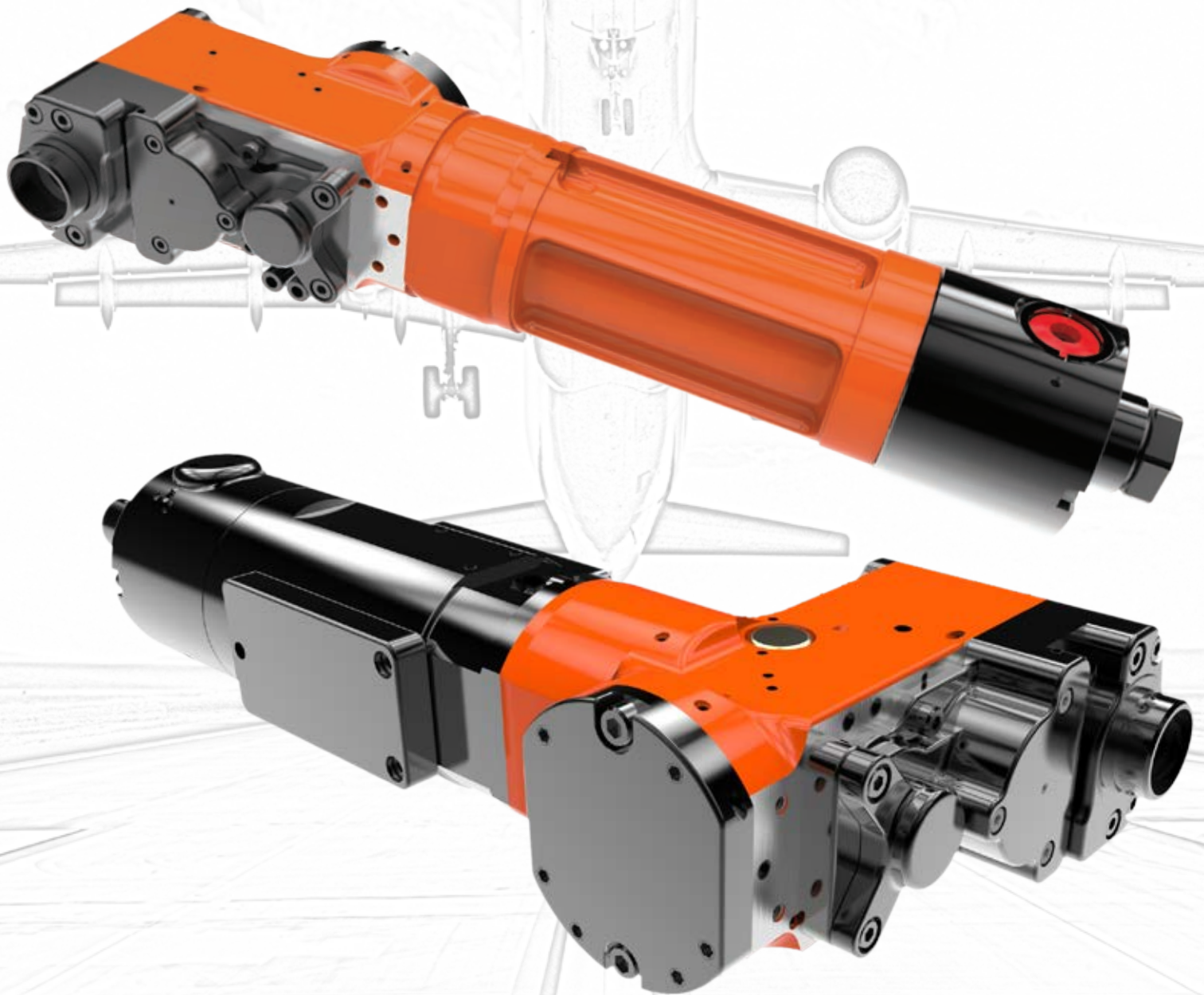


# A1 SERIES

POSITIVE FEED DRILLS

# Recoules<sup>®</sup> Quackenbush



**LOW MAINTENANCE | INCREASE PRODUCTIVITY | LOW OPERATING COST | QUALITY**

# A1-SERIES

INTRODUCING THE NEW ADVANCED DRILLING EQUIPMENT PLATFORMS

# Recoules<sup>®</sup> Quackenbush

**EASYCHANGE**  
*FOR FEED RATE AND MITIS™*

- Feed change in less than 15 minutes (Allows easy configuration and/or less time to repair)
- Mitis™ change in less than 15 minutes\* (Allows easy configuration and/or less time to repair)

**DURASLIP**

- Clutch in home position to prevent jamming on high speed.

