Appendix
Mechanical Device Representations

This appendix is devoted to an in-depth presentation of the static, dynamic, and pragmatic representations for each of the devices that have been used in this research. Fig. A.1 illustrates the four mechanical device classes which are presented in this appendix: (1) simple devices, (2) simple compound devices, (3) multiple compound devices, and (4) complex devices

Figure A.1 FONM Devices.

A.1 Simple Devices

Simple device dynamics are representationally significant because even simple devices can be used to accomplish multiple tasks. The dynamic representation must make a device's different functions explicit with the same static representation. The distinction between device functions is often seen as a specialization on the type of input applied to a device, or