

**MADSEN ARMS**

DANSK INDUSTRI SYNDIKAT, COMPAGNIE MADSEN \* COPENHAGEN \* DENMARK

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COMPAGNIE MADSEN

COPENHAGEN · DENMARK

TELEGRAMS: SYNDIKAT, COPENHAGEN



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## The MADSEN Sub-Machine Gun (Machine Carbine)

is equipped with a folding skeleton butt and it can be fired with this shoulder piece extended or with the shoulder piece folded. This gun is normally chambered for the 9 mm Parabellum pistol cartridge, but it can be chambered for the .45" automatic pistol cartridge and also for the 7.65 mm pistol cartridge.



### Main Characteristics

Calibre .....	9	mm = 0.35 inch.
Weight without magazine and sling .....	3.15	kgs = 7 lbs.
Weight of empty magazine .....	220	g = 0.5 lbs.
Weight of filled magazine .....	610	g = 1.35 lbs.
Length of barrel .....	200	mm = 7.87 inch.
Length with shoulder piece extended .....	780	mm = 30.71 inch.
Length with shoulder piece folded .....	530	mm = 20.87 inch.

Magazine holds 32 rounds.

Rate of fire 500—550 rounds per min.



The MADSEN Sub-Machine Gun (Machine Carbine).

Reliable war weapon. Simple and fool-proof. An extra safety device, the breech block retainer, definitely prevents accidental discharge.

Can be made without or with single shot device according to requirement.



The weapon can be supplied with insulating material on the sides of the pistol grip to protect it from becoming over-heated by the sun.

If desired, the weapon can be supplied with a removable barrel cover to which a special short bayonet can be affixed.



The flat shape of the assembled weapon, with the magazine inserted from below, enables it to be carried, or slung on the users chest or back, in an inconspicuous manner, absolutely safe, yet ready for instant action.



The weapon ready for instant action.



# The MADSEN 51 mm Mortar

## for Advanced Field Use

The mortar's base plate is provided with two legs to stabilize the mortar at the time of firing.



### Main Characteristics

Calibre .....	51 mm = 2 inches
Weight of mortar .....	17.5 kgs = 39 lbs
Length extended .....	1240 mm = 48.8 inches
Length folded .....	840 mm = 33.1 inches
Breadth extended .....	700 mm = 27.5 inches
Breadth folded .....	450 mm = 17.2 inches
Muzzle height with 0° elevation .....	250 mm = 9.8 inches
Elevation limit .....	0°—90° *)
Direction limit .....	50°
Length of tube .....	430 mm = 16.9 inches
Muzzle velocity, V <sub>e</sub> .....	100 m/sec. (110 yards/sec.)
Max. range .....	750 m = 820 yards
Rate of fire .....	7—10 rounds per min.
Rate of fire at moving targets .....	abt. 5 rounds per min.

\*) The mortar can also be arranged on hill slopes to fire at angles of depression, because the shell is retained in the chamber until fired

#### Ammunition:

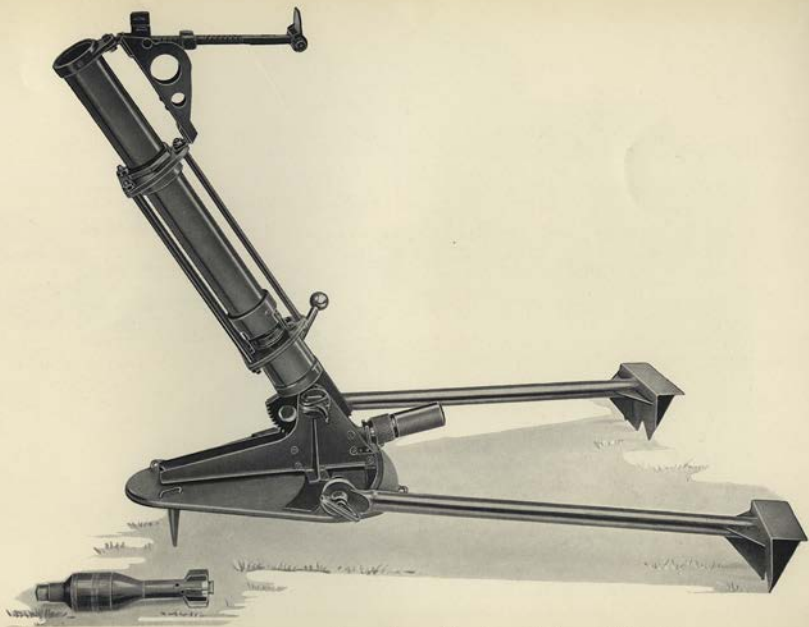
- a) Armour Piercing shells with hollow charge,
- b) H. E. shells charged with T.N.T.,
- c) Practice shells containing no explosives,
- d) Smoke shells.

