FLOW-STRAIGHTENING TECHNOLOGY →→→

MORE POWER - LESS WATER

HYDRO-EXCAVATION

SWITCH BLADE™

STRAIGHT-LINE VERSATILITY

Multiple straight streams of zero-degree digging power available, with interchangeable pills to dial in your exact flow rate on the fly. Customized impact for any job!

MORE RUNTIME, LESS DOWNTIME

- ✓ TRENCHING
- ✓ STARTING TOOL
- ✓ COMPACT SOILS
- ✓ PRECISION DIGGING

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ACE DEUCE QUAD

AVAILABLE IN 1, 2, OR 4 SOLID STREAMS

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Save time. Save water. Save money.

3 STREAM VARIATIONS AVAILABLE TO CUSTOMIZE TRENCH WIDTHS

SWITCHBLADE™

INTERCHANGEABLE PILLS



CHANGE FLOW RATES ON THE FLY

MADE IN USA

NOZZLE SIZE	KIT PART NUMBER	FLOW RATE CHART @1000 PSI (69 Bar)	@1500 PSI (103 Bar)	@2000 PSI (138 Bar)	@2500 PSI (172 Bar)	@3000 PSI (207 Bar)	@3500 PSI (241 Bar)	@4000 PSI (275 Bar)
SWITCHBLADE ACE NOZZLE KIT								
8.0	20022354	4.0 GPM (15.1 LPM)	4.9 GPM (18.5 LPM)	5.7 GPM (21.6 LPM)	6.3 GPM (23.8 LPM)	6.9 GPM (26.1 LPM)	7.2 GPM (27.3 LPM)	8.0 GPM (30.2 LPM)
10.0	20022355	5.0 GPM (18.9 LPM)	6.1 GPM (23.1 LPM)	7.1 GPM (26.9 LPM)	7.9 GPM (29.9 LPM)	8.7 GPM (32.9 LPM)	8.9 GPM (33.7 LPM)	9.0 GPM (34.0 LPM)
12.0	20022356	6.0 GPM (22.7 LPM)	7.3 GPM (22.4 LPM)	8.5 GPM (32.1 LPM)	9.5 GPM (35.9 LPM)	10.4 GPM (39.3 LPM)	10.7 GPM (40.5 LPM)	12.0 GPM (45.4 LPM)
SWITCHBLADE DEUCE NOZZLE KIT								
4.0	20022343	2.0 GPM (7.6 LPM)	2.4 GPM (9.1 LPM)	2.8 GPM (10.6 LPM)	3.2 GPM (12.1 LPM)	3.5 GPM (13.2 LPM)	3.6 GPM (13.6 LPM)	4.0 GPM (15.1 LPM)
6.0	20022344	3.0 GPM (11.4 LPM)	3.7 GPM (14.0 LPM)	4.2 GPM (15.9 LPM)	4.7 GPM (17.9 LPM)	5.2 GPM (19.8 LPM)	5.4 GPM (20.4 LPM)	6.0 GPM (22.7 LPM)
8.0	20022345	4.0 GPM (15.1 LPM)	4.9 GPM (18.5 LPM)	5.7 GPM (21.6 LPM)	6.3 GPM (23.8 LPM)	6.9 GPM (26.1 LPM)	7.2 GPM (27.3 LPM)	8.0 GPM (30.2 LPM)
10.0	20022346	5.0 GPM (18.9 LPM)	6.1 GPM (23.1 LPM)	7.1 GPM (26.9 LPM)	7.9 GPM (29.9 LPM)	8.7 GPM (32.9 LPM)	8.9 GPM (33.7 LPM)	9.0 GPM (34.0 LPM)
12.0	20022347	6.0 GPM (22.7 LPM)	7.3 GPM (22.4 LPM)	8.5 GPM (32.1 LPM)	9.5 GPM (35.9 LPM)	10.4 GPM (39.3 LPM)	10.7 GPM (40.5 LPM)	12.0 GPM (45.4 LPM)
SWITCHBLADE QUAD NOZZLE KIT								
4.0	20022291	2.0 GPM (7.6 LPM)	2.4 GPM (9.1 LPM)	2.8 GPM (10.6 LPM)	3.2 GPM (12.1 LPM)	3.5 GPM (13.2 LPM)	3.6 GPM (13.6 LPM)	4.0 GPM (15.1 LPM)
6.0	20022294	3.0 GPM (11.4 LPM)	3.7 GPM (14.0 LPM)	4.2 GPM (15.9 LPM)	4.7 GPM (17.9 LPM)	5.2 GPM (19.8 LPM)	5.4 GPM (20.4 LPM)	6.0 GPM (22.7 LPM)
8.0	20022277	4.0 GPM (15.1 LPM)	4.9 GPM (18.5 LPM)	5.7 GPM (21.6 LPM)	6.3 GPM (23.8 LPM)	6.9 GPM (26.1 LPM)	7.2 GPM (27.3 LPM)	8.0 GPM (30.2 LPM)
10.0	20022278	5.0 GPM (18.9 LPM)	6.1 GPM (23.1 LPM)	7.1 GPM (26.9 LPM)	7.9 GPM (29.9 LPM)	8.7 GPM (32.9 LPM)	8.9 GPM (33.7 LPM)	9.0 GPM (34.0 LPM)
12.0	20022295	6.0 GPM (22.7 LPM)	7.3 GPM (22.4 LPM)	8.5 GPM (32.1 LPM)	9.5 GPM (35.9 LPM)	10.4 GPM (39.3 LPM)	10.7 GPM (40.5 LPM)	12.0 GPM (45.4 LPM)
14.0	20022279	7.0 GPM (26.4 LPM)	8.6 GPM (32.5 LPM)	9.9 GPM (37.4 LPM)	11.1 GPM (42.0 LPM)	12.1 GPM (45.8 LPM)	13.1 GPM (49.5 LPM)	14.0 GPM (52.9 LPM)



