



TKOPARS



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An innovative technology leader of tactical, security, and rescue equipment.

RSWS

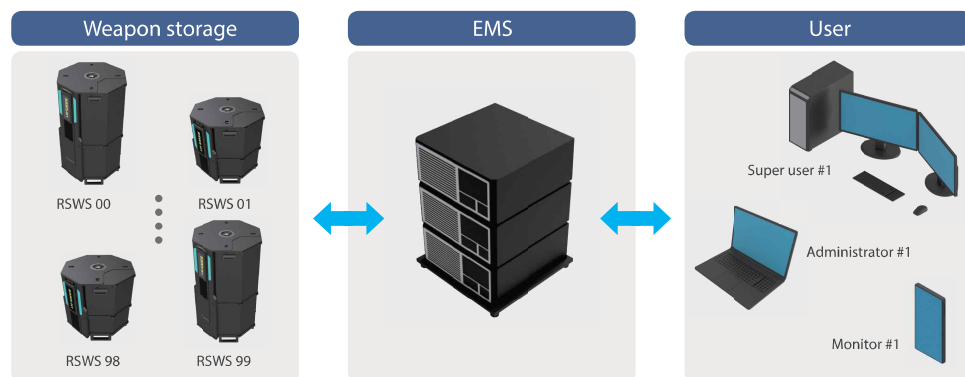
KOREA DEFENSE AND RESCUE TECHNOLOGY

Rotational Smart Weapon management System



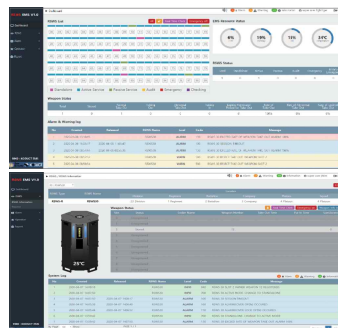
Feature

- A system that manages the carry in & out of firearms in real time through personal identification information on the Central Management Web Server.
- The carry in & out of firearms through personal identification information such as fingerprints, passwords, iris and RFID TAGS in the weapon storage.
- Monitoring the status of gun carry in & out and the state of weapon storage (Temperature, shock) through IPC (Inter-Process Communication) with EMS (Element Management Server).
- Manage and back up to all databases on the management system.
- Central Management Web Server can manage 100 set of weapon storage simultaneously and each weapon storage can hold 10 of weapons.
- Administrators authorized by grade (Web client) connect to the Web server for real-time management (GUI program).
- Remote control of the weapon storage through the Central Management Web Server (Real-time gun checks, unlock side doors, etc.).
- Monitoring and remote control through smartphone applications.



Specifications (EMS / GUI program)

EMS	
Operating system	LINUX
Simultaneous manageable RSWS	100
GUI program	
Use environment	Chrome
Simultaneous connecting user	20
Main function	<ul style="list-style-type: none"> • Graphical representation of weapon storage • Weapon registration • Real time weapon check • Take in/out time check • Event log / alarm • Data backup



Specifications (Weapon storage)



Model	RSWS-R1	RSWS-H1
Weapon type	Rifle	Hand gun (Magazine)
Weapon quantity	10	10 (30)
Dimension (cm)	67 x 68 x 115	67 x 68 x 68
Weight (kg)	80	50
Normal operation power	110~220 VAC, 2~3A	
Emergency power	Battery 12V, 12AH 20HR	
Take in/out at emergency	over 24 hour	
Side door unlock	Key or remote control	
Individual recognition method	Basic : Finger print, Password Option : IRIS, RF ID tag	
Etc.	Weapon registration, Voice guidance, Vibration and temperature sensing	

Side door lock handle
Status lamp
Control panel

Front cover
Front door
Side door



Normal operation

Emergency

Stand by

Front cover open
→ Recognition

Front door open

Carry in /out

Side door unlock
→ Side door open
→ Carry out



KPA

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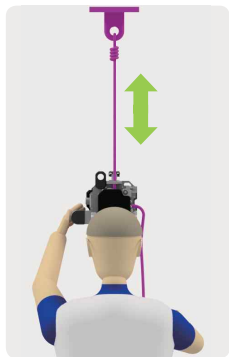
KODUCT Power Ascender