Launching cartridge for all 4 types of shell; Blank shotgun cartridge 20-bore.



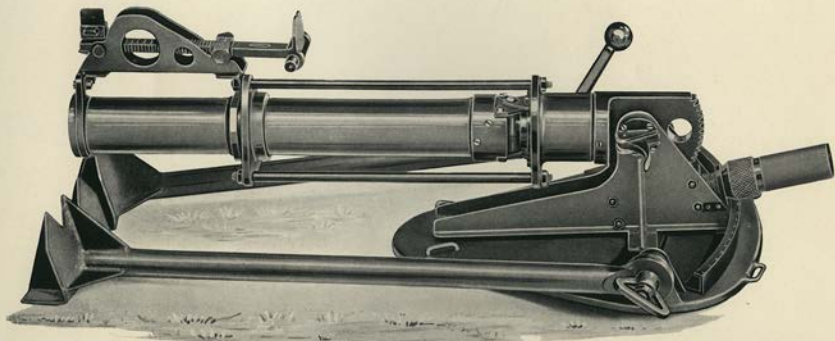
The MADSEN 51 mm Mortar in position for combat, flat trajectory. Loading operation.

This weapon is capable of both low and high trajectory fire and can therefore engage both tanks and living targets. It excels by absence of smoke and flame when fired, whereby it has every chance of remaining undetected by the enemy.



The MADSEN 51 mm Mortar in one of the various positions for combat, curved trajectory.

Firing over friendly troops, successfully and safely achieved.



The MADSEN 51 mm Mortar in position for transport.

On emergencies, e. g. surprise encounters with enemy armoured cars, the mortar may also be fired from this folded position.

This mortar is designed for all-round use, and it may be conveniently employed by paratroopers. Its special construction makes it possible to fire with depression, which might be convenient for direct fire in mountain warfare and streetfights from windows, walls, etc.

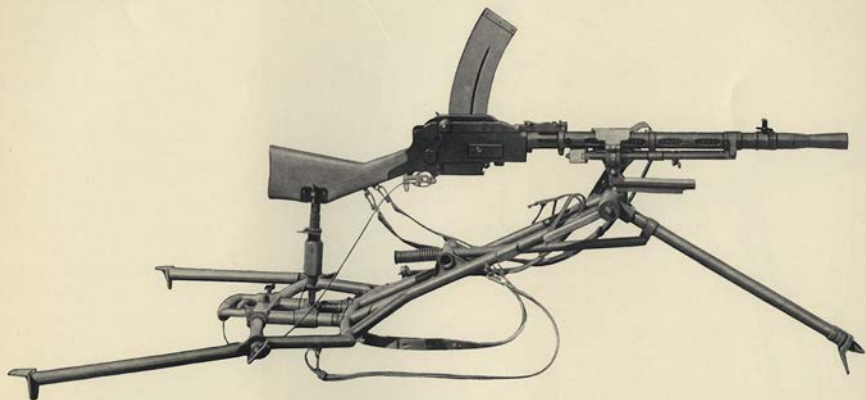
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Machine Gun for All Designs of Rifle Cartridge



The MADSEN Light Machine Gun.

Can be fired from its bipod or from a tripod. This light machine gun may also in emergencies be fired from the shoulder or hip like an ordinary rifle.



The MADSEN Light Machine Gun.

With the wellknown features of the MADSEN Light Machine Gun also comes a special portable tripod ensuring a steady support for the gun when being employed for sustained fire (e. g. in prepared defence positions).



