TECHNICAL DATA

The MPL-20 aircraft ammunition (TP, TP-T, API-T or HEI cartridges).

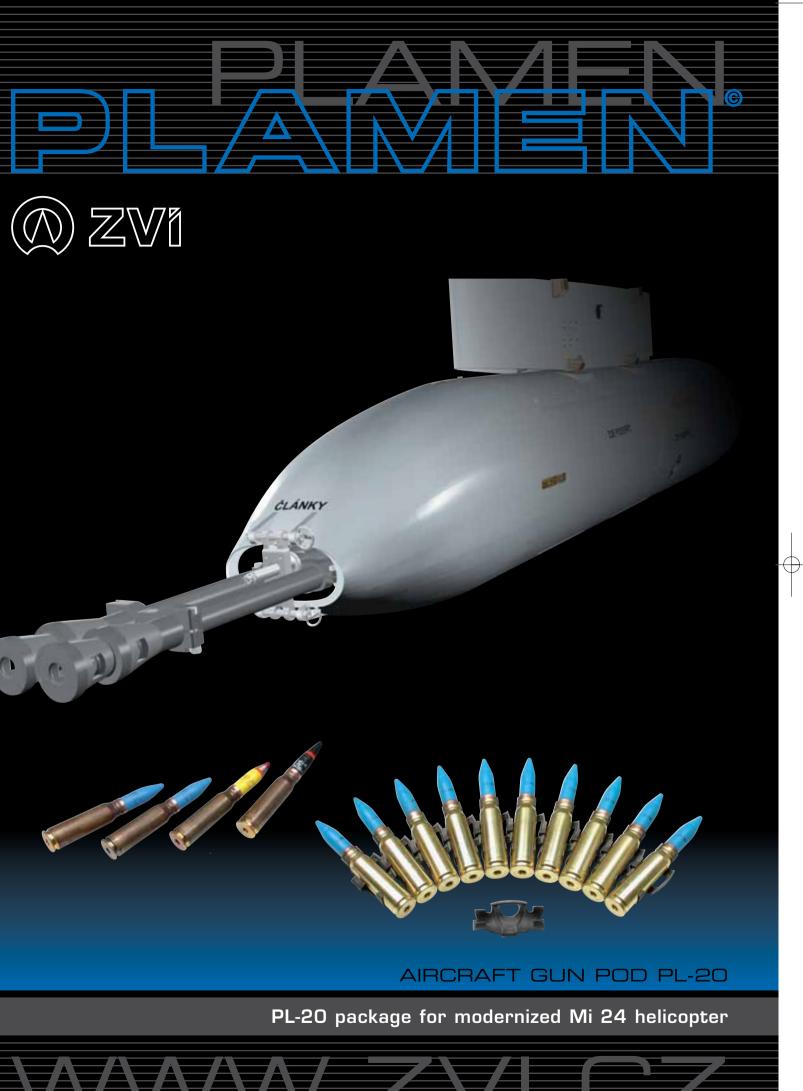
PLANAEN

The ammunition is compatible with the M39 / M56 / M61A ammunition series

Aircraft ammunition, 20x102

| Calibre | 20x102 mm | |
|---|--|--|
| Cartridge weight | 262 g | |
| Maximum cartridge length | 168 mm | |
| Projectile weight | 101 ±1.3 g | |
| Powder charge weight | 39 g | |
| Mean projectile velocity V10 (V23) | 1,041 ±15 m.s ⁻¹ (1,030 ±15 m.s ⁻¹) | |
| Mean hit diameter in the distance 500 m | ≤ 348 mm | |
| Types - NSN Code | HEI - 1305160042374, API-T - 1305160042375 | |
| | TP - 1305160042376, TP-T - 1305160000168 | |