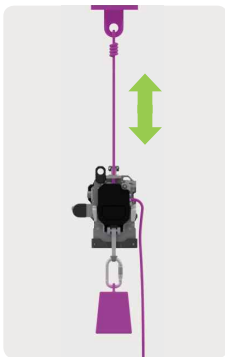
Feature

- The KPA uses portable power (Electric motors and gasoline engines) to pull or release ropes to safely and efficiently move loads vertically or horizontally.
- KPA is classified as KMA (KODUCT Motor Power Ascender) and KEA (KODUCT Engine Power Ascender).
- KMA can be ascended, descended and horizontally move by motor power, controlled directly by the driver or remotely by remote control.
- KEA ascend with gasoline engine power and descend manually, controlled directly by the driver.
- The KPA is equipped with a normal brake and emergency braking system independently, allowing safe descend in the event of an unexpected equipment failure.

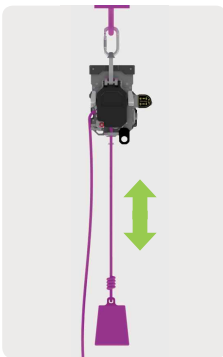
Directly running control



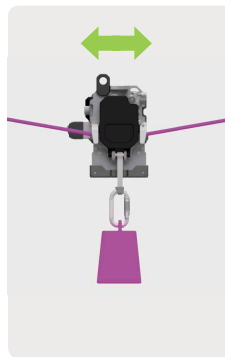
Remote running control



Remote winch control



Remote horizontal control

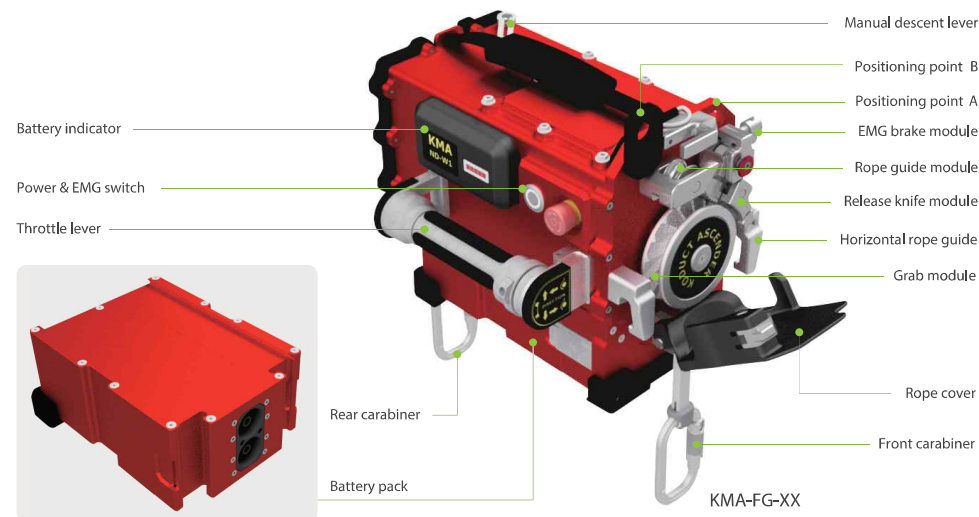


Specifications

Model number	KMA-ML-S1	KMA-ML-L1(*)	KMA-ML-W1	KMA-RS-S1	KMA-RS-W1
Application field (Main color)	Military (Black)			Rescue (Red)	
Total weight (kg) / Voyage distance (m)	14.5 / 600	15.5 (14.8) / 600 (180)	15.5 / 600	14.5 / 600	15.5 / 600
Dimensions (W x H x L) (cm)	24 x 26 x 31	24 x 26 x 34	24 x 26 x 34	24 x 26 x 31	24 x 26 x 34
Working load limit / Maximum load limit(kg)	110 / 120	170 / 180	200 / 250	110 / 120	200 / 250
Ascending speed (m/s)	0 ~ 0.9	0~0.65 (0~1)	0 ~ 0.45	0 ~ 0.9	0 ~ 0.45
Ingress Protection	IP68			IP67	
Battery type / Battery charging time (min)	Li-ion (LiFePO4) / 90				
Fuel / oil tank capacity(Liter)	X				
Remote control distance (m)	100				
Body material	Aluminum alloy				



