

600

690

RIDGID[®]

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RIDGE TOOL COMPANY

GB

600, 690

Operating Instructions



WARNING! Read these instructions and the accompanying safety booklet carefully before using this equipment. If you are uncertain about any aspect of using this tool, contact your **RIDGID** distributor for more information.

Failure to understand and follow all instructions may result in electric shock, fire, and/or serious personal injury.

SAVE THESE INSTRUCTIONS!

DESCRIPTION AND SPECIFICATIONS

Description

The RIDGID No. 600 and 690 Portable Electric Threaders are electric motor driven, heavy-duty units which provide power to thread pipe using RIDGID 11R (or R-200) drop heads die heads.

Specifications/Technical Information

	600	690
Threading Capacity (Pipe & Conduit)	1/8" - 1 1/4"	1/8" - 2"
Gear Head/Type	worm	spur
Length	510 mm	600 mm
Weight	5,5 kg	8,5 kg
Motor, Universal Type (110 or 220 V)	1020 W.	1020 W.
Support Arm Model	601	691
Die Head Model	R-200, 11R	R-200, 11R

Standard Equipment

Each 600 and 690 Power drive is supplied with a support arm. Units may be supplied with a metal carrying case and die heads.

Safety

1. Know your Power Drive. Read the Operator's Manual carefully. Learn the operation, application, and limitations as well as the specific potential hazards peculiar to this tool.
2. Use right tool. We recommend use of 601/691 Support Arm. The Support Arm assures safer operation when using the 600 or 690 Power Drive horizontally, vertically or overhead because once it is secured to the pipe to take up the threading torque, both hands are free to mount the Power Drive into position.
When the job is completed, the Power Drive and Support Arm can be removed separately assuring safer job take down. Do not force small tool or attachment to do the job of a heavy-duty tool.
3. Secure work. Use clamp, bench vise or stand vise to hold pipe which is not otherwise rigidly supported or attached.

Operation

Threading with drop head die heads

1. 1/8" - 1 1/4" RIDGID 11-R (or R-200) Die Heads fit into the RIDGID 600 and 690 power threaders without the need for adaptors. Simply push Die Heads spline end first, squarely into Face Gear until spring catches securely. (See fig. 1a) 1 1/2" and 2" RIDGID 11-R (or R-200) die heads are simply installed in the RIDGID 690 once the adaptor ring has been pushed out. (See fig. 1b)
For right hands threads, installation is as shown in fig. 2a.
For left hand threads, installation is as shown in fig. 2b.
Note: The direction change switch is used to back-off the Die Head when the thread is completed. For threading, the switch must always be positioned so that the solid arrow shows. See fig. 2c.
Important: When threading pipe, the No. 601/691 Support Arm should be used and securely locked on the pipe as shown in Figures 3 and 4. Position the Support Arm on pipe so end of tang is in line with end of pipe. To use the Support Arm and Power Drive together correctly refer to Figures 3 and 4. Failure to follow these instructions could result in injury to operator because of torque developed during threading.
2. Place Die Head (already installed in Power Drive) over end of pipe. When using make sure Power Drive is correctly positioned on Support Arm. For Right Hand threads, Die Head should rotate CW. (looking at face of Die Head).
Note: During threading, apply plenty of RIDGID Thread Cutting Oil to dies. We recommend use of Model 418 oiler to ensure adequate supply of oil.
3. Simultaneously actuate switch button and exert pressure on machine to make sure thread is started. Keep switch button depressed until threading is completed. Releasing switch button will stop the Power Drive.
Caution: Hold onto Power Drive handle firmly to resist initial torque while backing off Die Head.
4. To back off Die head from threaded pipe, set direction switch to back off position. See fig. 2d. Actuate paddle switch. When dies clear end of pipe, grip handle on top of Power Drive and remove Power Drive from pipe.

MAINTENANCE OF POWER DRIVE

Motor Brush Replacement

Warning: To reduce possibility of electrical shock and accidental starting always unplug power cord before servicing. Check Motor Brushes every 6 months and replace Brushes when they are worn to less than 1/4" (6 mm).

The unit is designed to be maintenance free apart from the motor brushes which will wear. All other maintenance should be performed by factory approved service stations. Permanent oil filling - no maintenance required.

TROUBLE SHOOTING

Warning

Each remedy with ⚠ has to be repaired by a qualified electrical craftsman.
Disconnect power cord.

