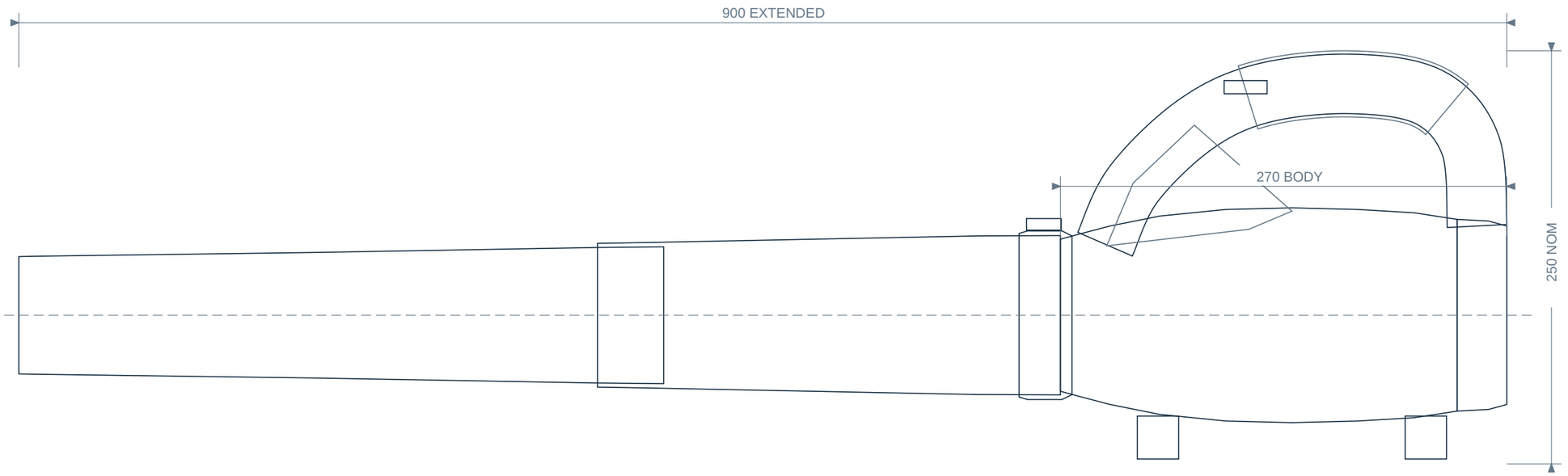
ARC1300

GENERAL ARRANGEMENT / ORTHOGRAPHIC VIEWS

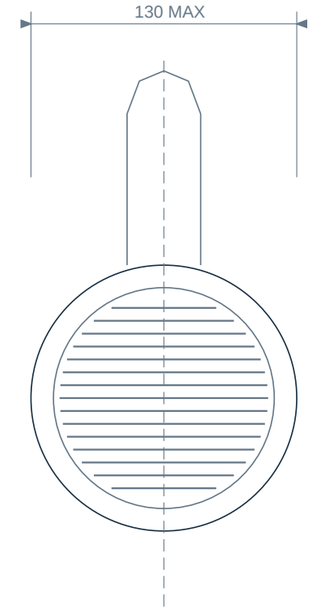
R01 / 2026-11-03

CONCEPT DESIGN - NOT FOR MANUFACTURE

LEFT SIDE / EXTENDED



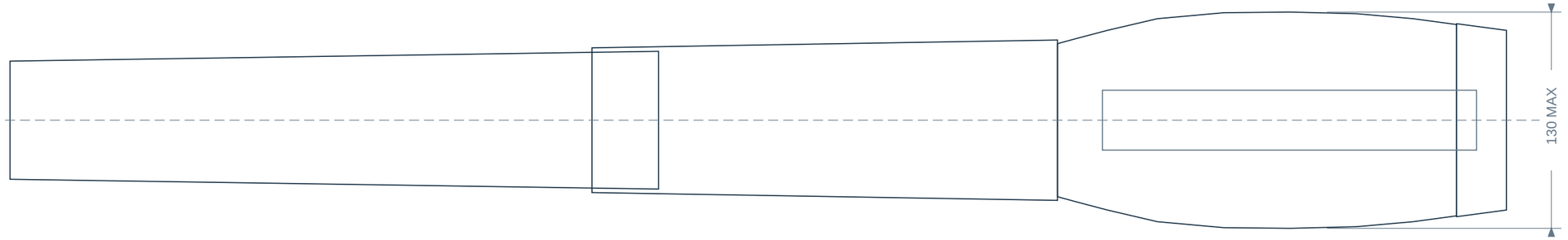
REAR VIEW

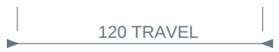


DATUM AXIS: z = 90mm

Nominal hand grip: 125mm useful length, approximately 36 x 40mm section. Final hand clearance to be checked on a grip mock-up.

TOP VIEW





RETRACTED LENGTH: 780mm. Sliding tube overlap and positive stop detail to be developed.

Mains lead and plug omitted from the orthographic envelope dimensions.

DO NOT SCALE. Proposed nominal dimensions only.

No tooling, fit tolerances or safety approval implied.

Motor/PCB geometry represents packaging envelopes.

Display target mass: 1.60 kg; not calculated from this mesh.