Main part name



Line-up



KMA-FG-S1	KMA-FG-W1	KMA-ND-S1	KMA-ND-W1	KEA-MN-S1	KEA-MN-W1
Fire station & Government (Red)		Industry (Blue)		Industry (Black)	
14.9 / 600	15.9 / 600	14.5 / 600	15.5 / 600	13.5 / 700	13.5 / 700
24 x 29 x 32	24 x 29 x 35	24 x 26 x 31	24 x 26 x 34	28 x 32 x 48	28 x 32 x 48
110 / 120	200 / 250	110 / 120	200 / 250	170 / 190	200 / 250
0 ~ 0.9	0 ~ 0.45	0 ~ 0.9	0 ~ 0.45	0 ~ 0.45	0 ~ 0.3
IP66		IP65		IP55	
Li-ion (LiFePO4) / 90				X	
X				0.63 / 0.1	
100				X	
Aluminum alloy					

SBSR

KOREA DEFENSE AND RESCUE TECHNOLOGY

Ship Boarding Support Robot



Feature

- Robot that attach to ship's outer surface and climb up to the target point with monitoring camera and hooking up to the ship's rail with rope or wire ladder and all-around security. It can support secretly and quickly board a ship in which a kidnapping or trouble has occurred.
- Images taken by cameras installed on the robot are transmitted wirelessly to multiple monitors (Main controller, portable controller, and Helmet monocular) to install hooks on ship rails and to all-around security the deck.
- Accessing the vessel above water or underwater, attaching the magnetic wheels of the robot on the outer surface of the ship and remote control with the main controller or portable controller.
- Under certain circumstances, the robot can be controlled in automatic / manual mode.

Installation→ Climbing



Hook adjust



Hooking→ Observation

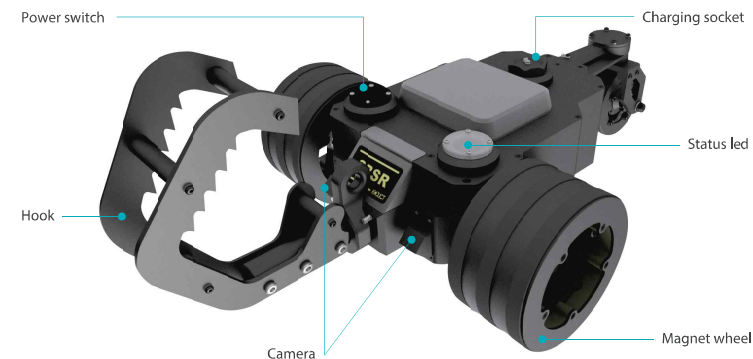
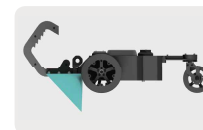
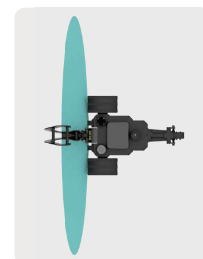


Specifications (SBSR)

Dimension (W x L x H) (mm)	420 x 740 (690) x 290	Voyage distance (m)	50
Total weight (kg)	15	Remote control distance (m)	50
Drag weight (kg)	3	Ingress Protection	IP 67
Maximum speed (m/s)	0.4	Camera view angle (deg.)	V : ±45, H : ±80
Grade ability (deg.)	105	Power	12 V Li-ion battery
Minimum ground distance (mm)	43	Charging time (min)	30



SBSR main part name

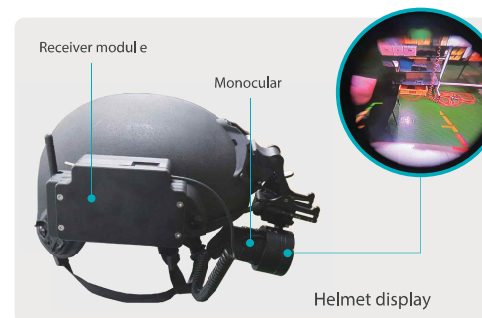


Specifications (Control & monitoring)

