

ROLL GRIP[®] STUD DRIVER AND REMOVER

- For driving or removing studs
- Positive, non-slip grip in either direction
- Each size adjustable for wide range of stud lengths
- Quick acting
(no threading on or off stud)



ROLL GRIP® STUD DRIVER AND REMOVER

When the **STUD DRIVER AND REMOVER** is loaded onto the stud, the smoothly ground rolls compete for space with the stud and the internal cams on the **MAIN RING**. Any movement right or left causes a positive grip on the stud.

When used as a **REMOVER**, the stud falls free from tool as soon as it clears the part.

When used as a **DRIVER**, the power source **must** be brought to a complete rotational stop and all torque relaxed before the Roll-Grip will release stud.

Power Source:

Use on any hand held or fixtured power source (although **not recommended** for use on an impact wrench except under certain conditions).

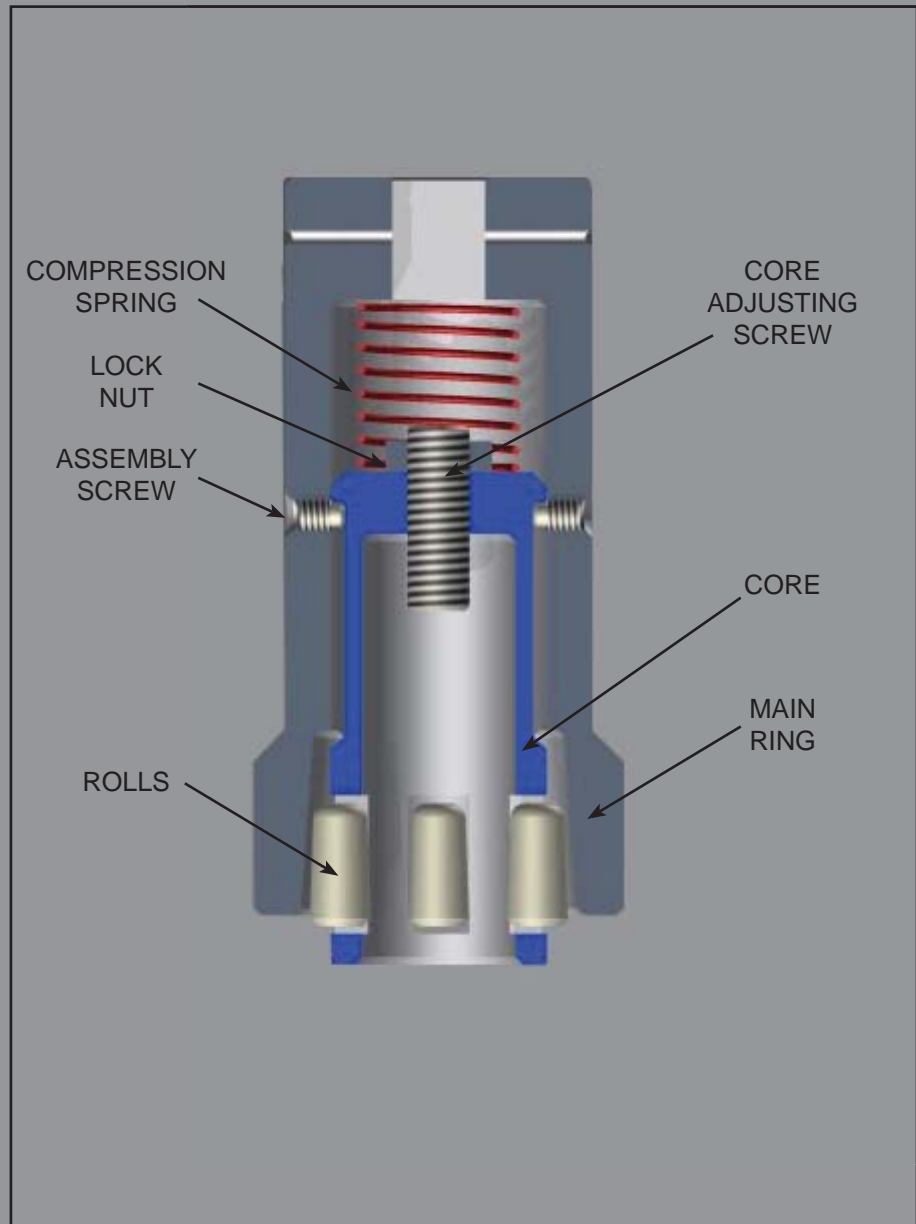
When torque control is required use the **ROLL-GRIP** in conjunction with the **TITAN-TORKER** "outboard clutch".

