

# 01

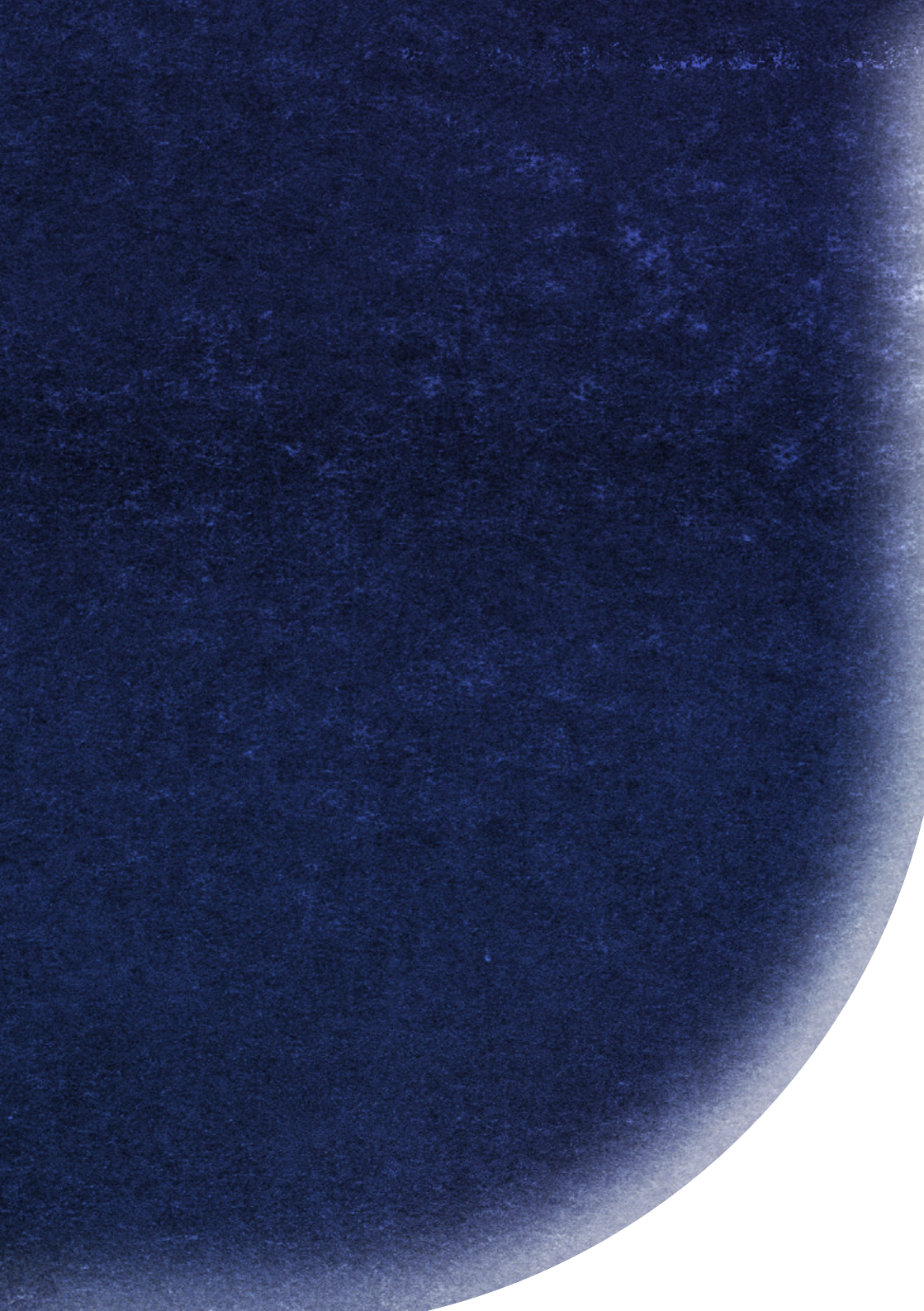
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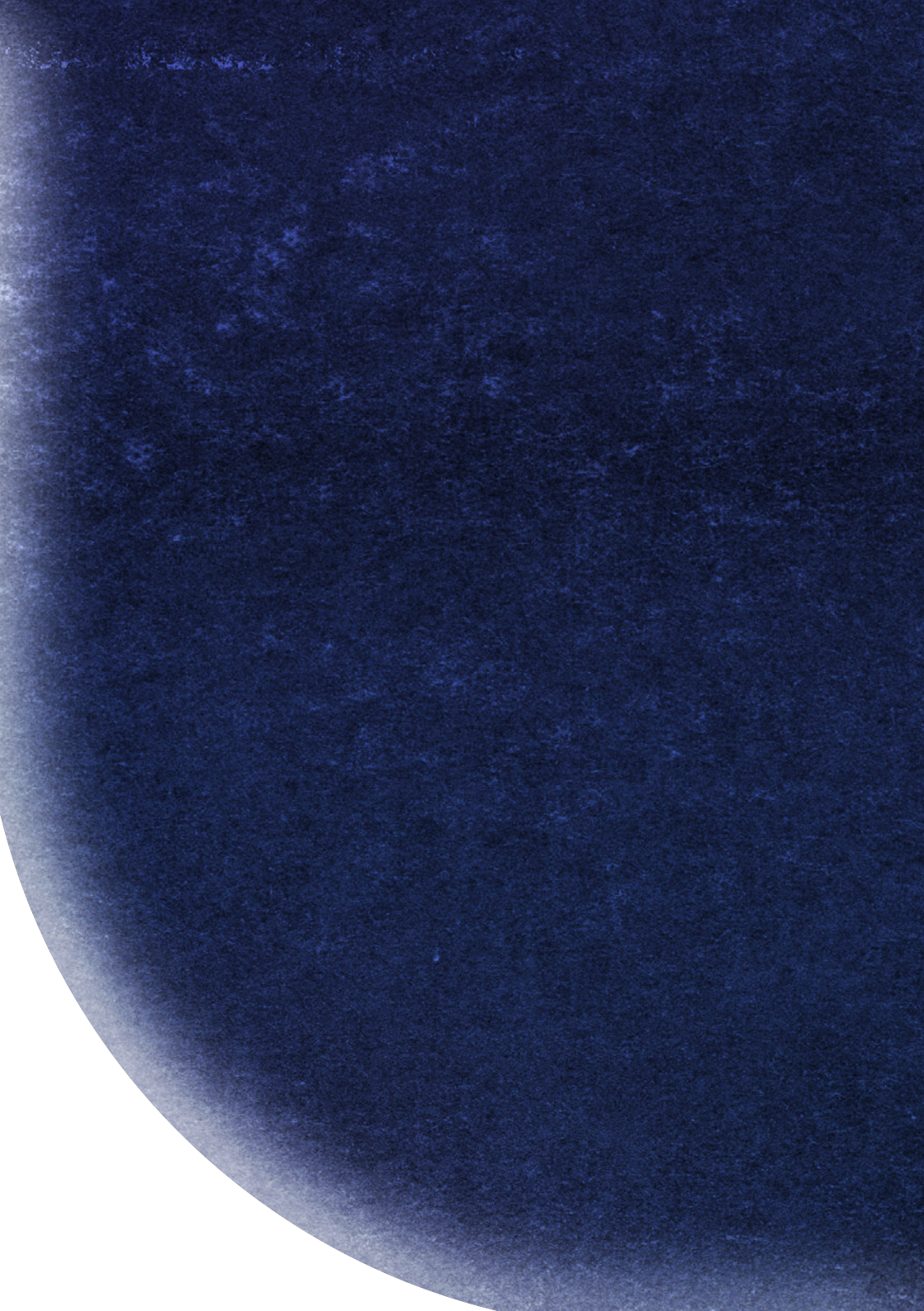
# SURFACE PREP

## **SURFACE PREP**

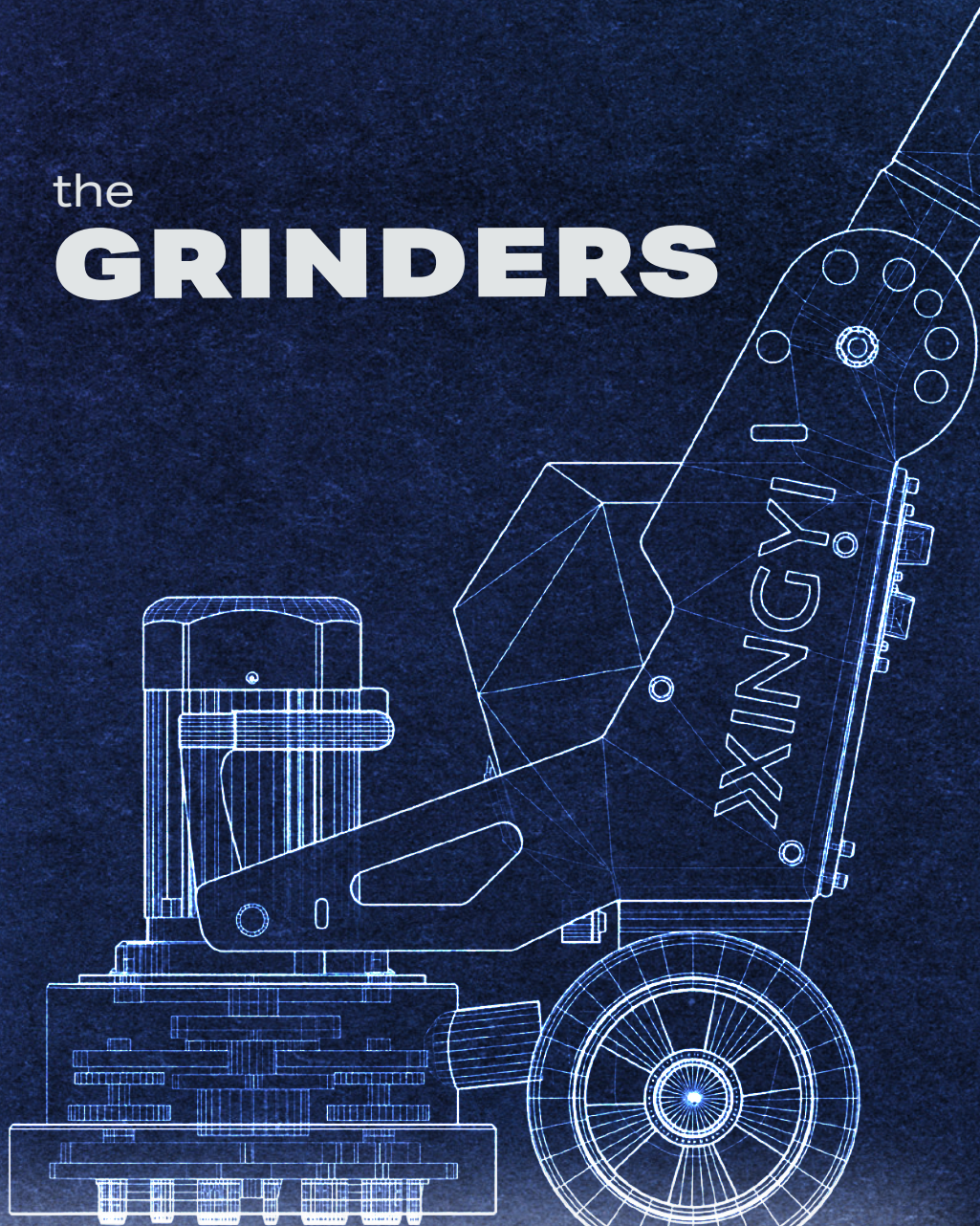
**16**

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| Floor grinders ..... | 19 |
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the  
**GRINDERS**



# WHAT GRINDER?

Three questions: Job, area, and the power on site.

## HOW MUCH FLOOR?

- ➔ **Edges, corners and small rooms**  
Stairs, thresholds, tight corners. **SINGLE DISC GRINDERS 30–34**
- ➔ **Medium**  
Garages, shop units, medium rooms. **COMPACT PLANETARY 35**
- ➔ **Large**  
Warehouse bays, retail slabs, car parks. **FULL-SIZE PLANETARY 36**
- ➔ **Very Large**  
For very large jobs. The machine does the pushing. **SELF-PROPELLED 40**
- ➔ **Spot work**  
Angle grinder sets. Grinds and chases. **SPOT WORK 42–43**

## WHAT'S THE JOB?

- ➔ **Stripping Paint or Epoxy**  
Any machine in your size class, fitted with PCD tooling. **DISC GUIDE 24**
- ➔ **Polishing or Fine Finish**  
Any planetary in your size class, fitted with resin pads. **PAD GUIDE 26**

## WHAT'S ON SITE?

### ➔ 110 V or 230 V single phase

Single phase machines.

**SINGLE PHASE 31-33**

### ➔ Three Phase

The full section is open to you

**THREE PHASE 32-39**

### ➔ No Supply

**TRANSFORMERS & GENERATORS 193**



Every dry grind pairs with an M-class vac. H-class for old, possibly asbestos-bearing coatings. It goes on the hire order, every time.