	Main controller	Portable controller (with wrist band)	Monocular + receiver module
Dimension (W x L x H) (mm)	400 x 330 x 170	155 x 64 x 40	75 x Φ45
Display size (W x H) (mm)	200 x 114	42 x 31	15.3 x 10.2
Power	12 V Li-ion battery	3V Ni-cd battery	12 V Li-ion battery



Control & monitoring device



KTFL

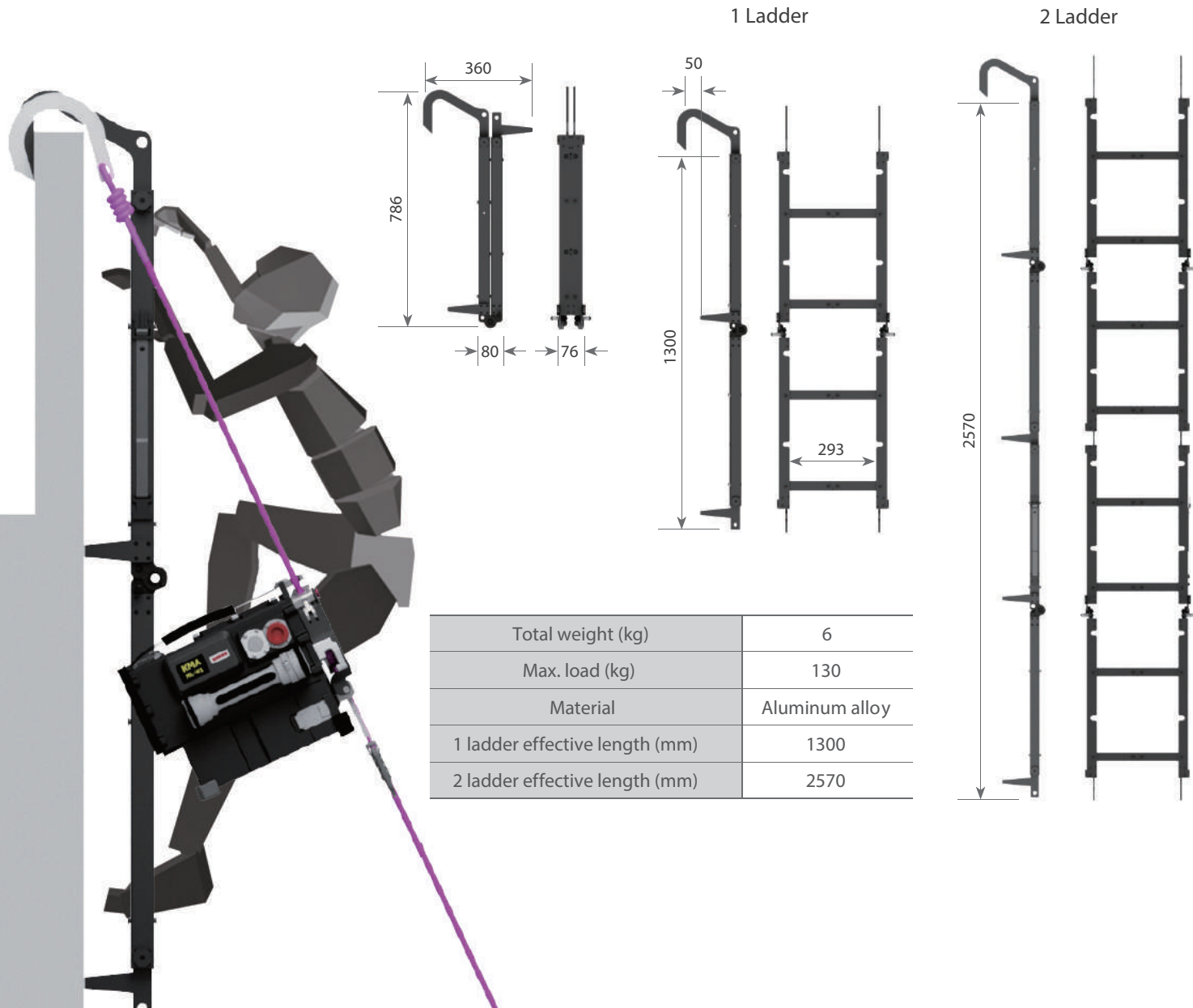
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KODUCT Tactical Fold Ladder

