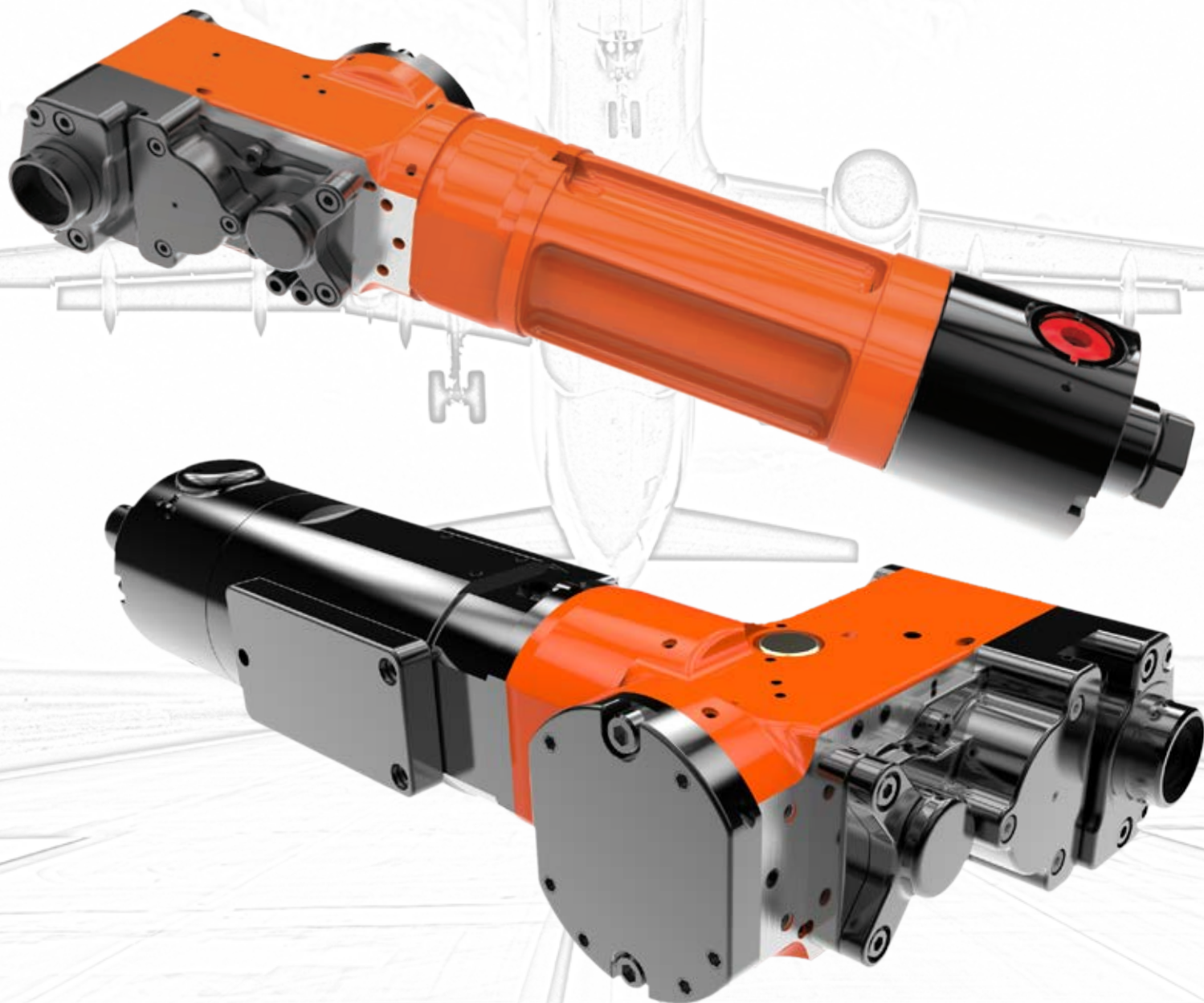


A1 SERIES

POSITIVE FEED DRILLS

Recoules® Quackenbush



LOW MAINTENANCE | INCREASE PRODUCTIVITY | LOW OPERATING COST | QUALITY

A1-SERIES

INTRODUCING THE NEW ADVANCED DRILLING EQUIPMENT PLATFORMS

Recoules[®] 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

FLEXPPOWER
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[®] 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 lbs	kg	Noise	Configuration	Code	Configuration									ipr	mm/rev		
VANE						M	Internal Mitis	3100	2800	2500	2100	1900	1700	1450	950	850	0.001	0.025
A14V	7.3	3.3	<=85dBA	Right Angle	Vane Motor			760	670	600	510	460	410	350	320	250	0.002	0.05
A16V	7.1	3.2	<=85dBA	In Line	Vane Motor											0.003	0.08	
TURBINE																0.004	0.10	
A14T	6.9	3.1	<=82dBA	Right Angle	Turbine											0.006	0.15	
A16T	6.7	3.0	<=82dBA	In Line	Turbine			3200	2500	1700	950	750	600	400	0.007	0.18		
														0.008	0.20			

A SERIES CUSTOM TOOL OPTIONS AND ACCESSORIES

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



United States
Apex Tool Group
670 Industrial Drive
Lexington, SC 29072
Phone: +1 800 845 5629
Fax: +1 803 358 7681
www.apexpowertools.com

Germany
Apex Tool Group
GmbH & Co.
Industriestraße 1
73463 Westhausen
Germany
Phone: +49 (0) 73 63 81 0
Fax: +49 (0) 73 63 81 222
www.apexpowertools.eu

China
Apex Power Tool Trading
(Shanghai) Co., Ltd
Building A8, No. 38
Dongsheng Road
Pudong, Shanghai
China 201201
Phone: +86 21 60880320
Fax: +86 21 608803313
www.aptpowertools.com.cn

India
Apex Power Tools India
Private Limited
Gala No. 1, Plot No. 5
S. No. 234, 235 & 245
Indialand Global Industrial Park
Taluka-Mulsi, Phase I
Hinjawadi, Pune 411057
Maharashtra, India
Phone: +91 20 66761111

Brazil
Apex Tool Group
Ind. Com. Ferram. Ltda
Av. Liberdade, 4055
Zona Industrial Iporanga
Sorocaba, São Paulo
CEP# 18087-170
Brazil
Tel: +55 15 2383929
Fax: +55 15 2383260

Mexico
Apex Tool Group Manufacturing
México S. de RL de CV
Vialidad El Pueblito #103
Parque Industrial Querétaro
Querétaro, QRO CP# 76220
Mexico
Tel: +52 (442) 211 3800
Fax: +52 (800) 685 5560