**EXTRALIFE**  
*NO IMPACT CONE CLUTCH FOR RETRACT MECHANISM*

- Improved reliability
- No impact, less servicing
- Easy access for servicing
- Lower service cost

**LOGIPOINT**  
*AVAILABLE CONNECTION FOR ACCESSORIES/ERROR-PROOFING*

- Allows easy implementation of:
  - Remote start
  - Start safety interlock
  - Air supply to accessories
  - Remote retract
  - Cycle complete
- Makes customization easier
- Coolant shut-off in retract
- Get the configuration you want in less time

**FLEXMOTOR**

- Available in Right Angle or Inline Configuration

**LIFTSWITCH**  
*MECHANICAL INITIATION OF RETRACT*

- Improved reliability
- Longer life
- Less defects
- Depth/dwell incorporated for accurate countersinking +/- 0.001" (0.03mm)

**OVERTORQUE**  
*OVERLOAD FOR TORQUE THROUGH SHEAR PIN TRAIN*

- Protects gears if torque is too high
- Longer gear head life
- Keeps tool weight down
- Can prevent drilling with damaged cutter
- Less hole defects

**FLEXPAPER**  
*VANE- AND TURBINE-GOVERNED MOTOR OPTIONS*

- Wide range of speed options through modular planetary gearboxes
- Vane motor options for either higher power or lower noise

**ATTACHMENTS & ACCESSORIES**

- Guard with Fluid Influencer
- Handle
- Indexer
- Vacuum Nose

\* Mitis Chip Fragmentation System

## LOW MAINTENANCE

- Up to 500 hours/100000 cycle PM interval\*\*
- Quickchange gearhead for easy repair or reconfiguration
- Extralife clutch accessible for change in less than 15 minutes
- Easy-change access to change both feed and MITIS™ in less than 15 minutes

## INCREASE PRODUCTIVITY

- Most flexible power train design configurable to minimize speed drop
- Line re-balancing drill configuration in hours vs. months
- 2.5 HP at spindle for maximum speed/torque
- Integrated MITIS™ for optimum chip evacuation

## LOW OPERATING COST

- Up to 500 hours/100000 cycle PM interval\*\*
- Uniquely configurable power train to maximize cutter life
- Fastest wear item replacement in gearhead / MITIS™
- Selectable turbine/vane motors to minimize operating cost based on usage
- Minimal spare parts required

## QUALITY

- Configurable error-proofing
- Anti-jam spindle
- Add on counter for operator independent cutter change
- Minimized speed drop for consistent hole quality

\*\* Mitis™ may require more frequent PM, refer to service manual

# PRODUCT SPECIFICATIONS

# Recoules<sup>®</sup> Quackenbush

Max Spindle Power 2.5hp\* at 90psi/6.3bar dynamic air supply  
Tool thrust 500lbs at 90psi/6.3bar dynamic air supply

