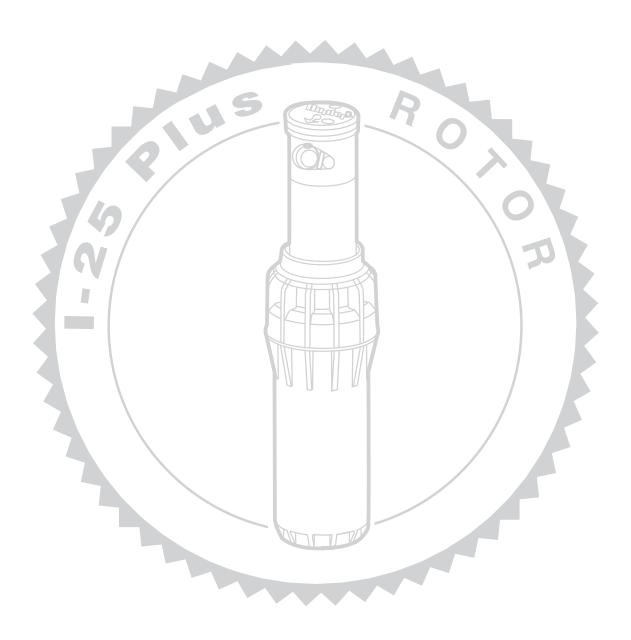


# I-25 Plus Rotors

An Enhanced Design Strengthens this Commercial Rotor's Reputation for Economy, Durability and Performance





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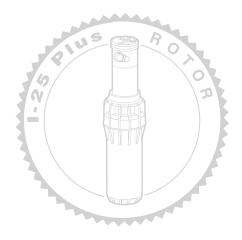
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### PRODUCT OVERVIEW

With its combination of attractive pricing, exceptional nozzle performance and an impressive array of new and enhanced features, Hunter's popular I-25 *Plus* is the ideal rotor for commercial and recreational sites. Always a solid performer, the rotor now boasts a significantly updated design, making the I-25 *Plus* more rugged than ever.

Through the years, this particular model has become a favorite because of its numerous features, most notably its compact, extra beefy construction (including an optional stainless steel riser that provides even more toughness). But today's I-25 Plus offers even more to meet the needs of the most demanding commercial rotor user — a full dozen nozzles that provides excellent uniformity in their coverage both at long distances and close to the sprinkler, a patented self-adjusting stator that guarantees increased sprinkler life, a ribbed body and cap for even better grip, an extra-thick heavy-duty rubber cover that stays on and stands up to the abuse common on heavy traffic sites, as well as the industry's smallest exposed surface area in its category.

Best of all, the I-25 *Plus* can be interchanged into the existing bodies of old-style I-25 sprinklers <u>OR</u> its compact body design will allow it to easily retrofit all major brands without the need to lower or alter piping connections.



## Hunter®

## PRODUCT FEATURES AND BENEFITS

#### Enhanced Nozzle Efficiency...

Custom tailored uniformity

With the I-25 *Plus*, every nozzle has custom tailored uniformity. This means that the secondary orifice, the one that controls the mid-range and close-in coverage, is tailored for and attached to the primary range nozzle. This guarantees optimum efficiency while ensuring that the right combination of nozzles is being installed.

#### Patented Pressure Port<sup>™</sup> System...

Excellent close-in coverage

Providing enough water close to the head had always been a difficult challenge with high flow, high pressure rotors. This is because the tremendous force of the primary stream tends to draw water away from the smaller secondary nozzle. This limits the efficiency of the nozzles intended for short and medium range coverage.

Now, Hunter's patented Pressure

Port™ system reduces velocity and
pressure while increasing the droplet
size from those nozzles. The result:
excellent close-in coverage. The water
droplets are larger, they are less affected
by the primary nozzle and they are less
likely to be carried away by the wind.
And no worries — the reduced velocity
from the Pressure Port system prevents
seed wash out in newly planted areas.





#### 12 Color-Coded Nozzles...

The ultimate in flexibility and identification

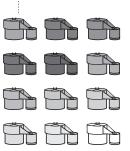
Whether you are designing a new system or upgrading an old one with new sprinklers, fitting the I-25 *Plus* into the application is simple. With 12 nozzles to choose from, any radius from 40' to 73' or flow from 3.8 to 31.5 gpm can be accommodated. The interchangeable nozzles are easy to install and can be reused if removed by pulling the tab provided on the nozzle. The nozzle retaining screw can be used to adjust the radius when water must be kept off buildings and walkways.