TROUBLE SHOOTING	POSSIBLE CAUSE	REMEDY
- motor does not start	- interruption of supply - fuse has been blown - brushes do not touch armature	- examine the supply ⚠ - install a new fuse - check the brushes, renew used brushes
- motor cannot be loaded	- short circuit - overload because of dull dies - bad quality or insufficient thread cutting oil	- look for the short circuit and resolve ⚠ - renew the dies - use RIDGID thread cutting oil in adequate quantity
- abnormal heating of the motor	- overload because of dull dies - insufficient cooling air	- renew dies - clean the air-vent opening of the motor
- sparks forming at the motor	- dirty commutator - bad contact between brushes and brush holder - because of excessive wear brushes do not touch commutator properly - brushes of different manufacture - sharp edge of brush	- please send in for repair ⚠ - tighten the screws, make sure brush is pressed firmly onto commutator - change worn brushes ⚠ (replace only with genuine commutator properly RIDGID brushes) - only use original brushes ⚠ - break edge ⚠
- "sparks" in the motor compartment	- particles come loose from brushes or armature (collector) and start glowing	- send machine in for repair ⚠
- die head does not start threading	- dull or broken dies - machine running in wrong direction	- change dies - check setting of the direction switch
- damaged thread	- dull dies - dies not assembled in correct sequence - low quality pipe - bad quality or insufficient thread cutting oil	- change dies - put dies in correct sequence - make sure only pipe of good quality is used - use only RIDGID thread cutting oil in adequate quantity
- support arm turns while threading	- support arm jaws dirty	- clean with wire brush
- die heads cannot be changed properly	- burr has occurred at the spline end of the die head	- eliminate burr with file
- die head not held tightly	- retaining spring damaged or worn	- replace retaining spring



Fig. 1a



Fig. 1b

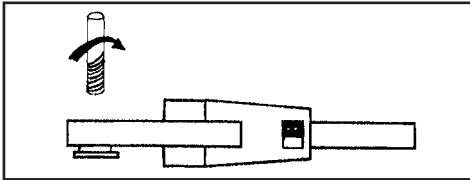


Fig. 2a

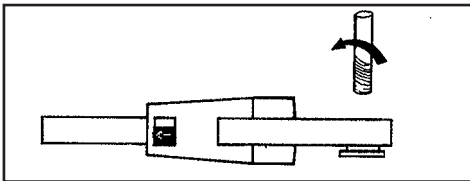


Fig. 2b

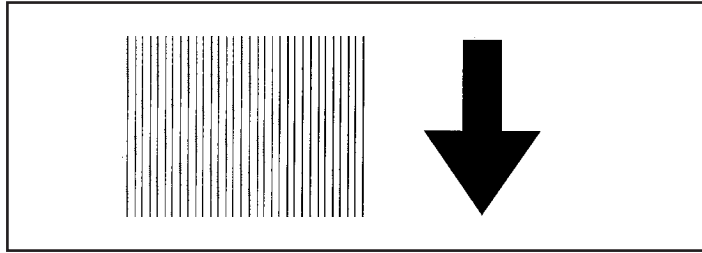


Fig. 2c

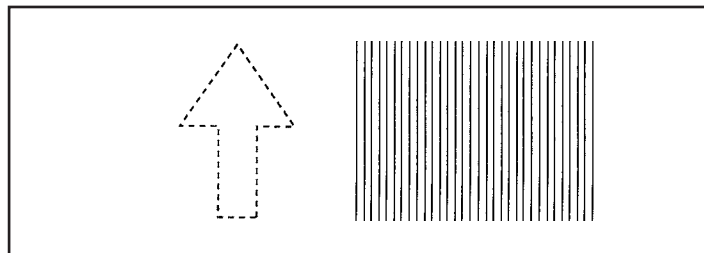


Fig. 2d

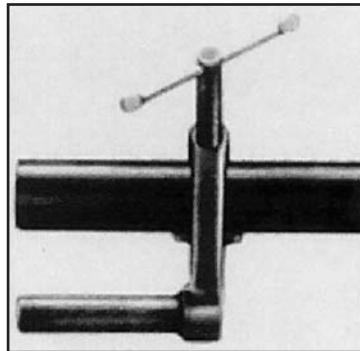


Fig. 3



Fig. 4



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