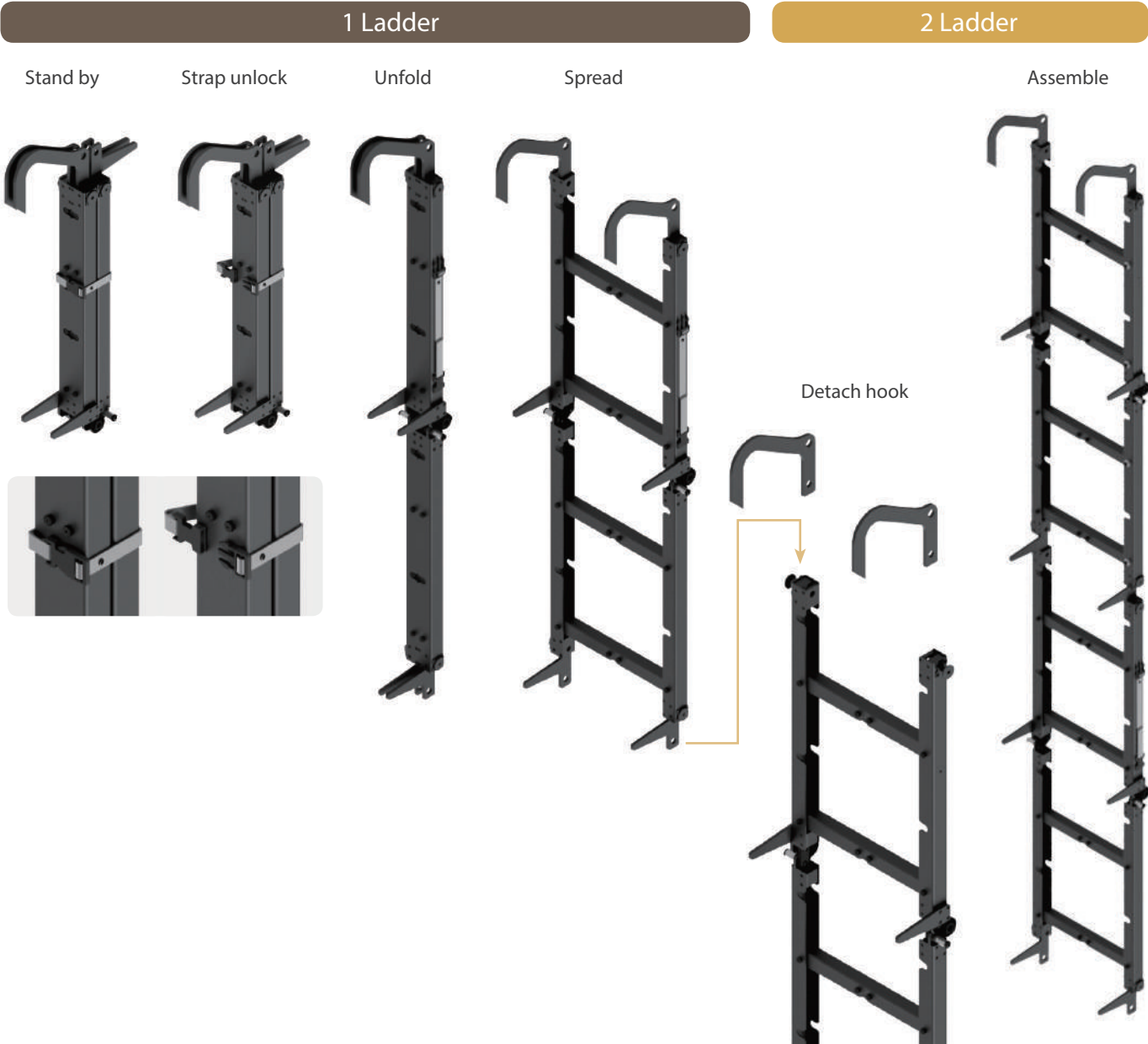
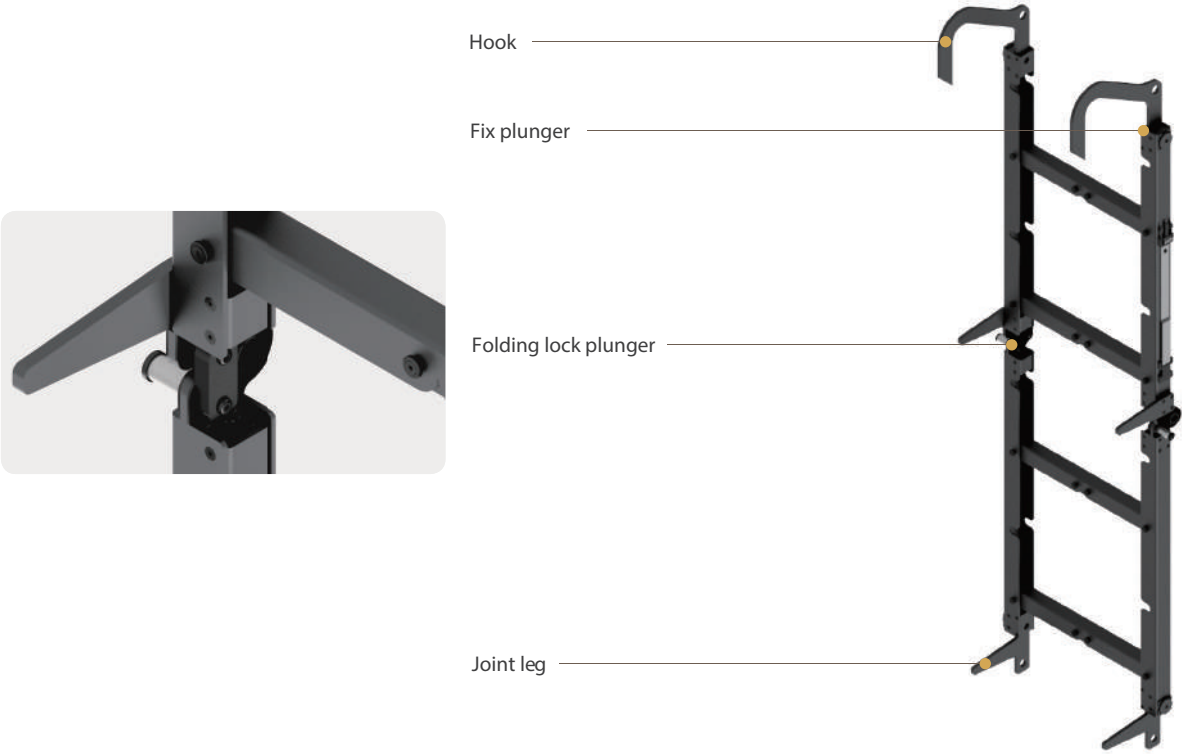
Feature