Automatic Stud Pick-up:

Ask for information on the **TITAN POSI-LOAD STUD RETAINER**, and the "TITAN RCD" series. (available for sizes 3/16" thru 3/8" or M5 thru M10).

Pipe Diameters:

Ask for brochure on the **TITAN "MODEL R" PIPE NIPPLE DRIVER AND REMOVER**. (Ideal for use by water heater manufacturers.)



CAUTION:

1. The Roll-Grip Stud Driver is designed with enough adjustment, so that on **most applications** the rolls will pass over the threads and grip on the unthreaded body of the stud. However, certain conditions may cause the Roll-Grip to bite directly on the threads, which will **cause thread distortion**. The degree of distortion would be commensurate with the hardness of the stud, and the amount of torque applied.
2. If unthreaded area is smaller in diameter than threaded diameter, special tool modifications may be required.
3. **Do not use any lubricant**, wet or dry, on this tool. Occasionally the tool should be disassembled and the rolls and internal cams sanded with emery cloth.

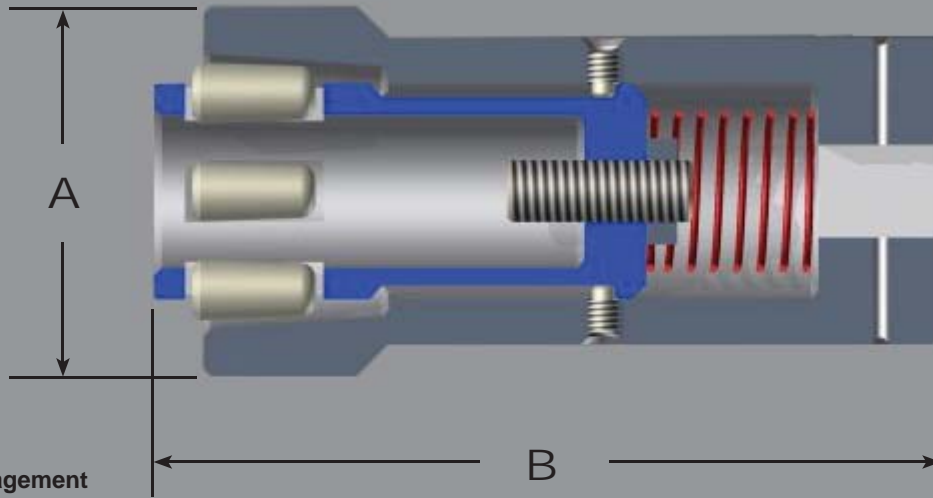
WHEN ORDERING TOOLS:

1. Specify diameter of stud, length of thread on nut end, length of unthreaded body, and height of stud projection above casting.
2. Specify tool number.

WHEN ORDERING REPLACEMENT PARTS:

1. Please give stud size and name of part required.
2. If ordering "Main Ring", also include drive square size.

IMPORTANT - INCLUDE SAMPLE STUD WITH ORDER



NOTE:
Stud Engagement
Dimensions shown
on back page.

TOOL NUMBERS AND PHYSICAL DIMENSIONS

U.S. SIZES					
DRIVE* SQUARE	STUD SIZE	TOOL NUMBER	A DIA. ± 1/32"	B O.A.L. ± 1/16"	WEIGHT (Pounds)
3/8"	3/16"	3R-6	1"	2 9/16"	.4
	1/4"	4R-6	1 5/32"	3 3/32"	.7
	5/16"	5R-6	1 7/16"	3 9/32"	.9
1/2"	3/16"	3R-8	1"	2 9/16"	.4
	1/4"	4R-8	1 5/32"	3 3/32"	.7
	5/16"	5R-8	1 7/16"	3 9/32"	.9
	3/8"	6R-8	1 11/16"	3 11/16"	1.4
	7/16"	7R-8	1 15/16"	4 3/4"	1.9
	1/2"	8R-8	1 15/16"	4 7/8"	1.9
3/4"	1/2"	8R-12	1 29/32"	5 1/8"	2.9
	9/16"	9R-12	2"	5 3/8"	3.4
	5/8"	10R-12	2 1/8"	5 5/8"	4
	3/4"	12R-12	2 1/4"	6 3/8"	5.2
	7/8"	14R-12	2 13/32"	6 3/4"	6.2
	1"	16R-12	2 7/16"	7 1/32"	7
	1 1/8"	18R-12	2 3/4"	7 9/32"	6.8
	1 1/4"	20R-12	2 7/8"	7 17/32"	7.9
	1"	3/4"	12R-16	2 1/4"	6 3/8"
7/8"		14R-16	2 13/32"	6 3/4"	6.2
1"		16R-16	2 7/16"	7 1/32"	6.9
1 1/8"		18R-16	2 3/4"	7 9/32"	6.8
1 1/4"		20R-16	2 7/8"	7 17/32"	7.7
1 3/8"		22R-16	3 1/8"	8 1/4"	8.5
1 1/2"		24R-16	3 1/4"	8 25/32"	14.6
1 5/8"		26R-16	3 1/2"	9 1/32"	11.2
1 3/4"		28R-16	3 5/8"	9 11/32"	12.3
1 7/8"		30R-16	3 3/4"	9 19/32"	21
2"		32R-16	4"	9 29/32"	25.3
1 1/2"	1 3/8"	22R-24	3 1/8"	8 1/4"	15.4
	1 1/2"	24R-24	3 1/4"	8 25/32"	16.2
	1 5/8"	26R-24	3 1/2"	9 1/32"	17.3
	1 3/4"	28R-24	3 5/8"	9 11/32"	23.6
	1 7/8"	30R-24	3 3/4"	9 19/32"	17
	2"	32R-24	4"	9 29/32"	17.4
	2 1/8"	34R-24	4 1/8"	10 7/32"	26.6
	2 1/4"	36R-24	4 1/4"	10 15/32"	28
	2 3/8"	38R-24	4 3/8"	10 25/32"	30.6
	2 1/2"	40R-24	4 1/2"	11 1/32"	25.3
	2 3/4"	44R-24	4 3/4"	11 21/32"	29.8
3"	48R-24	5"	12 7/32"	34.6	

