Interesting servo motor drive solution.

A brushed dc motor fitted with high quality spur gear and DC holding brake.

Pictured here is maxon motors latest release brushed type DC motor. The DCX motor in itself features a high torque per volume ratio because of the utilisation of high grade neodymium rare earth magnets and a coreless winding. The reduction gearhead displays high quality low tolerance machining, hardened stainless steel shaft and stainless steel ball bearings. The holding brake is a solenoid style power-off device.

What are the advantages of such a strange combination of products?

The combined attributes of the combination make it suitable for many robotic applications but in particular this combination of products would suit a robotic arm application requiring tactile feedback, haptics and also elasticity. The motors characteristic zero cogging coreless rhombic design gives detent free controllability both when being driven from the load side or driving a load. Also the reduction gearheads high quality design with each axle supported on individual bearing races increases efficiency in both the drive and driven directions. The features would allow a robotic arm smooth and controllable motion, controllable compliance levels (softness) for use in close proximity with humans and power failsafe holding torque so that the arm would not fall under the influence of gravity when disabled.

Contact maxon motor Australia for unique solutions in demanding applications. Ph +61 2 9476 4777.

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New DCX brushed DC motor with high quality spur gearhead and DC holding brake © 2015 maxon motor.