ACE



DEUCE



QUAD







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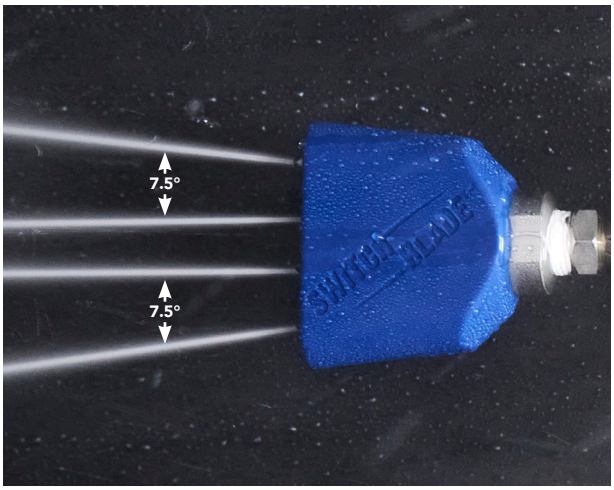
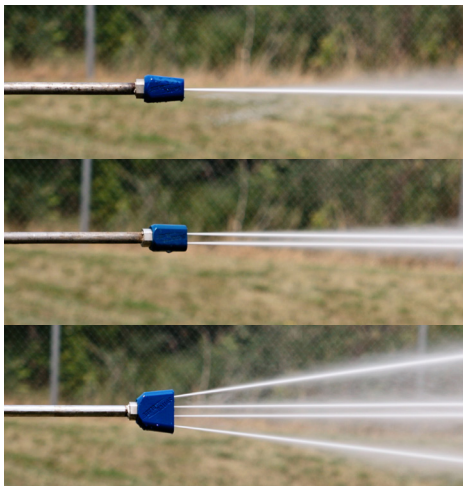


Stainless steel housing and tungsten carbide wear surfaces to extend life



CHANGE YOUR FLOW RATE IN THE FIELD

Individual, replaceable, color-coded nozzle pills – as well as plugs – allow you to change the water flow rate based on soil conditions.



INSIDER TIP

Use Ace's single stream to penetrate the ground directly and deeply in small, precise areas. Let the Deuce tackle medium-size areas, and switch to the Quad for brute force spread over four streams to tackle larger areas with less depth.





PART NUMBER	DESCRIPTION	COLOR	FLOW RATE (EACH PILL) (GPM)					
			@ 1000 PSI	@ 1500 PSI	@ 2000 PSI	@ 2500 PSI	@ 3000 PSI	@ 4000 PSI
20022319	1.0 Nozzle Pill	Blue	0.5 GPM	0.6 GPM	0.7 GPM	0.8 GPM	0.9 GPM	1.0 GPM
20022320	2.0 Nozzle Pill	Yellow	1.0 GPM	1.2 GPM	1.4 GPM	1.6 GPM	1.7 GPM	2.0 GPM
20022321	3.0 Nozzle Pill	Green	1.5 GPM	1.8 GPM	2.1 GPM	2.4 GPM	2.6 GPM	3.0 GPM
20022322	4.0 Nozzle Pill	Orange	2.0 GPM	2.4 GPM	2.8 GPM	3.2 GPM	3.5 GPM	4.0 GPM
20022323	5.0 Nozzle Pill	Purple	2.5 GPM	3.1 GPM	3.5 GPM	4.0 GPM	4.3 GPM	5.0 GPM
20022324	6.0 Nozzle Pill	Red	3.0 GPM	3.7 GPM	4.2 GPM	4.7 GPM	5.2 GPM	6.0 GPM
20022325	8.0 Nozzle Pill	Black	4.0 GPM	4.9 GPM	5.7 GPM	6.3 GPM	6.9 GPM	8.0 GPM
20022326	10.0 Nozzle Pill	White	5.0 GPM	6.1 GPM	7.1 GPM	7.9 GPM	8.7 GPM	10.0 GPM
20022327	12.0 Nozzle Pill	Pink	6.0 GPM	7.3 GPM	8.5 GPM	9.5 GPM	10.4 GPM	12.0 GPM