



# AIR KNIFE

**Portable, Versatile Non-Contact Pressurized Hot Air Cutting Unit**

The Air Knife is a versatile new generation robust design portable electro-pneumatic equipment. It uses the principle of 'Non-Contact Cutting' for cutting any waste that needs to be removed for variety of waste cutting applications viz the synthetic yarn / non-woven fabric / synthetic film cutting / removal from machines. As there is no contact between the material being cut, the air knife can be used on almost any machine parts like the hot gadgets / rollers - FDY / spin draw applications, positorque unit, ceramic discs, nip rollers, Bakelite drums, steel shafts, rollers, bobbins, etc, including many other delicate & inaccessible places where the conventional cutting blades or j-hooks either cannot reach or is not recommended to be used considering possible damage to the machine parts due to scratching.

It is easy to use equipment having simplified electronic control using supply of hot compressed air as cutting medium. It can cut through practically all synthetic materials like POY, LOY, FDY, Textured Yarns, Tyre cord, BCF, Tape yarns, Monofilaments - PP, Nylons, Polyester, HOPE, LPPE, etc, including many other man made synthetic materials, woven / non-woven fabric, synthetic films, etc. Regular usage of the Air Knife to remove the lappings reduces the downtime of the machine & leads to significant increase in the life of the bearings and moving

parts due to removal of the additional load of accumulated waste yarn.

**Air Knife Unit** : Capacity - 1.8 Kw is a ready to use waste yarn cutting unit requiring 220/230 V AC, 50 Hz single phase electrical supply & 2 to 2.5 Kg/cm<sup>2</sup> air pressure, oil & moisture free compressed air supply connections.

The complete air knife system is a compact portable unit consisting of a Pressure Regulator-Supply Valve-Flow control valve mounted below electronic control & power supply unit, detachable hand-held portable cutting torch along with 6 mtrs each - air supply PU hose & electric cable for connections up to the respective control units. The Hand-held cutting torch is very light weight. Being a light, portable, safe & handy unit it can be easily moved from place to place for cutting operations wherever required.

**Optional** : Pressure switch & Solenoid Valve in circuit.

**Unit suitable for 110 V AC, 60 Hz, Single phase electrical supply also available.**

**Its versatile usage make it a high utility product for every yarn / non-woven fabric / synthetic film processing industry.**



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