

ADVANCED DEVICE DESIGN CARBINE CONVERSION

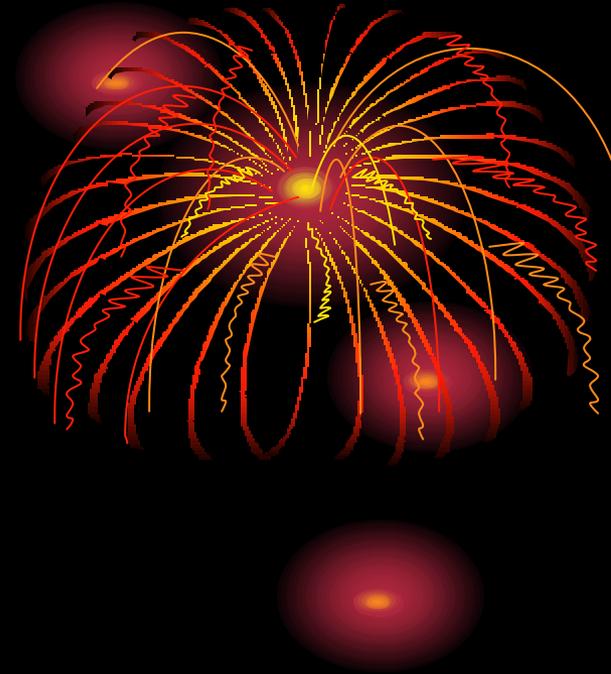


By

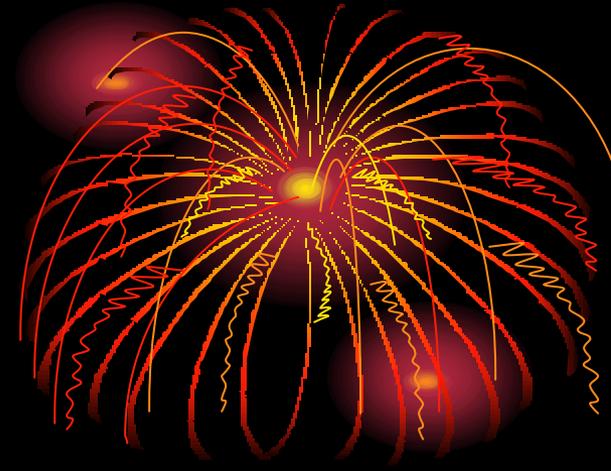
Charles Cutshaw

ADD CARBINE CONVERSION

- Free float barrel
- New operating system
- Reduced cyclic rate
- Enhanced heat dissipation
- Improved muzzle brake
- Improved reliability
- Enhanced Maintainability

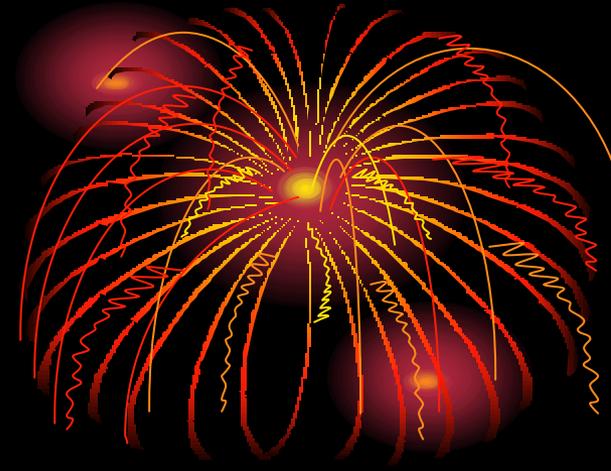


ADD HANDGUARD RAIL SYSTEM



- Mounts to MIL-STD-1913 upper
- Full-length MIL-STD-1913 top rail
- MIL-STD-1913 side & bottom rails
- Free-Floats barrel