A grinder stops 100-300 mm short of every wall. The edge grinder is the second machine on the order.



Need more than CSP 3? That's not a grinder job. Scarifying p.45, shot blasting p.65.

A grinder wears the slab down with diamond segments on spinning discs, the bond wears back so fresh diamond keeps biting. Single disc units reach edges; planetary ones cover ground fast. Swap the metal for resin pads and the same machine polishes instead of grinds, climbing the grit ladder up to a gloss.



**WHAT IT DOES**

Takes off thin coatings, paint, adhesive, bitumen, and the soft dusty layer on a fresh slab, and roughens the surface so the next coating grabs hold. Grinders are also capable of leveling floors and removing high spots. Change the metal segments for resin pads and it polishes that slab.

**WHY IT’S USED**

Preps a floor before applying resin, epoxy, or a new topping, even for thin coatings under a third of a millimetre. Strips old paint or coating that’s gone brittle, up to about 1.5 mm thick. Grinds down ridges and lips at slab joints. Polishes bare concrete to a salt and pepper, exposed-aggregate or cream finish.

**WHAT IS CSP?**

csp, the “concrete surface profile”, is how rough a floor is after prep, measured on the ICRI scale from 1 (*near-smooth*) to 10 (*coarse and raked open*).



**CSP 1**

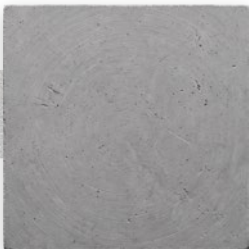
Smooth, minimal key. Reachable with high grit resin pads. Suited to penetrating sealers and thin films.

**CSP 2**

Light, uniform grind. The standard profile a grinder achieves. Standard metal-bond grind, repeatable on any machine.

**CSP 3**

Coarse, open profile. Low grit, grinding pressure and appropriate metal bond. csp 3 is the ceiling for grinding.



## WHAT IS ICRI?

ICRI, the *International Concrete Repair Institute*, is the American body that came up with the CSP scale everyone uses to describe how rough a prepped floor is. They set the standard and publish the reference samples, and the whole trade, coating manufacturers included, works off it. So when a product data sheet calls for CSP 3, it's pointing back to ICRI's scale. It's the common language because the coatings you're prepping for are spec'd in it.

❶ **ICRI:** US body behind the CSP scale.

❷ **Laitance:** weak dusty layer on a fresh slab.

❸ **Substrate:** the slab itself.

❹ **Keying:** roughening so the coating grips.

❺ **Lippage:** a height step at a joint.

❻ **Grit Ladder:** coarse-to-fine resin pad steps that build a polish.

## EDGES

A larger grinder won't get close enough to the edges and corners. Hire an edge grinder alongside the main machine, or you finish most of the floor and stop short at every wall.



## SILICA DUST

Dust extraction is a legal requirement. Grinding concrete releases respirable crystalline silica. Irish law caps exposure at  $0.1 \text{ mg/m}^3$  over an 8-hour day (S.I. 122 of 2024), and a dry grinder without an M-class dust extractor breaches it. H-class if the floor has old, possibly asbestos-bearing coatings. The vac goes on the hire order with the machine, every time.

# THE BOND RULE

**Hard floor**, soft bond.

Soft floor, **hard bond**.

medium

hard

soft

## WHY IT WORKS

A diamond segment is grit held in metal. The diamonds do the cutting; the metal bond is just the holder. As the floor blunts each diamond, the bond must wear away and let it fall out, exposing a sharp one beneath. A segment that cuts all day is a segment wearing away at exactly the right speed.

### ➔ Hard floors

A hard floor barely wears the bond, so the bond must be soft, or blunt diamonds stay trapped on the face and the segment stops cutting.

### ➔ Soft floors

A soft floor sheds coarse grit that eats the bond, so the bond must be hard, or your segments are gone by lunch.

### ➔ Failure 1: Glazing

Bond too hard for the floor. The segment goes smooth and shiny, the machine slides instead of cuts, dust stops coming. Fix: drop to a softer bond.

### ➔ Failure 2: Melting away

Bond too soft for the floor. The segments visibly shrink, a full set gone in hours. Fix: step up to a harder bond.



# GRINDING

The heads that fit our floor grinders.



PLATE



CUP



EASY FIT TOOL

## TERMINOLOGY

### ➔ Plate

Flat, one piece.



### ➔ Cup

Recessed (dished).



### ➔ Easy fit tool

The individual segment that fits onto a carrier plate to make up a set.



### ➔ Carrier plate

Holds the diamond tools. Interchangeable, faster to swap than a fixed plate.



### ➔ Grinding plate

Fixed type. Four bolts to remove for a tool change.



### ➔ PCD tooling

Stands for polycrystalline diamond: solid diamond segments brazed to the tool.



# GRIT LADDER

Coarse to fine, one grit at a time.

## WHY IT WORKS

A resin puck is fine diamond in soft resin. It still cuts, only finer each step: every grit shears off the scratch before it. Climb in order and the marks shrink pass by pass until the floor reads as gloss.

## THE BRIDGE

Metal ends at ~140 grit; resin takes over. Optional ceramic transitionals, 30 to 200 grit, bridge the jump and obey the bond rule: hard floor, soft bond.

### ➔ Stop points

Pucks run 60 to 3000. 200 reads matte, 400 satin, 800 gloss; 1500 up is high-gloss work. Densify before the high grits.

### ➔ Skipping (failure #1)

Too big a jump. The fine puck cannot clear the coarse scratch beneath; the flaw polishes into the shine. Fix: drop back a grit and climb evenly.

### ➔ Glazing (failure #2)

Run dry too long or parked in one spot, the resin face glazes and stops refining. Fix: keep the machine moving.



## TERMINOLOGY

### ➔ Resin puck

Fine diamond in a soft resin face. Refines the scratch, never cuts.



### ➔ Transitional

Ceramic-bond puck, 30 to 200 grit. Bridges metal to resin.



### ➔ Dot tool

Resin dots on a 60 or 100 mm plate. Same ladder, gentler cut.



### ➔ Grit

The number on the puck. Low cuts coarse, high polishes fine.



### ➔ Velcro adapter

Locks into the same station; takes 100 mm velcro pads for fine passes.



### ➔ Densifier

Liquid hardener applied before the high grits, so the floor takes and holds a shine.



## POLISHED CONCRETE FINISHES



# EASY FIT SEGMENTS

## Carrier Plates



Every planetary grinder in the fleet runs the same Easy Fit tooling. What changes from machine to machine is the carrier plate: a model-specific disc that fixes to the grinder head and presents the Easy Fit mount. Fit the right plate once, and the whole Easy Fit range below clips straight in, changed by hand without tools

## PCD tools

Not grit-rated, PCD is polycrystalline diamond for stripping coatings, graded by tool geometry, not a grit number. We have these readily available in the shop.



## Segments

|                                                                                     |                                                                                     |                                                                                     |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |
| <b>2 FLAT SEGMENTS</b>                                                              | <b>1 FLAT SEGMENT</b>                                                               | <b>2 ARROW SEGMENTS</b>                                                             |
| FULL BOND                                                                           | LIGHT PASSES                                                                        | 8MM                                                                                 |
| RANGE (G): 16/30/80/140                                                             | RANGE (G): 16/30                                                                    | AGGRESSIVE REMOVAL                                                                  |

## Lavina Segments

Genuine Lavina quick-change metal bond tooling. Five bond grades, G6–G120, to match any floor hardness.



**2 BUTTON  
(DOUBLE)**

**ONE BUTTON  
(SINGLE)**



**LENGTH - WIDTH - HEIGHT**

**QR CODE TO WEB LISTING**

1078 × 355 × 1201 mm



## XINGYI GX 250

Corner and edge grinder. Very compact, fits into a car boot. Capable of dry and wet grinding. The handle can be tilted according to the operator's needs.

DAY 1 €90

+1 DAY €45

WEEK €180



|                   |                                                                                        |
|-------------------|----------------------------------------------------------------------------------------|
| OPERATION         | Walk-behind                                                                            |
| WORKING WIDTH     | 250 mm                                                                                 |
| SPEED             | 350–1500 rpm                                                                           |
| GRINDING PRESSURE | 20.0 kg                                                                                |
| DISC CONFIG       | 250 mm × 1                                                                             |
| VOLTAGE           | <ul style="list-style-type: none"> <li>• 110 V</li> <li>• 220 V</li> </ul>             |
| RATED CURRENT     | <ul style="list-style-type: none"> <li>• 11 A</li> <li>• 5 A</li> </ul>                |
| PHASE             | 1                                                                                      |
| MOTOR POWER       | 1.1 kW                                                                                 |
| PLUG SIZE         | <ul style="list-style-type: none"> <li>• 32 A, 3 pin</li> <li>• 16 A, 3 pin</li> </ul> |
| WEIGHT            | 60.0 kg                                                                                |



## VACUUM PAIRING

BUDGET MTL 301

BEST PAIR

- MTL 202 DS
- MTL 452 DS

H-CLASS S2



812 × 386 × 1190 mm



**HTG  
250D**

Corner and edge grinder. Very compact and lightweight. Features an adjustable swing lever and axle. Fits through any door, only being ~39 cm wide.

|        |      |
|--------|------|
| DAY 1  | €90  |
| +1 DAY | €45  |
| WEEK   | €180 |

|               |                                                                                     |
|---------------|-------------------------------------------------------------------------------------|
| OPERATION     | Walk-behind                                                                         |
| WORKING WIDTH | 250 mm                                                                              |
| SPEED         | 1410 rpm                                                                            |
| DISC CONFIG   | 1 Pad & 3 Pads                                                                      |
| VOLTAGE       | <ul style="list-style-type: none"><li>• 110 V</li><li>• 220–240 V</li></ul>         |
| RATED CURRENT | 12.7 A                                                                              |
| PHASE         | 1                                                                                   |
| MOTOR POWER   | <ul style="list-style-type: none"><li>• 2.2 kW</li><li>• 3 kW</li></ul>             |
| PLUG SIZE     | <ul style="list-style-type: none"><li>• 32 A, 3 pin</li><li>• 16 A, 3 pin</li></ul> |
| WEIGHT        | 60.0 kg                                                                             |



**VACUUM PAIRING**

|           |                                                                                   |
|-----------|-----------------------------------------------------------------------------------|
| BUDGET    | MTL 301                                                                           |
| BEST PAIR | <ul style="list-style-type: none"><li>• MTL 202 DS</li><li>• MTL 452 DS</li></ul> |
| H-CLASS   | S2                                                                                |



1108 × 460 × 1188 mm



## HTG 250VS

Corner and edge grinder. Fitted with a branded WEG motor. The frame folds, allowing for easier transport and portability when not in use.

**DAY 1** €90

**+1 DAY** €45

**WEEK** €180



|                      |                |
|----------------------|----------------|
| <b>OPERATION</b>     | Walk-behind    |
| <b>WORKING WIDTH</b> | 250 mm         |
| <b>SPEED</b>         | 350–1500 rpm   |
| <b>DISC CONFIG</b>   | 1 Pad & 3 Pads |
| <b>VOLTAGE</b>       | • 110 V        |
| <b>RATED CURRENT</b> | 12 A           |
| <b>PHASE</b>         | 1              |
| <b>MOTOR POWER</b>   | • 2.2 kW       |
| <b>PLUG SIZE</b>     | • 32 A, 3 pin  |
| <b>WEIGHT</b>        | 70.0 kg        |



## VACUUM PAIRING

|                  |                              |
|------------------|------------------------------|
| <b>BUDGET</b>    | MTL 301                      |
| <b>BEST PAIR</b> | • MTL 202 DS<br>• MTL 452 DS |
| <b>H-CLASS</b>   | S2                           |

1739 × 435 × 1631 mm



CONGLORY  
CG 250

For uneven floors, corners and edges. The handle folds forward to check the slab. Speed adjustable. Keeps 60% of its weight directly on the head.

|        |      |
|--------|------|
| DAY 1  | €124 |
| +1 DAY | €62  |
| WEEK   | €248 |

|                   |              |
|-------------------|--------------|
| OPERATION         | Walk-behind  |
| WORKING WIDTH     | 250 mm       |
| SPEED             | 350–2000 rpm |
| GRINDING PRESSURE | 56.6 kg      |
| DISC CONFIG       | 250 mm × 1   |
| VOLTAGE           | 380–460 V    |
| RATED CURRENT     | 11.9 A       |
| PHASE             | 3            |
| MOTOR POWER       | 5.5 kW       |
| PLUG SIZE         | 32 A, 5 pin  |
| WEIGHT            | 182.5 kg     |



VACUUM PAIRING

|           |            |
|-----------|------------|
| BUDGET    | MTL 452 DS |
| BEST PAIR | DM3 EL     |
| H-CLASS   | S3         |



1542 × 572 × 1640 mm



## XINGYI GX 580

Grinds wet or dry at variable speed with reversible rotation. LED light and a digital display control panel. Folds for transport.

