



Idefix - Grinder

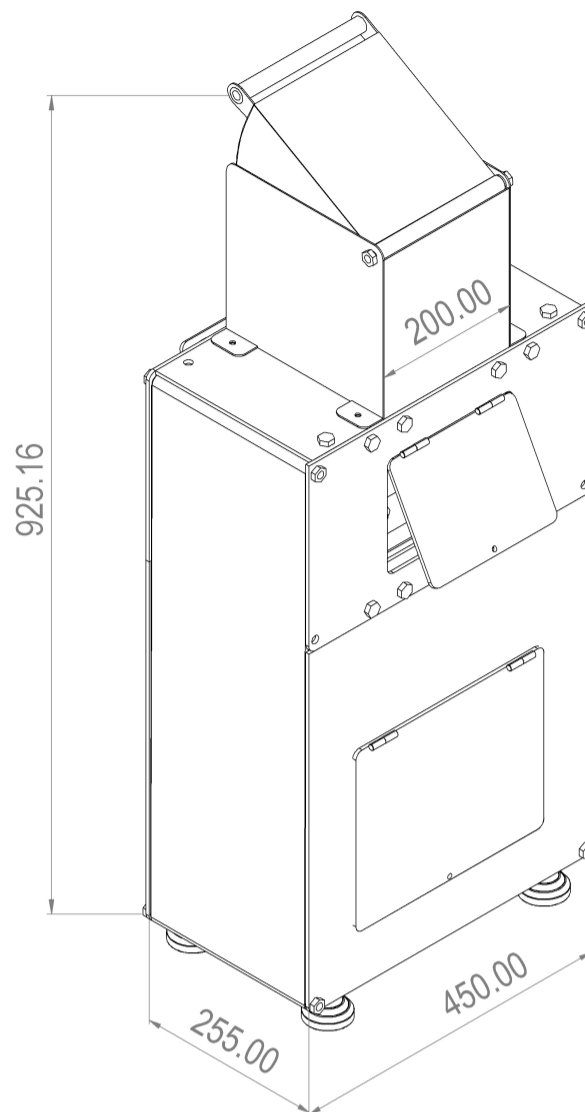
Small plastic grinder

Specifications

Motor	2.2kW 1480 RPM 220V or 380V
Motor protection	thermal and magnetic
Stationary knives (toolsteel)	2x 20cm x 1cm
Mobile knives (toolsteel)	3x 20cm x 1cm
Rotor diameter	12cm
Knife width	20cm
Hopper inlet size	20cm x 15cm
Noise	90dB (loud)
Electricity	single or 3 phase
Smallest grind size	1 mm
Recommended output flake size	2-6 mm
Kg/h	20 – 40
Status	Tested and Mature
Version	V1.1 (Revision C)
Tested plastics type	1 2 3 4 5 6
License	CERN OHL v2
Certifications	CE

Resources

Dimensions



[Download Drawing](#)

Performance

Test Data

PET Flakes

Test - 21.01.2021 - RevC (GIT)

1st Pass

Input: 3-5cm flakes from 40 1.5l bottles, at 30g per bottle = 1.2Kg which was one full hopper load

Duration : 6m:24s

Sieve : 3mm

Noise : 90db

Motor Temperature - 2kW : unchanged

Knife temperature : warm

Average output flake size (median) : 2.5mm

Remarks

- there was noticeable warm air with plastic smell in the hopper
 - hopper needs redesign for continues feeding
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2nd Pass

Duration : 4 minutes

Average output flake size (median) : 2.2mm