ARC1300 / CORDED LEAF BLOWER

DRG: ARC1300-C01 ALL UNITS: mm	SCALE 1:3	REV R01	SHEET 1 / 3

ARC1300

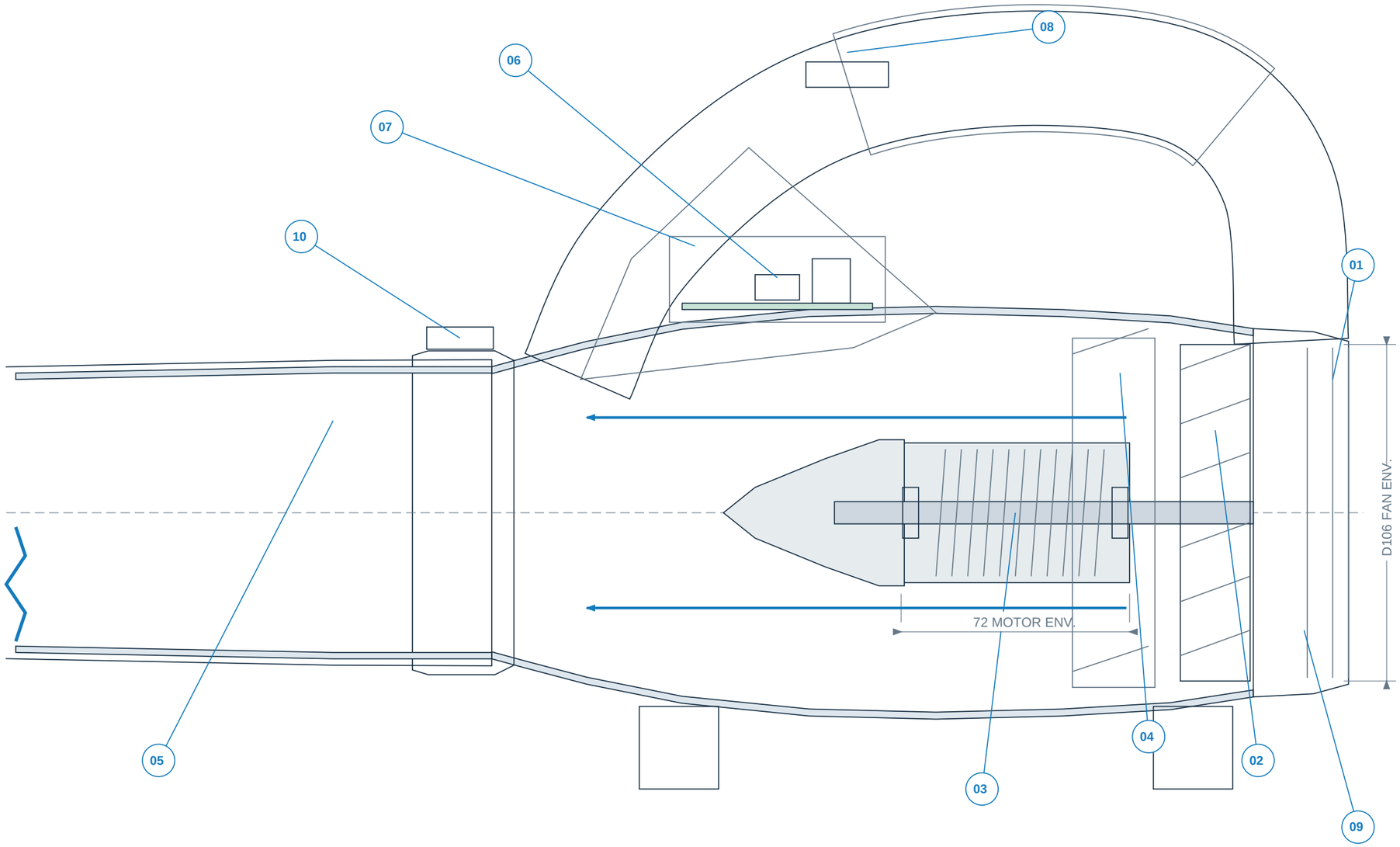
A-A / INTERNAL PACKAGING SECTION

R01 / 2026-11-03

CONCEPT DESIGN - NOT FOR MANUFACTURE

A-A: Y = 0 / LOOKING TOWARD +Y

Front tube broken for clarity. Section is a packaging diagram, not a blade profile.



AIRFLOW: REAR TO FRONT

01	Rear intake guard
02	Single-stage axial impeller
03	Brushless motor + bearings
04	Fixed guide vanes / carrier
05	Converging duct + outlet tube
06	Rectifier / motor-driver PCB
07	Insulating compartment partition
08	Speed wheel + stop-release trigger
09	Cable clamp / strain relief
10	Positive tube locking latch

PACKAGING ENVELOPES
Motor: D44 x 72
Impeller: D106 x 22
PCB assembly: 60 x 28 x 20
Shell wall: 2.2 nominal
Tube wall: 2.0 nominal

230V AC input with rectified brushless drive. Electrical connections are functional only. Insulation, cooling, blade clearance and retention require prototype validation.

DO NOT SCALE. Proposed nominal dimensions only.

No tooling, fit tolerances or safety approval implied.

Motor/PCB geometry represents packaging envelopes.

Display target mass: 1.60 kg; not calculated from this mesh.

