

DEPLOYABLE FIBER OPTIC REEL AND BACK PACK SYSTEM

MODULAR ADVANCED REEL SYSTEM (MARS)

Applied Optical Systems, Inc. is pleased to introduce the first modular deployable reel system to fully integrate a back pack system as one of many deployment options. The AOS Fiber Optic Modular Advanced Reel System (MARS) incorporates many features unique to tactical fiber optic cable, not afforded by other back pack systems with metal style reels. Current back pack systems provide limited reel options and don't offer flexible configurations. MARS incorporates an entirely new philosophy of maximum modularity, designed throughout all accessories. Thus AOS AFO style reels are used in A-Frames, cradles, transit cases, tri-pods, bumper mounts, as well as on backpack systems. The customer has the flexibility to transfer AFO style reels from one accessory to another with full inter-operability. Additionally, AFO MARS reels include optional built in fiber optic cleaning kits; integrated rewind handle, 30ft built in divider, connector cradle storage design, and stackable features. All products are designed to be lighter weight, more functional and yet durable in today's rugged environment.



FEATURES	BENEFITS				
MODULAR DESIGN	BACK PACK INTEGRATES WITH AOS AFO STYLE REEL SYSTEMS				
LIGHT WEIGHT CONSTRUCTION	BOTH REEL AND BACK PACK FRAME BUILT WITH LIGHT WEIGHT YET DURABLE MATERIALS				
SELECTION OF REELS	SELECTION OF 100M, 300M OR 500M REEL OPTIONS				
SLIP RING OPTION	ENABLES UN-INTERRUPTIBLE SIGNAL TRANSMISSION DURING DEPLOYMENT OR ACQUISITION				

INTEGRATED FIBER OPTIC (AND ELECTRICAL) SLIP RING OPTION

Applied Optical Systems "ARB" (AOS Reel Backpack) can also accommodate either a fiber optic slip ring or a combination fiber optic/electrical slip ring option.

The slip ring option enables un-interruptible transmission of either fiber optic and/or power to/from the remote unit, while cable is being deployed.

The back is also designed to lay flat on the ground so that users can acquire or deploy the cable with an integrated handle feature.

The slip ring function adds 2.75lbs to the overall weight of the reel and can be ordered in 2 or 4 fibers, single mode (9/125um or multi-mode (62.5/125) and the option of two 24 AWG conductors. Slip ring voltage is rated at 600VDC and insertion loss contribution is 2.00dB MAX. at 9/125um.

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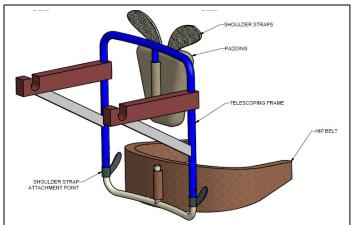
Phone 877.509.1500 Patent pending

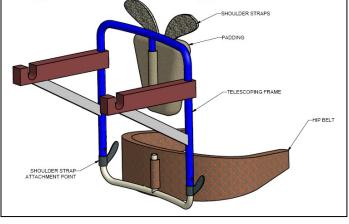
PRELIMINARY DATA SHEET



The Modular Advanced Reel System (MARS) meets the unique demands of deployable fiber optic cable and provides critical functionality to the deployment personnel. The ability to deploy quickly and retrieve on various mounts and with an integrated rewind handle means time saved in the field or battle zone. Having an integrated cleaning kit built into the reel can be critical when remotely deployed and "dirt happens". The 30ft built in divider allowing the separate short tether end to be accessed easily, the efficient connector storage in the reel, and reel storage and stackable reel features allow for quick and secure operations of your communications networks.

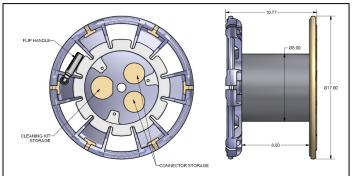
All these features added to a lower weight than common reel systems, make MARS the most advanced fiber optic reeling system available in todays market!







AOS MARS FAMILY OF REELS





Back Pack Options

Accessory Part Number ARB			ARB	-0100	-x	-X	-В		
							Color		
Configuration Type						B - Black			
ARB	RB Backpack (100, 300 500 meter reels)						T- Desert Ta	n	
Reel size/Capacity (@ 5.5mm diameter Cable)									
0100	100 meter	NOTE: Larger Reel s				"X" Used for Slip Ring Customization **			
0300	300 meter	Available (SEE BELOW) but							
0500	500 meter	may exceed Maximu carry weight	ım personn	el					

PART NUMBER	Flange Diameter	HUB DIAMETER	WIDTH	WEIGHT	CAPACITY 6mm OD Cable	CAPACITY * 7.2mm OD Cable
***-0100-X-Y	17"	10"	5"	9.5 LBS	100M	75M
***-0300-X-Y	17"	8"	7.75"	11 LBS	300M	200M
***-0500-X-Y	17"	8"	10.75"	11.5 LBS	500M	350M
***-0750-X-Y	17"	8"	14.75"	12 LBS	750M	500M
***-1000-X-Y	17"	8"	18.75"	13 LBS	1000M	700M
***-1500-X-Y	17"	8"	26.75"	14 LBS	1500M	1000M

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