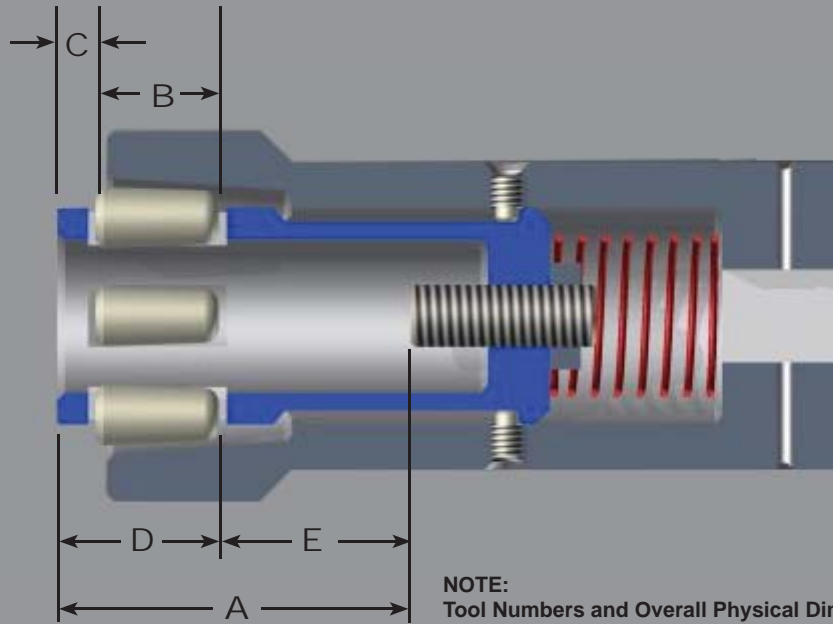
METRIC SIZES					
DRIVE* SQUARE	STUD SIZE	TOOL NUMBER	A DIA. ± .8mm	B O.A.L. ± 1.5mm	WEIGHT (Pounds)
3/8"	M5	3R-6	25.4	65.1	.4
	M6	4R-6	29.4	78.6	.7
	M7	4RM-2-6	29.4	78.6	.7
	M8	5R-6	36.5	83.3	.9
1/2"	M5	3R-8	25.4	65.1	.4
	M6	4R-8	29.4	78.6	.7
	M7	4RM-2-8	29.4	78.6	.7
	M8	5R-8	36.5	83.3	.9
	M10	6RM-1-8	42.9	93.7	1.4
	M12	8RM-1-8	49.2	213.8	1.9
3/4"	M12	8RM-1-12	48.4	130.2	2.9
	M14	9RM-1-12	50.8	136.5	3.4
	M16	10RM-1-12	54.0	142.9	4
	M18	12RM-1-12	57.2	162.0	5.2
	M20	12RM-2-12	57.2	162.0	5.2
	M22	14RM-1-12	61.0	171.5	6.2
	M24	16RM-1-12	64.3	178.6	7
	M27	16RM-2-12	64.3	178.6	7
	M30	18RM-1-12	69.9	185.0	6.8
	M33	20RM-1-12	73.0	191.3	7.9
1"	M18	12RM-1-16	57.2	162.0	5
	M20	12RM-2-16	57.2	162.0	5
	M22	14RM-1-16	61.0	171.5	6.2
	M24	16RM-1-16	64.3	178.6	6.9
	M27	16RM-2-16	64.3	178.6	6.9
	M30	18RM-1-16	69.9	185.0	6.8
	M33	20RM-1-16	73.0	191.3	7.7

* The 1/2" female squares are equipped with a plain hole in one side for pin lock on male squares, and have a set screw in the other side.