Nozzle identification for the I-25 *Plus* is accomplished in three ways. First, every nozzle is individually colorcoded for easy I.D. on the shelf, in the truck or while in operation. Next, each standard nozzle has a nozzle number engraved on the outer surface. To aid in the selection process, these easy to read nozzle numbers now approximate the nozzle's flow. Finally, large and easy to read color coded nozzle I.D. buttons are included with each nozzle. These buttons snap into the rubber cover for I.D. when the sprinkler is retracted. When pre-inserted nozzles are ordered from the factory, the buttons are factory installed.

#### ProTech<sup>™</sup> Safety System ...

Performance and protection for players

The I-25 *Plus* with its 1<sup>7</sup>/<sub>8</sub>" diameter rubber cover, is the smallest exposed surface area in this category and includes the unique ProTech<sup>™</sup> safety system. ProTech combines a small surface area with a flat rubber cover





and a tapered rubber collar that keeps the hard plastics and metals of the sprinkler away from the playing surface. The rubber collar and overlapping design on the rubber cover also acts as a two-stage barrier that helps keep contaminants away from the riser seal. The result: positive retraction and ultimate protection for players.

With the small exposed area, the I-25 *Plus* is out of sight and out of the minds of vandals as well. And if vandals do find the new I-25 *Plus*, the rubber cover won't come off. The rubber cover also has easy to read markings for model, model variation, are adjustment direction, flow direction, lift up socket, radius adjustment and nozzle identification.

#### Super Compact Design...

Easy to install and retro-compatible

The I-25 *Plus* has a *compact body* design that, when compared to the competition, takes up less space to store and makes it easier to install with less digging required.

The new I-25 *Plus* can be interchanged into the existing bodies of old-style I-25 sprinklers...

no need to dig up the entire sprinkler. Even better, the I-25 *Plus* compact body design will allow it to easily retrofit all major brands without the need to lower or alter the piping connections,

making retrofits of older systems a snap.

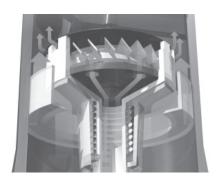
### Extra Thick Ribs on Body and Cap... Durability with a grip

With super heavy-duty external ribbing on the body and body cap, the sprinkler can be disassembled and handled with ease, especially when it's wet and muddy!

#### Patented VStat® Stator...

Customer convenience & longer life

There are no stator rings required with the VStat® constant speed, self adjusting



stator. A remarkable innovation, the VStat, provides up to twice the driving force to the gear drive while adding years to the life of the I-25 *Plus*. This is accomplished through the VStat's patented turbine isolation technology, a breakthrough that all but eliminates gearbox wear due to upward and lateral thrust.

## Hunter<sup>®</sup>

## **PRODUCT FEATURES AND BENEFITS** (cont.)

I-25 Plus: High Speed Model...

When speed is a need

For quick, light wetdowns of clay tennis courts, baseball infields, or any areas that require dust control or normal turf irrigation, Hunter offers the I-25 *Plus HS*. The rotation speed is increased from three minutes to one for a 360° revolution, making it perfect for the quick syringing and humidifying in selected areas.

The brown rubber cover on the HS makes for quick and easy identification in the field.

#### Patented 3-Spring Reversing...

The #1 in reliability

No worries with the most reliable adjustable arc reversing mechanism in the industry. Our patented 3-spring, reversing technology won't "hang up" and get locked at the critical directional shift point.

#### Easy Arc Adjustment...

Up, down, wet or dry and from the top

Adjustable from 40° to 360° in all phases of the installation process. Dry & down, prior to installing by rotating with the palm of the hand; dry or wet, after installation

when the head is retracted; and wet, when the sprinkler is in operation. Customer convenient and easy to fine tune with the industry standard Hunter

wrench. The 8:1 adjustment ratio changes the arc 45° for each full turn of the wrench and the arrows on the rubber cover clearly define the adjustment direction with plus (+) and minus (-) symbols.