DAY 1 **€134**

+1 DAY **€67**

WEEK **€268**



|                   |                                                                                        |
|-------------------|----------------------------------------------------------------------------------------|
| OPERATION         | Walk-behind                                                                            |
| WORKING WIDTH     | 580 mm                                                                                 |
| SPEED             | 450–1680 rpm                                                                           |
| GRINDING PRESSURE | 103.5 kg                                                                               |
| DISC CONFIG       | 310 mm × 2                                                                             |
| VOLTAGE           | <ul style="list-style-type: none"> <li>• 220–240 V</li> <li>• 380–460 V</li> </ul>     |
| RATED CURRENT     | <ul style="list-style-type: none"> <li>• 20.6 A</li> <li>• 11.9 A</li> </ul>           |
| PHASE             | <ul style="list-style-type: none"> <li>• 1</li> <li>• 3</li> </ul>                     |
| MOTOR POWER       | 5.5 kW                                                                                 |
| PLUG SIZE         | <ul style="list-style-type: none"> <li>• 32 A, 3 pin</li> <li>• 32 A, 5 pin</li> </ul> |
| WEIGHT            | 200.5 kg                                                                               |

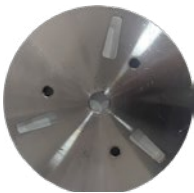


## VACUUM PAIRING

|           |           |
|-----------|-----------|
| BUDGET    | DM3 EL    |
| BEST PAIR | DG 50 EXP |
| H-CLASS   | T6        |



1539 × 462 × 1417 mm



**HTG  
460**

Planetary grinder and polisher for concrete, stone and terrazzo, wet or dry; variable speed, reversible rotation, and a magnetic LED light.

|        |      |
|--------|------|
| DAY 1  | €170 |
| +1 DAY | €85  |
| WEEK   | €340 |

|                   |             |
|-------------------|-------------|
| OPERATION         | Walk-behind |
| WORKING WIDTH     | 456 mm      |
| SPEED             | 0–1500 rpm  |
| GRINDING PRESSURE | 54.5 kg     |
| DISC CONFIG       | 200 mm × 3  |
| VOLTAGE           | 220–240 V   |
| RATED CURRENT     | 8.1 A       |
| PHASE             | 1           |
| MOTOR POWER       | 2.3 kW      |
| PLUG SIZE         | 16 A, 3 pin |
| WEIGHT            | 193.5 kg    |



**VACUUM PAIRING**

|           |            |
|-----------|------------|
| BUDGET    | MTL 452 DS |
| BEST PAIR | DM3 EL     |
| H-CLASS   | S3         |



1688 × 554 × 1509 mm



## HTG 550 ULTRA

Three-head planetary for heavy floor prep and polishing. Grinds coatings, laitance and old toppings right back across an open slab.

**DAY 1** €200

**+1 DAY** €100

**WEEK** €400



|                          |                                                                                        |
|--------------------------|----------------------------------------------------------------------------------------|
| <b>OPERATION</b>         | Walk-behind                                                                            |
| <b>WORKING WIDTH</b>     | 550 mm                                                                                 |
| <b>SPEED</b>             | 350–1980 rpm                                                                           |
| <b>GRINDING PRESSURE</b> | 147 kg                                                                                 |
| <b>DISC CONFIG</b>       | 230 mm × 3                                                                             |
| <b>VOLTAGE</b>           | <ul style="list-style-type: none"> <li>• 220–240 V</li> <li>• 380–460 V</li> </ul>     |
| <b>RATED CURRENT</b>     | 11 A                                                                                   |
| <b>PHASE</b>             | 3                                                                                      |
| <b>MOTOR POWER</b>       | 5.5 kW                                                                                 |
| <b>PLUG SIZE</b>         | <ul style="list-style-type: none"> <li>• 32 A, 3 pin</li> <li>• 32 A, 5 pin</li> </ul> |
| <b>WEIGHT</b>            | 289.0 kg                                                                               |



## VACUUM PAIRING

|                  |           |
|------------------|-----------|
| <b>BUDGET</b>    | DM3 EL    |
| <b>BEST PAIR</b> | DG 50 EXP |
| <b>H-CLASS</b>   | S3 OR T6  |

1120 × 640 × 1200 mm



**XINGYI  
600 4I (Q8)**

Four-head planetary for grinding and polishing large or medium floors. Damping pad to protect the grinding head from damage. Available in single and three phase.

|        |      |
|--------|------|
| DAY 1  | €200 |
| +1 DAY | €100 |
| WEEK   | €400 |

|               |                                                                                     |
|---------------|-------------------------------------------------------------------------------------|
| OPERATION     | Walk-behind                                                                         |
| WORKING WIDTH | 600 mm                                                                              |
| SPEED         | 350–1680 rpm                                                                        |
| DISC CONFIG   | 320 mm × 4                                                                          |
| VOLTAGE       | <ul style="list-style-type: none"><li>• 220–240 V</li><li>• 380–460 V</li></ul>     |
| RATED CURRENT | <ul style="list-style-type: none"><li>• 29.3 A</li><li>• 17 A</li></ul>             |
| PHASE         | <ul style="list-style-type: none"><li>• 1</li><li>• 3</li></ul>                     |
| MOTOR POWER   | <ul style="list-style-type: none"><li>• 5.5 kW</li><li>• 9.5 kW</li></ul>           |
| PLUG SIZE     | <ul style="list-style-type: none"><li>• 32 A, 3 pin</li><li>• 32 A, 5 pin</li></ul> |
| WEIGHT        | <ul style="list-style-type: none"><li>• 201.0</li><li>• 239.0 kg</li></ul>          |



**VACUUM PAIRING**

|           |           |
|-----------|-----------|
| BUDGET    | DM3 EL    |
| BEST PAIR | DG 50 EXP |
| H-CLASS   | T6        |



2177 × 690 × 1855 mm



## XINGYI GX 720

Self-propelled grinder and polisher. The battery drive does the pushing, so the operator steers and guides rather than shoves the weight.

**DAY 1** €280

**+1 DAY** €140

**WEEK** €560



|                          |                |
|--------------------------|----------------|
| <b>OPERATION</b>         | Self-propelled |
| <b>WORKING WIDTH</b>     | 680 mm         |
| <b>SPEED</b>             | 350–1680 rpm   |
| <b>GRINDING PRESSURE</b> | 268 kg         |
| <b>DISC CONFIG</b>       | 370 mm × 4     |
| <b>VOLTAGE</b>           | 400 V          |
| <b>RATED CURRENT</b>     | 32.2 A         |
| <b>PHASE</b>             | 3              |
| <b>MOTOR POWER</b>       | 15.0 kW        |
| <b>PLUG SIZE</b>         | 32 A, 5 pin    |
| <b>WEIGHT</b>            | 459.0 kg       |



## VACUUM PAIRING

|                  |           |
|------------------|-----------|
| <b>BUDGET</b>    | DM3 EL    |
| <b>BEST PAIR</b> | DG 50 EXP |
| <b>H-CLASS</b>   | T6        |

2042 × 700 × 1770 mm



**HTG  
680 SP**

Self-propelled four-head planetary for large-area work: heavy grinding and levelling, epoxy and coating removal, polishing and terrazzo finishing.

|        |      |
|--------|------|
| DAY 1  | €340 |
| +1 DAY | €170 |
| WEEK   | €680 |

|                   |                |
|-------------------|----------------|
| OPERATION         | Self-propelled |
| WORKING WIDTH     | 678 mm         |
| SPEED             | 350–1980 rpm   |
| GRINDING PRESSURE | 229 kg         |
| DISC CONFIG       | 230 mm × 4     |
| VOLTAGE           | 380–460 V      |
| RATED CURRENT     | 23.4 A         |
| PHASE             | 3              |
| MOTOR POWER       | 11.0 kW        |
| PLUG SIZE         | 32 A, 5 pin    |
| WEIGHT            | 527.0 kg       |



**VACUUM PAIRING**

|           |           |
|-----------|-----------|
| BUDGET    | DM3 EL    |
| BEST PAIR | DG 50 EXP |
| H-CLASS   | T6        |



2241 × 805 × 1932 mm



## XINGYI 800LE+

The big self-propelled planetary for large open floors, four heads covering ground fast on heavy prep and high-gloss polishing alike.

**DAY 1** €450

**+1 DAY** €225

**WEEK** €900



|                          |                |
|--------------------------|----------------|
| <b>OPERATION</b>         | Self-propelled |
| <b>WORKING WIDTH</b>     | 800 mm         |
| <b>SPEED</b>             | 450–1950 rpm   |
| <b>GRINDING PRESSURE</b> | 336.5 kg       |
| <b>DISC CONFIG</b>       | 256 mm × 4     |
| <b>VOLTAGE</b>           | 380–460 V      |
| <b>RATED CURRENT</b>     | 32.2 A         |
| <b>PHASE</b>             | 3              |
| <b>MOTOR POWER</b>       | 15.0 kW        |
| <b>PLUG SIZE</b>         | 32 A, 5 pin    |
| <b>WEIGHT</b>            | 570.0 kg       |



## VACUUM PAIRING

|                  |           |
|------------------|-----------|
| <b>BUDGET</b>    | DM3 EL    |
| <b>BEST PAIR</b> | DG 50 EXP |
| <b>H-CLASS</b>   | T6        |



ANGLE GRINDER SET  
125 MM

Hand-held angle grinder with a grinding cup and dust guard. Allows the operator to work in tight spaces, walls and corners.

|        |     |
|--------|-----|
| DAY 1  | €34 |
| +1 DAY | €17 |
| WEEK   | €68 |



|               |                                                                                                                 |
|---------------|-----------------------------------------------------------------------------------------------------------------|
| VOLTAGE       | <ul style="list-style-type: none"><li>• 110 V</li><li>• 230 V</li></ul>                                         |
| PLUG SIZE     | 16 A, 3 pin                                                                                                     |
| MOTOR POWER   | <ul style="list-style-type: none"><li>• 1.1 kW</li><li>• 1.5 kW</li></ul>                                       |
| DISC DIAMETER | 115–125 mm                                                                                                      |
| INCLUDED      | <ul style="list-style-type: none"><li>• Nakaya 125-MA (DUST GUARD)</li><li>• Grinding Cup Disc (25 G)</li></ul> |
| VAC PAIR      | Metabo ASR 35 ASL                                                                                               |



## ANGLE GRINDER 180 MM

Hand-held angle grinder with a grinding cup and dust guard. Allows the operator to work in tight spaces and corners. Removes small humps on a floor.

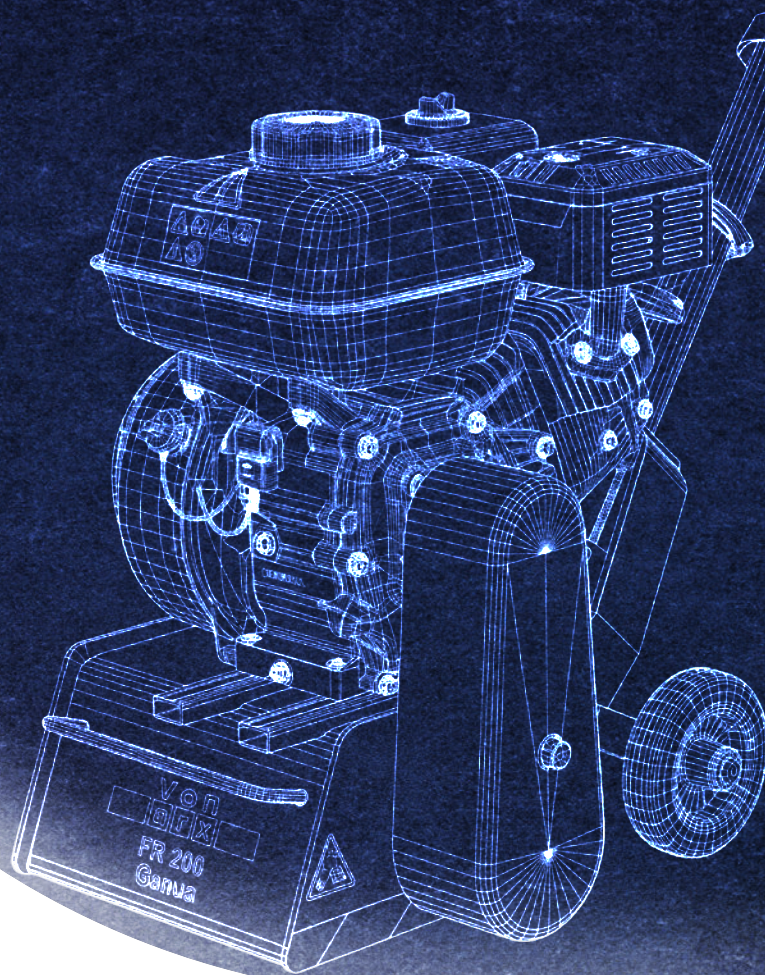
DAY 1 €44

+1 DAY €22

WEEK €88



|                      |                                                                                                                 |
|----------------------|-----------------------------------------------------------------------------------------------------------------|
| <b>VOLTAGE</b>       | <ul style="list-style-type: none"> <li>• 110 V</li> <li>• 220–240 V</li> </ul>                                  |
| <b>PLUG SIZE</b>     | 32 A, 3 pin                                                                                                     |
| <b>MOTOR POWER</b>   | <ul style="list-style-type: none"> <li>• 2.2 kW</li> <li>• 2.4 kW</li> </ul>                                    |
| <b>DISC DIAMETER</b> | 180 mm                                                                                                          |
| <b>ADD-ON</b>        | <ul style="list-style-type: none"> <li>• Nakaya 180 (Dust guard)</li> <li>• Grinding Cup Disc (25 G)</li> </ul> |
| <b>VAC PAIRS</b>     | <ul style="list-style-type: none"> <li>• MTL 202 DS</li> <li>• MTL 202 DS LP</li> <li>• MTL 452</li> </ul>      |





the  
**SCARIFIER**

# WHAT SCARIFIER?

Three questions: what's coming off, the area, and the power on site.

