

Nanostructured Materials

Example:

● Nanodyne makes a tungsten-carbide-cobalt composite powder (grain size less than 15nm) that is used to make a sintered alloy as hard as diamond, which is in turn used to make cutting tools, drill bits, armor plate, and jet engine parts.

Impact: Every industry that makes parts or components whose properties must include hardness and durability. See [Nanostructured Materials Get Tough](#) A PDF document

● Kodak is producing OLED color screens (made of nanostructured polymer films) for use in car stereos and cell phones. OLEDs (organic light emitting diodes) may enable thinner, lighter, more flexible, less power consuming displays, and other consumer products such as cameras, PDAs, laptops, televisions, and other as yet undreamt of applications.

Impact: all current makers of CRTs, liquid crystal displays (LCDs), and other display types. See [OLEDs get ready to light up the market for flexible screens](#) and [KODAK OLED technical details](#) [a PDF]