techn Stable flight	ique 1 3 to 5 sec		A C A NA NA NA NA A A A A A A A A A A	No Stops spinning No Stops spinning No Special device Stable flight Spontaneous in O* bis 30° Special device Stable flight Spontaneous in O* bis 30°	required less than 3 sec required		A C NA NA NA NA A A A A A A A A A A
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