

EXTRUSION LINE FOR THE PRODUCTION OF ARTIFICIAL TURF

PP, LLDPE, PA are the basic raw materials used for yarn for sports, leisure and landscaping applications. Various shape monofilament mono and bicomponent, bicolor or 3-color can be produced on Boxuan extrusion line.

Main features

→Reliability

High technology to keep under control the process assuring a constant quality level for dimension, shrinkage, elongation, color distribution, denier constancy.

→PRODUCTIVITY

Extrusion lines has high output with capacity from 600 up to 3.500 tons/year

→EXTRUSION TECHNOLOGY

Precision in dosing raw materials and additive in feeding process by lose-in weight system. Extruder designed for a wide range of applications and equipped by metering pump to keep constant the yarn weight.

→STRETCHING & ANNEALING

Stretching unit equipped by air/water combination oven to perform the softness and shine. Different technology to control the relaxation of the different shape.

Extrusion line for the production of artificial turf

Raw materials PE virgin pellets PA virgin pellets Other resins possible

Output 100 kg/h – max. 60 filaments
 200 kg/h – max. 120 filaments
 300 kg/h – max. 144 filaments
 400 kg/h – max. 168 filaments
 The number of filaments is depending on the size of the filaments.
 The given numbers are typical numbers which can vary

Production speeds up to 500 m/min

Working widths

Single colour line 600 mm – 100 kg/h
 800 mm – 200 kg/h
 800 mm – 300 kg/h
 1.000 mm – 400 kg/h

Bi-colour line 800 mm – 100 kg/h
 800 mm – 200 kg/h
 1.000 mm – 300 kg/h
 1.200 mm – 400 kg/h

Output depending on spin head version

Extruder sizes

Single screw: 60 mm – 100 kg/h
 Single colour 80 mm – 200 kg/h
 100 mm – 300 kg/h
 120 mm – 400 kg/h

Single screw: 2 x 60 mm – 100 kg/h
 Bi colour 2 x 60 mm – 200 kg/h
 2 x 80 mm – 300 kg/h
 2 x 80 mm – 400 kg/h

Possible line layouts

Artificial turf made on a monofilament line

Artificial turf made on a combination line

Special developments / other line configurations possible



草坪丝拉丝机

草丝生产主要采用的原料为PP, LLDPE, PA, 鑫博轩提供运动草坪及景观草坪用单丝生产设备,可生产单组分/双组分单丝及双色或3色草丝。

主要特点

→ 品质可靠

高技术含量保证产品品质稳定, 线径公差小、收缩率、伸长率稳定及配色均匀

→ 高效生产

单线产能高达600~3500吨/年

→ 挤出工艺

采用失重法控制原料和辅料的精确计量, 挤出机对原料的适应范围广, 并采用计量泵保证纱线米克重的持续稳定性。

→ 拉伸和定型工艺

拉伸采用热风/热水箱组合保证草丝的柔软性和光泽。区别不同形状的草丝采用不同工艺控制定型。

人造草丝挤出生产线

原料: PE 粒料 PA 粒料 其他树脂

产能: 100 kg/h – max. 60 根单丝
200 kg/h – max. 120 根单丝
300 kg/h – max. 144 根单丝
400 kg/h – max. 168 根单丝
500 kg/h – max. 200 根单丝
单丝数量取决于单丝的尺寸, 以上数据依据经验。

生产速度: 可达 500 m/min

工作面宽度:

单色丝生产线
600 mm – 100 kg/h
800 mm – 200 kg/h
800 mm – 300 kg/h
1000 mm – 400 kg/h
1200 mm – 500 kg/h

双色丝生产线
800 mm – 100 kg/h
800 mm – 200 kg/h
2 x 100mm – 500 kg/h
1000 mm – 300 kg/h_400Kg/h
1200 mm – 500 kg/h

螺杆设计:

单螺杆:
单色丝
60 mm – 100 kg/h
80 mm – 200 kg/h
100 mm – 300 kg/h
120 mm – 400 kg/h-500kg/h

双螺杆:
双色丝
2 x 60 mm – 100 kg/h
2 x 60 mm – 200 kg/h
2 x 80 mm – 300 kg/h
2 x 80 mm – 400 kg/h
2 x 100 mm – 500 kg/h

可能的生产线布置:

单丝人造草丝生产线

特殊设计 / 其他设备组合也可提供

