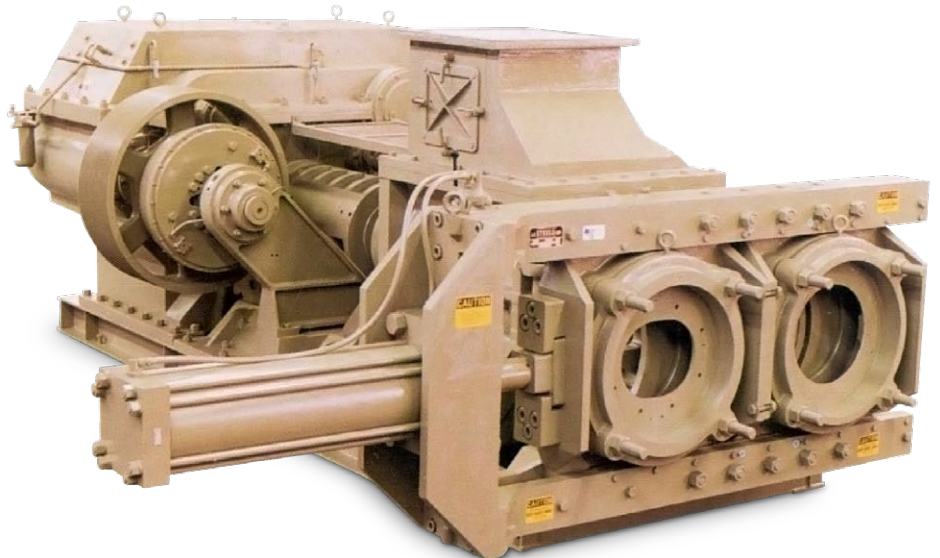


## Processing and shaping up to 81 metric tons per hour of raw material

The **Steele 90 Series** is our largest stiff extruder and pug sealer combination, producing up to 81 metric tons per hour of “green” products. The durability of these green products permits direct setting on kiln cars or transfer across multiple belts before curing or firing.



*The Steele 90AD Extruder with available 3690 Hydraulic Die Changer*



*The Steele 90BD Pug Sealer ensures superior pugging at the highest capacities.*

### Eliminate the cost of adding and removing water

The 90 Series processes materials between 5-20% moisture and varying degrees of plasticity, to handle a wider range of raw materials than comparable machines. The 90AD Extruder produces solid pavers and bricks, block and tile with void areas up to 65%, and robust pellets and aggregates with superior strength and structural integrity right out of the die.

Our global installed base includes 90 Series machines running for over forty years, backed by Steele service and parts.

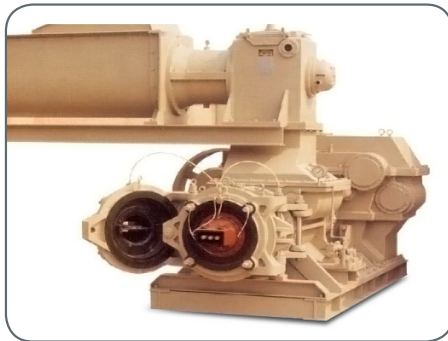
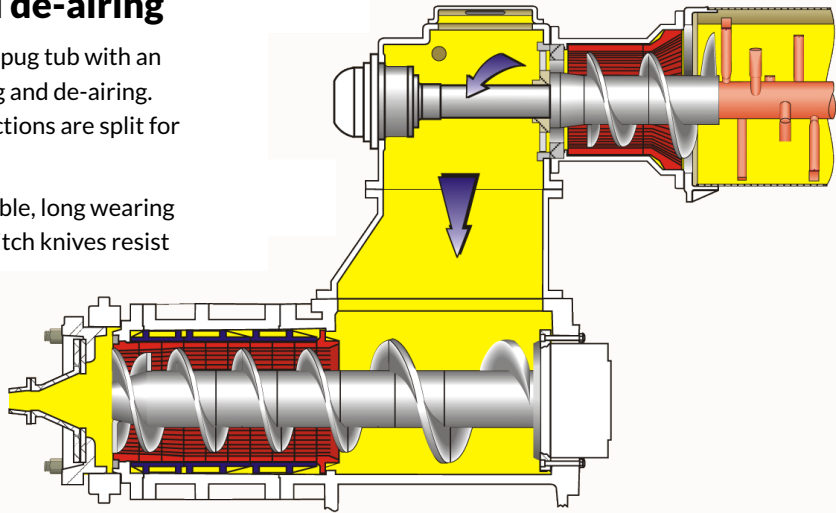
- ✓ Suitable for fine plastic clays, rocky non-plastic shales, abrasive fines and dusts
- ✓ High-quality production with less processing than soft extrusion systems
  - ✓ Multiple drive options
  - ✓ Uses a wide range of dies
- ✓ Minimal maintenance and downtime

## Intensive high-shear mixing and de-airing

The Steele 90BD Pug Sealer combines a large, open pug tub with an enclosed sealing auger section for high-shear mixing and de-airing. The sealing core, sealing die, shredder and auger sections are split for easy mounting and fast replacement.

The renewable sealing auger case features replaceable, long wearing high-chrome iron alloy liner segments. Adjustable pitch knives resist abrasion and mix a wide range of materials.

*We match auger and liner combinations with your raw materials for optimal extrusion and higher quality finished products.*



*The Steele 90AD Extruder, shown with dual hinged mouthpieces*

## Motor, drive and die options for installation and production flexibility

The pug sealer and extruder offer multiple motor positioning options, with variable-speed drives for different products and sizes. Multiple wearing part configurations offer customized settings for specific raw materials.

The 90 Series accepts a wide range of dies and includes two hinged mouthpieces for fast die changes. Our optional 3690 Hydraulic Die Changer gives you quick changes and fast cleaning between two telescoping die holders.

Steele's in-house die design and manufacturing supports our stiff extrusion technology and helps us respond to your material processing needs quickly and effectively.

For more information,  
contact your regional Steele  
sales representative.

+1.704.872.3681  
[www.jcsteele.com](http://www.jcsteele.com)

PRODUCTION*		90AD EXTRUDER			90BD PUG SEALER		
US Tons/Hour	Metric Tons/Hour	Shaft RPM	HP	kW	Shaft RPM	HP	kW
45	41	20	300	225	22	200	150
56	51	25	350	260	27	250	185
67	61	30	400	300	32	300	225
78	71	35	450	335	37	350	260
90	81	40	500	375	42	400	300

*\*Production figures are average and will vary depending on many factors, including auger/liner selection and wear, raw material, product extruded, and column stiffness.*

**The Steele 90 Series is the flagship of the industry's leading extrusion agglomeration supplier. It delivers high-volume production efficiently and reliably, backed by Steele's global service and inventory commitment.**

The Steele Group™