The MADSEN Light Machine Gun.

The tripod is swiftly converted into a high position mounting with an all-round traverse for shooting in high vegetation, in mountains, and against paratroopers.



## The MADSEN/SAETTER Machine Gun

The MADSEN/SAETTER machine gun is an air-cooled, belt-fed light weight machine weapon developed after the Second World War, and in many respects it is one of the most remarkable guns ever produced, embodying all the experience gained within recent years in the structure of military automatic small arms.

This gun is primarily intended to be fired from its tripod mounting, satisfying the requirements of the *medium or heavy machine gun*. Still the total weight of gun and tripod is less than approximately 28 kgs (62 lbs.), and the weapon is normally carried forward readily by the infantry machine gun section, one man carrying the gun and one man carrying the tripod mounting, but the machine gun itself is also provided with a bipod and a pistol grip enabling the gun to be used by one man.



### Main Characteristics

Weight of gun, with light barrel .....	11.1 kgs = 24.5 lbs.
"    "    "    "    heavy    "    .....	11.6 kgs = 25.6 lbs.
Weight of tripod .....	16.3 kgs = 36.2 lbs.
Weight of changeable barrel, light .....	2.7 kgs = 5.95 lbs.
"    "    "    "    heavy    "    .....	3.2 kgs = 7.05 lbs.
Weight of ammunition box .....	2.3 kgs = 5.1 lbs.
Weight of 50 cartridges (7.62 mm) with belt .....	1.55 kgs = 3.42 lbs.
Length of gun .....	1290 mm = 50.7 inches
Length of changeable barrel .....	660 mm = 26.0 inches
Calibre: Any military rimless cartridge of normal infantry calibre from 6.5 to 8 mm (inclusive of the NATO 7.62 mm cartridge), by merely changing barrel.	
Ballistics .....	standard for ammunition employed
Feed .....	by continuous belt of 50 rounds, which can be joined up to any desired length
Traversing limit of tripod .....	30°
Cyclic rate of fire as per requirement .....	700—1000 rounds/min.
Sights: Barleyton foresight and open backsight with graduations up to 1200 metres = approximately 1300 yards.	



The MADSEN/SAETTER Machine Gun

on the light, but stable tripod mounting, which gives fine accuracy at all ranges, direct as well as indirect fire. The gun is placed in a cradle which allows recoil movement during shooting, and the gun's natural vibrations are undisturbed by the firer, thus eliminating a possible cause of inaccuracy. Mounting and dismounting by one single movement.



The MADSEN/SAETTER Machine Gun.

The barrel is entirely exposed to the air and thus ensuring maximum cooling. Barrel change takes less time than on any other gun, the barrel handle simultaneously locking the barrel in position.

*OBS: A special feature of this gun: By only changing the barrel another calibre or design of rimless cartridge can be used.*



The MADSEN/SAETTER Machine Gun

on its bipod. The gun is gas operated, and the mechanism is so constructed that it blows itself clean during firing, thus obviating functioning troubles from gas fouling. Stripping for cleaning, and also reassembling, proceeds entirely without tools.

# The MADSEN/SAETTER .50" (12.7 mm) Machine Gun

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## Main Characteristics

Length of gun .....	163	cm = 64.0	inch.
Length of barrel .....	100	cm = 39.4	inch.
Weight of gun .....	28	kgs = 61.7	lbs.
Weight of barrel .....	7.1	kgs = 15.7	lbs.
Rifling: 8 right-turning grooves.			
Pitch of rifling .....	380	mm = 15.0	inch.
Weight of moving parts (bolt group and gas piston assembly) .....	3.6	kgs = 7.9	lbs.
Weight of magazine for 50 rounds .....	3.2	kgs = 7.0	lbs.
Weight of cartridge belt for 50 rounds .....	0.45	kg = 1.0	lbs.
Weight of bag for used cartridge cases .....	1.1	kg = 2.4	lbs.
Ammunition: Normal .50" Browning cartridge.			
Weight of cartridge .....	0.15	kg = 0.33	lbs.
Rate of fire .....	abt.	1000	rounds/minute



The MADSEN/SAETTER Machine Gun .50" (12.7 mm).

