

manpower and time can now be emplaced by a variety of methods such as:- deployment by vehicular mine landing systems, distribution by artillery weapon systems and mortars, ejection from helicopters, throwing from helicopters and hand-laying. Dynamit Nobel Anti-personnel (AP) mine: "(a)fter emplacement and orientation, the AP mine ejects additional tripwires of a length of approx 12 meters which detonate the mine upon contact. The warhead is hurled up to the height of some 8 meters and detonates. Its high energy fragments spread towards the ground & sideways." "The German Bundeswehr uses the Engineers Mine Launching System (MIWS) to rapidly and accurately lay mine fields of varying densities, adapted to the mission on hand and to the available terrain." plus "the ammunition unit can be modified to achieve longer landing distances."

12. "Amongst the famous mines in this category (placed from a distance) is the Italian SB-33 'available in full colour' as the producer, BPD Ditesa e Spazio, says" Quote from an article published by Greenpeace, France - Summer 1994.

13. Promotional material by Tecnovar Italiana SpA. Group Headquartered Bari, Italy. "Tecnovar's Dat System allows anti-tank mines, anti-personnel mines or, if it is the case, anti-tank together with anti-personnel mines to be scattered swiftly by helicopter." "The Dat strategic capacity responds to many contingent requirements such as..... deployment of mines in undefended territory."

14. Valsella Meccanotecnica SpA, 25014 Castenedolo, (Brescia) Italy. Promotional material for VS-MK14 antipersonnel mine, produced by Valsella: "The VS-MK14 anti-personnel mine is an all-plastic mine fitted with a pressure fuse, suitable both for conventional laying and for scattering from ground vehicles, helicopters or low-flying aircraft..... the VS-MK2.... has an increased casualty effectiveness. A unique anti shock device makes the mine immune from explosive countermeasures. The mine is non-magnetic, waterproof and has a long storage and field life. VS-MK2 is in service with the Italian Army."

Further promotional material for Valsella - "Valmara 69 antipersonnel mine is a jumping-type mine. To obtain a more effective fragmentation pattern, the main charge, surrounded by more than 1000 splinters, is projected about 45cm into the air by a propelling charge before exploding. The casualty radius is at least 25m. Within this radius the mine is lethal. The Valmara 69 is currently in service with the Italian Army."

15. "The largest contract known of in the 1980's was signed between Valsella and the Iraqi government: 8 million mines in one go." Quote from an article published by Greenpeace, France - Summer 1994;

16. Promotional material for Eurometaal NV, Hemkade 18, 1500 Ek Zaandem: "The Eurometaal product range covers..... mines."

17. UK patent Application for explosive mine - Royal Ordnance plc: date of filing 9 June 1987.

18. Asian Defence Journal May '92, p103. "Royal Ordnance will jointly bid for the UK Ministry of Defence's mines in the new century (MINX) program contract with Faber Design Consultancy, HUR Consulting Services, Marine Air Systems (New Zealand) and Nea Linberg. The MINX program is intended to develop a low manpower-rapid deployment mine system to replace the UK MoD's current BARMINE system around the yrs 2000/2001." In summary: Agency: Dept/Ministry of Defense. Product: Landmines and Parts (3483313). Event: Order and Contracts received (61). Country: UK (4UK), New Zealand (9NEZ); Denmark (4DEN).

19. Defence Manufacturers Association of Great Britain (DMA) - Register of members Products and Services (issue15 1991/92)