## HOW MUCH FLOOR?

### → Edges, corners and small rooms

The 100 mm VA 10 L

VA 10 L 50

### → Small

The 200 mm FR 200 Genus electric or petrol.

FR 200 GENUS 51

### → Medium

The 250 mm VA 25 S

VA 25 S 53

### → Large

The 300 mm VA 30 S, petrol or three phase electric.

VA 30 S 55

### → The Heavy End

The VA 30 SH, Diesel, Hydraulic Traction.

VA 30 SH 57

## WHAT'S THE JOB?

### → Road Lines & Markings

Beam cutters take paint and markings off without tearing the surface.

FR 200 51

### → Thermoplastic & Thick Coatings

Milling cutters strip coatings.  
Any machine in your size class.

### → Roughening for a Coating

Carbide cutters. csp 4–7. Match the coating's number on the scale.

## WHAT'S THE JOB?

### ➔ High Spots, Lippage, & Levelling

Depth does the work.

VA 30 S 55

VA 30 SH 57

### ➔ A Flat Finish or Low Dust

Not a scarifier's job. The drum hammers, it doesn't grind.

SHAVER 59

## WHAT'S ON SITE?

### ➔ Single phase 110 / 230 V

The VA 10 L / FR 200 Genus runs off the socket in the wall.

VA 10 L 50

### ➔ Three Phase

The VA 30 S electric, 400 V on a 32 A, 5 pin.

VA 30 S 55

### ➔ No Supply?

FR 200 Petrol:

FR 200 51

VA 25 S Electric:

VA 25 S 53

VA 30 S Electric:

VA 30 S 55

VA 30 SH Diesel:

VA 30 SH 57



Vibration limits hours. The FR 200 Genus under  $3.6 \text{ m/s}^2$  runs most of a shift inside the limits; the VA 30 SH at  $14.1 \text{ m/s}^2$  reaches the daily limit in about an hour of trigger time. Plan the crew rotation before the day, not during it.

Every dry cut pairs with an M-class vac, H-class over old, possibly asbestos-bearing coatings. It goes on the hire order, every time.

A scarifier hammers the slab rather than abrading it. A drum spins at speed carrying loose cutters that fly outward and chip at the surface, taking off far more per pass than a grinder. You set the cut depth by raising or lowering the drum, and that depth is the number the whole job turns on.



**WHAT IT DOES**

Hammers through thick coatings, line paint, and trip hazards, and cuts a coarse profile (CSP 4 to 7) for heavy coatings to grip. Takes 3 to 7 mm a pass, far more than a grinder.

**WHY IT'S USED**

Stripping thick coatings a grinder can't touch: thermoplastic, heavy epoxy over 2 mm. Takes down raised slab edges at joints. Bulk levelling high spots before grinding or coating.

**WHAT CUTTERS?**

TCT flails are “tungsten-carbide-tipped steel cutters”, the general-purpose choice for clean cuts at mid profiles; star cutters are solid hardened steel with no carbide, coarser and tougher, for hard concrete and heavy impact.

**CSP 4**

Lightest profile worth a scarifier. TCT flails, one shallow pass.



**CSP 5**

Falls between cutter setups. TCT flails run deeper.



**CSP 6**

Standard profile a scarifier achieves. Use TCT or star cutters.



**CSP 7**

Top of the walk-behind range. Star cutters, max depth.



## WHAT IS ICRI?

ICRI, the *International Concrete Repair Institute*, is the American body that came up with the CSP scale everyone uses to describe how rough a prepped surface is. They set the standard and publish the reference samples, and the whole trade, coating manufacturers included, works off it. So when a product data sheet calls for CSP 5, it's pointing back to ICRI's scale. It's the common language because the coatings you're prepping for are spec'd in it.

## SILICA DUST

Scarifying concrete releases *respirable crystalline silica*, and because the cut is deeper, it sheds more than a grinder. Irish law caps exposure at 0.1 mg/m<sup>3</sup> over an 8-hour day (S.I. 122 OF 2024), and a dry machine without an M-class extractor breaches it. H-class if the floor has old, possibly asbestos-bearing coatings. The vac goes on the hire order, every time.

## VIBRATION

Scarifiers vibrate hard, and that limits hours, not comfort. Under Directive 2002/44/EC the daily hand-arm exposure limit is 5.0 m/s<sup>2</sup>, with protective measures triggered at 2.5. A low-vibration machine (the Von Arx FR 200 Genus runs under 3.6 m/s<sup>2</sup>) buys more trigger time per shift before you have to stop.

❶ **TCT Flail:** Carbide-tipped steel cutter. General-purpose, clean cut

❷ **Star cutter:** Solid hardened steel. Coarser, tougher, for hard concrete.

❸ **CSP:** Concrete surface profile.

❹ **Lippage:** a height step at a joint.



330 × 360 × 1320 mm



VON ARX  
VA 10 L

Designed for rough-  
ening small areas and  
tight corners. Equipped  
with a swivel handgrip.  
Various cutters can be  
fitted to suit different  
applications.

|        |      |
|--------|------|
| DAY 1  | €80  |
| +1 DAY | €40  |
| WEEK   | €160 |

|                     |                                                                                     |
|---------------------|-------------------------------------------------------------------------------------|
| WORKING<br>WIDTH    | 100 mm                                                                              |
| DEPTH<br>(HARD)     | 1 mm                                                                                |
| DEPTH<br>(SOFT)     | 3 mm                                                                                |
| DISTANCE TO<br>WALL | 20 mm                                                                               |
| CUTTERS             | Pentagonal                                                                          |
| PRODUCTION          | 20–25 m <sup>2</sup> /h                                                             |
| MOTOR               | 2.2 kW                                                                              |
| VOLTAGE             | <ul style="list-style-type: none"><li>• 110 V</li><li>• 230 V</li></ul>             |
| PLUG SIZE           | <ul style="list-style-type: none"><li>• 32 A, 3 pin</li><li>• 13 A, 3 pin</li></ul> |
| WEIGHT              | 24.0 kg                                                                             |
| NOISE LEVEL         | 79.3 dB(A)                                                                          |
| VIBRATION           | < 3.6 m/s <sup>2</sup>                                                              |



VACUUM PAIRING

|           |                        |
|-----------|------------------------|
| BUDGET    | METABO ASR<br>35 M ACP |
| BEST PAIR | MTL 301                |



1100 × 380 × 970 mm



## VON ARX FR 200 GENUS

Handles everything from cleaning to the tricky removal of pavement markings. Ideal for carrying out precise work on small and medium surfaces, both indoors and outdoors.

**DAY 1** €80

**+1 DAY** €40

**WEEK** €160



|                         |                                                                                            |
|-------------------------|--------------------------------------------------------------------------------------------|
| <b>WORKING WIDTH</b>    | 200 mm                                                                                     |
| <b>DEPTH (HARD)</b>     | Surface                                                                                    |
| <b>DEPTH (SOFT)</b>     | 3 mm                                                                                       |
| <b>DISTANCE TO WALL</b> | 67 mm                                                                                      |
| <b>CUTTERS</b>          | Pentagonal carbide                                                                         |
| <b>PRODUCTION</b>       | 35–40 m <sup>2</sup> /h                                                                    |
| <b>MOTOR</b>            | <ul style="list-style-type: none"> <li>• 1.5 kW</li> <li>• 2.2 kW</li> </ul>               |
| <b>VOLTAGE</b>          | <ul style="list-style-type: none"> <li>• 110 V / 50 Hz</li> <li>• 230 V / 50 Hz</li> </ul> |
| <b>PLUG SIZE</b>        | <ul style="list-style-type: none"> <li>• 32 A, 3 pin</li> <li>• 16 A, 3 pin</li> </ul>     |
| <b>WEIGHT</b>           | <ul style="list-style-type: none"> <li>• 63.0 kg</li> <li>• 59.7 kg</li> </ul>             |
| <b>NOISE LEVEL</b>      | 79.3 dB(A)                                                                                 |
| <b>VIBRATION</b>        | < 3.6 m/s <sup>2</sup>                                                                     |



## VACUUM PAIRING

|                  |            |
|------------------|------------|
| <b>BEST PAIR</b> | MTL 452 DS |
| <b>H-CLASS</b>   | S2         |



VON ARX  
FR 200 GENUS

Petrol variant. Handles everything from cleaning to the tricky removal of pavement markings. Ideal for carrying out precise work on small and medium surfaces.

|        |      |
|--------|------|
| DAY 1  | €80  |
| +1 DAY | €40  |
| WEEK   | €160 |

|                  |                    |
|------------------|--------------------|
| WORKING WIDTH    | 200 mm             |
| DEPTH (HARD)     | Surface            |
| DEPTH (SOFT)     | 3 mm               |
| DISTANCE TO WALL | 54 mm              |
| CUTTERS          | Pentagonal carbide |
| PRODUCTION       | 35–40 m²/h         |
| ENGINE           | 4 kW               |
| FUEL TYPE        | Petrol             |
| WEIGHT           | 56.0 kg            |
| NOISE LEVEL      | 90.8 dB(A)         |
| VIBRATION        | < 10.3 m/s²        |



VACUUM PAIRING

|           |            |
|-----------|------------|
| BEST PAIR | MTL 452 DS |
| H-CLASS   | S2         |



950 × 460 × 1170 mm



## VON ARX VA 25 S

For small to medium surfaces. Equipped with a vibration absorber and an infinite variable depth adjuster. Various cutters can be fitted.

DAY 1 **€140**

+1 DAY **€70**

WEEK **€280**



|                  |                         |
|------------------|-------------------------|
| WORKING WIDTH    | 250 mm                  |
| DEPTH (HARD)     | 3 mm                    |
| DEPTH (SOFT)     | 6 mm                    |
| DISTANCE TO WALL | 67 mm                   |
| CUTTERS          | Hexagonal carbide       |
| PRODUCTION       | 40–45 m <sup>2</sup> /h |
| VOLTAGE          | 400 V                   |
| MOTOR            | 4.0 kW                  |
| PLUG SIZE        | 32 A, 5 pin             |
| WEIGHT           | 111 kg                  |
| NOISE LEVEL      | 79.3 dB(A)              |
| VIBRATION        | < 4.4 m/s <sup>2</sup>  |



## VACUUM PAIRING

|           |           |
|-----------|-----------|
| BUDGET    | DM3 EL    |
| BEST PAIR | DG 50 EXP |
| H-CLASS   | S3        |



VON ARX  
VA 25 S

Petrol. For small to medium surfaces. Equipped with a vibration absorber and an infinite variable depth adjuster. Various cutters can be fitted.

|        |      |
|--------|------|
| DAY 1  | €140 |
| +1 DAY | €70  |
| WEEK   | €280 |

|                  |                         |
|------------------|-------------------------|
| WORKING WIDTH    | 250 mm                  |
| DEPTH (HARD)     | 3 mm                    |
| DEPTH (SOFT)     | 6 mm                    |
| DISTANCE TO WALL | 67 mm                   |
| CUTTERS          | Hexagonal carbide       |
| PRODUCTION       | 40–45 m <sup>2</sup> /h |
| ENGINE           | 5.3 kW                  |
| FUEL TYPE        | Petrol                  |
| WEIGHT           | 108.4 kg                |
| NOISE LEVEL      | 90.8 dB(A)              |
| VIBRATION        | < 10.4 m/s <sup>2</sup> |



VACUUM PAIRING

|           |           |
|-----------|-----------|
| BUDGET    | DM3 EL    |
| BEST PAIR | DG 50 EXP |
| H-CLASS   | S3        |



1350 × 560 × 1090 mm



## VON ARX VA 30 S

Heavy duty petrol scarifier for large surface areas. Infinite variable depth adjuster adapts perfectly to every surface.