NEW OPERATING SYSTEM



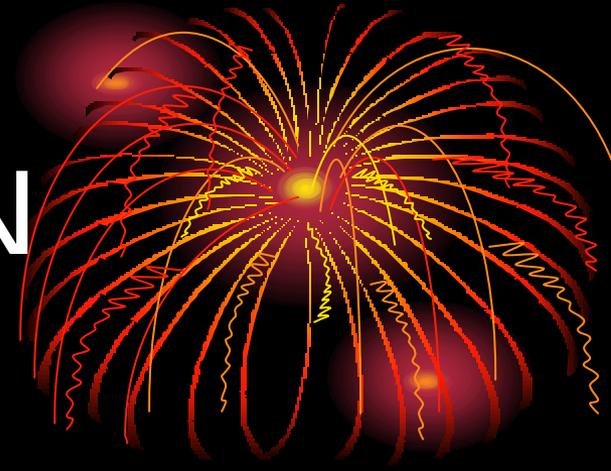
- M14 Based gas tube & piston
- SKS-type operating rod
- Adjustable gas port
- Bolt carrier counter weights
- Hydraulic buffer

OPERATING SYSTEM ADVANTAGES



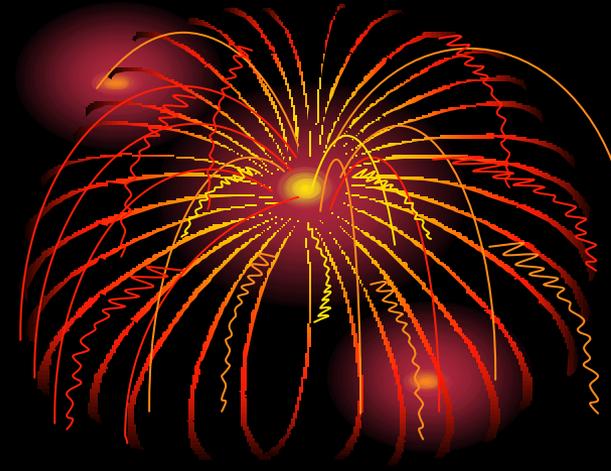
- Felt recoil reduced
- Gas rings eliminated
- Muzzle climb virtually eliminated
- Receiver fouling eliminated
- Cyclic rate reduced to 600-650 rounds/minute
- Controllability greatly enhanced

HEAT DISSIPATION



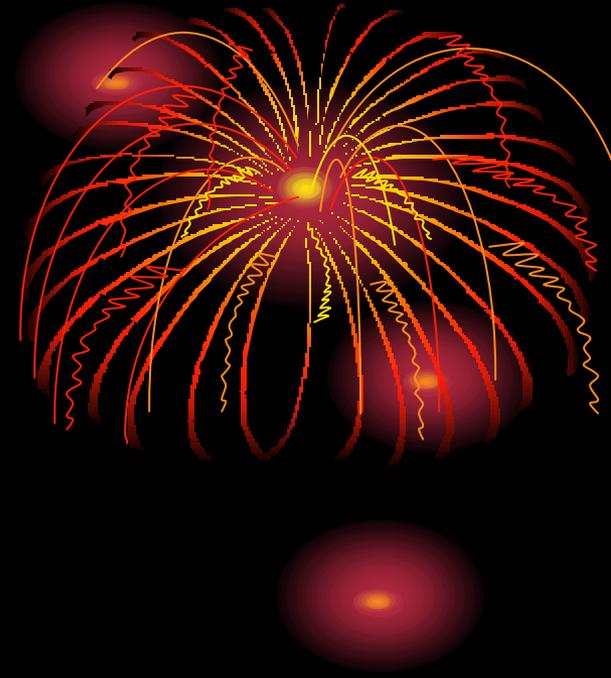
- Aluminum heat sink
- Airflow Enhanced cooling
- Passed non-stop 450 round full auto torture test
 - 30 rd bursts
 - Hand guard only warm
 - No effect on optics or accessories
 - Barrel remained within specs

MUZZLE BRAKE



- Balanced pressure design
- No effect on accuracy
- Enhanced Flash suppression
- Standard Threads for existing muzzle devices

MAINTAINABILITY RELIABILITY ENHANCEMENTS



- Gas tube eliminated
- Gas rings eliminated
- Barrel life improved No receiver fouling or carbon buildup
- Barrel life improved

OTHER ENHANCEMENTS



- Accuracy speaks fire control
 - 4.0 lb semi-auto pull
 - 6.0 lb full auto pull
 - Clean "break"
 - No creep
- AMBI-CATCH magazine release