#### Stainless Steel Riser...

Longer riser seal life = Reliable retraction

The optional stainless steel riser protects the riser seal from wear due to its increased durability in harsh and sandy conditions. A stainless steel riser will prevent scoring of the riser and riser seal, thus preventing premature leaking and riser "stick ups."

#### Spin-Weld Nozzle Turret...

Durability in the toughest conditions

With the improved spin-weld process, the rotating nozzle turret is actually welded to the output tube (bull gear) of the sprinkler. The bottom line? Increased side load strength for vandal resistance and rock solid reliability in the acid test for all sprinklers...the system winterization process.





Spin-Weld Nozzle Turret

#### Drain Check Valve...

Saves water; reduces liability

The built-in drain check valve is standard in the I-25 *Plus*. The check valve will hold back water pressure from up to 10' of elevation change. Preventing low head drainage prevents accidents, pests, diseases and the wasting of that most valuable resource...water.

#### Heavy Duty Body Cap Threads...

Buttress is the best

Got mud? Well the heavy duty threads on the I-25 *Plus* are designed to take it. Adverse soil conditions won't interfere with the threading process with these super coarse buttress threads. Need to service the filter screen? Just a few quick turns and the riser is out with the I-25 *Plus*. With some products, the cap must be turned as many as twelve times to get the riser out.



#### "Jar Top" Convenience...

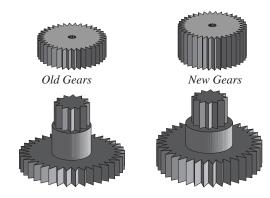
It's a snap without the snap

If screen servicing is required, the internals come out as one piece, not in multiple parts that end up getting lost or broken. And there are no special tools or training classes needed to take apart the I-25 *Plus*.

#### Proven & Improved Gear Drive...

The reliable Hunter gear drive

Hunter is already known for making the best gear drives in the industry. Now, through the knowledge gained in building products that withstand the rigors of the golf market, we have taken that expertise in making gear-driven rotors to the next level. Numerous enhancements have been introduced to the I-25 *Plus* that actually increase life by at least four times. From the life giving VStat® and the beefing of gears in key areas to the surge, burst, seal and contamination resistance improvements, the I-25 *Plus* is built to take whatever the end user can dish out.





### PRODUCT COMPARISONS

FEATURES	HUNTER I-25 Plus	TORO 2001	RAIN BIRD Falcon	NELSON 7000
Pressure Port™ secondary nozzle system	✓			
Primary & secondary nozzle is one unit	✓		✓	
Custom tailored secondary nozzle for each primary nozzle	✓			
Radius adjustment available	✓		✓	✓
Exposed diameter	1 7/8"	3 3/8"	2"	2 3/8"
Vandal resistant, permanent rubber cover	✓		✓	
ProTech™ safety system	✓			
Super compact design	7 7/8"	8 5/8"	8 1/2"	9 1/2"
Extra thick support ribs (cap, body inlet & side)	✓	minimal		✓
nterchangeable, color-coded nozzles	12	5	8	5 (no color)
Radius adjustment without disassembly of parts	✓		✓	
Nozzles installed without removing parts	✓	✓	✓	
Heavy-duty & coarse buttress threads	✓		✓	
Constant Speed with variable stator	Patented VStat <sup>®</sup>			
'Jar top" convenience with no loose parts to break or special tools required	✓		✓	✓
Proven reliable 3 spring reversing mechanism	✓			
Arc adjustment accomplished without removing parts	✓	✓	✓	
Adjustable Arc Range	40°-360°	30°-360°	40°-360°	40°-360°
Jp, down, wet or dry adjustment	✓		✓	
Easy to read arc adjustment symbols on top of sprinkler	✓	✓	hard to read	
Directional flow indicator, model variation I.D. on top of sprinkler	✓			✓
Nozzle identification from top of sprinkler	✓			
Optional stainless steel riser	✓	✓	1	✓
Optional reclaimed water versions	✓	✓	✓	1

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### NOZZLE REPLACEMENT GUIDE