## A SERIES BASE TOOL OPTIONS

| Base Tool   |                       |   |  | Standard Option |            | Rated Speeds -0/+10% |                |      |      |      |      |      |      |      |       | Feeds |       |       |        |
|---|-----------------------|---|--|-----------------|------------|----------------------|----------------|------|------|------|------|------|------|------|-------|-------|-------|-------|--------|
| Code  | Base weight<br>lbs kg |   | Noise  | Configuration   |            | Code                 | Configuration  |      |      |      |      |      |      |      |       |       |       | ipr   | mm/rev |
| <b>VANE</b>   |                       |   |  |                 |            |                      |                |      |      |      |      |      |      |      |       |       |       |       |        |
| A14V  | 7.3                   | 3.3   | <=85dBA  | Right Angle     | Vane Motor | M                    | Internal Mitis | 3100 | 2800 | 2500 | 2100 | 1900 | 1700 | 1450 | 950   | 850   | 0.001 | 0.025 |        |
| A16V  | 7.1                   | 3.2   | <=85dBA  | In Line         | Vane Motor |                      |                | 760  | 670  | 600  | 510  | 460  | 410  | 350  | 320   | 250   | 0.002 | 0.05  |        |
| <b>TURBINE</b>                                      |                       |   |  |                 |            |                      |                |      |      |      |      |      |      |      |       |       |       |       |        |
| A14T  | 6.9                   | 3.1   | <=82dBA  | Right Angle     | Turbine    |                      |                | 3200 | 2500 | 1700 | 950  | 750  | 600  | 400  | 0.003 | 0.08  |       |       |        |
| A16T  | 6.7                   | 3.0   | <=82dBA  | In Line         | Turbine    | 0.004                | 0.10           |      |      |      |      |      |      |      |       |       |       |       |        |
| <b>A SERIES CUSTOM TOOL OPTIONS AND ACCESSORIES</b> |                       |   |  |                 |            |                      |                |      |      |      |      |      |      |      |       |       |       |       |        |
| Spindles  |                       | Specified based on stroke requirement and cutter thread interface                       |  |                 |            |                      |                |      |      |      |      |      |      |      |       |       |       |       |        |
|   |                       | Item Number   | Select from 1/2" - 20 Spindles                         |                 |            |                      |                |      |      |      |      |      |      |      |       |       |       |       |        |
|   |                       | 633809F-G0702-104   | Spindle Fluid 9/16"-18 6.5 OAL                         |                 |            |                      |                |      |      |      |      |      |      |      |       |       |       |       |        |
|   |                       | 633809F-G0702-128   | Spindle Fluid 9/16"-18 8 OAL                           |                 |            |                      |                |      |      |      |      |      |      |      |       |       |       |       |        |
|   |                       | 633809F-D0401-128   | Spindle Fluid 3/8"-24 8 OAL                            |                 |            |                      |                |      |      |      |      |      |      |      |       |       |       |       |        |
|   |                       | 633403  | Spindle Fluid 200DA Collet 9 OAL                       |                 |            |                      |                |      |      |      |      |      |      |      |       |       |       |       |        |
| Spindle Guard                                       |                       | Specific based on spindle stroke and coolant method used                                |  |                 |            |                      |                |      |      |      |      |      |      |      |       |       |       |       |        |
| Nose Attachment                                     |                       | Based on application requirements   |  |                 |            |                      |                |      |      |      |      |      |      |      |       |       |       |       |        |
|   |                       | Item Number   | Select from 1" - 20 Noses                              |                 |            |                      |                |      |      |      |      |      |      |      |       |       |       |       |        |
|   |                       | 615457  | Nose Std 21k 7 OAL                                     |                 |            |                      |                |      |      |      |      |      |      |      |       |       |       |       |        |
|   |                       | 624206  | Nose Std 22k 6 OAL                                     |                 |            |                      |                |      |      |      |      |      |      |      |       |       |       |       |        |
|   |                       | 615475  | Nose Std 23k 6 OAL                                     |                 |            |                      |                |      |      |      |      |      |      |      |       |       |       |       |        |
|   |                       | 624086  | Nose Std 24k 6 OAL                                     |                 |            |                      |                |      |      |      |      |      |      |      |       |       |       |       |        |
|   |                       | 641379  | Nose Vacuum Swivel 22k 6 OAL                           |                 |            |                      |                |      |      |      |      |      |      |      |       |       |       |       |        |
|   |                       | 631753  | Nose Vacuum Swivel 23k 6 OAL                           |                 |            |                      |                |      |      |      |      |      |      |      |       |       |       |       |        |
|   |                       | 631751  | Nose Vacuum Swivel 24k 6 OAL                           |                 |            |                      |                |      |      |      |      |      |      |      |       |       |       |       |        |
| Concentric Collet                                   |                       | Based on application requirements   |  |                 |            |                      |                |      |      |      |      |      |      |      |       |       |       |       |        |
|   |                       | Item Number   | Description  |                 |            |                      |                |      |      |      |      |      |      |      |       |       |       |       |        |
|   |                       | 22016936PT  | Concentric Collet Actuator Vacuum 150lbs Nominal Force |                 |            |                      |                |      |      |      |      |      |      |      |       |       |       |       |        |
|   |                       | 22016937PT  | Concentric Collet Actuator Vacuum 250lbs Nominal Force |                 |            |                      |                |      |      |      |      |      |      |      |       |       |       |       |        |
|   |                       | 22016938PT  | Concentric Collet Actuator Vacuum 550lbs Nominal Force |                 |            |                      |                |      |      |      |      |      |      |      |       |       |       |       |        |
| Template Foot                                       |                       | Based on application requirements   |  |                 |            |                      |                |      |      |      |      |      |      |      |       |       |       |       |        |
| Handles   |                       | We have a range of standard handles development or can customize one to suit your needs |  |                 |            |                      |                |      |      |      |      |      |      |      |       |       |       |       |        |
| Electronic Counter                                  |                       | For cutter, maintenance and overall tool life   |  |                 |            |                      |                |      |      |      |      |      |      |      |       |       |       |       |        |
| Lubricator  |                       | Based on application requirements   |  |                 |            |                      |                |      |      |      |      |      |      |      |       |       |       |       |        |

## CONFIGURATION OPTIONS



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