1023. Materials

None.

1024. Software

1. "Software" specially designed or modified for the "development", "production" or "use" of equipment embargoed by 1021. or 1022.;
2. Specific "software", as follows:
   a. "Software" to provide "adaptive control" and having both of the following characteristics:
      1. For "flexible manufacturing units" (FMUs) which consist at least of equipment described in b.1. and b.2. of the definition of "flexible manufacturing unit"; and
      2. Capable of generating or modifying, in "real time processing", "programmes" or data by using the signals obtained simultaneously by means of at least two detection techniques, such as:
         a. Machine vision (optical ranging);
         b. Infrared imaging;
         c. Acoustical imaging (acoustical ranging);
         d. Tactile measurement;
         e. Inertial positioning;
         f. Force measurement;
         g. Torque measurement;

   Note:

   1024.2.a. does not embargo "software" which only provides rescheduling of functionally identical equipment within "flexible manufacturing units" using pre-stored part programmes and a pre-stored strategy for the distribution of the part programmes.

   b. "Software" for electronic devices other than those described in 1022.1.a. or b., which provides the "numerical control" capability of the equipment embargoed by 1022.1.

   Note:

   1022.1. and 1024.2. embargo any combination of electronic devices or systems that collectively contain software enabling such devices or systems to function as a CNC capable of coordinating simultaneously more than 4 axes for "contouring control".

1025. Technology

1. Technology according to the General Technology Note for the "development" of equipment or "software" embargoed by 1021., 1022. or 1024.;
2. Technology according to the General Technology Note for the "production" of equipment embargoed by 1021. or 1022.;
3. Other technology, as follows:
   a. Technology:
      1. For the "development" of interactive graphics as an integrated part in "numerical control" units for preparation or modification of part programmes;
      2. For the "development" of generators of machine tool instructions (e.g. part programmes) from design data residing inside "numerical control" units;
      3. For the "development" of integration "software" for incorporation of expert systems for advanced decision support of shop floor operations into "numerical control" units;
   b. Technology for metal-working manufacturing processes, as follows:
      1. Technology for the design of tools, dies or fixtures specially designed for the following processes:
         a. "Superplastic forming";
         b. "Diffusion bonding";
         c. "Direct-acting hydraulic pressing";
      2. Technical data consisting of process methods or parameters as listed below used to control:
         a. "Superplastic forming" of aluminium alloys, titanium alloys or "superalloys":
            1. Surface preparation;
            2. Strain rate;
            3. Temperature;
            4. Pressure;
         b. "Diffusion bonding" of "superalloys" or titanium alloys:
            1. Surface preparation;

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            2. Temperature;
            3. Pressure;
         c. "Direct-acting hydraulic pressing" of aluminium alloys or titanium alloys:
            1. Pressure;
            2. Cycle time;
         d. "Hot isostatic densification" of titanium alloys, aluminium alloys or "superalloys":
            1. Temperature;
            2. Pressure;
            3. Cycle time;
   c. Technology for the "development" or "production" of hydraulic stretch-forming machines and dies therefor, for the manufacture of airframe structures;
   d. Technology for:
      The application of inorganic overlay coatings or inorganic surface modification coatings, specified in column 3 of the following Table of Deposition Techniques ;
      a. to non-electronic substrates, specified in column 2 of the following Table;
      b. by processes specified in column 1 of the following Table and defined in the Technical Note;

   d. Technology for:
      The application of inorganic overlay coatings or inorganic surface modification coatings, specified in column 3 of the following Table of Deposition Techniques ;
      a. to non-electronic substrates, specified in column 2 of the following Table;
      b. by processes specified in column 1 of the following Table and defined in the Technical Note;