Hartvigsen-Hydro Components for microhydro systems

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Custom Turgo Runners Sized for your site.

Use these tables to pick from 36+ different runners. (match runner diameter, site head, spoon material and target rpm) spreadsheet file or pdf file

Click on image for larger picture





Injection molded plastic **bluespoons** for use with nozzles up to 5/8" (16mm) bore.

3.24" (82 mm) pitch diameter 20 bluespoon runner.

\$120 Assembled runner **includes basic arbor**, hub and 20 blue spoons

3.69" (94 mm) pitch diameter 24 bluespoon runner.

\$150 Assembled runner includes choice of custom or basic arbor, hub and 24 blue spoons

3.91" (99 mm) pitch diameter 26 bluespoon runner.

\$160 Assembled runner includes choice of custom or basic arbor, hub and 26 blue spoons





Precision cast stainless bluespoon size

\$240 NEW

3.24" (82 mm) pitch diameter 18 cast stainless runner. Assembled runner includes choice of custom or basic arbor, hub and 18 stainless spoons.

\$300 NEW 3.69" (94 mm) pitch diameter 22 cast **stainless** runner. Assembled runner **includes choice of custom or basic arbor**, hub and 22 stainless spoons.

\$320 **NEW**

3.91" (99 mm) pitch diameter 24 cast **stainless** runner. Assembled runner **includes choice of custom or basic arbor**, hub and 24 stainless spoons.



Injection molded plastic orangespoons for nozzles to 1-1/8" (29 mm) bore.

\$240 Custom orangespoon runners for use with nozzles up to 1-1/8" (29mm) diameter.

Assembled runner includes choice of custom or basic arbor.

stainless hub and from 16 to 24 orange spoons (5.9-7.8" or 149-198mm pitch diameter)

Pitch Diameter: Dp = spoons * 0.242" + 2" or Dp = spoons * 6.15 mm + 51 mm

Runners with more than 24 spoons are available at a cost of \$10*spoon count.

Custom center hole and mounting bolt circle for your shaft flange available with no extra charge.

\$480 Custom runners using a *precision cast stainless steel*NEW orange spoon replica. Price shown for runners from 16 to
24 spoon. Runners with more than 24 spoons are available
at a cost of \$20 per spoon. Runner pitch diameter matches
orange spoon runners.

Turgo Spoons: Build your own turgo runner.

Hub <u>drawings or templates</u> available.

\$3 Blue spoons to build your own runner. Made in Sweden. Turgo spoons for use with nozzles up to 1/2" (13mm) diameter.

\$4 Orange spoons to build your own runner. Made in Sweden.
Turgo spoons for use with nozzles up to 1" (26mm) diameter.

\$10 Precision cast stainless steel replica of the bluespoon. (Credit of \$3/spoon for upgrade of plastic bluespoons or bluespoon runners).

\$16 Precision cast stainless steel replica NEW of the Orange spoon. (Credit of \$4/spoon for upgrade of plastic Orange spoons or Orange spoon runners).

Nozzles



Standard nozzle sizes and flow rate table (.pdf) or spreadsheet (.xls).

Information on nozzle alignment for turgo runners

\$9 Series 70 (3/8" NPT) nozzles. \$18 Series 80 (3/4" NPT) nozzles. Series 125 (1-1/4" NPT) nozzles, \$60 custom machined brass in 3/4", 7/8", 1", or 1-1/8" bore.

Turgo and Pelton Arbors





\$15 Basic arbor to fit motor/generator shaft and mount 1/2" ID impulse runner. Shaft sizes 3/8", 1/2", 5/8", and 5/8" with keyway. Will also fit ES&D pelton. Specify RH or LH thread. Use LH thread with turgo spoons above to direct water away from generator. Pelton may use either.

\$25 Custom arbor to fit 7/8", 1-1/8" keyed shaft (shaft coupling required), or threaded to fit most Ford or GM alternators. Specify RH or LH thread for arbor shaft (1/2-20RH or 1/2-20LH).

\$25 Shaft coupling for 7/8" or 1-1/8" arbors.

Technical Information

Example Turgo System, Spreadsheets & Drawings

Photo Tour of My Microhydro Site



Ordering and ProPay Instructions

Para informacion y venta en España contactar con INERSOL sl.





Home Power Generation

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