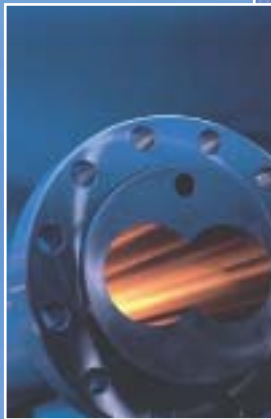
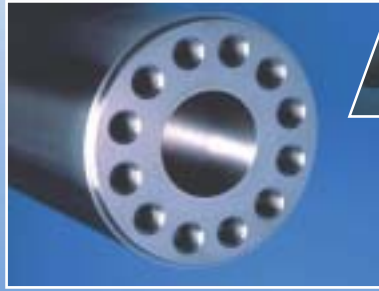
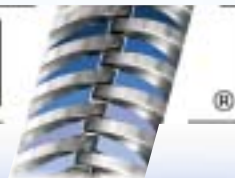


Technical Advantages in Plastics Processing Technologies



THEYSOHN

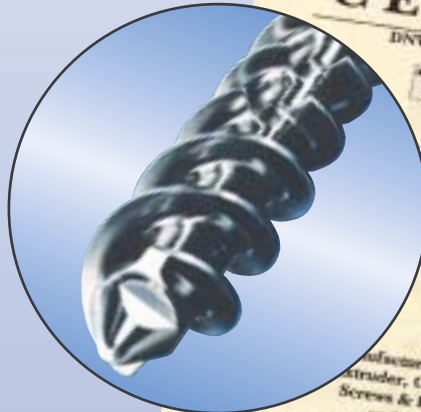
Components



®

Quality is our Objective

Many high demands of our customers have been met with THEYSOHN know-how. THEYSOHN's extensive experience has been developed over the last last five decades.



Delivery Program of Extruder-Komponenten Salzgitter:

- **Screws for extruders and injection molding machines**
- **Casings and screw shafts for compounding extruders**
- **Barrels for single screw extruders**
- **Rebuilding of screws, barrels and casings**
- **Parallel and conical twin screws and barrels**
- **Precision parts for the machinery industry**

THEYSOHN – Partner for the Plastics Industry

Since more than 50 years, the name THEYSOHN is known in conjunction with technically advanced products for the plastics processing industry. The THEYSOHN plant in Salzgitter supplies products to many countries worldwide. As essential parts, Theysohn products are used in machines of many well-known producers and processors.

Already in the beginning of our product development program, we have concentrated on long-lasting processing units. We can offer barrels,

casings and screws which resist abrasion and corrosion and offer optimum processing for different materials. The production of well over 20,000 barrels and screws in many different sizes and executions has led to an extensive development and production know-how.

THEYSOHN - a competent partner for plastic machinery producers, plastic processors as well as for the chemical and food processing industry worldwide.