- Equipment that facilitates the overcoming of obstacles when climbing outer walls using ropes.
- Use this Tactical Fold Ladder when the rope fixing position is adjacent or behind the obstacle.
When closer you approach the obstacle, the narrower the gap between the outer wall and the rope.
It make difficult to overcome the obstacle.
- Hooks can be detached and ladders can be connected to each other, which can be used to overcome vertical obstacles.

Specifications



Main part name



KAFC

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KODUCT Ammunition Feed Chute



Feature

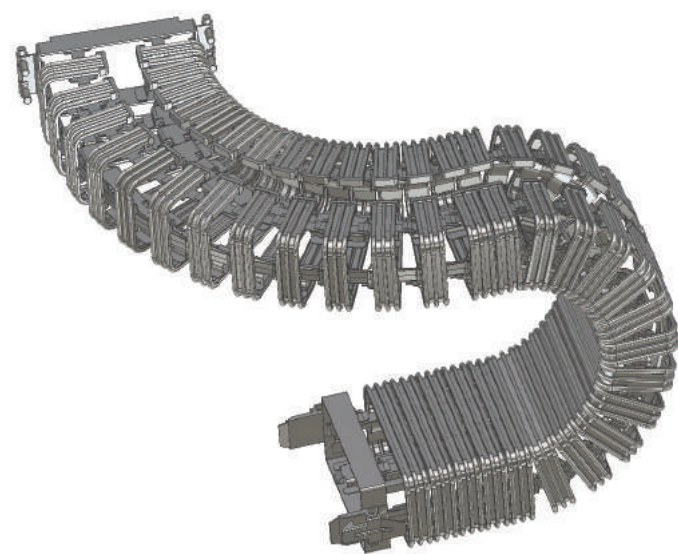
- KAFC(12.7/40mm)developed for first time in Korea
- Mechanism that can Bend/Twist/Shrink/Expansion
- Most essential equipmnet in remote fire control system for future combat system
- Most essential equipmnet for non-linear, non-contact and asymmetric combat