The 3/4", 1", and 1 1/2" female squares are equipped with a cross pin and an "O"-Ring.

Larger sizes quoted on request.

ROLL GRIP® STUD DRIVER AND REMOVER



NOTE:
Tool Numbers and Overall Physical Dimensions shown on page 3.

U.S. SIZES

STUD DIA.	A MAX. TOTAL GRIP	B LENGTH OF ROLLS	C CORE CAP WIDTH	D MIN. GRIP TO TOP OF ROLLS	E MAX. AREA ABOVE ROLLS
3/16"	31/32"	3/8"	3/32"	15/32"	1/2"
1/4"	1 3/16"	7/16"	1/8"	9/16"	5/8"
5/16"	1 5/16"	7/16"	1/8"	9/16"	3/4"
3/8"	1 17/32"	1/2"	5/32"	21/32"	7/8"
7/16"	1 31/32"	13/16"	5/32"	31/32"	1"
1/2"	2 3/32"	13/16"	5/32"	31/32"	1 1/8"
9/16"	2 1/4"	13/16"	3/16"	1"	1 1/4"
5/8"	2 3/8"	13/16"	3/16"	1"	1 3/8"
3/4"	2 5/8"	13/16"	3/16"	1"	1 5/8"
7/8"	2 7/8"	13/16"	3/16"	1"	1 7/8"
1"	3 5/32"	13/16"	7/32"	1 1/32"	2 1/8"
1 1/8"	3 13/32"	13/16"	7/32"	1 1/32"	2 3/8"
1 1/4"	3 21/32"	13/16"	7/32"	1 1/32"	2 5/8"
1 3/8"	3 29/32"	13/16"	7/32"	1 1/32"	2 7/8"
1 1/2"	4 3/16"	13/16"	1/4"	1 1/16"	3 1/8"
1 5/8"	4 7/16"	13/16"	1/4"	1 1/16"	3 3/8"
1 3/4"	4 11/16"	13/16"	1/4"	1 1/16"	3 5/8"
1 7/8"	4 15/16"	13/16"	1/4"	1 1/16"	3 7/8"
2"	5 3/16"	13/16"	1/4"	1 1/16"	4 1/8"
2 1/8"	5 7/16"	13/16"	1/4"	1 1/16"	4 3/8"
2 1/4"	5 11/16"	13/16"	1/4"	1 1/16"	4 5/8"
2 3/8"	5 15/16"	13/16"	1/4"	1 1/16"	4 7/8"
2 1/2"	6 3/16"	13/16"	1/4"	1 1/16"	5 1/8"
2 3/4"	6 11/16"	13/16"	1/4"	1 1/16"	5 5/8"
3"	7 3/16"	13/16"	1/4"	1 1/16"	6 1/8"

NOTE: ALL DIMENSIONS IN INCHES.

METRIC SIZES

STUD DIA.	A MAX. TOTAL GRIP	B LENGTH OF ROLLS	C CORE CAP WIDTH	D MIN. GRIP TO TOP OF ROLLS	E MAX. AREA ABOVE ROLLS
M5	24.58	9.52	2.39	11.91	12.70
M6	30.18	11.12	3.17	14.27	15.87
M7	30.18	11.12	3.17	14.27	15.87
M8	33.35	11.12	3.17	14.27	19.05
M10	38.89	12.70	3.96	16.66	22.22
M12	53.19	20.65	3.96	24.61	28.57
M14	57.15	20.65	4.78	25.40	31.75
M16	60.32	20.65	4.78	25.40	34.92
M18	66.67	20.65	4.78	25.40	41.27
M20	66.67	20.65	4.78	25.40	41.27
M22	73.02	20.65	4.78	25.40	47.62
M24	80.16	20.65	5.56	26.19	53.97
M27	80.16	20.65	5.56	26.19	53.97
M30	86.51	20.65	5.56	26.19	60.32
M33	92.86	20.65	5.56	26.19	66.67

NOTE: ALL DIMENSIONS IN MILLIMETERS.



TITAN® TOOL COMPANY, INC.
 7410 West Ridge Road • P.O. Box 220 • Fairview, PA 16415
 Phone (814) 474-1583 • FAX (814) 474-5337 • Email: titan@titantoolco.com