THEYSOHN Salzgitter production facility

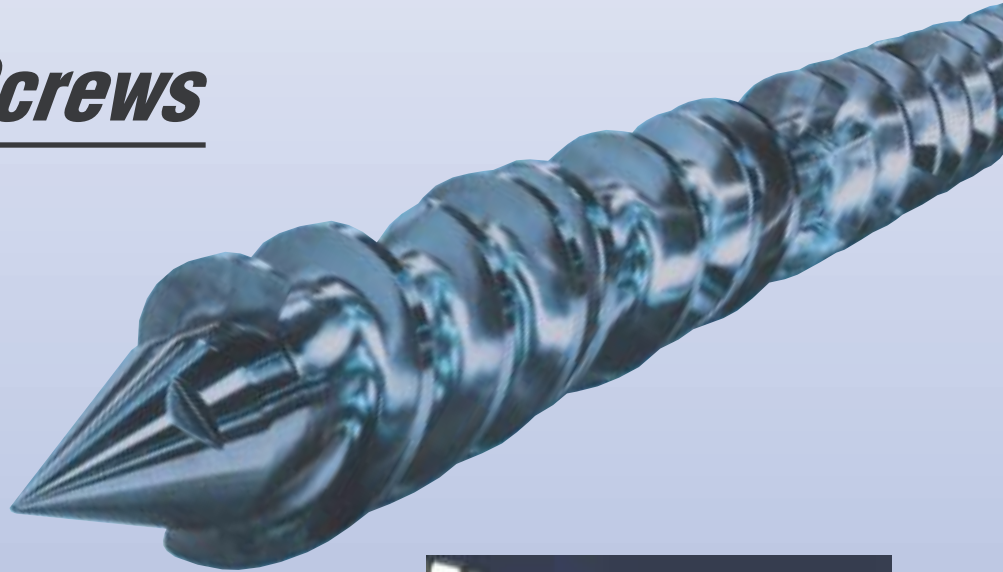


Single and Twin Screws

When manufacturing a variety of screws in different executions, the experience and capabilities of THEYSOHN become apparent.

THEYSOHN's plasma-welding and plasma-spraying technologies make it possible to arm the screws with surface protections against wear. THEYSOHN has the know-how to produce wear resistant layers with Ni/Co-basic alloys as well as specially developed and modified tungsten carbide alloys.

In many extrusion applications, nitrided twin screws are used. In demanding applications, coating of the screws is desirable. For the coating, layers of molybdenum have shown excellent sliding and low friction running conditions.



Plasma-welding



Plasma-spraying

CNC-whirling



Parallel twin screws



Single and Twin Screw Barrels

These parts are mainly produced on CNC machinery. Continuous measuring and testing systems according to DIN ISO 9001 : 2000 accompany the parts from the beginning to the end of the manufacturing process.

For the deep boring and honing, especially for conical bore holes, Theysohn has developed special machinery. Theysohn's manufacturing techniques, when used with suitable raw materials and applied with the experience of our qualified technicians, lead to precision parts with accurate dimensions.

Deep nitriding of barrels improve the wear behavior.



Nitrided twin screw barrels



Barrel entering part

Single screw barrel



Deep hole drilling



Casings – Screw Shafts

THEYSOHN supplies casings and screw shafts for compounding extruders. The standard execution of the casings is made from nitrided steel.

Casings with exchangeable sleeves made from completely hardened special steel offer good resistance against abrasive wear which can occur when processing plastics with additives.

When resistance against corrosion is required, sleeves with completely hardened rust and acid proof steels are produced. When extreme wear resistance is necessary, the casings are made in a hipped execution using powdered metallic raw materials.

Screw shafts made from tempering steel assure the reliable transmission of the necessary torques.



Twin screw casing and wear resistant sleeve



Twin screw casing with installed sleeve



Screw shafts

Quality Control – Technical data

The quality of THEYSOHN products is subject to internal quality control standards as well as to the quality management system DIN ISO 9001 : 2000.

By controls of the staff, all manufacturing steps are continuously checked. Before products leave the plant, they are subject to final quality control procedures. This is how we can guarantee quality at the highest level.

Quality products from THEYSOHN improve the processing of plastics.



Product Dimensions

Execution	Dimensions	Max. Outside Ø [mm]	Bore Diameter Ø [mm]	Max. Length [mm]
Single Screws		455		7000
Single Screw Barrels		650	40-400	4200
Twin Screws		225		5500
Twin Screw Barrels		550	45-225	4200
Casings		650	20-175	1500
Screw Shafts		175		7000

Screw Coatings

Execution	Single Screws	Twin Screws	Depth of Layers [mm]	Hardness [Rc]
Plasma Coated Flights Stellit 1/6/12/20/21 Colmonoy 50/56 and Tungsten Carbide Alloys	●	●	2,5 - 5,0	38-58 upon model
Plasma Sprayed Flights Mo/Tc/Mo-Ni/ and others	●	●	0.15-0.50	48-58 micro hardness

The Group of Companies



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