



# **APPLICATIONS**

- Automotive Compounds
- Nano-particle Compounding
- Polymer Blends
- Processing of shear sensitive material such as PVC, PSU
- De-Volatilizing
- Reactive Processing
- Fiber grade Polyester, Polyethylene Masterbatches
- Research & Development

## **FEATURES**

#### TRANSMISSION SECTION

**Main Drive:** Modern available speed range, direct torque control based on digital drive controllers.

 $\textbf{Gearbox:} \ \ \textbf{The robust gearbox is oil-cooled and the oil lubrication system includes and the oil lubrication system includes a supplied to the cooled and the oil lubrication system includes a supplied to the cooled and the oil lubrication system includes a supplied to the cooled and the oil lubrication system includes a supplied to the cooled and the oil lubrication system includes a supplied to the cooled and the oil lubrication system includes a supplied to the cooled and the oil lubrication system includes a supplied to the cooled and the oil lubrication system includes a supplied to the cooled and the oil lubrication system includes a supplied to the cooled and the oil lubrication system includes a supplied to the cooled and the oil lubrication system includes a supplied to the cooled and the oil lubrication system includes a supplied to the cooled and the cooled and$ 

heat exchanger, oil filter and oil circulation pump.

#### PROCESSING SECTION

Materials: Special grades of tool-steel with high wear and corrosion resistance.

Treatment: In-house heat-treatment facility for hardening and nitriding.

**Manufacturing:** Advanced Computer aided design and manufacturing using CNC facility.

**Geometry:** Pioneers in the development of element geometry that allows the low shear extruder to have high mixing and melting capacity. New elements that improve 'intake' capacity up to 400%.



CONTINUA SPLINE PROFILE WITH SHAFTS THAT ARE PROOF TESTED AT 125% RATED TORQUE.



### **SPECIFICATIONS**

DESIGNATION	OMEGA 20	OMEGA 30
Screw Diameter (mm)	19.6	29.7
Ratio (Do/Di)	1.71	1.71
Flight Depth (mm)	4.0	6.2
Barrel to Screw Clearance (mm)	0.20	0.15
Screw to Screw Clearance (mm)	0.40	0.50
Max. Drive Power (kW)	7.5	37.0
Max. Screw Speed (rpm)	1200	1200
Specified Nominal Torque/shaft (Nm)	30	150
Specific Torque (Nm/cm³)	7.3	10.8
Throughput (kg/h)	5 - 10	50-100