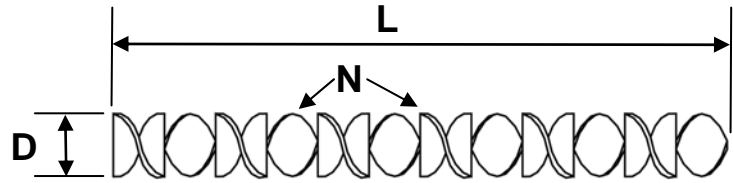


## Plastic Helical Static Mixers

The Model HT-40 Medium Performance Plastic Helical Static Mixers provide cost effective solutions for small diameter mixing and chemical reaction applications and are suitable for simple to medium difficulty mixing tasks. StaMixCo High Performance X-Grid static mixers are recommended for difficult applications (literature upon request) that require high degrees of mixing in a short length or when the materials to be mixed have large differences in viscosity or volumetric ratio.

### Model HT-40



### Specifications

- Plastic Materials of Construction: Acetal, Polypropylene and PTFE Teflon®
- Mixing Element Geometry: Adjacent mixing elements are of opposite twist and at a 90° orientation relative to adjacent mixing elements. The Length-to-Diameter (L/D) Pitch of each mixing element varies between L/D Pitch= 0.80-1.04 depending on Model Number.

### Acetal Construction

Model #	N Number of Mixing Elements	O.D.* Mixing Elements (mm)	L Total Length Mixing Elements (mm)	L/D Individual Mixing Element L/D Ratio (--)
HT-40-2.36-8-AC	8	2.36 mm	19.6 mm	1.038
HT-40-2.36-12-AC	12	2.36 mm	28.7 mm	1.000
HT-40-3.18-6-AC	6	3.18 mm	16.5 mm	0.865
HT-40-3.18-8-AC	8	3.18 mm	21.8 mm	0.857
HT-40-3.18-12-AC	12	3.18 mm	33.0 mm	0.865
HT-40-4.75-14-AC	14	4.75 mm	56.6 mm	0.851
HT-40-4.80-16-AC	16	4.80 mm	65.0 mm	0.846
HT-40-5.38-7-AC	7	5.38 mm	37.6 mm	0.998
HT-40-5.38-21-AC	21	5.38 mm	113.0 mm	1.000
HT-40-6.30-8-AC	8	6.30 mm	50.8 mm	1.000
HT-40-6.30-12-AC	12	6.30 mm	76.2 mm	1.000
HT-40-6.30-16-AC	16	6.30 mm	100.6 mm	0.998
HT-40-6.30-24-AC	24	6.30 mm	150.9 mm	0.998
HT-40-8.00-12-AC	12	8.00 mm	93.2 mm	0.971
HT-40-9.30-18-AC	18	9.30 mm	148.6 mm	1.032
HT-40-9.30-24-AC	24	9.30 mm	198.9 mm	0.891
HT-40-9.40-6-AC	6	9.40 mm	50.8 mm	0.900
HT-40-9.40-12-AC	12	9.40 mm	99.1 mm	0.879
HT-40-12.62-12-AC	12	12.62 mm	127.0 mm	0.839
HT-40-12.62-18-AC	18	12.62 mm	189.8 mm	0.836
HT-40-16.00-10-AC	10	16.00 mm	137.7 mm	0.861
HT-40-19.91-8-AC	8	19.91 mm	136.4 mm	0.856
HT-40-26.04-4-AC	4	26.04 mm	149.9 mm	1.439

### Polypropylene Construction

Model #	N Number of Mixing Elements	O.D.* Mixing Elements (mm)	L Total Length Mixing Elements (mm)	L/D Individual Mixing Element L/D Ratio (--)
HT-40-3.18-12-PP	12	3.18 mm	33.1 mm	0.867
HT-40-4.75-16-PP	16	4.75 mm	63.5 mm	0.836
HT-40-6.35-16-PP	16	6.35 mm	101.6 mm	1.000
HT-40-9.47-12-PP	12	9.47 mm	99.06 mm	0.872
HT-40-9.47-24-PP	24	9.47 mm	198.1 mm	0.872
HT-40-12.70-12-PP	12	12.70 mm	129.5 mm	0.845
HT-40-12.70-18-PP	18	12.70 mm	190.5 mm	0.833
HT-40-16.08-10-PP	10	16.08 mm	137.2 mm	0.853
HT-40-20.00-8-PP	8	20.00 mm	137.2 mm	0.858
HT-40-34.70-4-PP	4	34.70 mm	110.7 mm	0.800

### PTFE Teflon® Construction

Model #	N Number of Mixing Elements	O.D.* Mixing Elements (mm)	L Total Length Mixing Elements (mm)	Standard Metal Tubing Housing Dimensions OD X ID (inches)
HT-40-1.70-10-PTFE	10	1.70 mm	17.0 mm	OD=1/8" X Wall=0.028" X ID=0.069" (1.75 mm)
HT-40-3.75-10-PTFE	10	3.75 mm	37.5 mm	OD=1/4" X Wall=0.049" X ID=0.152" (3.86 mm)
HT-40-6.10-10-PTFE	10	6.10 mm	61.0 mm	OD=5/16" X Wall=0.035" X ID=0.243" (6.17 mm)
HT-40-7.50-10-PTFE	10	7.50 mm	75.0 mm	OD=3/8" X Wall=0.035" X ID=0.305" (7.75 mm)
HT-40-9.30-10-PTFE	10	9.30 mm	93.0 mm	OD=1/2" X Wall=0.065" X ID=0.370" (9.4 mm)

Notes: PTFE Teflon® Mixing Elements:

- PTFE Mixing Element Assemblies are available in lengths of multiples of 10-mixing elements per assembly (e.g. 10, 20, 30 etc. mixing elements/assembly) to a maximum length of 12" (~304 mm) per assembly.
- L/D Individual Mixing Element=1.0 (Length-to-Diameter ratio of individual Helical mixing element)

\* O.D.: Actual mixing element outside diameter (O.D.) is slightly smaller than indicated in tables above.