**DAY 1** €280

**+1 DAY** €140

**WEEK** €560



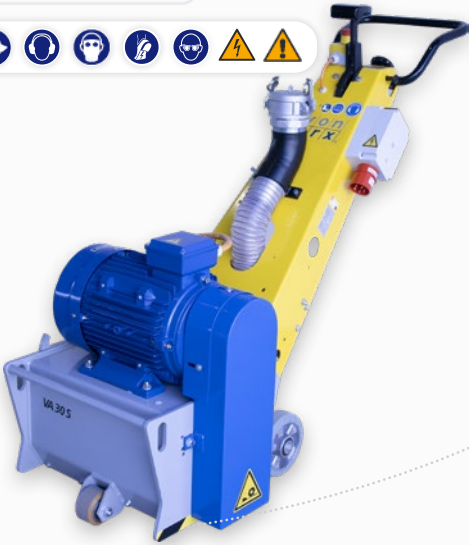
|                  |                         |
|------------------|-------------------------|
| WORKING WIDTH    | 300 mm                  |
| DEPTH (HARD)     | 6 mm                    |
| DEPTH (SOFT)     | 9 mm                    |
| DISTANCE TO WALL | 90 mm                   |
| CUTTERS          | Octagonal carbide       |
| PRODUCTION       | 50–55 m <sup>2</sup> /h |
| ENGINE           | 6.0 kW                  |
| FUEL TYPE        | Petrol                  |
| WEIGHT           | 173.0 kg                |
| NOISE LEVEL      | 90.8 dB(A)              |
| VIBRATION        | < 6.9 m/s <sup>2</sup>  |



## VACUUM PAIRING

|           |           |
|-----------|-----------|
| BUDGET    | DM3 EL    |
| BEST PAIR | DG 50 EXP |
| H-CLASS   | T6        |

1350 × 560 × 1090 mm



VON ARX  
VA 30 S

Big mains-powered scarifier for large floors. Infinite variable depth adjuster allows to adapt perfectly to every surface.

|        |      |
|--------|------|
| DAY 1  | €280 |
| +1 DAY | €140 |
| WEEK   | €560 |

|                  |                   |
|------------------|-------------------|
| WORKING WIDTH    | 300 mm            |
| DEPTH (HARD)     | 6 mm              |
| DEPTH (SOFT)     | 9 mm              |
| DISTANCE TO WALL | 90 mm             |
| CUTTERS          | Octagonal carbide |
| PRODUCTION       | 50–55 m²/h        |
| MOTOR            | 7.5 kW            |
| VOLTAGE          | 400 V, 50 Hz      |
| PLUG SIZE        | 32 A, 5 pin       |
| WEIGHT           | 222.8 kg          |
| NOISE LEVEL      | 79.3 dB(A)        |
| VIBRATION        | < 6.2 m/s²        |



VACUUM PAIRING

|           |           |
|-----------|-----------|
| BUDGET    | DM3 EL    |
| BEST PAIR | DG 50 EXP |
| H-CLASS   | T6        |



1350 × 560 × 1090 mm



## VON ARX VA 30 SH

For heavy duty cleaning and roughening work. Ideal for cleaning large areas of concrete, removing concrete slurry, dirt, plastic, etc.

**DAY 1** €440

**+1 DAY** €220

**WEEK** €880

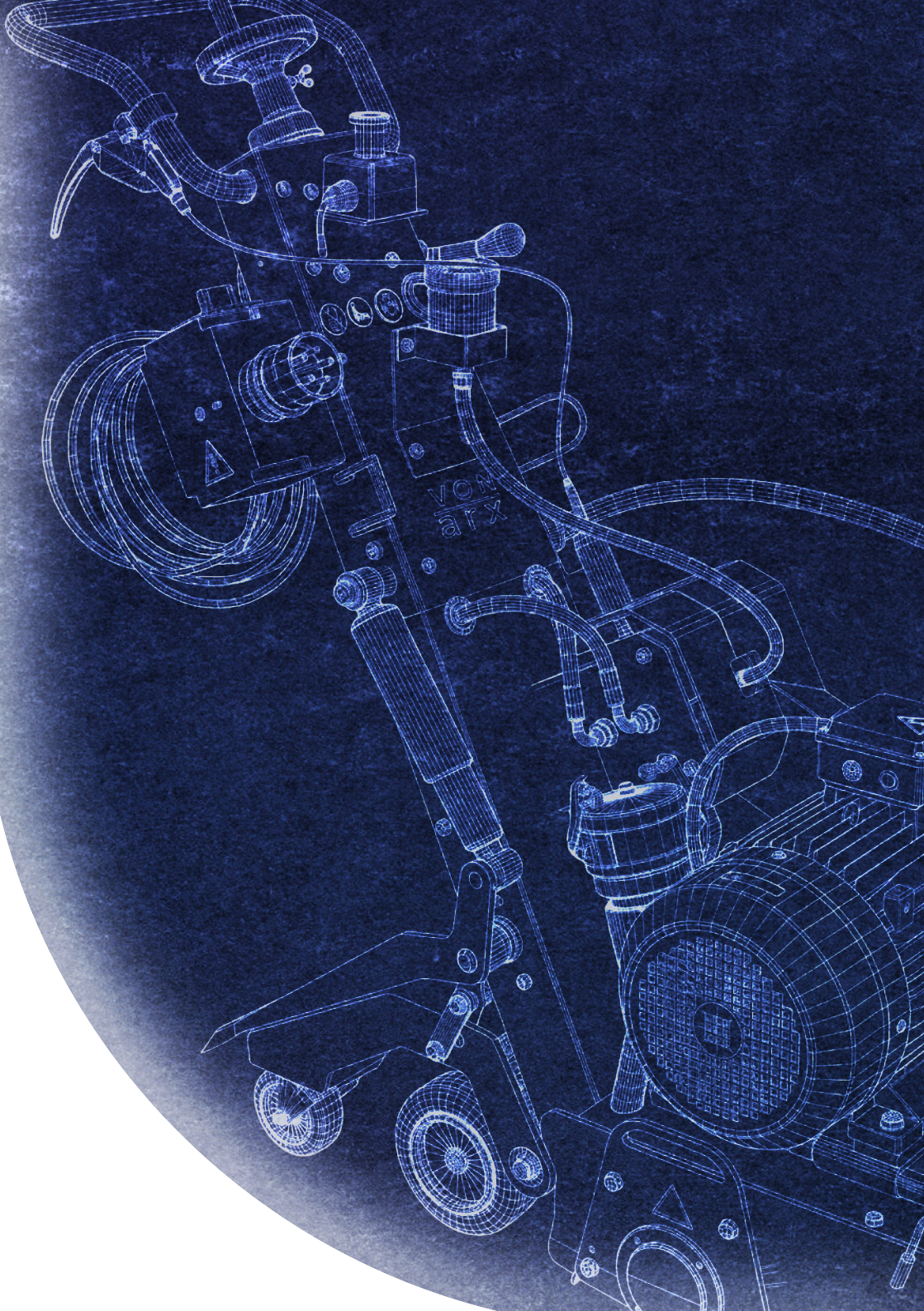


|                  |                         |
|------------------|-------------------------|
| WORKING WIDTH    | 300 mm                  |
| DEPTH (HARD)     | 7 mm                    |
| DEPTH (SOFT)     | 10 mm                   |
| DISTANCE TO WALL | 90 mm                   |
| CUTTERS          | Octagonal carbide       |
| PRODUCTION       | 50–55 m <sup>2</sup> /h |
| ENGINE           | 7.5 kW                  |
| FUEL TYPE        | Diesel                  |
| WEIGHT           | 305.4 kg                |
| NOISE LEVEL      | 95.1 dB(A)              |
| VIBRATION        | < 14.1 m/s <sup>2</sup> |

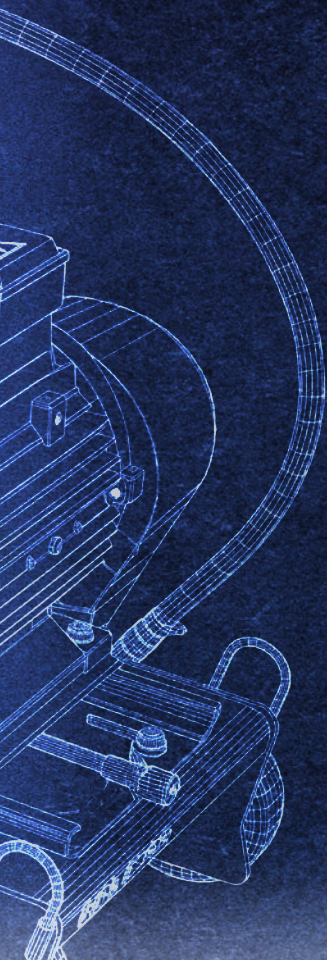


## VACUUM PAIRING

|           |           |
|-----------|-----------|
| BUDGET    | DM3 EL    |
| BEST PAIR | DG 50 EXP |
| H-CLASS   | T6        |



the  
**SHAVER**



A shaver cuts the slab rather than hammering it. A self-propelled drum of stacked diamond blades shears off a thin, even layer in a continuous cut, where a scarifier's flails chip lumps out. It works from a skim to several millimetres, and packed or spaced, the same drum also cuts antislip grooves.

**WHAT IT DOES**

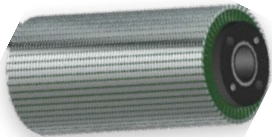
Grinds coatings, thermoplastic lines and thin layers off concrete and asphalt with diamond blades, leaving a flat ground finish and little dust. Achieves antislip grooves when blades are spaced out. Blade tip: soft or hard concrete sets, packed flat or spaced for grooves.

**WHY IT'S USED**

Lifting coatings for re-coat where the finish must stay flat: food, pharma, warehouse floors. Stripping thermoplastic road lines. Levelling lippage and high spots on the runs the self-propelled drive holds. Cutting antislip grooves in ramps, wash bays and cattle alleys.

**WHAT DRUM?**

Pack the diamond blades tight for a shallow, precise cut and a flat finish; space them with wider washers to cut and groove.



**TIGHT = SMOOTH FINISH**

Cuts coatings, thermoplastic lines and thin layers off concrete, asphalt, screed, and stone with diamond blades, leaving a flat ground finish and little dust.

**SPACED = GROOVES**

Achieves antislip grooves when blades are spaced out.



## SILICA DUST

The shaver is the low-dust option: a continuous diamond cut, run wet and caught at the drum, puts far less in the air than a scarifier. It releases respirable crystalline silica, and the  $0.1 \text{ mg/m}^3$  8-hour limit applies (S.I. 122 of 2024): M-class vac minimum, H-class for ASBESTOS coatings. Wet means slurry to clear, and lower dust is not no dust; the vac still goes on the order.

## SHAVER OR SCARIFIER?

Same job, opposite method. A scarifier hammers free cutters into the slab for a coarse CSP 4 to 7 texture; a shaver grinds a diamond drum across it for a flat finish, or spaces the blades to groove. Reach for the scarifier on thick coatings and bulk removal, the shaver when the finish must stay flat and the dust low.

① **Diamond drum:** Stacked diamond blades that cut, not flails.

① **Spacers:** Washers set between blades; wide gaps cut grooves.

① **CSP:** Concrete surface profile.

① **Substrate:** the slab itself.

① **Screed:** A thin sand-and-cement topping, no gravel.



VON ARX  
DTF 25 SH

Self-propelled shaver for taking thermoplastic road lines, coatings and thin layers off concrete and asphalt. Smooth, low-dust finish on big jobs. Achieves a grooved finish when cutters are fitted with a gap for anti-slip flooring.