Can be mounted on armoured cars or tanks, or on an anti-aircraft mounting.

MADSEN/SAETTER Machine Gun .50" (12.7 mm)  
mounted on a truck ready for A. A. firing.

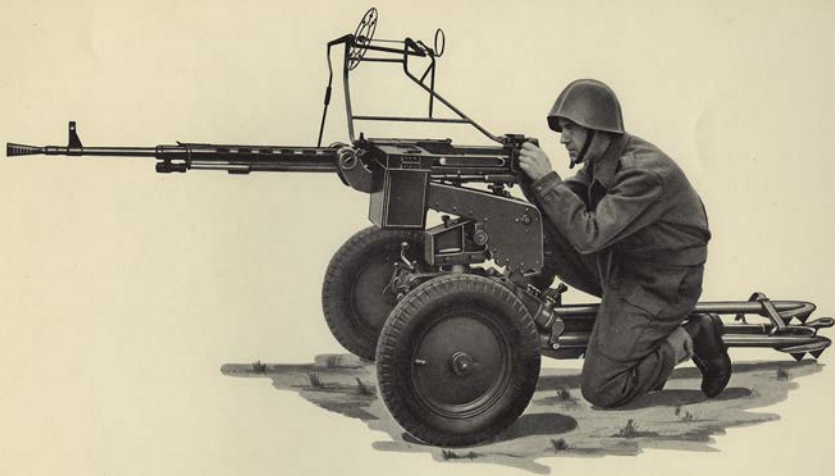


MADSEN/SAETTER Machine Gun .50" (12.7 mm)  
on universal mounting made ready for firing against aerial targets.

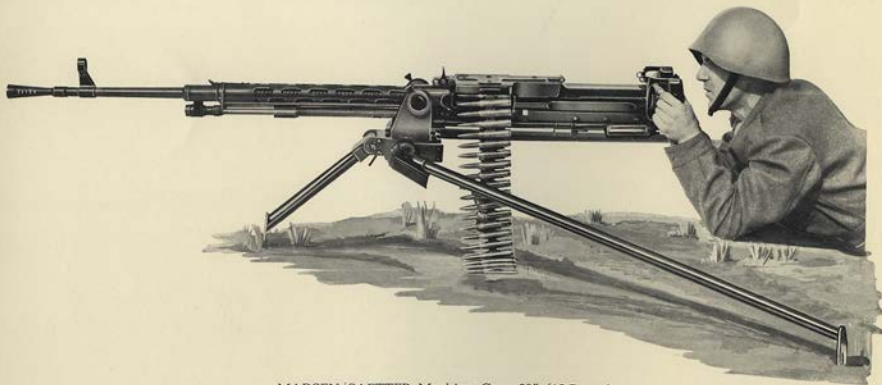
The three legs are adjustable for height and for levelling  
on uneven ground.







MADSEN/SAETTER Machine Gun .50" (12.7 mm)  
on universal mounting for firing against ground targets.  
The mounting in position with wheels ready for transport.



MADSEN/SAETTER Machine Gun .50" (12.7 mm)  
mounted on light tripod, which is used by tank crews in action outside the tank.  
The tripod can be folded and fixed on the tank.

## The MADSEN/LJUNGMAN Semi-Automatic Rifle

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### Main Characteristics

Weight without bayonet .....	4.30 kg	=	9.48 lbs
Weight with bayonet.....	4.6 kg	=	10.14 lbs
Length of rifle.....	1160 mm	=	45.67 inches
Length with bayonet.....	1340 mm	=	52.67 inches
Length of barrel .....	580 mm	=	22.84 inches
Number of grooves .....	4		
Pitch of rifling.....	240 mm	=	9.45 inches
Magazine holds .....	10	rounds	

Sights: Foresight: Blade-type.

Backsight: V-shaped notch, the backsight leaf scaled from 100 to 900 metres.

Calibre: the rifle can be chambered for any military cartridge of normal infantry calibre from 6.5 to 8 mm (inclusive of the NATO 7.62 mm cartridge).

Rate of fire: abt. 30 well-aimed rounds per minute.

