

Datasheet for the Xplore IM 5.5 5,5ml Injection Moulding Instrument

(All information subject to change without notice)



IM 5.5 DESCRIPTION & SPECIFICATIONS

Design features	Heated, removable barrel and plunger are operated with compressed air. Barrel may be filled by hand with granules or powder or may be filled with melt from one of our twin screw micro compounders. The heated moulds are easy to detach thanks to their conical shape. Adjustable holding pressure and holding time avoids the test sample from shrinkage. Injection force at 10 bar primary pressure = 12.3 kN (~1,200 bar). Maximum main injection force at 16 bar primary pressure = 19 kN (~1,900 bar).
Dimensions	L x W x H = 65 cm x 25 cm x 30 cm (working height = 50 cm), Weight: 30 kg. Injection barrel capacity: 5.5 ml; mould area: 90 x 25 mm².
Power source	Main supply pressure: boosted air, or compressed air cylinder 2 - 16 bar. All set parameters (see below) can be adjusted via a touch screen.
Mould:	Mould geometry can be selected from a range of standard test bars shown on the last page. Other certified mould geometries than shown, can be ordered on request.
Heating system	Two heating zones with individual temperature control: one for the barrel and plunger and one for the mould. Maximum mould temperature: 200°C Maximum operating temperature: 400°C Heating time from 20°C to 240°C: 5 min.
Supply voltage	208 - 230 Vac / 50 - 60 Hz.
Standard accessories	Two nozzles, one set of operating tools and a user manual.

Set parameters operating touch screen:

Set parameters	Process	Set-point
Injection Pressure	x	x
Injection Time	x	x
Holding Pressure	x	x
Holding Time	x	x
Mould Temperature	x	x
Main Cylinder Temperature	x	x



IM 5.5 CURRENT PRICES (excluding VAT)

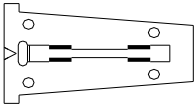
Ref.	Description
IM.05.0.00	Price of the IM 5.5 described above, excluding mould

PRICES OF MOULDS FOR THE IM 5.5

Ref.	Description
IM.05.0.10	standard mould (see page 4)
IM.05.0.20	standard mould double cavity (see page 4)
IM.05.0.40	SP2 finish (polished) single cavity mould, extra costs
IM.05.0.50	SP2 finish (polished) double cavity mould, extra costs
IM.05.0.70	custom made mould

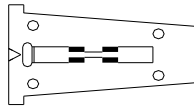
Xplore IM 5.5 standard moulds

0400201



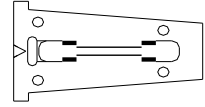
ISO 527-2-1BA

0402501



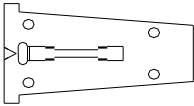
ASTM D638-03 Type V
s = 3.2 mm

0405001



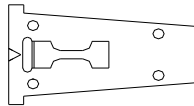
DIN53504-S2
h = 2mm

0400301



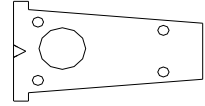
ISO 37, Type 3
s = 2 mm

0402901



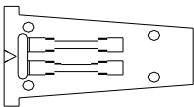
ASTM D 1708-02a
h=1.5mm

0405201



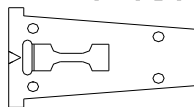
CIRCLE $\varnothing$ 25 mm
h=1.5 mm

0400302



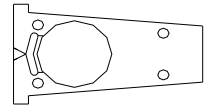
ISO 37, Type 3
s = 2 mm

0403001



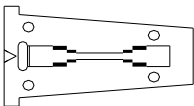
ASTM D 1708-02a
h=3,0mm

0405301



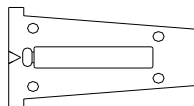
CIRCLE $\varnothing$ 40 mm
h=1.5 mm

0400401



ISO 527-2-5B
ISO 37, Type 2
s = 2 mm

0403101



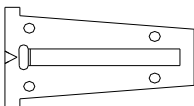
ASTM D256
63.5 x 12.7 x 3.2 mm

0405401



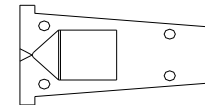
90 x 5/10 mm

0400501



IZOD ISO 180
Charpy ISO 179
s = 4 mm

0405501



SQUARE 30 mm
s = 1.27 mm