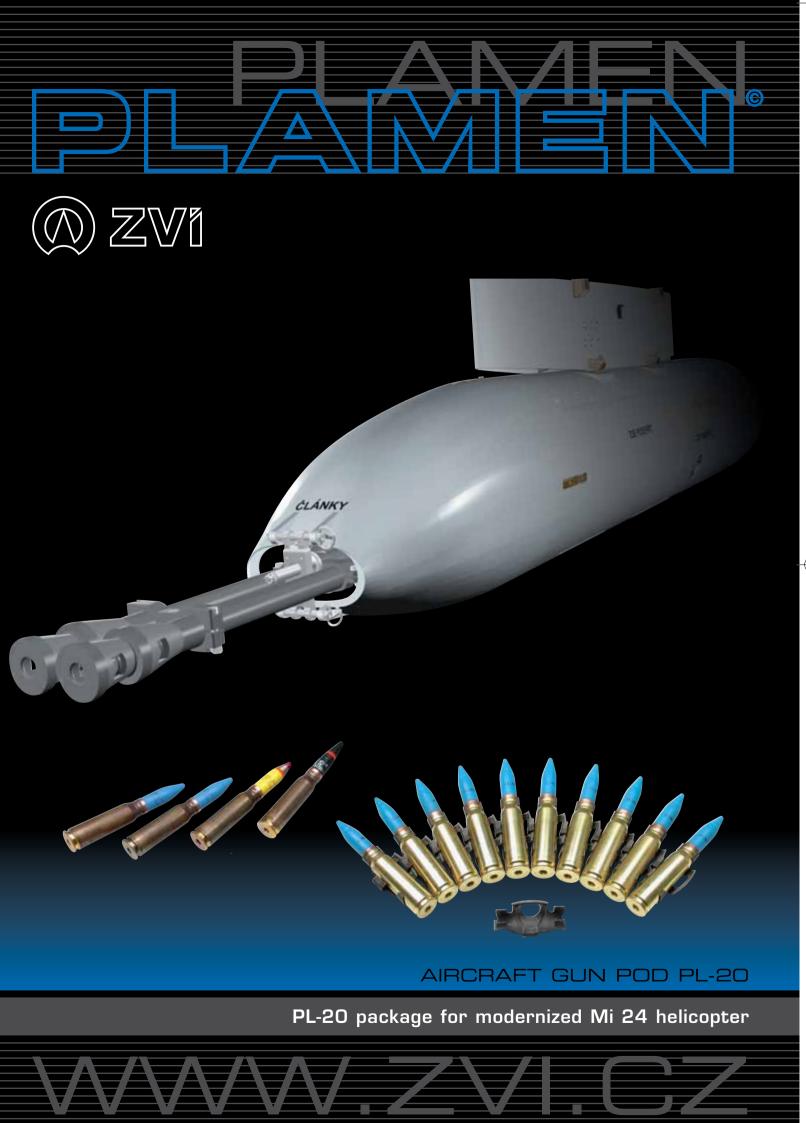






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PEAMEN

The PL-20 package represents a set of products for aircraft self-defense) and at ground targets, to procomprising an aircraft weapons system and its ground accessories. The 20 x 102 mm weapons system consists of the ZPL-20 aircraft gun, the KPL-20 gun pod, the MPL-20 aircraft ammunition (TP, TP-T, API-T or HEI cartridges), PYR-20 cartridges and elements of the P-20 ammunition feed belt. The ground accessories consist of the feed belt charger PLN-20, the ground control device LUN 2469, the adjustment telescope RD 20-460, the gun assembly stand, the gun pod assembly, the set of spare parts 1:1 and 1:3 and the tool set. »» The ZPL-20 is a high rate-of-fire, two-barrels electri-

cally controlled automatic gun for aerial usage resting together with the ammunition box and the electronic suspended under a standard NATO pylon and is standardly linked to the board control computer of the aircraft.

»» During all allowed flight modes the PL-20 package enables aerial fire at air targets (in aerial combat and

vide combat support for or defense of ground forces.

The ground accessories of the PL-20 are designated, in particular, for the pre-flight procedures and post-flight checks of the PL-20, as well as for its maintenance, transport and storage.

The ZPL-20 gun and MPL-20 ammunition are also utilizable for ground applications. In such cases the gun may be mounted on fixed and/or mobile platforms.

» In 2004, all parts of the PL-20 have been certified for use in military aviation in compliance with the STANAG and MIL international standards. The ammunition is compatible with the M39 / M56 / M61A ammunition series.

»» Based on successful finalization of control and control block in the KPL-20 gun pod. The pod may be end-user tests, the PL-20 has been integrated into the armaments of L-159 aircraft and, subsequently, employed by the Armed Forces of the Czech Republic. »» Plamen may also be used as a weapon for helicopters, boats and ground platforms.

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| Mass max. | 229 kg | |
|-----------------------------|------------------------|--|
| Length | 3,260 mm | |
| Ammunition | 20x102 mr | |
| Cartridge box capacity | 210 pcs | |
| Primer ignition principle | electrical | |
| ZPL-20 aircraft gun | | |
| Calibre | 20x102 mr | |
| Rate of fire - low | 780 ± 50 r | |
| Rate of fire - high | 2,600 ± 10 | |
| Weapon principle | coupled bre | |
| Length | 2,000 mm | |
| Width | 177 mm | |
| Height | 222 mm | |
| Mass | 68 ± 1 kg | |
| Muzzle velocity | 1,020 ⁺⁴³ m | |
| In-flight breech initiation | three times | |
| Life cycle | 6,000 rour | |
| NSN Code | 10051600 | |
| KPL-20 gun pod | | |
| Length | 2,725 mm | |
| Diameter | 400 mm | |
| Mass | 95,5 ± 2 k | |
| NSN Code | 10051600 | |
| | | |

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