The rifle is operated by gas.



The MADSEN/LJUNGMAN Semi-Automatic Rifle  
is manufactured for military rifle cartridges of various calibres and designs.  
A bayonet can be affixed to the rifle.

## The MADSEN Light-Weight Military Rifle

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### Main Characteristics

Weight of rifle .....	3.65 kgs = 8.0 lbs
Weight of rifle with bayonet .....	3.95 kgs = 8.7 lbs
Length of rifle .....	1080 mm = 42.5 inches
Length of rifle with bayonet .....	1240 mm = 48.87 inches
Length of barrel .....	595 mm = 23.44 inches
Number of grooves .....	4
Pitch of rifling .....	240 mm = 9.45 inches
Magazine holds .....	5 rounds

Sights: Foresight: Blade-type.

Backsight: V-shaped notch.

The backsight leaf scaled from 100 to 700 metres.

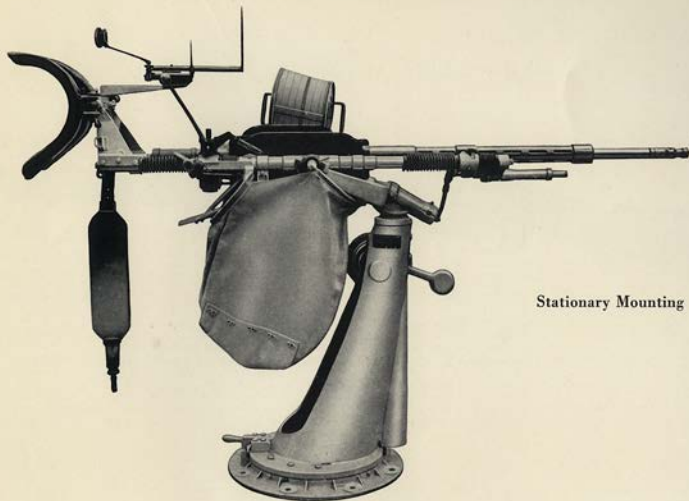
Calibre from 6.5 to 8.0 mm (as desired).



The MADSEN Light-Weight Military Rifle.

Size and form convenient for soldiers of comparatively small stature.  
Fixed magazine permitting magazine loading from top with usual service charger.

## The MADSEN 20 mm Machine Cannon for Close Range A. A. Defence



Stationary Mounting

The MADSEN 20 mm Cannon on its Triaxial Mounting.

Cyclic rate of fire over 500 rounds per minute.

Drum magazine for 60 rounds.

Weight of cannon abt. 57 kgs. (126 lbs.). Weight of mounting abt. 230 kgs. (507 lbs.)

Gyro sights may be mounted on this anti-aircraft mounting.

### Mobile Mounting



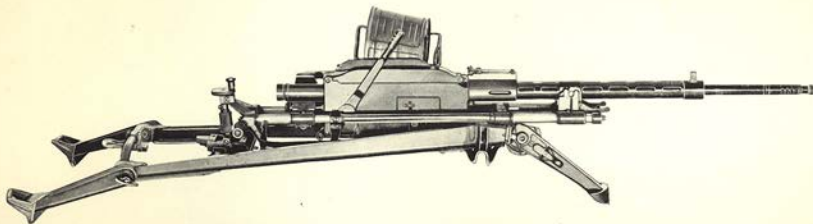
The MADSEN 20 mm Cannon on its Universal Mounting.

The universal mounting is a convenient and steady form of rest from which the gun can be fired against aircraft as well as against ground targets and the three legs are adjustable for height and for levelling the gun on uneven ground.

When the two wheels are mounted, the universal mounting can readily be drawn on roads by a jeep, or across country by the gun teams only.



## 20 mm Machine Cannon for Advanced Field Use



The MADSEN 20 mm Cannon on its Light Field Mounting.

The operational mobility of this weapon is very high, and it is primarily intended to be moved up for use against specific ground targets: troop concentrations, light tanks, especially by advanced patrols or by airborne units. To facilitate transport across country this tripod mounting is designed for being rapidly mounted on an axle with two wheels. The complete weapon can also easily be transported on the sidecar of a motorcycle.