육군 대표 브랜드

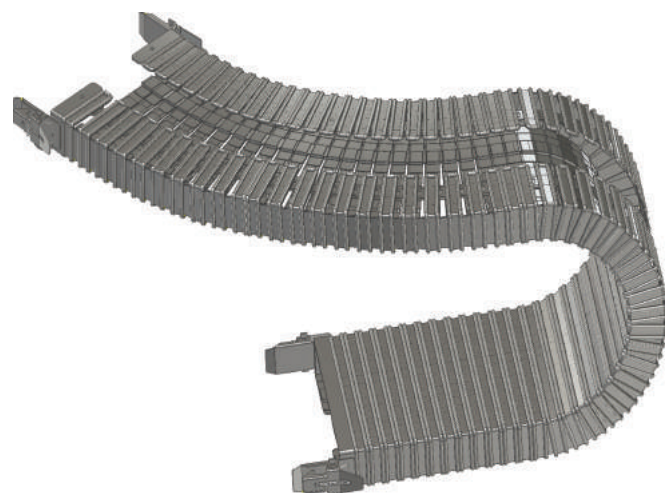
Army TIGER 4.0



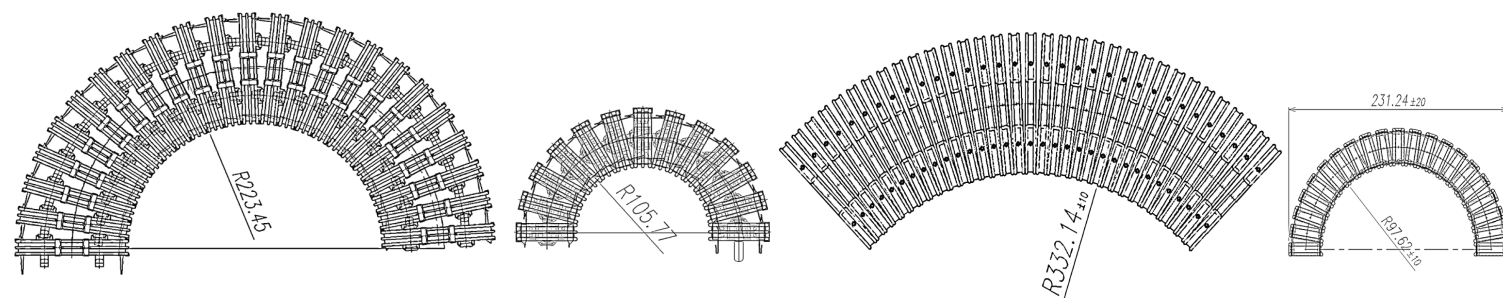
Specifications



KAFC-40mm



KAFC-12.7mm



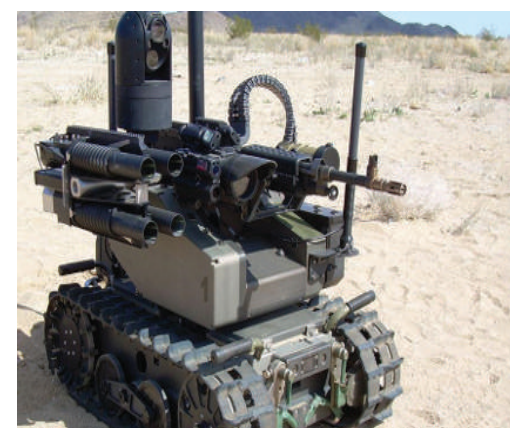
Applications(machine gun)



MK19 / K4



M2 / K6



Military robot



Infantry fighting vehicle



Armored personnel carrier