|                  |                            |
|------------------|----------------------------|
| WORKING WIDTH    | 250 mm                     |
| DEPTH (HARD)     | 10 mm                      |
| DEPTH (SOFT)     | 12 mm                      |
| DISTANCE TO WALL | 100 mm                     |
| BLADES           | 72 × Diamond blades 125 mm |
| PRODUCTION       | 45–50 m²/h                 |
| MOTOR            | 11.0 kW                    |
| VOLTAGE          | 400 V, 50 Hz               |
| PLUG SIZE        | 32 A, 5 pin                |
| WEIGHT           | 225.0 kg                   |

|        |      |
|--------|------|
| DAY 1  | €440 |
| +1 DAY | €220 |
| WEEK   | €880 |

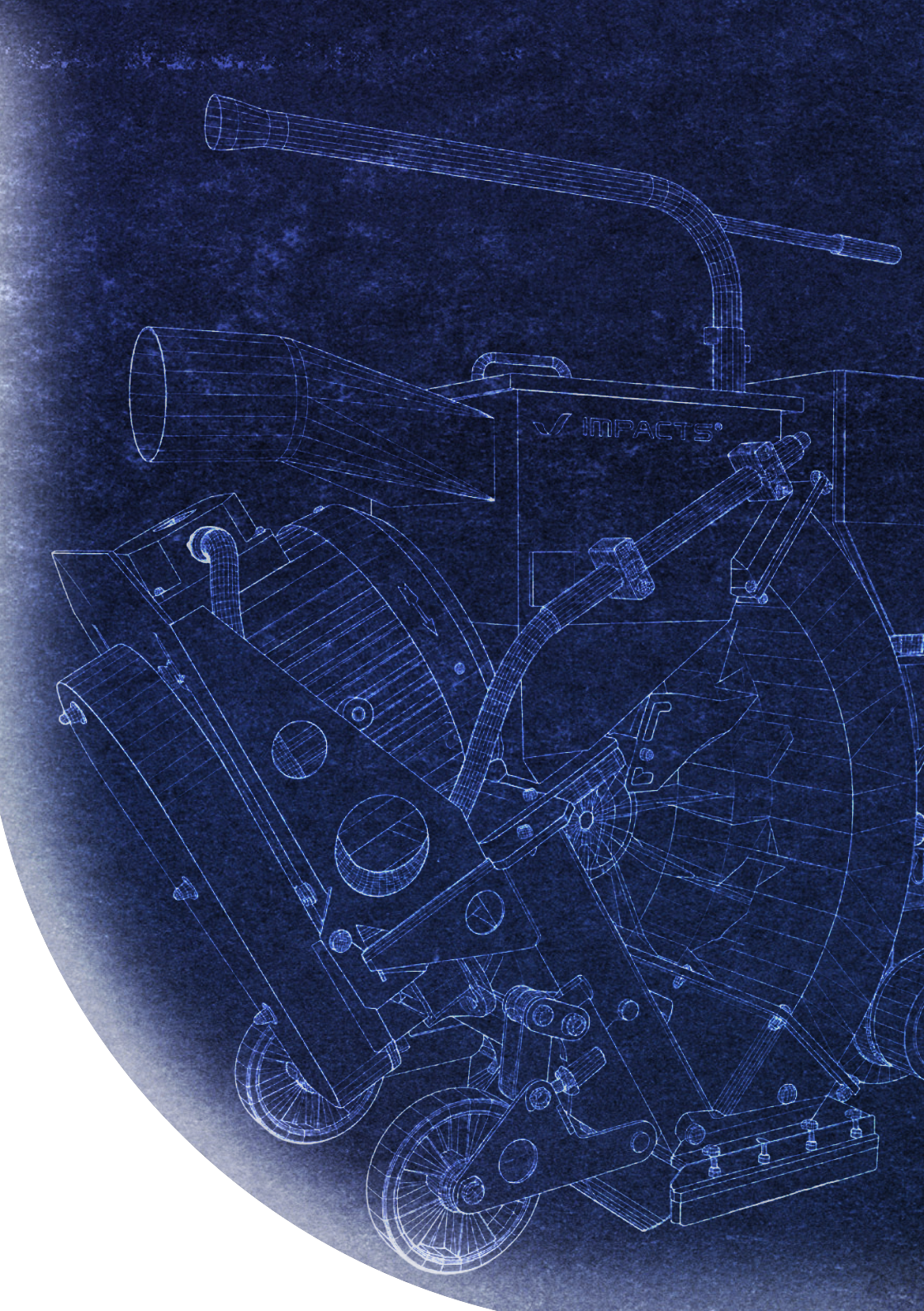
Replacement  
Drums

Swap-in drums let you set the shaver up for regular or hard concrete and for fine or coarse cuts without rebuilding the blade stack by hand.

|                |                                                           |
|----------------|-----------------------------------------------------------|
| WIDTH          | 250 mm                                                    |
| BLADES         | 66 × Diamond blades<br>Turbo TKS10<br>(68 × 2 mm spacers) |
| PER MILLIMETRE | €120                                                      |

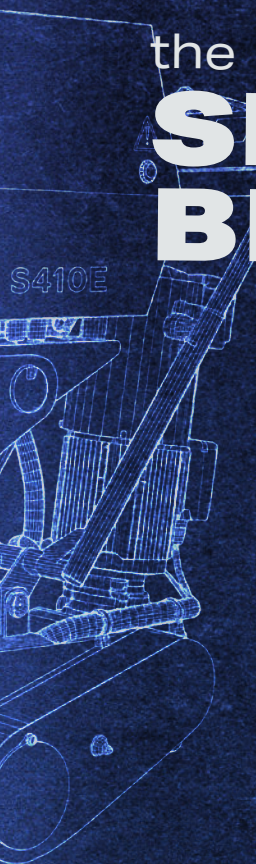
1150 × 480 × 1150 mm





the

# SHOT BLASTERS



# WHAT BLASTER?

Three questions: the area, the surface and the power on site.  
Every machine here needs three phase, so start there.

## HOW MUCH FLOOR?

### ➔ Small: corridors, garages, landings

The 210 mm S210E40R, up to 80 m<sup>2</sup>/h

**S210E40R 70**

### ➔ Medium floors, plus edging

The 270 mm S270E75R, up to 140 m<sup>2</sup>/h

**S270E75R 71**

### ➔ Large floors

The 320 mm S320E110R set, up to 180 m<sup>2</sup>/h.

**S320E110R 72**

### ➔ Very large: warehouses, car parks

The 405 mm S410E set, up to 260 m<sup>2</sup>/h.

**S410E 73**

## WHAT'S THE JOB?

### ➔ Stripping laitance and curing compounds

Any machine in your size class; the blaster collects the waste as it works.

### ➔ Edges and perimeter strips

The S270E75R doubles as an edging machine and takes the perimeter itself.

**S270E75R 71**

### ➔ Steel decks and de-rusting

The S410

**S410 73**

The S320

**S320 72**

## WHAT'S ON SITE?

### ➔ Three Phase, 32 A

S210E40R Three phase

**S210E40R 70**

S270E75R Three phase

**S270E75R 71**

### ➔ Three Phase, 32 A / 63 A

S320E110R

**S320E110R 72**

S410E sets

**S410E 73**

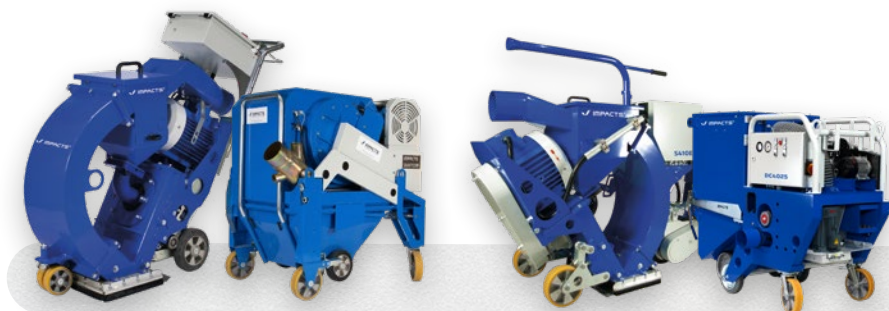
The set's collector takes its own 16 A outlet.

### ➔ No Supply?

There is no petrol or single phase blaster.

For a similar profile on engine power, scarify.

**SCARIFIERS 45**



### The Collector

A blaster handles shot; its collector handles dust, sized as a pair. The big sets ship with a matched Dustcom; the smaller two take a vacuum from the dust extraction section, named on each page. Undersize it and dust escapes. It goes on the hire order, every time.

A shot blaster fires hardened steel shot at the slab from a spinning wheel, fracturing the surface and bouncing the shot straight back into the machine. A separator inside splits reusable shot from spent dust, so a properly set rig works almost dust-free. On an open floor it covers ground faster than a grinder or scarifier ever will.



**WHAT IT DOES**

Strips laitance, curing compounds and contamination off bare concrete and cuts an even profile for resin and overlay coatings to key into. The standard result is csp 5. Slower travel or a second pass deepens it to 7; faster travel lightens it to 4. The shot circulates inside the machine, so the work stays close to dust-free.

**WHY IT'S USED**

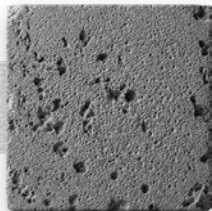
Profiling open floors before coating, from a single garage up to a warehouse: the range spans 210 to 410 mm wide to match the area. Stripping for resin or polyurethane where a grinder would burn diamonds and days. Steel decks and de-rusting too, with the same shot.

**WHAT COLLECTOR?**

The blaster handles shot; a matched collector handles dust, sized as a pair. The s320 and s410 come as sets with a Dustcom collector; the smaller two take a vacuum from the dust extraction section. M-class minimum for concrete, H-class for asbestos-suspect coatings.

**CSP 4**

Fast single pass. The lightest this coarse shot reaches. Lighter csp required? Grind instead.



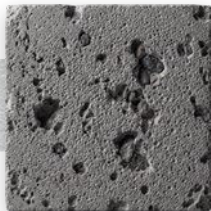
**CSP 5**

The standard result. Steady pass, full overlap: the everyday key for resin and overlays.



**CSP 6**

Slow the travel or add a second pass. A deeper key for thick, high-build coatings.



**CSP 7**

Slowest travel, repeat passes. About as deep as it blasts.



## WHAT IS ICRI?

ICRI, the *International Concrete Repair Institute*, is the American body that came up with the CSP scale everyone uses to describe how rough a prepped surface is. They set the standard and publish the reference samples, and the whole trade, coating manufacturers included, works off it. So when a product data sheet calls for CSP 5, it's pointing back to ICRI's scale. It's the common language because the coatings you're prepping for are spec'd in it.

## SILICA DUST

Shot blasting releases respirable crystalline silica, but the closed loop contains most of it: the separator pulls dust into the collector, not into the air. That holds only if the collector matches the blaster. Irish law caps exposure at  $0.1 \text{ mg/m}^3$  over 8 hours (S.I. 122 OF 2024); undersize it and you breach the limit. M-class minimum, H-class for old asbestos-bearing coatings.

## EDGES

The head is enclosed, so a blaster stops about 25 mm short of the wall and leaves a strip. Follow with an edge grinder, or pick the s270e75r: it doubles as the edger and takes its own perimeter. In a tight or cluttered room no blaster is the right call. Grind instead, p.19.

① **STEEL SHOT:** Mixed grade S460, 1.2–1.7 mm. Sold separately.

① **Separator:** Splits reusable shot from spent dust inside the machine.

① **Keying:** roughening so the coating grips.

① **Laitance:** weak dusty layer on a fresh slab.

① **Screed:** A smooth, thin cement-and-sand top layer, *no coarse stone in the mix.*



1100 × 300 × 1000 mm



MAGNETIC  
BROOM  
INCLUDED



IMPACTS  
S210E40R

Shot-blast profil-  
ing on small floors  
before coating: corri-  
dors, garages, landings,  
ramps.

|        |      |
|--------|------|
| DAY 1  | €200 |
| +1 DAY | €100 |
| WEEK   | €400 |

|                      |                       |
|----------------------|-----------------------|
| WORKING<br>WIDTH     | 210 mm                |
| BLASTING<br>CAPACITY | 80 m²/h               |
| BLASTING<br>POWER    | 4 kW                  |
| TRAVEL<br>SPEED      | 0–25.0 m/min          |
| VOLTAGE              | 400 V                 |
| POWER<br>CONNECTOR   | 400 V, 50 Hz,<br>32 A |
| PLUG SIZE            | 32 A, 5 pin           |
| WEIGHT               | 125.0 kg              |



VACUUM PAIRING

|           |           |
|-----------|-----------|
| BUDGET    | DM3 EL    |
| BEST PAIR | DG 50 EXP |
| H-CLASS   | T6        |



1250 × 390 × 1050 mm



MAGNETIC  
BROOM  
INCLUDED



## IMPACTS S270E75R

Shot-blast profiling on mid-size floors before coating. Also runs as an edging machine.

DAY 1 **€300**

+1 DAY **€150**

WEEK **€600**



|                   |                          |
|-------------------|--------------------------|
| WORKING WIDTH     | 270 mm                   |
| BLASTING CAPACITY | 140 m <sup>2</sup> /h    |
| BLASTING POWER    | 7.5 kW                   |
| TRAVEL SPEED      | 0–24.0 m/min             |
| VOLTAGE           | 400 V                    |
| POWER CONNECTOR   | 400 V / 50 Hz, 32 A, CEE |
| PLUG SIZE         | 32 A, 5 pin              |
| WEIGHT            | 170.0 kg                 |



## VACUUM PAIRING

|           |           |
|-----------|-----------|
| BUDGET    | DM3 EL    |
| BEST PAIR | DG 50 EXP |
| H-CLASS   | T6        |

1407 × 488 × 1125 mm



# IMPACTS S320E110R SET

Shot-blast profiling on large floors before coating, with a wear-resistant blast-chamber lining. Ships as a set with its matched DUSTCOM DC2725.

|        |       |
|--------|-------|
| DAY 1  | €620  |
| +1 DAY | €310  |
| WEEK   | €1240 |



MAGNETIC  
BROOM  
INCLUDED



|                   |                  |
|-------------------|------------------|
| WORKING WIDTH     | 320 mm           |
| BLASTING CAPACITY | 180 m²/h         |
| BLASTING POWER    | 11 kW            |
| TRAVEL SPEED      | 0–26.0 m/min     |
| VOLTAGE           | 400 V            |
| POWER CONNECTOR   | 50 Hz, 32 A, CEE |
| WEIGHT            | 270.0 kg         |
| PLUG SIZE         | 32 A, 5 pin      |

# DC2725

The s320's matched M-class collector: 1000 m³/h through a 105 L bin. Sized so the shot circuit stays sealed.

|                 |                             |
|-----------------|-----------------------------|
| FILTER CLASS    | M                           |
| AIRFLOW         | 1000 m³/h                   |
| CLEANING        | Continuously, Pneumatically |
| CAPACITY        | 105 L                       |
| HOSE CONNECTION | Ø 130 mm                    |
| POWER           | 4 kW                        |
| POWER SUPPLY    | 400 V/50 Hz, 32 A           |

1850 × 540 × 1050 mm



## IMPACTS S410E SET

Shot-blast profiling on very large floors before coating. Integrated brake; ships as a set with its matched Dustcom dc4025.

