

New nozzle solution for WALTER wheel changers

Grind-Loc based nozzle system for new WALTER Vision 400L & Power 400 wheel changers

• Engineered by Dr. John Webster, Cool-Grind Technologies





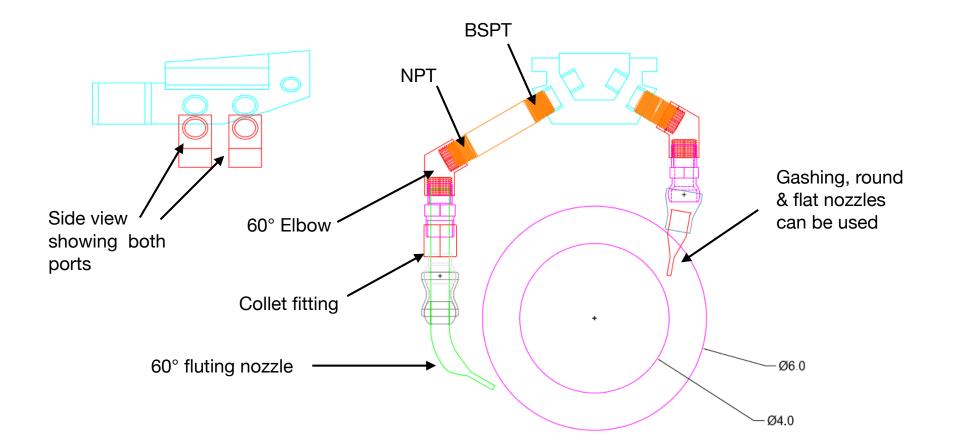


Design considerations

- Unlike the earlier WALTER wheel-changer machines, it is difficult to reproduce the manifold locking system and create a more user friendly design that offers more ports
- The OEM manifold has 30 degree inclined threaded ports, which requires all nozzles to compensate for this angle. A common 45 degree elbow will not help. Cool-Grind supplies a 60 degree elbow as a standard item that creates a vertical 3/8" NPT thread
- The OEM manifold threads are 3/8" BSPP, which only suit the 10mm tube compression fittings supplied with the machine. Common 3/8" NPT pipe fittings will damage these aluminum threads. Cool-Grind offers compatible 3/8" BSPT brass pipe nipples of different lengths that are kinder to the OEM threads and have a standard NPT thread at the other end
- For tool grinding, the simple Cool-Grind nozzle setup requires the fluting wheel to be no bigger than 6" OD
- The nozzle setup has to fit inside the wheel carousel and pass through the door during loading

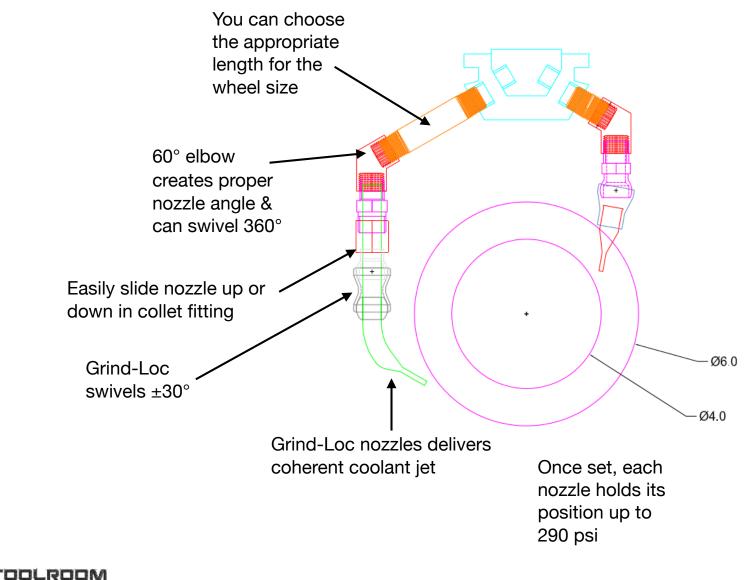


Schematic showing wheel & nozzle envelope





Key advantages





Sample setup with pricing

Close-coupled nipple CG-NIP-38-100-BSP/NPT \$6 ea

3" nipple CG-NIP-38-300-BSP/ NPT, \$12 ea

60 Deg elbow _____ CG-ELB-38-60, \$34 ea

Collet fitting (releases) - CG-OR-12-38M, \$27 ea

60 Deg flat nozzle CG-GLOC-FSN-12-630-050-60DE G, \$41 ea

Total price of above setup is \$269

Locknut CG-LN-12-38F \$5 ea

Threaded adapter CG-GLOC-ADAP-12-38M \$17 ea

Element clamp (Torx) CG-GLOC-EC-12-TORX. \$9 ea

Compact flat nozzle CG-GLOC-FSN-12-630-050-COMPACT \$34 ea

BSPT plug (not shown) MC-4936K912-38M-BSPT, \$4 ea



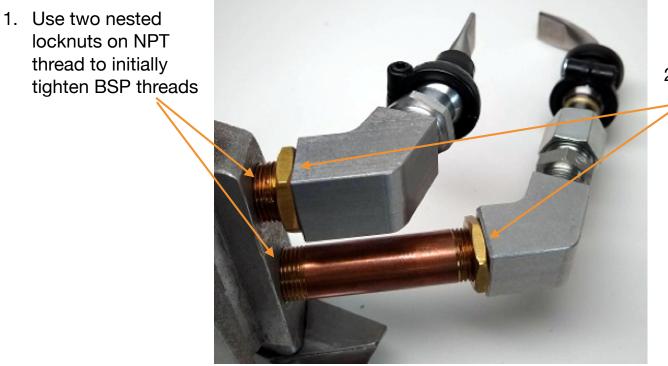
60° elbow & brass nipple components



Nomenclature: CG-NIP-38-300-BSP/NPT means 3" long



Nipple installation guide



 Then use locknuts to lock position of the NPT thread as shown. Use Teflon tape to seal the threads

Note: You can use the NPT thread to rotate either nozzle to be better aligned to each wheel, then tighten it with the locknut



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