Lynch ™
Fluid Controls Inc.

Lynch ™
Dynamics Inc.

www.lynch.ca
ISO 9001:2008 & AS9100C Certified

Lynch Success Story
Custom Product: Umbilical Arm System

Lynch's customer found an organization that could provide a total solution from engineering services, manufacturing, assembly, testing for their requirements. "Lynch really has its act together." - Program Manager	
Problem and Requirements	This Aerospace organization was looking to: • Migrate from legacy to hydraulic, motion control technologies. • Augment the knowledge/experience in their Engineering department • Use Engineering Services to validate, design and analyze • Manufacture the subassemblies • Assemble the subassemblies • Test and validate the subassemblies • Document, certify and authenticate the solution • Package and ship solution
Solution	With a Lynch partnership, the organization was able to a obtain a Total Solution from one company. Subassemblies using valves, manifolds, plugs, electronics, cabling…
Product Application(s)	Using hydraulic, motion control to move and manipulate multiple arms within seconds.
Manufacturing Equipment	Matsuura 100H, Cutter Machines, Milling Machines, Test Tools, Post processing including washing, sanding, deburring, CMM
Tolerance	15 seconds to move Umbilical Arm System from on to off position
Product Dimensions	23" x 40" x 16"
Product Weight	300lbs – 1200lbs
Color	Black
Material Type	Aluminum & Stainless Steel
Material Finish	Black anodizing
Secondary Operations	Helicoils, First Article Inspection (FAI)
Industry	AeroSpace
Production Set	1 x Speed Control and 1 x Pressure Reduction Manifold Assembly for each umbilical arm
Delivery Time	8 months from Purchase Order
Packaging/shipping	Custom packaging and crating with point to point delivery
Standard Met	Data Package (Paperwork) 2 x 3" Binders per Manifold Assembly
Drawing Software	Inventor – 3D Models/Schematics
Services: PMO	Project/Program Management
Engineering Services	Design Validation, 3D Model, Schematics, FEA, CFD
Testing Services	Hydrostatic, Acoustic, Functional, Dynamic

1799 Argentia Road
Mississauga, Ontario L5N 3A2
T 1(905)363-2400
F 1(905)363-1191

www.lynch.ca
sales@lynch.ca

3790 Commerce Court, Suite 500,
North Tonawanda New York, 14120
T 1(888)626-4365
F 1(800)263-5807