**DAY 1** €750

**+1 DAY** €375

**WEEK** €1500



**MAGNETIC  
BROOM  
INCLUDED**

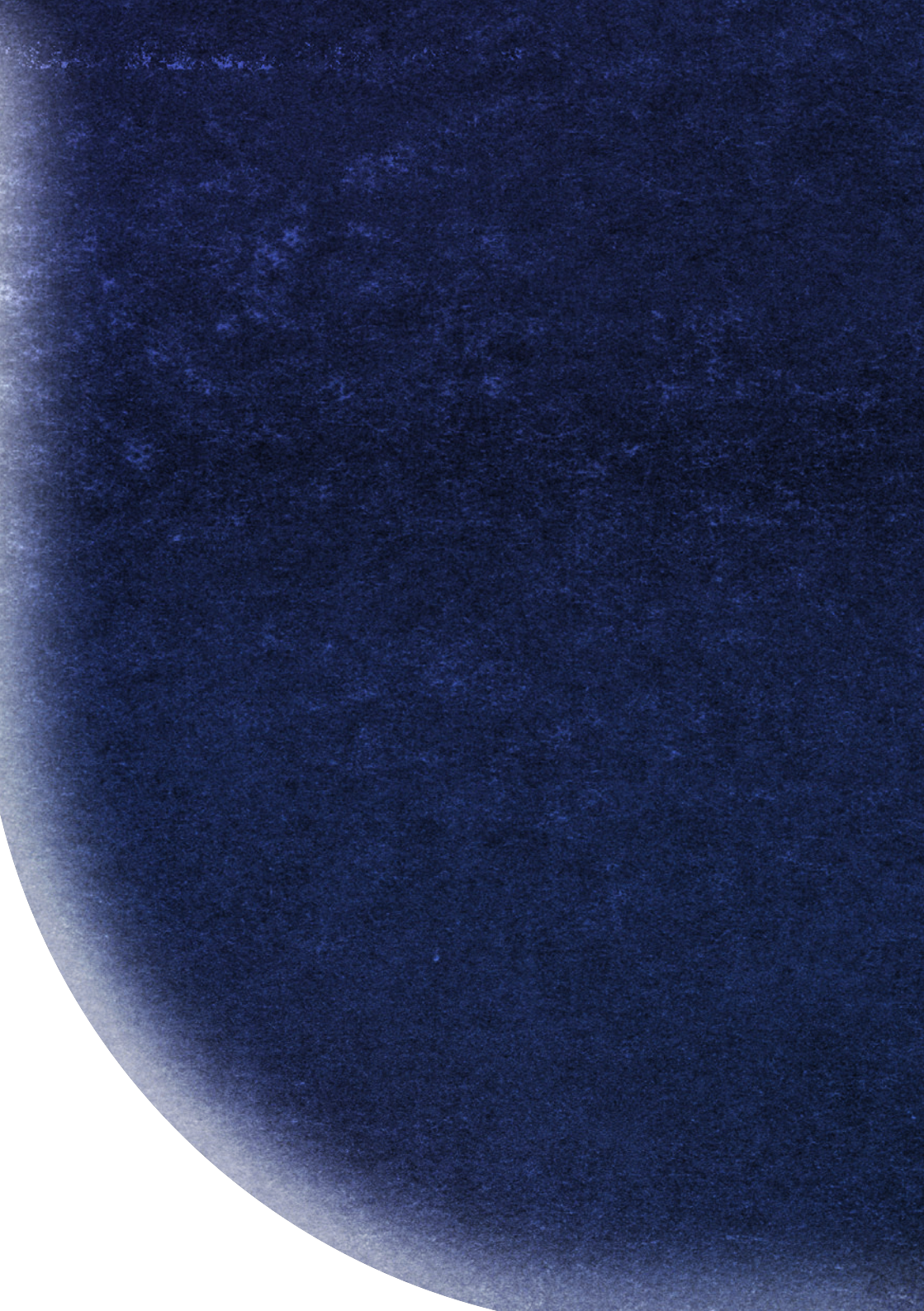


|                          |                       |
|--------------------------|-----------------------|
| <b>WORKING WIDTH</b>     | 405 mm                |
| <b>BLASTING CAPACITY</b> | 260 m <sup>2</sup> /h |
| <b>BLASTING POWER</b>    | 15 kW                 |
| <b>TRAVEL SPEED</b>      | 0–38.0 m/min          |
| <b>VOLTAGE</b>           | 400 V                 |
| <b>POWER CONNECTOR</b>   | 50 Hz, 63 A           |
| <b>WEIGHT</b>            | 485.0 kg              |
| <b>PLUG SIZE</b>         | 63 A, 5 pin           |

## DC4025

The s410's matched M-class collector: 1300 m<sup>3</sup>/h through a 200 L lift-out bin.

|                        |                             |
|------------------------|-----------------------------|
| <b>FILTER CLASS</b>    | M                           |
| <b>AIRFLOW</b>         | 1300 m <sup>3</sup> /h      |
| <b>CLEANING</b>        | Continuously, Pneumatically |
| <b>CAPACITY</b>        | 200 L                       |
| <b>HOSE CONNECTION</b> | Ø 150 mm                    |
| <b>POWER</b>           | 5.5 kW                      |
| <b>POWER SUPPLY</b>    | 400 V/50 Hz, 32 A           |



the  
**FLOOR  
SCRAPERS**



# WHAT SCRAPER?

Three questions: what is on the floor, how much of it, and what the slab is made of.  
The covering picks the machine; the blade does the work.

## WHAT'S ON THE FLOOR?

- ➔ **Carpet, vinyl, lino, cork, felt**  
The sc 20 p.80 for small rooms. sc 25 p.81 for larger ones. **SC 20 P. 80**
- ➔ **Stuck-down sheet and soft goods**  
For tight rooms and doorways **SC 25 P.81, 5280 P.84**
- ➔ **Ceramic tile, adhesive, wood**  
The 6280HD Gladiator strips hard and soft alike. **6280HD GLADIATOR P.85**  
The wide sc 35 clears tile fast on big floors. **SC 35 P.82**
- ➔ **Any glued-down covering**  
The self-propelled Wolff Turbo **WOLFF TURBO P.83**

## HOW MUCH FLOOR?

- ➔ **Small rooms, doorways, tight spots**  
**SC 20 P.80**  
**5280 P.84**
- ➔ **Medium rooms**  
**SC 25 81**
- ➔ **Large floors**  
**SC 35 P.82 6280HD P.85**
- ➔ **Huge floors**  
**NFE 7700 RIDE-ON P.86**

## WHAT'S ON SITE?

### ➔ Household 230 V

SC 20–35 **80**

### ➔ 110 V via Site Transformer

Entire SC range runs 110 V, every NFE walk-behind too. The Wolff is rated 115 V.

### ➔ No Supply?

The NFE 7700 runs on battery



## ASBESTOS

Read this one.

Old floors hide asbestos. Pre-2000 vinyl tiles and the black bitumen glue under them are common carriers, and a scraper drives that straight into the air. Suspect floor: survey first, licensed removal if positive.

Not the whole job

A scraper takes the covering off and leaves a skim of old glue behind. If the floor is being sealed, resined or polished, it still needs a grinder, p.19, or a shot blaster, p.65, to strip the residue and cut a profile.

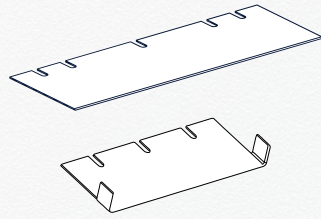
## 8–10 M/S<sup>2</sup>

Vibration

The walk-behind scrapers run 8 to 10 m/s<sup>2</sup>. That is roughly two to three hours of trigger time inside the daily limit, not a full shift on one set of hands. Plan the rotation before the day, not during it.



A floor scraper drives a flat blade under the covering and removes its bond to the slab, peeling carpet, vinyl or tile up in strips. Weight behind the blade and the blade itself do the work: the heavier the machine and the sharper the edge, the more covering it lifts. The range runs from a 36 kg walk-behind to a 1.2 T ride-on.



## WHAT IT DOES

Strips carpet, vinyl, lino, cork, felt, tile, any stuck-down covering, including glue residue and failed coatings. Light walk-behinds do small areas; the ride-on clears huge areas. Blade tip: the right blade for the covering beats brute force, and a blunt one just rides over the glue.

## WHY IT'S USED

Strip-outs and refurb: clearing the old floor before the new one goes down. Pulling failed or dated carpet, vinyl and tile in retail and office fit-outs. Lifting stuck-down sheet and glue before a slab is ground and re-coated.

## WHAT BLADE?

The blade is the tool. A flat blade lifts soft coverings; long blades reach under sheet vinyl and lino; u-profile blades bite into tile; a debris blade clears the spoil. Match it to the covering and keep it sharp; a blunt blade skids over the bond.

## LIGHT

Small rooms and tight spots. Lifts carpet, vinyl, lino, cork and felt. The Von Arx SC 20.

## MID

Bigger rooms, stuck-down vinyl and lino. More weight behind the blade. The SC 25.

## HEAVY DUTY

Large floors fast: tile, sheet, felt. The SC 35 and the heavy NFE walk-behinds.

## RIDE-ON

Huge floors of glue, tile and coatings. Battery powered, you ride it. The NFE 7700.



## IT STRIPS, NOT PROFILES

A scraper takes the covering off; it does not prepare the concrete. Run it and you are left with a bare slab still carrying a skim of old adhesive or a ghost of the last coating, which a blade cannot lift cleanly. If the floor is going to be sealed, resined or polished, the slab still needs a grinder or shot blaster afterwards to strip the residue and cut a profile for the new system to grip. The scraper is the first machine in a re-floor, not the whole job.

## ASBESTOS

Old floors hide asbestos. Pre-2000 vinyl tiles and the black bitumen glue under them are common asbestos-containing materials, and a scraper drives that straight into the air. Under the Exposure to Asbestos Regulations 2006-2025 (S.I. 386/2006, 589/2010, 632/2025) the floor must be surveyed before it is disturbed, and since end-2025 a permit is needed for work that could release the dust. Suspect floor: survey first, licensed removal if positive.

## THE SUBSTRATE

The blade can wreck the slab as much as clear it. On hard concrete, weight and a steeper angle get under stubborn glue; on soft screed or anhydrite, reduce the angle, or the same bite gouges the surface into a levelling job. Set the angle and weights to shear the bond, not dig in.

① **Scraper blade:** Flat, long, wide, u-profile or debris, by covering.

① **Self-propelled:** The drive wheels pull the machine; you steer, not shove.

① **Mastic:** Stuck-down adhesive under old coverings; pre-2000, suspect asbestos.

① **Spoil:** waste/dug-out material

① **Anhydrite:** A screed type.



372 × 1008 × 885 mm

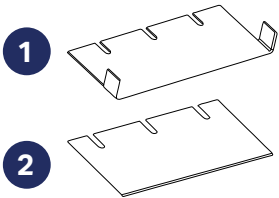


## VON ARX SC 20

Light electric scraper for lifting carpet, vinyl, lino, cork and felt off concrete, screed or wood. For smaller rooms and tight spots.

|        |      |
|--------|------|
| DAY 1  | €56  |
| +1 DAY | €28  |
| WEEK   | €112 |

|                         |                                                                                     |
|-------------------------|-------------------------------------------------------------------------------------|
| OPERATION               | Walk-behind                                                                         |
| WORKING WIDTH           | 200–230 mm                                                                          |
| DISTANCE TO WALL        | 88 mm                                                                               |
| MOTOR SPEED             | 2800 rpm                                                                            |
| MOTOR                   | 1.5 kW                                                                              |
| VOLTAGE                 | <ul style="list-style-type: none"><li>• 110 V</li><li>• 230 V</li></ul>             |
| PLUG SIZE               | <ul style="list-style-type: none"><li>• 16 A, 3 pin</li><li>• 13 A, 3 pin</li></ul> |
| MOTOR PROTECTION SWITCH | <ul style="list-style-type: none"><li>• 25 A</li><li>• 13.5 A</li></ul>             |
| WEIGHT                  | 35.9 kg                                                                             |
| NOISE LEVEL             | 90.5 dB(A)                                                                          |
| VIBRATION               | 9.76 m/s <sup>2</sup>                                                               |



## Blades

The basic blade strips floor coverings, lifts carpet tiles and foam backed carpets, cork tiles and matting. We also stock an optional U-blade for removing felt, underlay, linoleum, vinyl, and matting.

|                |                    |
|----------------|--------------------|
| 1. U BLADE:    | 230 × 100 × 2 mm   |
| 2. BASIC BLADE | 200 × 100 × 1.5 mm |





## VON ARX SC 25

Mid-size electric scraper for stripping carpet, vinyl, lino, cork and stuck-down tiles.

