

STEWARD BARRIER SCREWS

FORM • FIT • FUNCTION



**STEWARD
BARRIER**
inside



THE NO RISK STANDARD IN EXTRUSION...GUARANTEED!

*We fully guarantee the rate
and quality of the performance
of your custom designed screw
or you don't pay!*

FORM

American Kuhne offers screws for every extrusion application:

- High Performance Barrier Screws
- Mixing Screws
- Metering Screws
- Two Stage Screws
- Compounding Screws
- Rubber Screws
- Silicone Screws

FIT

Our screws fit any brand or model of extruder with:

- Four Key Tapered Shank
- Two Key Straight Shank
- Single Key Straight Shank
- Splined Shank

FUNCTION

Ed Steward has gained a reputation as the premier screw designer in the extrusion industry for good reason – his screws are designed to out-perform all others. Our Steward Barrier Screws are custom designed to:

- Maximize Output
- Improve Melt Homogeneity and Mixing Quality
- Minimize Pressure Fluctuations (Surging)
- Optimize Melt Temperature
- Improve Surface Appearance
- Widen the Process Window

THE NO RISK STANDARD IN EXTRUSION ... GUARANTEED!

Guaranteed Performance. Most of our screws are sold on a “no money down”, 100% net 30 day basis. In the unlikely event that your screw does not perform as expected, American Kuhne will re-cut or replace the screw as necessary to achieve the guaranteed performance levels. If, after one re-cut we cannot achieve the expected performance, return the screw and you pay nothing. Additionally, our full width hard facing is guaranteed not to delaminate for three years (domestic shipments).

Our state of the art Extrusion Lab enables us to provide you with a written guarantee certifying the expected performance of our Steward Barrier Screws. After providing us with information about your resins, expected head pressures, and/or material samples, you will receive our written guarantee detailing:

- Output vs. Screw Speed
- HP Required vs. Screw Speed
- Melt Temperature vs. Screw Speed
- Pressure Stability
- Temperature Stability
- Recommended Barrel Temperatures



Our FREE Extrusion Lab enables us to run your exact resin(s) on production scale extruders to customize and optimize your screw design through empirical trials, not computer modeling. Our high speed data recorder monitors pressures along the barrel and melt temperatures to insure optimal quality at maximum rates.

For any polymer:

- LDPE
- FPVC
- PMMA
- TPE
- MDPE
- PC
- PS
- PBT
- HDPE
- ABS
- EVOH
- EVA
- LLDPE
- PET
- PVDF
- PA
- PP
- PU
- FEP
- MFA
- RPVC
- PET
- PFA
- THV
- PLA
- Rubber
- Silicone

In any process:

- Pipe
- Blown Film
- Profile
- Cast Film
- Tubing
- Extrusion Coating
- Wire and Cable
- Blow Molding
- Wood Composite
- Fiber
- Sheet
- Compounding

Rebuilt Screws & Replacement Barrels

American Kuhne offers fast deliveries and competitive pricing for all types of screw rebuilds and replacement barrels for all brands of extruders.

E.S.P. (Extrusion Service & Parts)

If you seek to improve the performance of your existing extruders, please consider our E.S.P. Aftermarket Division. E.S.P. specializes in the repair, rebuild, and upgrade of all brands and models of single screw extruders.



Ed Steward, Vice President of Process Technology, has over 35 years of experience in hands-on single screw process technology and design. Ed has received the SPE Bruce Maddock Award for contributions to single screw extrusion and he is a Fellow of the Society of Plastics Engineers.