Noza	zle Re	place	men	nt Gu	ide					
To Replace: Rainbird Falcon		Use I-25+ Nozzle		To Replace	Nelson 7000 & 7500		Use <b>I-25</b>	+ Nozzle		
4	(B	lack)		4	(Yellow)	1			7	(Orange)
6	(Lt.	Blue)		5	(White)	2			8	(Lt. Brown)
8	(Dk. G	reen)		7	(Orange)	3			10	(Lt. Green)
10	((	Grey)		8	(Lt. Brown)	4		-	13	(Lt. Blue)
12	(B	eige)		10	(Lt. Green)	5			15	(Grey)
14	(Lt. G	reen)		13	(Lt. Blue)	6		-	20	(Dk. Brown)
16	(Dk. Br	own)		18	(Red)	7			23	(Dk. Green)
18	(Dk. I	Blue)		20	(Dk. Brown)	8		-	25	(Dk. Blue)
To Repla	ace: <i>Rainbird</i>	R-70		Use <b>I-2</b> 5	+ Nozzle	To Replace	: Toro 2001		Use <b>I-25</b>	+ Nozzle
9	(Ora	inge)		8	(Lt. Brown)	6	(Yellow)		7	(Orange)
12	(B	eige)		13	(Lt. Blue)	9	(Red)	-	8	(Lt. Brown)
15	(И	/hite)		15	(Gray)	12	(Brown)		10	(Lt. Green)
18	(1	Blue)		18	(Red)	18	(Blue)	-	18	(Red)
21	(	Red)		20	(Dk. Brown)	24	(Green)		25	(Dk. Blue)
23	(Ye	ellow)		25	(Dk. Blue)	To Replace	: Toro 640		Use <b>I-25</b>	+ Nozzle
To Repla	ace: <i>Rainbird</i>	"Other"		Use <b>I-2</b> 5	+ Nozzle	40			8	(Lt. Brown)
41-	51A 18	k11.5		20	(Dk. Brown)	41			10	(Lt. Green)
41-	51A 1	3x11		13	(Lt. Blue)	42			13	(Lt. Blue)
47 <i>P</i>	١	16		13	(Lt. Blue)	43			15	(Grey)
37 <i>A</i>	١	14		8	(Lt. Brown)	44			23	(Dk. Green)
606	0 1	3x11		13	(Lt. Blue)	To Replace	: Toro 610		Use <b>I-25</b>	+ Nozzle
505	55	14		8	(Lt. Brown)	6			7	(Orange)
404	5	10		5	(White)	9			10	(Lt. Green)
65 \$	Series	16		15	(Grey)	12			13	(Lt. Blue)
35 \$	Series	12		7	(Orange)	15			15	(Grey)
25	Series	10		4	(Yellow)	20			20	(Dk. Brown)
To Repla	ace: <b>Thompso</b> n	186/187		Use I-2	25+ Nozzle	To Replace	: All Mfg. Single Nozzle Im	pacts	Use <b>I-25</b>	i+ Nozzle
P-N	lozzle		-	5	(White)	5/32"		-	4	(Yellow)
Q-N	Nozzle			7	(Orange)	11/64"	l	-	5	(White)
R-N	lozzle			13	(Lt. Blue)	3/16"			7	(Orange)
S-N	lozzle			15	(Gray)	13/ <sub>64</sub> "			8	(Lt. Brown)
T-N	ozzle			18	(Red)	7/32"			10	(Lt. Green)
U-N	lozzle			23	(Dk. Green)	15/64"			13	(Lt. Blue)
VS-	-Nozzle			28	(Black	1/4"			15	(Grey)
V-N	lozzle			28	(Black)	17/64"			20	(Dk. Brown)
1-W	Nozzle			28	(Black)					



### PRODUCT PERFORMANCE

The I-25 *Plus* has twelve interchangeable nozzles that provide a wide and versatile range from 3.8 to 31.5 gpm and 40' to 73' radius. The optimum

performance varies between 60 and 70 psi, dynamic operating pressure (depending upon nozzle size). The average precipitation rate is approximately .40" hr. (calculated at 360°). The actual precipitation rate may vary, and should be

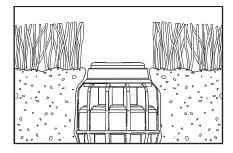
calculated.