**DAY 1** €100

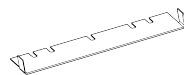
**+1 DAY** €50

**WEEK** €200

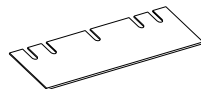


|                                |                                                                                        |
|--------------------------------|----------------------------------------------------------------------------------------|
| <b>OPERATION</b>               | Self-propelled                                                                         |
| <b>WORKING WIDTH</b>           | 200–270 mm                                                                             |
| <b>DISTANCE TO WALL</b>        | 110 mm                                                                                 |
| <b>MACHINE SPEED</b>           | 10.6 m/min                                                                             |
| <b>MOTOR SPEED</b>             | 2800 rpm                                                                               |
| <b>MOTOR</b>                   | 1.5 kW                                                                                 |
| <b>VOLTAGE</b>                 | <ul style="list-style-type: none"> <li>• 110 V</li> <li>• 230 V</li> </ul>             |
| <b>PLUG SIZE</b>               | <ul style="list-style-type: none"> <li>• 32 A, 3 pin</li> <li>• 13 A, 3 pin</li> </ul> |
| <b>MOTOR PROTECTION SWITCH</b> | <ul style="list-style-type: none"> <li>• 25 A</li> <li>• 13.5 A</li> </ul>             |
| <b>WEIGHT</b>                  | 155.0 kg                                                                               |
| <b>NOISE LEVEL</b>             | 90.5 dB(A)                                                                             |
| <b>VIBRATION</b>               | 8.8 m/s <sup>2</sup>                                                                   |

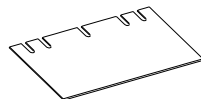
1



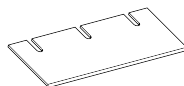
2



3



4



## Blades

Four SC 25 scraper blades. Basic, long, U-profile and debris. For carpet, cork, lino, vinyl, felt and hard-glued coverings.

|                        |                    |
|------------------------|--------------------|
| <b>1. U BLADE:</b>     | 270 × 80 × 1.5 mm  |
| <b>2. BASIC BLADE</b>  | 250 × 80 × 1.5 mm  |
| <b>3. LONG BLADE</b>   | 250 × 130 × 1.5 mm |
| <b>4. DEBRIS BLADE</b> | 200 × 80 × 2.5 mm  |



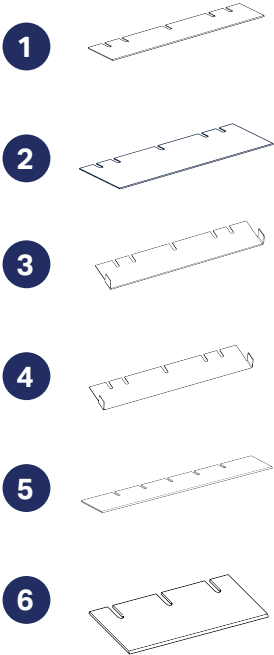
VON ARX  
SC 35

Wide electric scraper  
for clearing carpet,  
vinyl, lino, tile and felt  
fast over large floors.

|        |      |
|--------|------|
| DAY 1  | €170 |
| +1 DAY | €85  |
| WEEK   | €340 |



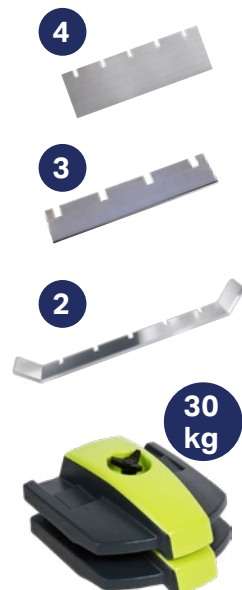
|                         |                                                                                     |
|-------------------------|-------------------------------------------------------------------------------------|
| OPERATION               | Self-propelled                                                                      |
| WORKING WIDTH           | 350–370 mm                                                                          |
| DISTANCE TO WALL        | 60 mm                                                                               |
| MACHINE SPEED           | 12.2 m/min                                                                          |
| MOTOR SPEED             | 2800 rpm                                                                            |
| MOTOR                   | 1.5 kW                                                                              |
| VOLTAGE                 | <ul style="list-style-type: none"><li>• 110 V</li><li>• 230 V</li></ul>             |
| PLUG SIZE               | <ul style="list-style-type: none"><li>• 32 A, 3 pin</li><li>• 16 A, 3 pin</li></ul> |
| MOTOR PROTECTION SWITCH | <ul style="list-style-type: none"><li>• 32 A</li><li>• 13.5 A</li></ul>             |
| WEIGHT                  | 234.0 kg                                                                            |
| NOISE LEVEL             | 90.6 dB(A)                                                                          |
| VIBRATION               | 8.1 m/s <sup>2</sup>                                                                |



Blades

Six blades for this  
scraper. Basic, long,  
wide, U-profile top  
and bottom edge, and  
debris. For carpet, cork,  
lino, vinyl, felt and hard-  
glued coverings.

|    |                     |
|----|---------------------|
| 1. | Basic Blade         |
| 2. | Long Blade          |
| 3. | U-Blade bottom edge |
| 4. | U-blade top edge    |
| 5. | Wide Blade          |
| 6. | Debris Blade        |



## WOLFF TURBO

Self-propelled stripper for tearing up any glued-down floor covering: carpet, vinyl, lino and tile. Walks itself along to save your back.

**DAY 1** €170

**+1 DAY** €85

**WEEK** €340



|               |                     |
|---------------|---------------------|
| OPERATION     | Self-propelled      |
| WORKING WIDTH | 350 mm              |
| MACHINE SPEED | 3.5 m/min           |
| MOTOR SPEED   | 5000 rpm            |
| MOTOR         | 2.2 kW              |
| VOLTAGE       | 115 V / 50 Hz       |
| PLUG SIZE     | 32 A, 3 pin         |
| TOTAL WEIGHT  | 140.0 kg            |
| WEIGHT HOOD   | 40.0 kg             |
| EXTRA WEIGHT  | 30.0 kg             |
| NOISE LEVEL   | 92 dB(A)            |
| VIBRATION     | 10 m/s <sup>2</sup> |

## Removable Weight

Detachable 30 kg weight. Sits over the striking head for stripping bonded coverings, lifts off the chassis by hand for transport. Same part across the Turbo, BiTurbo and Extro line.

1. Removable 30 kg weight
2. Serrated blade 350 × 60 × 1.5 mm
3. Spare blade 210 × 60 × 1 mm
4. Layer Parquet Blade 350 × 120 × 1.5 mm

690 × 430 × 990 mm



NFE  
5280

The 5280 lifts glued-down carpet, vinyl, lino, sheet and rubber off the slab. Compact enough for strip-outs in tight rooms and doorways.

|        |      |
|--------|------|
| DAY 1  | €150 |
| +1 DAY | €75  |
| WEEK   | €300 |

|                        |                                                                                        |
|------------------------|----------------------------------------------------------------------------------------|
| OPERATION              | Self-propelled                                                                         |
| TRAVEL SPEED           | 3.1–12.7 m/min                                                                         |
| MOTOR SPEED            | 1425 rpm                                                                               |
| MOTOR                  | 0.75 kW                                                                                |
| VOLTAGE                | 110 V / 50 Hz                                                                          |
| PLUG SIZE              | 32 A, 3 pin                                                                            |
| AMPERAGE               | 13 A (full load)                                                                       |
| WEIGHT (MACHINE)       | 80.3 kg                                                                                |
| REMOVABLE WEIGHT       | <ul style="list-style-type: none"><li>• 16.8 kg front</li><li>• 22 kg saddle</li></ul> |
| WEIGHT (OPERATING)     | 119.0 kg                                                                               |
| NOISE LEVEL            | 77 dB(A)                                                                               |
| VIBRATION (x/y/z) AXIS | 7.8 / 12.1 / 14.5 m/s <sup>2</sup>                                                     |



Accessories

The compact 5280 arrives set to go, with a blade fitted and with the wrench to swap it. The same two blade holders suit it when the work calls for a change.

|    |                                                                             |
|----|-----------------------------------------------------------------------------|
| 1. | Rotating blade holder, keeps the blade flat to the floor for steady contact |
| 2. | Razor blade holder, for fine lifting and detail work                        |



1260 × 450 × 1190 mm



## NFE 6280HD GLADIATOR

The Gladiator strips ceramic tile, adhesive, wood and sheet goods off the slab. Hard or soft, it gets the floor back down to bare.

**DAY 1 €260**

**+1 DAY €130**

**WEEK €520**



|                        |                                                                                           |
|------------------------|-------------------------------------------------------------------------------------------|
| OPERATION              | Self-propelled                                                                            |
| TRAVEL SPEED MAX       | 7 m/min                                                                                   |
| MOTOR SPEED            | 1425 rpm                                                                                  |
| MOTOR                  | 1.1 kW                                                                                    |
| VOLTAGE                | 110 V / 50 Hz                                                                             |
| PLUG SIZE              | 32 A, 3 pin                                                                               |
| AMPERAGE               | 13 A (full load)                                                                          |
| WEIGHT (MACHINE)       | 167.4 kg                                                                                  |
| REMOVABLE WEIGHT       | <ul style="list-style-type: none"> <li>• 35.4 kg front</li> <li>• 19.5 kg side</li> </ul> |
| WEIGHT (WORKING)       | 222.3 kg                                                                                  |
| NOISE LEVEL            | 77 dB(A)                                                                                  |
| VIBRATION (X/Y/Z) AXIS | 3.2 / 5.1 / 5.0 m/s <sup>2</sup>                                                          |



## Gladiator Kit

The Gladiator ships ready for hard and soft work. The kit packs a blade for each job, from a self-scoring edge for ceramic and tile adhesive to a carbide shank for the bonds that hold, so the floor comes up whatever it is.

1. 90° blade, bevel down
2. 45° self-scoring blade, bevel up
3. 75 × 150 mm premium blade
4. Angle shank with carbide tip
5. 30° angle attachment
6. Retainer cap assembly
7. Blade holder

Battery Powered



NFE 7700

Battery ride-on scraper for stripping huge floors of tile, vinyl, glue and failed coatings. You sit and drive while it does the hard graft.

|        |       |
|--------|-------|
| DAY 1  | €830  |
| +1 DAY | €415  |
| WEEK   | €1660 |

|                     |                                |
|---------------------|--------------------------------|
| OPERATION           | Ride-on                        |
| TRAVEL SPEED MAX    | 61.0 m/min                     |
| POWER SUPPLY        | Battery<br>2.98 kW             |
| CHARGER INPUT       | 230 V                          |
| PLUG SIZE (CHARGER) | • 16 A, 3 pin<br>• 13 A, 3 pin |
| FREQUENCY           | 50 Hz                          |
| WEIGHT (MACHINE)    | 1156 kg                        |
| REMOVABLE WEIGHT    | 83.9 kg front                  |
| WEIGHT (WORKING)    | 1261 kg                        |
| NOISE LEVEL         | 94–97 dB(A)                    |



Accessories

- 6277-BU: 45° self-scoring blade, 76 × 305 mm, bevel up
- 75 × 305 mm heavy-duty blade
- 305 mm blade holder
- 50 × 152 mm angle shank with carbide tip



## Battery Powered



## ELECTRIC FLOOR SCRAPER

Battery ride-on scraper. Stripping huge floors of tile, vinyl, glue and failed coatings. You sit and drive while it does the hard graft.

DAY 1 **€830**

+1 DAY **€415**

WEEK **€1660**



|                     |                         |
|---------------------|-------------------------|
| OPERATION           | Ride-on                 |
| TRAVEL SPEED MAX    | 0–133.3 m/min           |
| DRIVE MOTOR         | Synchronous Motor, 6 kW |
| CHARGER INPUT       | 100–240 V               |
| CHARGER OUTPUT      | 525 A                   |
| RECHARGE            | 8 h                     |
| WEIGHT              | 1000 kg (unladen)       |
| STEERING ANGLE      | 90°                     |
| BUZZER (ADJUSTABLE) | 60–80 dB(A)             |
| NOISE LEVEL         | 65 dB(A)                |



## Accessories

1. 45° self-scoring blade, 76 × 305 mm, bevel up
2. 75 × 305 mm heavy-duty blade
3. 305 mm blade holder
4. 50 × 152 mm angle shank with carbide tip

we also have...

# NEEDLE SCALERS

**V**ON ARX needle scalers are in stock at Concrete Care, available to hire or buy. They strip rust, scale, weld slag and old coatings off steel and concrete without the dust of a scabbler, and the needle bundle re-shapes to whatever profile the surface throws at you. To check rates or current availability, ring +353 1 88 99 000.