ARC1300 / CORDED LEAF BLOWER

DRG: ARC1300-C02	SCALE	REV	SHEET
ALL UNITS: mm	1:1.5	R01	2 / 3

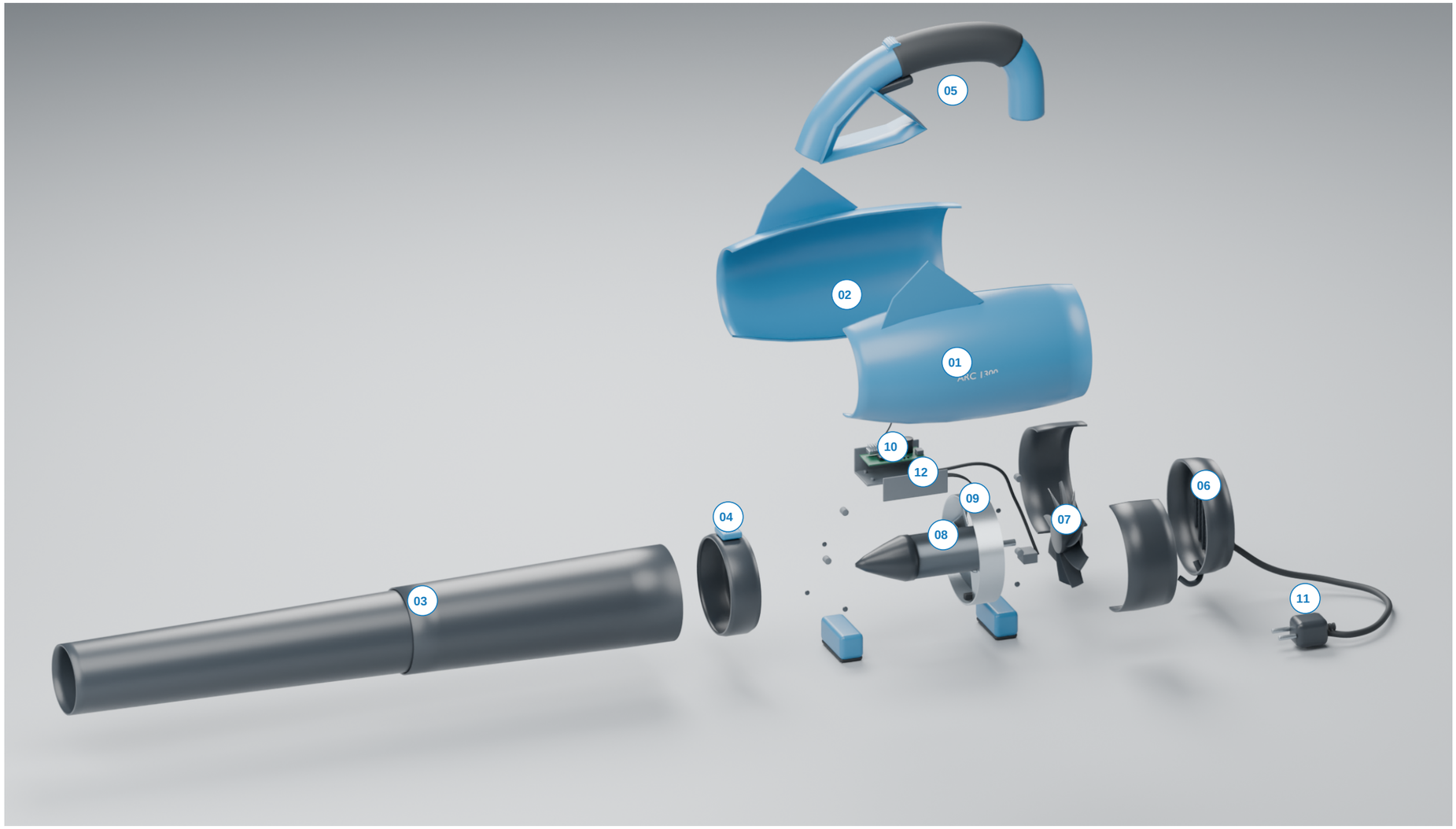
ARC1300

EXPLODED ASSEMBLY / CONCEPT PARTS LIST

R01 / 2026-11-03

CONCEPT DESIGN - NOT FOR MANUFACTURE

Blender mesh assembly - separation directions are illustrative.



ITEM	ASSEMBLY / QUANTITY
01	Near shell + fairing [1 set] Polymer envelope
02	Far shell + fairing [1 set] Polymer envelope
03	Telescopic outlet tube [2 pcs] 2.0 nominal wall
04	Collar + locking latch [1 set] Positive retention
05	Handle / TPE / controls [1 set] Grip mock-up required
06	Rear intake guard [1 set] Access test required
07	Axial impeller [1] Blade geometry TBD
08	Brushless motor [1 assy] D44 x 72 envelope
09	Stator / motor carrier [1 assy] Includes isolators
10	Rectifier / driver PCB [1 assy] 60 x 28 x 20 envelope
11	Tail lead + mains plug [1 set] Supplier selection TBD
12	Electrical compartment [1 set] Insulating carrier
--	Fixings / seals / pads [TBD] Not procurement BOM

MODEL CONTENTS
01 Exterior - Assembled
02 Longitudinal Concept Section
03 Exploded Assembly

Native file: ARC1300_R01.blend
Neutral mesh: ARC1300_R01.glb

R01 PACKAGING CHANGE
Driver PCB is moved into the front handle-root compartment to reserve the central hand opening. The image concept and this dimensional model are not production-equivalent.

DO NOT SCALE. Proposed nominal dimensions only.

No tooling, fit tolerances or safety approval implied.

Motor/PCB geometry represents packaging envelopes.

Display target mass: 1.60 kg; not calculated from this mesh.

ARC1300 / CORDED LEAF BLOWER

DRG: ARC1300-C03 ALL UNITS: mm	SCALE NTS	REV R01	SHEET 3 / 3