I-25 Performance Chart						
Nozzle	PSI	Radius ft.	GPM			
Yellow 4	40	40'	3.8			
	50	41'	4.3			
	60	42'	4.7			
	70	43'	5.1			
White 5	40	43'	4.4			
	50	44'	4.8			
	60	45'	5.3			
	70	46'	5.6			
Orange*	40	45'	6.6			
	50	47'	7.0			
	60	48'	7.5			
	70	49'	7.9			
Et. Brown	40	47'	7.7			
	50	49'	8.3			
	60	50'	9.2			
	70	51'	9.9			
010 Lt. Green*	50 60 70 80	53' 54' 55' 56'	10.9 12.0 13.1 14.3			
<b>13</b> Lt. Blue	50	55'	11.2			
	60	56'	12.3			
	70	57'	13.3			
	80	57'	14.3			
<b>15</b> Grey*	50	58'	13.4			
	60	59'	14.3			
	70	59'	15.2			
	80	60'	16.4			
<b>18</b> Red	50	60'	14.5			
	60	61'	15.7			
	70	62'	16.9			
	80	63'	18.2			
©20 Dk. Brown*	60 70 80 90	62' 63' 64' 65'	17.8 19.2 20.5 21.8			
©23 Dk. Green	60 70 80 90	64' 65' 66' 67'	21.9 23.6 25.6 27.0			
©25 Dk. Blue*	60 70 80 90	70' 71' 71' 72'	25.6 26.2 28.0 29.8			
©28 Black	70 80 90 100	71' 72' 73' 73'	26.9 28.7 30.6 31.5			

<sup>\*</sup> Five standard nozzles included with each sprinkler Data represent test results in zero wind. Adjust for local conditions. Radius may be adjusted up to 25% with adjustment screw (this may alter the uniformity of the spray pattern).

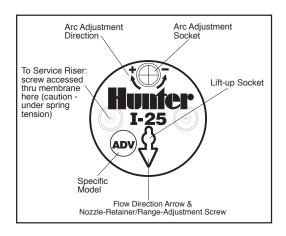
## INSTALLATION & MAINTENANCE

### Installation Height



The I-25 *Plus* sprinkler should be installed at finish grade as shown in the illustration.

#### Arc Adjustment



(All I-25 *Plus* adjustable heads are PRESET to approximately 180°)

- 1. Rotate the nozzle turret counterclockwise to the left stop.
- 2. Now, rotate the nozzle turret clockwise to the right stop. This is the fixed side of the arc. The nozzle turret must be held in this position for all arc adjustments.

#### To increase arc:

- 1. Insert the key end of the Hunter wrench into the adjustment socket on top of the sprinkler.
- 2. While holding the nozzle turret at the right stop, turn the wrench clockwise.
- 3. Wrench will stop turning when adjusted to the maximum arc (360°).
- 4. Adjust to any arc between 40°-360°.

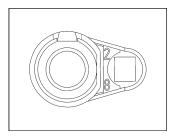
#### To decrease arc:

- 1. Insert the key end of the Hunter wrench into the adjustment socket.
- 2. While holding the nozzle turret at the right stop, turn the wrench counterclockwise.
- 3. Wrench will stop turning when adjusted to the minimum arc (40°).
- 4. Adjust to any arc between 40°-360°.

#### Nozzle Insertion

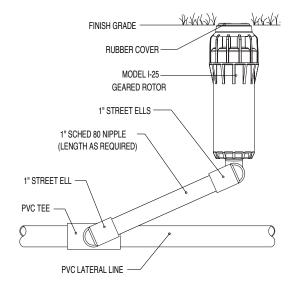


#### New, Improved Nozzles



- Color-coded I.D. from above
- Numbered I.D. to approximate flow
- Custom tailored uniformity
- Cannot be installed backwards
- Great performance
- Removable with pull tab
- Reusable

#### Installation Detail



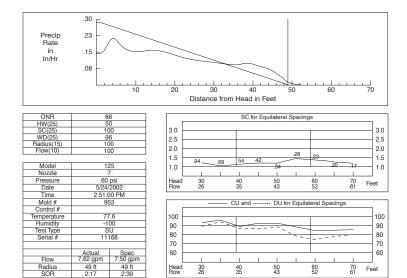




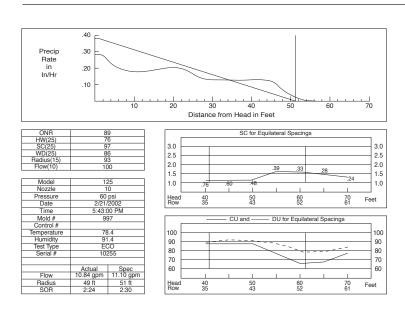
#### **DISTRIBUTION ANALYSIS**

#### Hunter's Testing Philosophy

The following five sets of distribution analysis for the new I-25 *Plus* are from Hunter's state-of-the-art testing lab. Hunter Industries routinely submits products to The Center for Irrigation Technology for independent testing. We use CIT's test results to verify our own and to make our performance available to the public through their computer software programs. All nozzles for the new I-25 are tested by CIT. The examples below coincide with the five nozzles that are shipped with each sprinkler.



