

Advanced Hydraulic Arm



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Tools Needed for This Activity

Process	Process Description	Recommended Tool	Alternate Tool
Cutting	Cutting dowels, strips, recycling bin items, etc.	Multi-cutter 1373816	Saw, pruning shears, etc.
Reaming	Changing splined holes in components from press fit (dowels press and stay) to loose fit (dowels are able to slide and rotate)	Reamer 1373819	#3 drill bit and drill
Screwing	Tightening and loosening screws	Screwdriver 1373817 and 1373822	None

Kit Contents

Component	10 Pack Quantity	Single Quantity
Connector Strips	80	8
Dowels	80	8
Tubing	30M (100 ft.)	3M (10 ft.)
Perpendicular Blocks	100	10
Hole Plates	30	3
Slide-stop 300 mm Sections	2	1/3 (100 mm)
1 1/2" Screws	10	1
1" Screws	140	14
Cylinder Screws	240	24
Hex Nuts	160	16
Locking Hex Nuts	10	1
Rubber Bands	100	10
Cable Ties	20	2
13 ml Cylinder Barrels	70	7
13 ml Cylinder Plungers	70	7
13 ml Cylinder Pistons	70	7
4 ml Cylinder Barrels	10	1
4 ml Cylinder Plungers	10	1
4 ml Cylinder Pistons	10	1
Silicone	10	1



**Make Your Advanced Hydraulic Arm Even Better
by Incorporating Recycling Bin Material**



**Incredible, affordable inventions
that really work!**