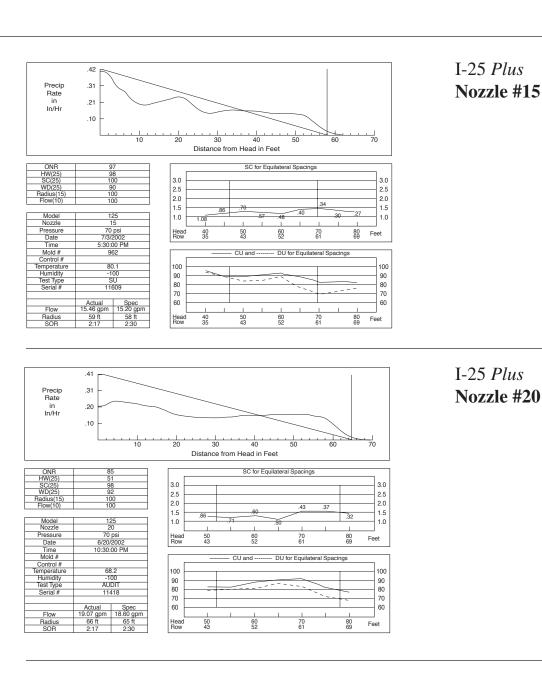
I-25 *Plus* **Nozzle #7** 

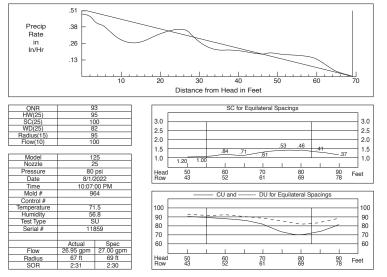


I-25 *Plus*Nozzle #10

#### **Data Interpretation**

The upper portion of each report shows the water distribution profile for the sprinkler along with flow, pressure and radius information. The lower portion is dedicated to efficiency and precipitation rate analysis. To read the graph, first note the spacing range at the bottom. These are the reference points when looking for efficiency at a specific spacing. The lower solid bar that has the numbers above it is the Scheduling Coefficient (SC) line. The numbers above this line reference the precipitation rate in inches per hour at each spacing. To find the SC at your spacing, reference the vertical numbers on the left. SCs of less that 2 are considered good and less than 1.5 are considered excellent. The dashed line along the top is the Coefficient of Uniformity (CU) line. The CU efficiency rating is no longer considered relevant for turf applications. It can be read by referencing the vertical numbers on the right. CUs above 80 are considered good and above 90 are considered excellent.





I-25 *Plus* **Nozzle #25** 



## ORDERING INFORMATION

#### **Hunter Distributors:**

Ordering information for additional nozzle packs for I-25 *Plus* sprinklers. 5 nozzles are included with each sprinkler. Other nozzle sizes can be ordered separately in packs of 25.

DESCRIPTI	Part NO.	
Nozzle Pack	(1 each #'s 7, 10, 15, 20, 25)	46-0010
Nozzle Pack #4	Yellow (bag of 25)	46-3401
Nozzle Pack #5	White (bag of 25)	46-3402
Nozzle Pack #7	Orange (bag of 25)	46-3403
Nozzle Pack #8	Lt. Brown (bag of 25)	46-3404
Nozzle Pack #10	Lt. Green (bag of 25)	46-3405
Nozzle Pack #13	Lt. Blue (bag of 25)	46-3406
Nozzle Pack #15	Gray (bag of 25)	46-3407
Nozzle Pack #18	Red (bag of 25)	46-3408
Nozzle Pack #20	Dk. Brown (bag of 25)	46-3409
Nozzle Pack #23	Dk. Green (bag of 25)	46-3410
Nozzle Pack #25	Dk. Blue (bag of 25)	46-3411
Nozzle Pack #28	Black (bag of 25)	46-3412

